

2007 Wholesale Power Rate Case Initial Proposal

LOAD RESOURCE STUDY AND DOCUMENTATION

November 2005

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COMMONLY USED ACRONYMS

AANR	Audited Accumulated Net Revenues
AC	Alternating Current
AER	Actual Energy Regulation
Affiliated Tribes	Affiliated Tribes of Northwest Indians
AFDUC	Allowance for Funds Used During Construction
AGC	Automatic Generation Control
aMW	Average Megawatt
Alcoa	Alcoa Inc.
AMNR	Accumulated Modified Net Revenues
ANR	Accumulated Net Revenues
ANRT	Accumulated Net Revenue Threshold
AOP	Assured Operating Plan
APS	Ancillary Products and Services (rate)
ASC	Average System Cost
Avista	Avista Corporation, Water Power Division
BASC	BPA Average System Cost
BiOp	Biological Opinion
BOR	Bureau of Reclamation
BPA	Bonneville Power Administration
BP EIS	Business Plan Environmental Impact Statement
Btu	British thermal unit
C&R Discount	Conservation and Renewables Discount
C&R	Cost and Revenue
CalPX	California Power Exchange
CAISO	California Independent System Operator
CBFWA	Columbia Basin Fish & Wildlife Authority
CBP	Columbia Basin Project
CCCT	Combined-Cycle Combustion Turbine
CEC	California Energy Commission
CFAC	Columbia Falls Aluminum Company
Cfs	Cubic feet per second
COB	California-Oregon Border
COE	U.S. Army Corps of Engineers
ConMod	Conservation Modernization Program
COSA	Cost of Service Analysis
Council	Northwest Power Planning and Conservation Council
CP	Coincidental Peak
CRAC	Cost Recovery Adjustment Clause
CRC	Conservation Rate Credit
CRITFC	Columbia River Inter-Tribal Fish Commission
CSP	Customer System Peak
CSPE	Columbia Storage Power Exchange
CT	Combustion Turbine
CWA	Clear Water Act

CY	Calendar Year (Jan-Dec)
DC	Direct Current
DDC	Dividend Distribution Clause
DJ	Dow Jones
DMP	Data Management Procedures
DO	Debt Optimization
DOE	Department of Energy
DROD	Draft Record of Decision
DSIs	Direct Service Industrial Customers
DSR	Debt Service Reassignment
ECC	Energy Content Curve
EFB	Excess Federal Power
EIA	Energy Information Administration
EIS	Environmental Impact Statement
EN	Energy Northwest, Inc.
Energy Northwest, Inc.	Formerly Washington Public Power Supply System (Nuclear)
Energy Services	Energy Services, Inc.
EPA	Environmental Protection Agency
EPP	Environmentally Preferred Power
ESA	Endangered Species Act
EWEB	Eugene Water & Electric Board
F&O	Financial and Operating Reports
FBPF	Forward Flat-Block Price Forecast
FBS	Federal Base System
FCCF	Fish Cost Contingency Fund
FCRPS	Federal Columbia River Power System
FCRTS	Federal Columbia River Transmission System
FERC	Federal Energy Regulatory Commission
FELCC	Firm Energy Load Carrying Capability
Fifth Power Plan	Council's Fifth Northwest Conservation and Electric Power Plan
FPA	Federal Power Act
FPS	Firm Power Products and Services (rate)
FSEA	Federal Secondary Energy Analysis
F&WCA	Fish and Wildlife Coordination Act
FY	Fiscal Year (Oct-Sep)
GAAP	Generally Accepted Accounting Principles
GCPs	General Contract Provisions
GEP	Green Energy Premium
GI	Generation Integration
GRI	Gas Research Institute
GRSPs	General Rate Schedule Provisions
GSP	Generation System Peak
GSU	Generator Step-Up Transformers
GTA	General Transfer Agreement
GWh	Gigawatthour

HELM	Hourly Electric Load Model
HLFG	High Load Factor Group
HLH	Heavy Load Hour
HOSS	Hourly Operating and Scheduling Simulator
ICNU	Industrial Customers of Northwest Utilities
ICUA	Idaho Consumer-Owned Utilities Association, Inc.
IOU REP Settlement benefits	Investor-Owned Utilities Residential Exchange Program Settlement benefits
IOUs	Investor-Owned Utilities of the Pacific Northwest
IP	Industrial Firm Power (rate)
IP TAC	Industrial Firm Power Targeted Adjustment Charge
IPC	Idaho Power Company
ISC	Investment Service Coverage
ISO	Independent System Operator
KAF	Thousand Acre Feet
kcfs	kilo (thousands) of cubic feet per second
K/I	Kilowatt-hour/Investment Ratio for Low Density Discount
ksfd	thousand second foot day
kV	Kilovolt (1000 volts)
kW	Kilowatt (1000 watts)
kWh	Kilowatt-hour
LB CRAC	Load-Based Cost Recovery Adjustment Clause
LCP	Least-Cost Plan
LDD	Low Density Discount
LLH	Light Load Hour
LOLP	Loss of Load Probability
LRSCP	Lower Snake River Compensation Plan
m/kWh	Mills per kilowatt-hour
MAC	Market Access Coalition Group
MAF	Million Acre Feet
MC	Marginal Cost
MCA	Marginal Cost Analysis
MCS	Model Conservation Standards
M/M	Meters/Miles-of-Line Ratio for Low Density Discount
Mid-C	Mid-Columbia
MIMA	Market Index Monthly Adjustment
MIP	Minimum Irrigation Pool
MMBTU	Million British Thermal Units
MNR	Modified Net Revenues
MOA	Memorandum of Agreement
MOP	Minimum Operating Pool
MORC	Minimum Operating Reliability Criteria
MT	Market Transmission (rate)
MW	Megawatt (1 million watts)
MWh	Megawatt-hour
NCD	Non-coincidental Demand

NEC	Northwest Energy Coalition
NEPA	National Environmental Policy Act
NERC	North American Electric Reliability Council
NEW	Northwestern Energy
NF	Nonfirm Energy (rate)
NFB Adjustment	National Marine Fisheries Service (NMFS) Federal Columbia River Power System (FCRPS) Biological Opinion (BiOp) Adjustment
NLSL	New Large Single Load
NMFS	National Marine Fisheries Service
NOAA Fisheries	National Oceanographic and Atmospheric Administration Fisheries
NOB	Nevada-Oregon Border
NORM	Non-Operating Risk Model
Northwest Power Act	Pacific Northwest Electric Power Planning and Conservation Act
NPV	Net Present Value
NR	New Resource Firm Power (rate)
NRU	Northwest Requirements Utilities
NT	Network Transmission
NTP	Network Integration Transmission (rate)
NTSA	Non-Treaty Storage Agreement
NUG	Non-Utility Generation
NWPP	Northwest Power Pool
NWPPC	Northwest Power Planning Council
NWPPC C&R	Northwest Power Planning Council Cost and Revenues Analysis
O&M	Operation and Maintenance
OMB	Office of Management and Budget
OPUC	Oregon Public Utility Commission
OURCA	Oregon Utility Resource Coordination Association
ORC	Operating Reserves Credit
OY	Operating Year (Aug-Jul)
PA	Public Agency
PacifiCorp	PacifiCorp
PATH	Plan for Analyzing and Testing Hypotheses
PBL	Power Business Line
PDP	Proportional Draft Points
PDR	Power Discharge Requirement
PF	Priority Firm Power (rate)
PFBC	Pressurized Fluidized Bed Combustion
PFR	Power Function Review
PGE	Portland General Electric Company
PGP	Public Generating Pool
PMA	Power Marketing Agencies
PNCA	Pacific Northwest Coordination Agreement

PNGC	Pacific Northwest Generating Cooperative
PNRR	Planned Net Revenues for Risk
PNW	Pacific Northwest
POD	Point of Delivery
POI	Point of Integration/Point of Interconnection
POM	Point of Metering
PPC	Public Power Council
PPLM	PP&L Montana, LLC
Project Act	Bonneville Project Act
PSA	Power Sales Agreement
PSC	Power Sales Contract
PSE	Puget Sound Energy
PSW	Pacific Southwest
PTP	Point-to-Point
PUD	Public or People's Utility District
RAM	Rate Analysis Model (computer model)
RAS	Remedial Action Scheme
Reclamation	Bureau of Reclamation
Renewable Northwest	Renewable Northwest Project
RD	Regional Dialogue
REP	Residential Exchange Program
RFA	Revenue Forecast Application
RFP	Request for Proposal
RiskMod	Risk Analysis Model (computer model)
RiskSim	Risk Simulation Model
RL	Residential Load (rate)
RMS	Remote Metering System
ROD	Record of Decision
RPSA	Residential Purchase and Sale Agreement
RTF	Regional Technical Forum
RTO	Regional Transmission Operator
SCCT	Single-Cycle Combustion Turbine
SCRA	Supplemental Contingency Reserve Adjustment
Shoshone-Bannock	Shoshone-Bannock Tribes
SOS	Save Our Wild Salmon
Slice	Slice of the System product
STREAM	Short-Term Risk Evaluation and Analysis Model
SUB	Springfield Utility Board
SUMY	Stepped-Up Multiyear
SWPA	Southwestern Power Administration
TAC	Targeted Adjustment Charge
TBL	Transmission Business Line
tcf	Trillion Cubic Feet
TCH	Transmission Contract Holder
TDG	Total Dissolved Gas
TPP	Treasury Payment Probability

Transmission System Act	Federal Columbia River Transmission System Act
TRL	Total Retail Load
UAI Charge	Unauthorized Increase Charge
UAMPS	Utah Associated Municipal Power Systems
UCUT	Upper Columbia United Tribes
UDC	Utility Distribution Company
UP&L	Utah Power & Light
URC	Upper Rule Curve
USBR	U.S. Bureau of Reclamation
USFWS	U.S. Fish and Wildlife Service
VOR	Value of Reserves
WAPA	Western Area Power Administration
WECC	Western Electricity Coordinating Council
WPAG	Western Public Agencies Group
WPRDS	Wholesale Power Rate Development Study
WSPP	Western Systems Power Pool
WUTC	Washington Utilities and Transportation Commission
WY	Watt-Year
Yakama	Confederated Tribes and Bands of the Yakama Nation

1. INTRODUCTION

The Load Resource Study (Study) represents the compilation of the loads, sales, contracts, and resource data necessary for developing BPA wholesale power rates. The results of this Study are used to: (1) provide base data to determine resource costs for the Revenue Requirement Study, WP-07-E-BPA-02; (2) provide regional hydro data for use in the secondary revenue forecast for the Market Power Study, WP-07-E-BPA-03; (3) provide base data to derive billing determinants for the revenue forecast in the Wholesale Power Rate Development Study (WPRDS), WP-07-E-BPA-05; and (4) provide load and resource data for use in calculating risk in the Risk Analysis Study, WP-07-E-BPA-04.

This Study provides a synopsis of BPA's load resource analyses. This Study illustrates how each component is completed, how components relate to each other, and how each component fits into the rate development process. Details and results supporting this Study are contained in the Load Resource Documentation, WP-07-E-BPA-01A.

2. LOAD RESOURCE STUDY

2.1 Overview of Methodology

This Study includes major interrelated Federal system components: (1) a forecast of the Federal system load obligations that are comprised of BPA's power sales contract obligations (PSCs) and other BPA contract obligations other than PSCs; (2) Federal system resources that include BPA's Federal system generating resources and other BPA contract purchases; (3) the Federal system load resource balance that relates Federal sales, loads and contract obligations to the Federal generating resources and contract purchases; (4) total Pacific Northwest regional hydro resources; and (5) estimated purchase megawatts eligible for 4(h)(10)(C) credit.

2.1.1 Federal System Load Obligations

The Federal system load obligation forecast estimates the firm energy load obligations that BPA expects to serve during the fiscal year¹ (FY) 2007 through 2009 period under firm requirements PSCs and other BPA contract obligations other than PSCs.

The Federal system PSC forecast is composed of customer group sales forecasts for public body and cooperative utilities and Federal agencies (Public Agencies), direct service industrial customers (DSI), investor-owned utilities (IOU), and other BPA power sales contract obligations. These obligations are forecasted monthly over the period for the generation system peak (GSP) in megawatts, energy in average megawatts (aMW), heavy load hour energy in megawatt-hours (HLH MWh), and light load hour energy in megawatt-hours (LLH MWh). This forecast is provided to the Risk Analysis Study, WP-07-E-BPA-04.

BPA's other contract obligations are comprised of contracts not defined under BPA's firm requirements power sales contract obligations. These obligations include contract sales to utilities, marketers, and power commitments under international treaty. These contract obligations are estimated monthly, for energy in aMW, HLH MWh, and LLH MWh. The contract data are provided to the Risk Analysis Study, WP-07-E-BPA-04.

2.1.2 Federal System Resources

BPA markets power from generating resources that include Federal and non-Federal hydro projects, other contracted generating projects, and other BPA hydro-related contracts. The combination of these generating resources represents most of the Federal system's available firm output. BPA's current projection of the output of these generating resources is incorporated in

¹ Fiscal year (FY) is the 12-month period October 1 through September 30. For example FY 2007 is October 1, 2006, through September 30, 2007.

1 this Load Resource Study, WP-07-E-BPA-01 and is presented in the Load Resource
2 Documentation, WP-07-E-BPA-01A.

3
4 Only the monthly Federal hydro generation energy estimates, in aMW, are used as input to the
5 Risk Analysis Study, WP-07-E-BPA-04. The HLH and LLH determination of the Federal
6 system hydro is completed in the Risk Analysis Study, WP-07-E-BPA-04. Other non-hydro
7 Federal generation is estimated monthly, for energy in aMW, HLH MWh, and LLH MWh and
8 used as input to the Risk Analysis Study, WP-07-E-BPA-04.

9
10 In addition, BPA has other resources that are comprised of contract purchases and exchanges,
11 return energy associated with BPA's capacity contracts, return and exchange energy associated
12 with capacity-for-energy exchanges, power purchases, and power commitments delivered to
13 BPA under international treaty. These contract purchases are estimated monthly, for energy
14 in aMW, HLH MWh, and LLH MWh. The data are provided to the Risk Analysis Study,
15 WP-07-E-BPA-04.

16 17 **2.1.3 Federal System Load Resource Balance**

18 The Federal load resource balance completes BPA's loads and resources picture by comparing
19 Federal system loads to Federal system resources for FY 2007 through 2009. Federal system
20 loads include BPA's power sales contract and other Federal contract obligations. Federal system
21 resources include BPA's regulated and independent hydro resources, under 1937 water
22 conditions, contract purchases, and other non-hydro generating projects. The result of the
23 Federal system resources less loads yields BPA's estimated Federal system monthly firm energy
24 surplus or deficit, in aMW. The data are provided to the Risk Analysis Study,
25 WP-07-E-BPA-04.

2.1.4 Pacific Northwest Regional Hydro Generation

The PNW regional hydro is used for the secondary revenue analysis used in the Market Price Forecast Study, WP-07-E-BPA-03. The regional hydro data includes all PNW regional hydro: regulated hydro, independent hydro, and non-utility generating (NUG) hydro for FY 2007 through 2009. This larger set of regional regulated and independent hydro generation is estimated for each of the 50 water years of record. The regional NUG hydro does not vary by water conditions. The PNW regional hydro is presented monthly, for energy in aMW, for each of the 50-water conditions.

2.1.5 Estimate of 4(h)(10)(C) Credit

BPA funds programs to protect, mitigate, and enhance fish and wildlife affected by Federal hydro operations, as directed by the Northwest Power Act (Act). These program costs are then allocated to hydro project purposes, both for power and non-power uses. The Act directs BPA to recoup its funding for non-power purposes annually via 4(h)(10)(C) credits, so ratepayers only pay their power share of the fish and wildlife costs. BPA uses a specific methodology for annually determining whether or how much of the 4(h)(10)(C) credit may be available for ratemaking purposes.

2.2 Federal System Load Obligation Forecast

2.2.1 Overview

The Federal System Load Obligations Forecast includes BPA's forecasted PSC obligations to regional public agencies, IOUs, and DSIs, contractual obligations outside the Pacific Northwest region (exports), and contractual obligations within the Pacific Northwest region (intra-regional transfers-in). The total Federal system load obligations are provided to the Risk Analysis Study, WP-07-E-BPA-04. The summary of Federal system loads, sales, contracts, and generation

estimates used in BPA's 2007 Wholesale Power Rate Case Initial Proposal are shown in the Load Resource Documentation, WP-07-E-BPA-01A, Section 2.3, Tables 2.3.1 through 2.3.3, *Loads and Resources-Federal System*. Summaries of BPA's public agencies, IOU, and DSI projected power sales contract obligations are presented in Section 2.2.2 of this Study.

Policies and procedures guiding BPA's firm energy sales in the FY 2007 through 2009 rate period are presented in BPA's Power Subscription Strategy Administrator's Record of Decision (Subscription Strategy) published December 1998 and BPA's Policy for Power Supply Role for FY 2007 through 2011, Administrator's Record of Decision (Near-Term ROD) published February 2005. The Subscription and Near-Term ROD provides the basis for the public agencies, IOU, and DSI firm energy power sales contract obligation forecasts presented in this Load Resource Study.

2.2.2 Public Agencies Total Retail Load and Sales Forecasts

The public agencies monthly energy sales forecast for those utilities that purchased Full or Partial Service products is based on the sum of the utility-specific sales forecasts routinely produced by BPA analysts. The utility-specific forecasts of total retail load are produced using linear trend models based on historical annual energy totals. The annual total retail load projections are prorated to monthly figures using historical relationships. These forecasts comprise projections of monthly energy and peak. The energy figures are split into HLH and LLH segments using recent historical relationships. Monthly peak loads were estimated using average historical load factor relationships of energy to peak.

Estimates of customer-owned generation were then subtracted from the appropriate customer's total retail load to produce forecasts of net requirements for each utility. These net requirements provided the basis for the sales projections for the Full and Partial products. For those utilities

1 purchasing Slice and Block products, the forecast is the contracted amount and it is split into
2 appropriate HLH and LLH segments. These forecasts are then reduced by non-PF agreements
3 such as purchases of the Irrigation Rate Mitigation Product.
4

5 Slice is a power sales contract product that provides firm requirements power and secondary
6 energy to a customer based on their net requirements load for the 10-year period
7 October 1, 2001, through September 30, 2011. It differs from traditional power products in that
8 it is comprised of the following components: 1) Firm power deliveries based on the level and
9 shape of the Slice resource stack; and 2) Surplus power deliveries on a monthly or seasonal basis
10 as it occurs. The Slice product was also combined with a sale of a fixed amount of power sold as
11 a Block product.
12

13 Slice contracts for power deliveries based on 22.63 percent of the Slice resource stack. The Slice
14 resource stack is comprised of a set of specific Federal resources, net of a specific set of Federal
15 obligations. This particular set of resources and obligations is used only for the Slice product
16 and is not the Federal system resource stack. The specific set of Federal resources that comprise
17 the Slice resource stack includes: the generation from the Federal hydro projects, Columbia
18 Generating Station, Georgia Pacific Corporation's Wauna Mill, Federal Non-Utility Generation,
19 and power deliveries from the Non-Federal Canadian Entitlement Return (CER) for Canada
20 contracts. The specific set of Federal contract obligations, which are subtracted from the Slice
21 resource stack for this purpose includes, but is not limited to, deliveries for the CER to Canada
22 (shown as an Export) and Federal pumping loads. The amount of Slice product available for
23 delivery is dependent on the Federal system operating decisions, hydro production that varies by
24 water conditions, and generation from non-hydro Federal resources.
25

26 These Federal system Slice resource obligations are shown in the Load Resource

Documentation, WP-07-E-BPA-01A, Section 2.3, Tables 2.3.1 through 2.3.3, *Loads and Resources-Federal System, (NGP Slice Sale) and (GPU Slice Sale)*. These power sales contract forecast estimates are used as inputs in the Risk Analysis Study, WP-07-E-BPA-04.

The sum of the projected sales for customers purchasing Subscription products comprises the aggregate PF sales forecast. This sum is then reduced by an incremental 20 aMW per year to reflect conservation savings from bilateral contracts. Table 2.2.2.1, below, presents the PF sales by product and total PF sales adjusted for conservation savings.

Table 2.2.2.1
PF Sales Forecast by Product
Energy in aMW

	Full	Partial	Block	Slice Block	Slice	TOTAL	Adjusted Total
FY2007	1,926	1,028	1,011	1,209	1,636	6,810	6,790
FY2008	1,975	1,040	1,010	1,210	1,642	6,877	6,838
FY2009	2,020	1,053	1,011	1,209	1,632	6,925	6,866

Because pre-Subscription contracts are not subject to the PF rate schedule, the sales under these contracts are not included in the PF sales forecasts. However, these contracts do represent BPA sales obligations and so reduce BPA's resource inventories.

The monthly sales forecasts for energy in aMW, HLH MWh, LLH MWh, and demand for the Full Service, Partial Service, Slice/Block, and Block customer groups are presented in the Load Resource Documentation, WP-07-E-BPA-01A, Section 2.2, Table 2.2.1, *PF Full and Partial Service Sales Forecast* and Table 2.2.2, *Block/Slice Block Sales Forecast*. The customers purchasing each product (Full Service, Partial Service, Slice/Block, and Block) are listed in the Load Resource Documentation, WP-07-E-BPA-01A, Section 2.2, Table 2.2.3, *Full Service Customers*, Table 2.2.4, *Partial Service Customers*, Table 2.2.5, *Slice/Slice Block Customers*,

and Table 2.2.6, *PF Block Customers*.

2.2.3 Investor-Owned Utilities Sales Forecast

BPA forecasts no power sales to regional IOUs for FY 2007 through 2009. This is based on signed contracts with the six regional IOUs. The six IOUs in the PNW region are: Avista Corporation, Idaho Power Company, NorthWestern Energy Division of NorthWestern Corporation (formerly Montana Power Company), PacifiCorp, Portland General Electric Company, and Puget Sound Energy, Inc.

All six regional IOUs signed Residential Exchange Program (REP) Settlement Agreements in the fall of 2000. In the settlement, BPA agreed to provide 2,200 aMW in benefits each year for FY 2007 through 2011 to be passed through to the IOU's residential and small farm customers. At BPA's option, these benefits to the IOUs could be either physical power or financial, as documented in the "Residential Exchange Program Settlement Agreements with Pacific Northwest Investor-Owned Utilities, Administrator's Record of Decision" dated October 4, 2000.

In the "Proposed Contracts or Amendments to Existing Contracts with the Regional Investor-Owned Utilities Regarding the Payment of Residential and Small-Farm Consumer Benefits Under the Residential Exchange Program Settlement Agreements FY 2007 through 2011" Administrator's Record of Decision dated May 25, 2004, BPA elected to provide the equivalent of 2,200 aMWs per year, as financial benefits to the IOUs during the FY 2007 through 2011 period. This amount was reduced by 3.1519 aMW to reflect the residential and small farm load annexed by the City of Hermiston from PacifiCorp's service territory. The financial benefit will be calculated based on 2,196.8481 aMW using a mark-to-market methodology. The details of the mark-to-market methodology are set forth in the Market Price Forecast Study, Petty, *et al.*,

WP-07-E-BPA-11. Generally, the methodology calculates the benefits by the difference between a market price and BPA's lowest PF rate multiplied by 2,196.8481 aMW. The level of Monetary Benefits is further limited by an annual floor and cap of \$100 million and \$300 million, respectively.

Some of the IOUs have agreed not to place additional net requirements service, in excess of requirements loads served under section 5(b) Subscription sales, on BPA at the New Resources (NR-07) rate except in accordance with the terms of the Subscription sales agreement. BPA will meet the net requirements service of IOUs without sales contracts at the NR-07 rate. BPA's forecast does not contain any NR sales to the IOUs at this time.

2.2.4 Direct Service Industry Sales Forecast

Policies adopted in BPA's Service to DSI Customers for FY 2007 through 2011, Administrator's Record of Decision published June 30, 2005, guided BPA's sales forecast. Key points in this Record of Decision are:

- 1) The Northwest Power Act permits BPA to offer contracts to meet the DSI loads, but there is no requirement that it do so;
- 2) BPA is persuaded that the Port Townsend Paper Corporation (Port Townsend) situation is unique among DSIs and will offer a 17 aMW surplus power sales contract to Port Townsend through the local utility; and
- 3) High likelihood service benefit contracts with DSI smelters will be monetized.

For purposes of this Study, DSI sales are forecasted to be 17 aMW surplus power sales each year to the local preference customer for delivery to Port Townsend during FY 2007 through 2009. This delivery is included monthly, for energy in aMW, in the Load Resource Documentation, WP-07-E-BPA-01A, Section 2.3, Tables 2.3.1 through 2.3.3, *Loads and Resources-Federal*

1 *System, (Intra-Regional Transfers (Out))*. This delivery is detailed monthly, for energy in aMW,
2 HLH MWh, and LLH MWh in the Load Resource Documentation, WP-07-E-BPA-01A,
3 Sections 2.4 through 2.6, Table A-16, *Intra-Regional Transfers (Out)* for the rate period. In
4 addition, BPA will provide benefits to the DSI aluminum smelters for up to 560 aMW through
5 the local preference customer for market purchases such that the DSI's resultant power cost is
6 not less than the PF rate.

7 8 **2.2.5 Other BPA Contract Obligations**

9 BPA provides Federal power to customers under a variety of contract arrangements not included
10 in the Public Agency, IOU, and DSI power sales contracts forecasts. The contracts are
11 categorized as: (1) power sales; (2) power or energy exchange contracts; (3) capacity sales or
12 capacity-for-energy exchange contracts; (4) power payments for services; and (5) power
13 commitments under international treaty. These arrangements are collectively called "Other
14 Contract Obligations" and each can have different rate structures. These obligations are obtained
15 from individual contracts and are estimated monthly, for energy in aMW, HLH MWh, and
16 LLH MWh. These data are provided to the Risk Analysis Study, WP-07-E-BPA-04.

17
18 All firm contract obligations are assumed served by Federal system firm resources regardless of
19 weather, water, or economic conditions. The Federal system contract obligations are
20 summarized monthly, for energy in aMW, in the Load Resource Documentation,
21 WP-07-E-BPA-01A, Section 2.3, Tables 2.3.1 through 2.3.3, *Loads and Resources-Federal*
22 *System, (Exports) and (Intra-Regional Transfers (Out))*. These contracts are detailed monthly,
23 for energy in aMW, HLH MWh, and LLH MWh in the Load Resource Documentation,
24 WP-07-E-BPA-01A, Sections 2.4 through 2.6, Table A-2, *Federal Exports* and Table A-16,
25 *Intra-Regional Transfers (Out)* for the rate period. These data are provided to the Risk Analysis
26 Study, WP-07-E-BPA-04.

1
2 In the 2002 Final Rate Case Proposal, Federal loads included Columbia Storage Power Exchange
3 (CSPE) contract deliveries to CSPE members and peaking deliveries to Supplemental and
4 Entitlement Capacity contract participants. These contracts expired March 31, 2003, and are not
5 included in this Study.
6

7 **2.3 Federal System Resource Forecast**

8

9 **2.3.1 Overview**

10 Federal system resources are comprised of Federally and non-Federally-owned regulated and
11 independent hydro projects, other non-Federally owned resources (small hydro, thermal, wind,
12 and other miscellaneous projects), and other Federal contract purchases.
13

14 The Federal system hydro resource estimates are derived from a hydro-regulation study that
15 estimates their generation under 50-water conditions using the operating provisions of the Pacific
16 Northwest Coordination Agreement (PNCA) while meeting power and non-power requirements
17 for each hydroelectric project and the system as a whole. Other Federal system generation
18 includes resource estimates provided by BPA and/or the projects owners. BPA has other
19 contract purchases that are considered Federal system resources. They are comprised of contract
20 purchases and exchanges, return energy associated with BPA's capacity contracts, return and
21 exchange energy associated with capacity-for-energy exchanges, and power commitments
22 delivered to BPA under international treaty. Detailed Federal system generating resource and
23 contract purchase estimates used in BPA's 2007 Wholesale Power Rate Case Initial Proposal are
24 shown in the Load Resource Documentation, WP-07-E-BPA-01A, Sections 2.4 through 2.6.
25 These estimates are also provided to the Risk Analysis Study, WP-07-E-BPA-04.
26

2.3.2 Federal System Hydro Generation

BPA uses a hydroregulation model (HydroSim) to estimate the energy production that can be expected from the PNW hydrosystem when operating in a coordinated fashion while meeting power and nonpower requirements for each hydroelectric project and the system as a whole. HydroSim produces monthly energy generation estimates by project, incorporating August 1928 through July 1978 water years. Due to the monthly span of an operating year² (OY), it is termed as 1929 through 1978 water years and is called the 50 water years of record. Both the Federal regulated and independent hydro resources are presented in FY format to be consistent within this Study.

For the purpose of this initial rate proposal, BPA made a hydro-regulation study for each year of the rate period. Sets of variables that characterize hydro-regulation studies include firm loads, firm resources, markets for secondary energy, and project-by-project operating requirements, which all affect the amount and timing of energy available from the hydro system. In each year of the hydro-regulation study, these variables were changed as necessary to reflect current knowledge of each operating parameter. The following details the process of producing Federal system hydro generation estimates for use in the Study.

2.3.2.1 Hydro Regulation Study

The hydro-regulation study provides the basis for the hydro system operation and generation for the Federal system on the Federal Columbia River Power System for the 50 water years of record (August 1928 through July 1978). The hydro regulation study uses hydro plant operating characteristics necessary to determine the expected energy production from a specific project, given specific operating conditions. These are physical characteristics that establish the limits

² Operating Year (OY) is the 12-month period August 1 through July 31. For example OY 2007 is August 1, 2006, through July 31, 2007.

1 within which each project must be operated. These project-specific data were taken from PNCA
2 data submittals made by the regional utilities and government agencies involved in operating
3 hydro projects.

4
5 The Federal system hydro resources, though marketed by BPA, are owned and operated by the
6 Bureau of Reclamation (Bureau) and the U.S. Army Corps of Engineers (COE). BPA also
7 markets power purchased from hydro projects owned by the City of Idaho Falls (Idaho Falls-
8 Upper Plant, City Plant, and Lower Plant), Lewis County Public Utility District (Cowlitz Falls),
9 and Mission Valley (Big Creek). Since the 2000 Final Rate Proposal, BPA's contract to
10 purchase from Energy Northwest's (ENW) Packwood Lake hydroelectric project expired
11 September 30, 2002, and is not included in the Study. This Study includes hydro improvements
12 expected from hydro optimization, turbine runner replacement, and reliability increases through
13 BPA's capital improvements programs at specific Federal regulated hydro projects. These hydro
14 improvements are estimated for each Federal regulated hydro project and the estimated
15 improvements are included its generation.

16 17 **2.3.2.2 PNCA and Fish Requirements**

18 A major feature of the hydro regulation studies is the operations described by the National
19 Oceanographic and Atmospheric Administration Fisheries (NOAA Fisheries) in their Biological
20 Opinion (BiOp), published November 2004, and the United States Fish and Wildlife Service
21 (USFWS) BiOp, published December 2000, and operations described in the Northwest Power
22 and Conservation Council's Fish and Wildlife Program. Each hydro regulation study specifies
23 hydroelectric project operations to provide for such things as seasonal flow augmentation,
24 minimum flow levels for fish, spill for juvenile fish passage, reservoir drawdown limitations, and
25 turbine operation efficiency requirements.

Hydro plant operating requirements are inputs to the hydro-regulation simulator (HydroSim) used to simulate the coordinated operation of the hydro system. As taken from PNCA data submittals, these operating requirements include, but are not limited to, storage content limits determined by rule curves, maximum project draft rates determined by each project, and flow and spill objectives determined by the BiOps. Deviations from the PNCA data submittals occur when specific operating decisions have been made subsequent to the date of submission in order to implement the BiOps. Data submittals made for 2004 are reflected in this Study.

2.3.2.3 Modified Streamflows

Modified streamflows are used to estimate power generation under historical streamflow conditions. The Actual Energy Regulation (AER) and Operational Hydro regulation studies were developed with the use of the 2000 level modified streamflows. Modified streamflows are the historic streamflow adjusted to a common level of development by correcting for the effects of irrigation and consumptive diversion demand, return flow, and changes in contents of upstream reservoirs and lakes. These modified streamflows were developed under a contract with BPA funded by the PNCA parties. Irrigation depletions are included for the 2000 level of development.

These modified streamflows are adjusted to include estimates of irrigation pumping at Grand Coulee, as projected, for the rate period. This irrigation pumping provides water to the Columbia Basin Project. The Bureau provided the pumping schedule in its 2004 PNCA data submittal. Adjustments are also made to include the return flows downstream of Grand Coulee resulting from this updated pumping schedule.

There are two modes for hydro-regulation studies: refill and continuous. Both are used to estimate the energy production of the hydro system. However, each mode is different in how it

1 treats initial reservoir conditions. Continuous hydro studies operate from one water year to
2 another, using the previous water year's final reservoir elevations as the initial reservoir
3 elevations for the next water year. Refill studies operate each water year independent of all other
4 water years, using the same initial reservoir elevations for each water year. Continuous studies
5 are typically used when there is little or no information on initial reservoir elevations such as
6 when considering operations for a future year. Hydro regulation studies used in this initial rate
7 case analysis were run in continuous mode.

8
9 The results of the hydro studies are used to provide an estimate of Federal system energy
10 generated on the hydrosystem for use in the Study and are summarized in the Load Resource
11 Documentation, WP-07-E-BPA-01A, Section 2.3, Tables 2.3.1 through 2.3.3, *Loads and*
12 *Resources-Federal System, (Regulated Hydro)* and *(Independent Hydro)*. The monthly energy,
13 in aMW, for the regulated and independent hydro projects, are detailed in the Load Resource
14 Documentation, WP-07-E-BPA-01A, Section 2.4, Table A-3, *Federal Regulated Hydro Projects*
15 and Table A-4, *Federal Independent Hydro Projects*. Only the Federal system hydro energy is
16 passed to the Risk Analysis Study, WP-07-E-BPA-04. The HLH/LLH splits for the Federal
17 system hydro are performed in the Risk Analysis Study.

18 19 **2.3.3 Other Federal System Generation**

20 Additional Federal system generation includes non-Federally-owned projects that BPA
21 purchased or was assigned the output. The expected generation from non-hydro resources are
22 summarized monthly, for energy in aMW, in the Load Resource Documentation,
23 WP-07-E-BPA-01A, Tables 2.3.1 through 2.3.3, *Loads and Resources-Federal System,*
24 *(Renewables), (Large Thermal),* and *(Non-Utility Generation)*. These resources include ENW's
25 Columbia Generating Station (CGS) nuclear plant and other contract purchases. The projected
26 output of the CGS project includes facility improvements that include a two-year refueling cycle.

1 See Load Resource Documentation, WP-07-E-BPA-01A, Sections 2.4 through 2.6, Table A-10,
2 *Federal Large Thermal*. BPA also has contracted, or is negotiating, for the output of several
3 other generation projects. These projects include small hydro (Elwah and Glines Hydro through
4 September 30, 2009, and Dworshak/Clearwater Small Hydropower), wind (shares of Foote
5 Creek 1, 2, and 4 Wind Projects; Stateline Wind project, Condon Wind Project, and Klondike
6 Phase 1 Wind Project), geothermal (100 percent of Fourmile Hill Geothermal Project beginning
7 October 1, 2008), and a small amount of solar resources (Ashland Solar Project and White Bluffs
8 Solar). See Load Resource Documentation, WP-07-E-BPA-01A, Sections 2.4.through 2.6,
9 Table A-24, *Federal Non-Utility Generating Resources by Project*. In addition, BPA has
10 contracted for the output of the James River Wauna cogeneration project. See Load Resource
11 Documentation, WP-07-E-BPA-01A, Sections 2.4.through 2.6, Table A-8, *Federal Renewable*
12 *Resources*.

14 **2.3.4 Other Federal System Contract Purchases**

15 BPA purchases power from sellers under a variety of contractual arrangements to meet Federal
16 load obligations. The contracts are categorized as: (1) power purchases; (2) power or energy
17 exchange purchases; (3) capacity sales or capacity-for-energy exchange contracts; and (4) power
18 purchased or assigned to BPA under international treaty. These arrangements are collectively
19 called “Other Contract Purchases.”

21 All firm contract purchases are assumed to be Federal system firm resources regardless of
22 weather, water, or economic conditions. BPA’s expected contract purchases are summarized
23 monthly, for energy in aMW, in the Load Resource Documentation, WP-07-E-BPA-01A,
24 Section 2.3, Tables 2.3.1 through 2.3.3, *Loads and Resources-Federal System, (Imports), (Non-*
25 *Federal Canadian Entitlement Return for Canada), and (Intra-Regional Transfers (In))*. The
26 monthly energy in aMW, HLH MWh, and LLH MWh is detailed in the Load Resource

Documentation, WP-07-E-BPA-01A, Sections 2.4 through 2.6, Table A-5, *Federal Imports*, Table A-15, *Canadian Entitlement for Canada*, and Table A-16, *Intra-Regional Transfers (In)* for the rate period. These data are provided to the Risk Analysis Study, WP-07-E-BPA-04.

In the 2002 Final Rate Case Proposal, Federal resources included power deliveries from Non-Federal Canadian Entitlement Return for CSPE contract members and peaking replacement deliveries from BPA's Supplemental and Entitlement Capacity contract participants. These contracts expired March 31, 2003, and are not included in this Study.

2.4 Federal System Load Resource Balance

2.4.1 Overview

The Federal system load resources balance and the supporting data are some of the base data used in this Study. The load resource balance compiles the monthly energy amounts of BPA's resources that include hydro, non-hydro resources, and contract purchases, less BPA's load obligations, which are comprised of BPA's power sales contract and other contract obligations. This determines BPA's monthly and annual energy load resource situation. If BPA's resources are greater than load obligations, BPA has surplus energy. Conversely, if BPA's resources are less than load obligations, then BPA will have to augment the Federal system to meet energy deficits.

2.4.2 Federal System Energy Load Resource Balance

The Federal system firm energy load resource balance estimates the firm energy surplus or deficit, under 1937 water conditions, for FY 2007 through 2009. It is summarized in Table 2.4.2.1.

Table 2.4.2.1
Loads and Resources - Federal System
Federal Firm Energy Surplus/Deficit
Under 1937 Water Conditions

Energy in aMW	2007	2008	2009
Firm Obligations	8,251	8,313	8,303
Net Total Resources	8,266	8,313	8,303
Firm Surplus/Deficit	15	0	0

The Federal system load resource balance is detailed in the Load Resource Documentation, WP-07-E-BPA-01A, Section 2.3, Tables 2.3.1 through 2.3.3, *Loads and Resources-Federal System*. Under 1937 water conditions, the Federal system is estimated to be annually surplus 15 aMW in FY 2007. For FY 2008 and 2009, the Federal system is expected to be in load resource balance assuming annual augmentation purchases of 38 aMW and 92 aMW, respectively. The augmentation purchase estimates are shown in the Load Resource Documentation, WP-07-E-BPA-01A, Section 2.3, Tables 2.3.1 through 2.3.3, *Loads and Resources-Federal System, (Augmentation Purchases)*. The detailed supporting data for the Federal system hydro resources, non-hydro resources, and contracts are shown in multiple tables in the Load Resource Documentation, WP-07-E-BPA-01A, Sections 2.4 through 2.6. The Federal load resource balance and supporting tables are used as inputs to the Risk Analysis Study, WP-07-E-BPA-04.

2.5 Regional Hydro Resources

2.5.1 Overview

To provide input for the secondary revenue analysis used in the Market Price Forecast Study, the Load Resource Study also developed the total PNW regional hydro resource stack for FY 2007 through 2009.

2.5.2 Regional 50-Water Year Hydro Generation

The Load Resource Study also developed a PNW regional hydro resource stack for FY 2007 through 2009. The total regional hydro resources include all regional regulated and independent hydro projects, plus regional NUG hydro projects. BPA estimates the regional hydro generation energy by month for each of the 50 water years of record (August 1929 through July 1978) using the hydro regulation study developed for use in this initial rate case analysis. The hydro data is then formatted in FY format to be consistent with the Study. The set of NUG hydro projects are not estimated in the hydro regulation study and do not vary by water conditions. The individual project owners provide the NUG generation estimates. The total regulated, independent, and NUG regional hydro is summarized for 50-water years for FY 2007 through 2009. The PNW total regional hydro resources are shown in the Load Resource Documentation, WP-07-E-BPA-01A, Section 2.7, Tables 2.7.1 through 2.7.3, *Total PNW Regional Hydro Resources*. These regional hydro estimates are used in the Market Power Study, WP-07-E-BPA-03A.

2.6 4(h)(10)(C) Credit

2.6.1 Overview

BPA makes expenditures to protect, mitigate, and enhance fish and wildlife affected by Federal hydro operations under the Act. These expenditures are allocated to hydro project purposes that include both power and non-power uses. Examples of non-power purposes are fish requirements, irrigation, flood control, navigation, and recreation. The Act directs BPA to recoup its funding of non-power purposes annually via 4(h)(10)(C) credits, so ratepayers only pay their power share of the fish and wildlife costs. There are three types of 4(h)(10)(C) credits:

- 1) Direct fish and wildlife program expenditures;
- 2) Capital expenditures for fish and wildlife; and
- 3) Replacement power purchase expenditures resulting from changes in hydro system operations to benefit fish and wildlife.

The non-power purpose portion of the allocation of these costs is 22.3 percent. In the rate case, projected BPA revenues from power sales are therefore increased by 22.3 percent of the estimated qualifying fish and wildlife costs.

2.6.2 Estimated Purchase Megawatts Eligible for 4(h)(10)(C) Credit

In order to estimate 4(h)(10)(C) credits, it was necessary to estimate the quantity of replacement power necessary due to changes in fish operations for each year of the rate period using two hydroregulation studies. The first hydro regulation study, termed the “With Fish” study, modeled how the river would be operated given current requirements for fish mitigation and enhancement. This operation was modeled under 50 possible runoff forecasts, indicating that the 4(h)(10)(C) credits vary dramatically based on Pacific Northwest streamflows. The second hydro regulation study modeled what river operations would be like if no changes had been made for the benefit of fish, called the “Without Fish” study. This hydro regulation study also used 50 possible streamflow scenarios. BPA receives a 4(h)(10)(C) credit for a portion of any power purchases it must make in order to implement the “With Fish” alternative as compared to the “Without Fish” alternative.

To determine power purchases for fish, it was necessary to look at BPA's surplus/deficit situation under each of these hydro studies. One fundamental principal is that 4(h)(10)(C) credits be unaffected by BPA marketing decisions. For example, the decision on the part of BPA to augment the Federal system in order to serve more load beginning in FY 2002 has no effect on the estimation of 4(h)(10)(C) credits. In order that BPA's surplus/deficit situation not be a

function of BPA marketing decisions, it was assumed that the appropriate BPA load to use in the 4(h)(10)(C) calculation was the load that could have been served with certainty under “Without Fish” operations in the worst water conditions. This is also known as the Firm Energy Load Carrying Capability (FELCC) of the hydro system. FELCC is an estimate of the generation that is guaranteed to be available from the Federal hydro system under the worst water conditions prior to changes in operations for fish. Therefore, it is also the amount of firm load that BPA would have been entitled to sell. Changes in this entitlement are the appropriate measurement of operational costs that should be available for 4(h)(10)(C) credit.

Therefore, BPA's surplus/deficit situation using FELCC as load and 50 different streamflow scenarios given the “Without Fish” hydro study was compared to the surplus/deficit situation using FELCC as load and 50 different streamflow scenarios given the “With Fish” hydro study.

This is done for each monthly period. There are six possible scenarios in each period:

- 1) “Without Fish” study is deficit and “With Fish” study is more deficit: Leads to more purchases in the “With Fish” study.
- 2) “Without Fish” study is deficit and “With Fish” study is less deficit: Leads to fewer purchases in the “With Fish” study.
- 3) “Without Fish” study is surplus and “With Fish” study is more surplus: Leads to more revenues in the “With Fish” study.
- 4) “Without Fish” study is surplus and “With Fish” study is less surplus: Leads to fewer revenues in the “With Fish” study.
- 5) “Without Fish” study is surplus and “With Fish” study is deficit: Leads to fewer revenues and more purchases in the “With Fish” study.
- 6) “Without Fish” study is deficit and “With Fish” study is surplus: Leads to fewer purchases and more revenues in the “With Fish” study.

1 All situations that lead to a change in purchases (1, 2, 5, and 6) are summed across the monthly
2 periods. The resulting change in purchases is the amount eligible for 4(h)(10)(C) credit. The
3 resulting aMW for the 50-water conditions are shown in the Load Resource Documentation,
4 WP-07-E-BPA-01A, Section 2.8, Table 2.8.1, *4(h)(10)(C) Power Purchase Amounts* and used as
5 input to the Risk Analysis Study, WP-07-E-BPA-04.

2007 Wholesale Power Rate Case Initial Proposal

LOAD RESOURCE STUDY DOCUMENTATION

November 2005

WP-07-E-BPA-01A



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LOAD RESOURCE STUDY DOCUMENTATION

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COMMONLY USED ACRONYMS

AANR	Audited Accumulated Net Revenues
AC	Alternating Current
AER	Actual Energy Regulation
Affiliated Tribes	Affiliated Tribes of Northwest Indians
AFDUC	Allowance for Funds Used During Construction
AGC	Automatic Generation Control
aMW	Average Megawatt
Alcoa	Alcoa Inc.
AMNR	Accumulated Modified Net Revenues
ANR	Accumulated Net Revenues
ANRT	Accumulated Net Revenue Threshold
AOP	Assured Operating Plan
APS	Ancillary Products and Services (rate)
ASC	Average System Cost
Avista	Avista Corporation, Water Power Division
BASC	BPA Average System Cost
BiOp	Biological Opinion
BOR	Bureau of Reclamation
BPA	Bonneville Power Administration
BP EIS	Business Plan Environmental Impact Statement
Btu	British thermal unit
C&R Discount	Conservation and Renewables Discount
C&R	Cost and Revenue
CalPX	California Power Exchange
CAISO	California Independent System Operator
CBFWA	Columbia Basin Fish & Wildlife Authority
CBP	Columbia Basin Project
CCCT	Combined-Cycle Combustion Turbine
CEC	California Energy Commission
CFAC	Columbia Falls Aluminum Company
Cfs	Cubic feet per second
COB	California-Oregon Border
COE	U.S. Army Corps of Engineers
ConMod	Conservation Modernization Program
COSA	Cost of Service Analysis
Council	Northwest Power Planning and Conservation Council
CP	Coincidental Peak
CRAC	Cost Recovery Adjustment Clause
CRC	Conservation Rate Credit
CRITFC	Columbia River Inter-Tribal Fish Commission
CSP	Customer System Peak
CSPE	Columbia Storage Power Exchange
CT	Combustion Turbine
CWA	Clear Water Act

CY	Calendar Year (Jan-Dec)
DC	Direct Current
DDC	Dividend Distribution Clause
DJ	Dow Jones
DMP	Data Management Procedures
DO	Debt Optimization
DOE	Department of Energy
DROD	Draft Record of Decision
DSIs	Direct Service Industrial Customers
DSR	Debt Service Reassignment
ECC	Energy Content Curve
EFB	Excess Federal Power
EIA	Energy Information Administration
EIS	Environmental Impact Statement
EN	Energy Northwest, Inc.
Energy Northwest, Inc.	Formerly Washington Public Power Supply System (Nuclear)
Energy Services	Energy Services, Inc.
EPA	Environmental Protection Agency
EPP	Environmentally Preferred Power
ESA	Endangered Species Act
EWEB	Eugene Water & Electric Board
F&O	Financial and Operating Reports
FBPF	Forward Flat-Block Price Forecast
FBS	Federal Base System
FCCF	Fish Cost Contingency Fund
FCRPS	Federal Columbia River Power System
FCRTS	Federal Columbia River Transmission System
FERC	Federal Energy Regulatory Commission
FELCC	Firm Energy Load Carrying Capability
Fifth Power Plan	Council's Fifth Northwest Conservation and Electric Power Plan
FPA	Federal Power Act
FPS	Firm Power Products and Services (rate)
FSEA	Federal Secondary Energy Analysis
F&WCA	Fish and Wildlife Coordination Act
FY	Fiscal Year (Oct-Sep)
GAAP	Generally Accepted Accounting Principles
GCPs	General Contract Provisions
GEP	Green Energy Premium
GI	Generation Integration
GRI	Gas Research Institute
GRSPs	General Rate Schedule Provisions
GSP	Generation System Peak
GSU	Generator Step-Up Transformers
GTA	General Transfer Agreement
GWh	Gigawatthour

HELM	Hourly Electric Load Model
HLFG	High Load Factor Group
HLH	Heavy Load Hour
HOSS	Hourly Operating and Scheduling Simulator
ICNU	Industrial Customers of Northwest Utilities
ICUA	Idaho Consumer-Owned Utilities Association, Inc.
IOU REP Settlement benefits	Investor-Owned Utilities Residential Exchange Program Settlement benefits
IOUs	Investor-Owned Utilities of the Pacific Northwest
IP	Industrial Firm Power (rate)
IP TAC	Industrial Firm Power Targeted Adjustment Charge
IPC	Idaho Power Company
ISC	Investment Service Coverage
ISO	Independent System Operator
KAF	Thousand Acre Feet
kcfs	kilo (thousands) of cubic feet per second
K/I	Kilowatt-hour/Investment Ratio for Low Density Discount
ksfd	thousand second foot day
kV	Kilovolt (1000 volts)
kW	Kilowatt (1000 watts)
kWh	Kilowatt-hour
LB CRAC	Load-Based Cost Recovery Adjustment Clause
LCP	Least-Cost Plan
LDD	Low Density Discount
LLH	Light Load Hour
LOLP	Loss of Load Probability
LRSCP	Lower Snake River Compensation Plan
m/kWh	Mills per kilowatt-hour
MAC	Market Access Coalition Group
MAF	Million Acre Feet
MC	Marginal Cost
MCA	Marginal Cost Analysis
MCS	Model Conservation Standards
M/M	Meters/Miles-of-Line Ratio for Low Density Discount
Mid-C	Mid-Columbia
MIMA	Market Index Monthly Adjustment
MIP	Minimum Irrigation Pool
MMBTU	Million British Thermal Units
MNR	Modified Net Revenues
MOA	Memorandum of Agreement
MOP	Minimum Operating Pool
MORC	Minimum Operating Reliability Criteria
MT	Market Transmission (rate)
MW	Megawatt (1 million watts)
MWh	Megawatt-hour
NCD	Non-coincidental Demand

NEC	Northwest Energy Coalition
NEPA	National Environmental Policy Act
NERC	North American Electric Reliability Council
NEW	Northwestern Energy
NF	Nonfirm Energy (rate)
NFB Adjustment	National Marine Fisheries Service (NMFS) Federal Columbia River Power System (FCRPS) Biological Opinion (BiOp) Adjustment
NLSL	New Large Single Load
NMFS	National Marine Fisheries Service
NOAA Fisheries	National Oceanographic and Atmospheric Administration Fisheries
NOB	Nevada-Oregon Border
NORM	Non-Operating Risk Model
Northwest Power Act	Pacific Northwest Electric Power Planning and Conservation Act
NPV	Net Present Value
NR	New Resource Firm Power (rate)
NRU	Northwest Requirements Utilities
NT	Network Transmission
NTP	Network Integration Transmission (rate)
NTSA	Non-Treaty Storage Agreement
NUG	Non-Utility Generation
NWPP	Northwest Power Pool
NWPPC	Northwest Power Planning Council
NWPPC C&R	Northwest Power Planning Council Cost and Revenues Analysis
O&M	Operation and Maintenance
OMB	Office of Management and Budget
OPUC	Oregon Public Utility Commission
OURCA	Oregon Utility Resource Coordination Association
ORC	Operating Reserves Credit
OY	Operating Year (Aug-Jul)
PA	Public Agency
PacifiCorp	PacifiCorp
PATH	Plan for Analyzing and Testing Hypotheses
PBL	Power Business Line
PDP	Proportional Draft Points
PDR	Power Discharge Requirement
PF	Priority Firm Power (rate)
PFBC	Pressurized Fluidized Bed Combustion
PFR	Power Function Review
PGE	Portland General Electric Company
PGP	Public Generating Pool
PMA	Power Marketing Agencies
PNCA	Pacific Northwest Coordination Agreement

PNGC	Pacific Northwest Generating Cooperative
PNRR	Planned Net Revenues for Risk
PNW	Pacific Northwest
POD	Point of Delivery
POI	Point of Integration/Point of Interconnection
POM	Point of Metering
PPC	Public Power Council
PPLM	PP&L Montana, LLC
Project Act	Bonneville Project Act
PSA	Power Sales Agreement
PSC	Power Sales Contract
PSE	Puget Sound Energy
PSW	Pacific Southwest
PTP	Point-to-Point
PUD	Public or People's Utility District
RAM	Rate Analysis Model (computer model)
RAS	Remedial Action Scheme
Reclamation	Bureau of Reclamation
Renewable Northwest	Renewable Northwest Project
RD	Regional Dialogue
REP	Residential Exchange Program
RFA	Revenue Forecast Application
RFP	Request for Proposal
RiskMod	Risk Analysis Model (computer model)
RiskSim	Risk Simulation Model
RL	Residential Load (rate)
RMS	Remote Metering System
ROD	Record of Decision
RPSA	Residential Purchase and Sale Agreement
RTF	Regional Technical Forum
RTO	Regional Transmission Operator
SCCT	Single-Cycle Combustion Turbine
SCRA	Supplemental Contingency Reserve Adjustment
Shoshone-Bannock	Shoshone-Bannock Tribes
SOS	Save Our Wild Salmon
Slice	Slice of the System product
STREAM	Short-Term Risk Evaluation and Analysis Model
SUB	Springfield Utility Board
SUMY	Stepped-Up Multiyear
SWPA	Southwestern Power Administration
TAC	Targeted Adjustment Charge
TBL	Transmission Business Line
tcf	Trillion Cubic Feet
TCH	Transmission Contract Holder
TDG	Total Dissolved Gas
TPP	Treasury Payment Probability

Transmission System Act
TRL
UAI Charge
UAMPS
UCUT
UDC
UP&L
URC
USBR
USFWS
VOR
WAPA
WECC
WPAG
WPRDS
WSPP
WUTC
WY
Yakama

Federal Columbia River Transmission System Act
Total Retail Load
Unauthorized Increase Charge
Utah Associated Municipal Power Systems
Upper Columbia United Tribes
Utility Distribution Company
Utah Power & Light
Upper Rule Curve
U.S. Bureau of Reclamation
U.S. Fish and Wildlife Service
Value of Reserves
Western Area Power Administration
Western Electricity Coordinating Council
Western Public Agencies Group
Wholesale Power Rate Development Study
Western Systems Power Pool
Washington Utilities and Transportation Commission
Watt-Year
Confederated Tribes and Bands of the Yakama Nation

1. LOAD RESOURCE STUDY OVERVIEW

The Load Resource Documentation presents the load, sales, contract, and resource data necessary for developing BPA wholesale power rates used in the Load Resource Study, WP-07-E-BPA-01. This data is used to:

- (1) Provide base data to determine resource costs for the Revenue Recovery Study, WP-07-E-BPA-02;
- (2) Provide regional hydro data for use in the secondary revenue forecast for the Market Power Study, WP-07-E-BPA-03;
- (3) Provide base data to derive billing determinants for the revenue forecast in the Wholesale Power Rate Development Study (WPRDS), WP-07-E-BPA-05; and
- (4) Provide load and resource data for use in calculating risk in the Risk Analysis Study, WP-07-E-BPA-04.

2. DOCUMENTATION FOR THE LOAD RESOURCE STUDY

2.1 Federal System Load Obligations

Bonneville Power Administration (BPA) forecasts power sales contracts to three main customer groups: public body and cooperative utilities and Federal agencies (Public Agencies), investor-owned utilities (IOU), and direct service industrial customers (DSI). These power sales contract forecasts, together with additional inter-regional contracts obligations, termed imports, and intra-regional contractual obligations, constitute the Federal system firm load forecast used in BPA's 2007 Wholesale Power Rate Case Initial Proposal Load Resource Study, WP-07-E-BPA-01A. The following tables document the resulting tables methodologies and assumptions employed in developing BPA's sales forecasts are detailed in the following sections of this Documentation.

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2.2 Public Agencies Sales Obligation Forecast

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Table 2.2.1
PF Full and Partial Service Sales Forecast

FY	Full Service			Partial Service			Load Variance
	HLH (aMW)	LLH (aMW)	GSP (MW)	HLH (aMW)	LLH (aMW)	GSP (MW)	
FY2007	1,167	759	3,112	598	430	1,404	3,719
FY2008	1,197	778	3,195	606	434	1,427	3,772
FY2009	1,224	796	3,256	614	439	1,440	3,827

Month	HLH (MWh)	LLH (MWh)	GSP (MW)	HLH (MWh)	LLH (MWh)	GSP (MW)	Load Variance
Oct-06	847,063	521,047	2,556	431,666	295,040	1,315	2,545,596
Nov-06	901,788	607,517	2,733	444,943	330,075	1,305	2,756,746
Dec-06	1,032,214	708,458	2,861	473,597	354,947	1,322	3,089,693
Jan-07	1,063,344	698,544	3,112	499,085	355,433	1,404	3,146,799
Feb-07	921,509	605,264	2,990	440,127	329,806	1,383	2,763,211
Mar-07	918,562	588,913	2,587	458,653	339,657	1,298	2,776,749
Apr-07	829,921	534,724	2,334	430,170	301,050	1,204	2,541,536
May-07	740,128	492,429	2,047	416,642	299,565	1,109	2,592,764
Jun-07	703,225	443,605	2,157	393,944	288,366	1,044	2,560,277
Jul-07	729,275	477,036	2,301	427,816	291,941	1,132	2,714,984
Aug-07	760,434	462,144	2,206	411,746	287,832	1,111	2,660,576
Sep-07	774,283	513,226	2,060	410,169	291,196	1,091	2,425,660
Oct-07	874,835	528,703	2,622	438,176	299,046	1,336	2,589,249
Nov-07	925,727	624,008	2,805	452,051	334,103	1,326	2,803,986
Dec-07	1,059,687	727,530	2,937	481,082	359,150	1,343	3,143,633
Jan-08	1,091,702	717,652	3,195	506,990	359,716	1,427	3,200,551
Feb-08	952,369	623,712	3,066	446,448	333,911	1,405	2,829,633
Mar-08	935,549	611,559	2,655	466,676	343,018	1,319	2,820,824
Apr-08	857,437	542,101	2,396	436,517	305,202	1,224	2,583,843
May-08	761,140	506,325	2,101	423,563	303,127	1,129	2,633,311
Jun-08	720,084	462,014	2,217	401,211	291,087	1,063	2,598,526
Jul-08	758,268	486,830	2,368	434,568	295,719	1,151	2,760,191
Aug-08	779,097	481,182	2,269	419,398	290,385	1,130	2,702,112
Sep-08	800,123	520,633	2,118	416,631	294,977	1,111	2,465,319
Oct-08	891,397	539,330	2,671	442,396	301,982	1,349	2,618,894
Nov-08	935,404	644,639	2,859	456,826	336,943	1,339	2,834,822
Dec-08	1,088,796	733,247	2,993	485,142	363,080	1,356	3,182,517
Jan-09	1,112,781	732,482	3,256	511,814	363,258	1,440	3,243,039
Feb-09	964,648	634,114	3,130	451,308	336,963	1,418	2,847,501
Mar-09	953,701	624,005	2,706	471,087	346,352	1,331	2,856,759
Apr-09	873,815	553,002	2,443	440,658	308,161	1,236	2,615,293
May-09	771,277	523,838	2,143	428,171	305,631	1,140	2,663,475
Jun-09	742,045	467,809	2,262	404,462	294,607	1,073	2,632,588
Jul-09	776,184	498,887	2,417	438,810	298,636	1,162	2,795,316
Aug-09	797,128	492,506	2,316	423,488	293,225	1,141	2,736,603
Sep-09	815,563	531,303	2,161	420,685	297,892	1,122	2,497,489

Table 2.2.2
PF Block/Slice Block Sales Forecast

FY	Block			Slice Block			Load Variance
	HLH (aMW)	LLH (aMW)	GSP (MW)	HLH (aMW)	LLH (aMW)	GSP (MW)	
FY2007	622	389	1,513	673	536	1,579	0
FY2008	622	388	1,511	675	534	1,579	0
FY2009	623	388	1,490	675	534	1,579	0

Month	HLH (MWh)	LLH (MWh)	GSP (MW)	HLH (MWh)	LLH (MWh)	GSP (MW)	Load Variance
Oct-06	384,800	231,287	1,033	517,088	408,947	1,243	0
Nov-06	455,600	296,992	1,268	554,800	443,840	1,387	0
Dec-06	558,400	359,192	1,513	618,600	530,136	1,544	0
Jan-07	539,552	364,264	1,458	655,755	519,021	1,579	0
Feb-07	500,736	302,976	1,437	588,672	441,504	1,533	0
Mar-07	516,240	306,384	1,347	604,368	436,488	1,399	0
Apr-07	468,800	277,530	1,268	459,992	366,969	1,150	0
May-07	497,120	344,224	1,310	334,178	270,329	922	0
Jun-07	406,848	238,944	1,022	326,618	249,178	966	0
Jul-07	389,200	257,304	1,006	313,951	286,996	994	0
Aug-07	376,704	211,536	908	436,010	323,914	1,169	0
Sep-07	356,736	215,504	983	481,812	420,348	1,253	0
Oct-07	387,248	228,967	1,017	536,224	389,811	1,243	0
Nov-07	455,600	296,992	1,265	554,800	443,840	1,387	0
Dec-07	558,400	359,520	1,511	618,600	530,136	1,544	0
Jan-08	539,552	364,264	1,452	655,755	519,021	1,579	0
Feb-08	511,008	308,912	1,434	612,096	454,032	1,533	0
Mar-08	513,808	308,656	1,344	582,928	457,928	1,399	0
Apr-08	472,064	273,941	1,246	477,504	349,457	1,150	0
May-08	497,120	344,224	1,308	334,178	270,329	922	0
Jun-08	402,448	243,440	1,036	311,946	263,850	966	0
Jul-08	393,413	253,075	990	329,007	271,940	994	0
Aug-08	374,032	214,424	921	418,074	341,850	1,169	0
Sep-08	360,246	211,898	967	501,200	400,960	1,253	0
Oct-08	387,248	228,967	1,017	536,224	389,811	1,243	0
Nov-08	452,198	300,554	1,283	533,499	465,141	1,387	0
Dec-08	561,816	355,944	1,490	642,304	506,432	1,544	0
Jan-09	539,552	364,264	1,455	655,755	519,021	1,579	0
Feb-09	500,736	302,976	1,437	588,129	443,415	1,532	0
Mar-09	513,808	308,656	1,347	582,928	457,928	1,399	0
Apr-09	472,064	273,941	1,246	477,504	349,457	1,150	0
May-09	492,092	348,860	1,324	320,330	284,178	922	0
Jun-09	406,848	238,944	1,021	326,618	249,178	966	0
Jul-09	393,413	253,075	990	329,007	271,940	994	0
Aug-09	374,032	214,424	921	418,074	341,850	1,169	0
Sep-09	360,246	211,898	967	501,200	400,960	1,253	0

Table 2.2.3
Full Service Customers

Albion, City of	Fairchild AFB	Peninsula Light Company
Alder Mutual	Farmers Elec Coop	Plummer, City of
Ashland, City of	Ferry County PUD #1	Port Angeles, City of
Asotin County PUD #1	Forest Grove, City of	Port of Seattle
Bandon, City of	Harney Elec Coop	Puget Sound Naval Shipyard (Bremerton)
Benton REA	Hermiston, City of	Richland, City of
Big Bend Elec Coop	Heyburn, City of	Riverside Elec Coop
Blaine, City of	Hood River Elec Coop	Rupert, City of
Bonniers Ferry, City of	Idaho County L & P	Salem Elec Coop
Burley, City of	Inland P & L	Skamania County PUD #1
Canby, City of	Kittitas County PUD #1	Soda Springs, City of
Cascade Locks, City of	Kootenai Electric Coop	Southern MT G&T
Central MT Elec Power Coop	Lakeview L & P (WA)	Southside Elec Lines
Centralia, City of	Lewis County PUD #1	Steilacoom, Town of
Cheney, City of	Lower Valley P & L	Sumas, Town of
Chewelah, City of	Mason County PUD #1	Surprise Valley Elec Coop
Clallam County PUD #1	Mason County PUD #3	Tanner Elec Coop
Columbia Basin Elec Coop	McCleary, City of	Tillamook PUD #1
Columbia Power Coop	Midstate Elec Coop	U.S. Bureau of Mines
Columbia REA	Milton Freewater, City of	U.S. Naval Station, Everett (Jim Creek)
Columbia River PUD	Milton, Town of	U.S. Naval Submarine Base, (Bangor)
Consol Irrig Dist #19	Minidoka, City of	Umpqua Indian Utility Cooperative
Coulee Dam, City of	Modern Elec Coop	United Electric Coop
Declo, City of	Monmouth, City of	USBIA Wapato
Drain, City of	Nespelem Valley Elec Coop	USDOE-Richland
East End Mutual Electric	Northern Wasco County PUD	Vera Irrigation District
Eatonville, City of	Ohop Mutual Light Company	Wahkiakum County PUD #1
Ellensburg, City of	Orcas P & L	Wasco Elec Coop
Elmhurst Mutual P & L	Oregon Trail Coop	Whatcom County PUD #1
Emerald County PUD	Pacific County PUD #2	Yakama Power
Energy Northwest	Parkland L & W	

Table 2.2.4
Partial Service Customers

Central Lincoln	Klickitat	Springfield
Cowlitz	McMinnville	Well
Flathead		

Table 2.2.5
Slice/Slice Block Service Customers

Benton PUD	Fall River	Okanogan PUD
Blachly-Lane	Franklin	Pend Oreille
Central Electric	Grays Harbor	Raft River
Clatskanie	Idaho Falls	Salmon River
Clearwater	Lane Electric	Seattle
Consumers Power	Lost River	Snohomish
Coos-Curry	Northern Lights	Umatilla
Douglas Electric	Okanogan Coop	West Oregon
EWEB		

Table 2.2.6
PF Block Service Customers

Clark	Grant	Tacoma
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ENERGY ANALYSIS

**2.3 Federal System Load Resource Balance-Energy Analysis
Monthly Energy in Average Megawatts**

Table 2.3.1 FY 2007 Loads and Resources-Federal System10
Table 2.3.2 FY 2008 Loads and Resources-Federal System11
Table 2.3.3 FY 2009 Loads and Resources-Federal System12

Table 2.3.1
Loads and Resources - Federal System
PNW Loads and Resource Study
2006 - 2007 Fiscal Years
1937 Water Year
[30] 2007 Initial Rate Case

09/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Non-Utility Obligations															
<i>Federal Agencies 2002 PSC Sale</i>	114	132	143	146	140	129	115	114	110	112	122	123	123	111	125
<i>USBR 2002 PSC Sale</i>	129	0	0	0	1	20	248	311	263	299	331	314	280	171	149
<i>DSI 2002 PSC Sale</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Total Firm Non-Utility Obligations</i>	243	132	143	146	141	149	362	425	374	411	453	437	403	283	274
Transfers Out															
<i>NGP 2002 PSC Sale</i>	2,642	2,982	3,322	3,374	3,268	2,923	2,755	2,747	2,736	2,838	2,961	2,881	2,881	2,627	2,942
<i>GPU 2002 PSC Sale</i>	2,223	2,607	2,895	2,923	2,866	2,668	2,329	2,322	2,142	1,884	1,854	1,959	1,959	2,165	2,376
<i>NGP Slice Sale</i>	584	655	653	510	519	547	546	513	625	739	751	617	590	543	605
<i>GPU Slice Sale</i>	972	1,091	1,088	849	865	911	909	855	1,040	1,231	1,251	1,027	982	905	1,007
<i>IOU 2002 PSC Sale</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Exports</i>	643	639	653	650	647	637	648	649	682	685	682	675	675	666	659
<i>Intra-Regional Transfers (Out)</i>	308	609	622	619	564	411	380	378	184	244	243	214	214	253	387
<i>Federal Diversity</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Total Transfers Out</i>	7,371	8,584	9,233	8,926	8,728	8,097	7,567	7,465	7,409	7,621	7,744	7,372	7,301	7,160	7,977
<i>Total Firm Obligations</i>	7,614	8,716	9,376	9,071	8,869	8,246	7,929	7,890	7,782	8,033	8,197	7,808	7,704	7,442	8,251
Hydro Resources															
<i>Regulated Hydro</i>	6,115	6,918	6,962	5,289	5,396	5,649	5,724	5,309	7,064	8,644	8,288	6,689	6,322	5,648	6,500
<i>Independent Hydro</i>	361	292	224	163	172	250	409	492	688	723	429	376	380	386	376
<i>Operational Peaking Adjustment</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Non-Fed CER (Canada)</i>	136	136	136	136	136	136	132	132	132	132	132	132	132	132	134
<i>Total Hydro Resources</i>	6,611	7,346	7,321	5,588	5,703	6,035	6,264	5,933	7,884	9,499	8,849	7,196	6,834	6,166	7,010
Other Resources															
<i>Small Thermal & Misc.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Combustion Turbines</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Renewables</i>	28	29	31	32	31	31	30	30	27	27	27	27	27	27	29
<i>Cogeneration</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Imports</i>	250	318	377	300	255	224	227	187	102	123	154	134	134	165	217
<i>Intra-Regional Transfers (In)</i>	591	637	571	221	209	187	183	183	177	184	169	194	194	227	296
<i>Large Thermal</i>	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	355	167	1,000	1,000	1,000	1,000	877
<i>Non-Utility Generation</i>	62	79	80	76	70	97	100	100	95	81	68	71	69	53	78
<i>Augmentation Purchases</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Augmentation Resources</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Total Other Resources</i>	1,930	2,063	2,059	1,629	1,565	1,539	1,541	1,500	756	582	1,417	1,426	1,424	1,472	1,497
<i>Total Resources</i>	8,541	9,409	9,380	7,217	7,269	7,574	7,804	7,433	8,639	10,080	10,266	8,622	8,259	7,639	8,506
Reserves & Maintenance															
<i>Hydro Reserves</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Small Thermal & Misc. Reserves</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Contract Reserves</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Large Thermal Reserves</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Federal Hydro Maintenance</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Spinning Reserves</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Federal Transmission Losses</i>	-241	-265	-265	-204	-205	-214	-220	-210	-244	-284	-290	-243	-233	-215	-240
<i>Total Reserves, Maintenance & Losses</i>	-241	-265	-265	-204	-205	-214	-220	-210	-244	-284	-290	-243	-233	-215	-240
<i>Total Net Resources</i>	8,300	9,144	9,116	7,014	7,064	7,360	7,584	7,224	8,396	9,796	9,977	8,379	8,026	7,423	8,266
<i>Total Firm Surplus/Deficit</i>	686	428	-260	-2,057	-1,805	-886	-344	-666	614	1,764	1,780	571	322	-19	15

Table 2.3.2
Loads and Resources - Federal System
PNW Loads and Resource Study
2007 - 2008 Fiscal Years
1937 Water Year
[30] 2007 Initial Rate Case

09/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Non-Utility Obligations															
<i>Federal Agencies 2002 PSC Sale</i>	120	138	150	152	147	135	120	120	116	117	127	129	129	116	131
<i>USBR 2002 PSC Sale</i>	129	0	0	0	1	20	248	311	263	299	331	314	280	171	149
<i>DSI 2002 PSC Sale</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Total Firm Non-Utility Obligations</i>	249	138	150	153	148	155	367	430	379	416	459	442	408	288	280
Transfers Out															
<i>NGP 2002 PSC Sale</i>	2,680	3,029	3,373	3,426	3,283	2,966	2,794	2,787	2,774	2,877	3,004	2,922	2,922	2,663	2,982
<i>GPU 2002 PSC Sale</i>	2,225	2,608	2,895	2,923	2,828	2,668	2,330	2,323	2,144	1,887	1,857	1,961	1,961	2,167	2,374
<i>NGP Slice Sale</i>	585	657	655	511	520	549	553	522	695	826	704	622	595	545	616
<i>GPU Slice Sale</i>	974	1,094	1,090	851	867	913	920	869	1,157	1,376	1,172	1,036	990	908	1,026
<i>IOU 2002 PSC Sale</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Exports</i>	641	636	651	648	646	633	646	638	666	666	665	644	642	638	648
<i>Intra-Regional Transfers (Out)</i>	308	609	622	619	557	411	379	379	184	244	243	214	214	253	387
<i>Federal Diversity</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Total Transfers Out</i>	7,413	8,632	9,285	8,978	8,700	8,141	7,622	7,517	7,620	7,877	7,645	7,398	7,324	7,174	8,033
<i>Total Firm Obligations</i>	7,661	8,770	9,435	9,131	8,848	8,296	7,989	7,948	7,998	8,293	8,104	7,840	7,732	7,462	8,313
Hydro Resources															
<i>Regulated Hydro</i>	6,130	6,934	6,977	5,303	5,409	5,664	5,802	5,407	7,268	8,861	7,706	6,738	6,368	5,652	6,505
<i>Independent Hydro</i>	361	292	224	163	172	250	409	492	688	723	429	376	380	386	376
<i>Operational Peaking Adjustment</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Non-Fed CER (Canada)</i>	132	132	132	132	132	132	130	130	130	130	130	130	130	130	131
<i>Total Hydro Resources</i>	6,622	7,358	7,333	5,598	5,712	6,046	6,341	6,030	8,086	9,714	8,265	7,244	6,878	6,168	7,012
Other Resources															
<i>Small Thermal & Misc.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Combustion Turbines</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Renewables</i>	28	29	31	32	31	31	30	30	27	27	27	27	27	27	29
<i>Cogeneration</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Imports</i>	200	268	326	299	254	225	225	173	83	101	132	109	111	145	195
<i>Intra-Regional Transfers (In)</i>	216	262	197	221	202	187	183	183	177	184	169	194	194	227	202
<i>Large Thermal</i>	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
<i>Non-Utility Generation</i>	62	79	80	76	70	97	100	100	95	81	68	71	69	53	77
<i>Augmentation Purchases</i>	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
<i>Augmentation Resources</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Total Other Resources</i>	1,544	1,676	1,673	1,667	1,596	1,578	1,576	1,524	1,420	1,431	1,434	1,439	1,440	1,490	1,542
<i>Total Resources</i>	8,166	9,034	9,006	7,265	7,308	7,624	7,917	7,554	9,506	11,145	9,699	8,683	8,318	7,658	8,554
Reserves & Maintenance															
<i>Hydro Reserves</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Small Thermal & Misc. Reserves</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Contract Reserves</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Large Thermal Reserves</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Federal Hydro Maintenance</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Spinning Reserves</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Federal Transmission Losses</i>	-230	-255	-254	-205	-206	-215	-223	-213	-268	-314	-274	-245	-235	-216	-241
<i>Total Reserves, Maintenance & Losses</i>	-230	-255	-254	-205	-206	-215	-223	-213	-268	-314	-274	-245	-235	-216	-241
<i>Total Net Resources</i>	7,936	8,779	8,752	7,060	7,102	7,409	7,694	7,341	9,238	10,831	9,426	8,438	8,083	7,442	8,313
<i>Total Firm Surplus/Deficit</i>	275	9	-683	-2,071	-1,746	-887	-295	-607	1,239	2,538	1,322	598	351	-19	0

Table 2.3.3
Loads and Resources - Federal System
PNW Loads and Resource Study
2008 - 2009 Fiscal Years
1937 Water Year
[30] 2007 Initial Rate Case

09/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Non-Utility Obligations															
<i>Federal Agencies 2002 PSC Sale</i>	130	150	163	165	159	146	130	129	125	126	137	139	139	126	141
<i>USBR 2002 PSC Sale</i>	129	0	0	0	1	20	248	311	263	299	331	314	280	171	149
<i>DSI 2002 PSC Sale</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Total Firm Non-Utility Obligations</i>	259	150	163	166	160	166	377	440	388	426	469	452	418	297	291
Transfers Out															
<i>NGP 2002 PSC Sale</i>	2,702	3,053	3,401	3,455	3,347	2,991	2,817	2,809	2,796	2,900	3,027	2,945	2,945	2,685	3,010
<i>GPU 2002 PSC Sale</i>	2,223	2,605	2,891	2,919	2,862	2,665	2,328	2,321	2,142	1,886	1,857	1,960	1,960	2,166	2,375
<i>NGP Slice Sale</i>	591	663	660	517	526	554	560	532	652	769	714	620	592	542	612
<i>GPU Slice Sale</i>	984	1,103	1,100	861	876	923	933	885	1,086	1,281	1,189	1,032	986	903	1,019
<i>IOU 2002 PSC Sale</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Exports</i>	578	572	581	579	578	571	590	590	618	619	613	712	712	709	610
<i>Intra-Regional Transfers (Out)</i>	308	609	622	619	564	411	379	379	184	244	243	214	214	253	387
<i>Federal Diversity</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Total Transfers Out</i>	7,385	8,605	9,255	8,950	8,753	8,115	7,607	7,516	7,478	7,700	7,645	7,482	7,409	7,258	8,013
<i>Total Firm Obligations</i>	7,643	8,755	9,418	9,116	8,913	8,281	7,985	7,956	7,866	8,126	8,113	7,934	7,828	7,555	8,303
Hydro Resources															
<i>Regulated Hydro</i>	6,134	6,939	6,983	5,307	5,413	5,668	5,821	5,451	7,320	8,924	7,759	6,754	6,381	5,661	6,526
<i>Independent Hydro</i>	361	292	224	163	172	250	409	492	688	723	429	376	380	386	376
<i>Operational Peaking Adjustment</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Non-Fed CER (Canada)</i>	130	130	130	130	130	130	137	137	137	137	137	137	137	137	133
<i>Total Hydro Resources</i>	6,625	7,362	7,337	5,600	5,714	6,048	6,366	6,080	8,145	9,784	8,325	7,267	6,898	6,184	7,036
Other Resources															
<i>Small Thermal & Misc.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Combustion Turbines</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Renewables</i>	28	29	31	32	31	31	30	30	27	27	27	27	27	27	29
<i>Cogeneration</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Imports</i>	182	251	304	278	233	204	203	173	83	101	132	109	111	145	184
<i>Intra-Regional Transfers (In)</i>	216	262	197	221	209	187	183	183	177	179	159	184	184	217	199
<i>Large Thermal</i>	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	355	167	1,000	1,000	1,000	1,000	877
<i>Non-Utility Generation</i>	112	129	130	126	120	147	150	150	145	130	117	121	119	103	127
<i>Augmentation Purchases</i>	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92
<i>Augmentation Resources</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Total Other Resources</i>	1,629	1,762	1,754	1,749	1,685	1,660	1,658	1,628	877	696	1,527	1,532	1,533	1,584	1,508
<i>Total Resources</i>	8,254	9,124	9,091	7,349	7,400	7,708	8,024	7,708	9,023	10,480	9,852	8,799	8,431	7,767	8,544
Reserves & Maintenance															
<i>Hydro Reserves</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Small Thermal & Misc. Reserves</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Contract Reserves</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Large Thermal Reserves</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Federal Hydro Maintenance</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Spinning Reserves</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Federal Transmission Losses</i>	-233	-257	-256	-207	-209	-217	-226	-217	-254	-296	-278	-248	-238	-219	-241
<i>Total Reserves, Maintenance & Losses</i>	-233	-257	-256	-207	-209	-217	-226	-217	-254	-296	-278	-248	-238	-219	-241
<i>Total Net Resources</i>	8,021	8,867	8,835	7,142	7,191	7,491	7,798	7,490	8,768	10,185	9,574	8,551	8,193	7,548	8,303
<i>Total Firm Surplus/Deficit</i>	378	112	-584	-1,974	-1,722	-790	-187	-465	903	2,059	1,461	616	366	-6	0

ENERGY ANALYSIS

2.4 **Federal Load Resource Study-Energy Analysis**
Monthly Energy in Average Megawatts
For FY 2007 through 2009

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**Table A-2: Federal Exports
PNW Loads and Resource Study
2006 - 2007 Fiscal Years
[30] 2007 Initial Rate Case**

9/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Exports East of Continental Divide															
1 BPA to Other Entities	80	90	105	101	99	88	70	70	70	70	81	78	78	72	84
2 Total Exports to ECD	80	90	105	101	99	88	70	70	70	70	81	78	78	72	84
Exports to Pacific Southwest															
3 BPA to BURB C/N/X	4	3	3	3	3	3	3	3	4	5	5	5	5	5	4
4 BPA to GLEN C/N/X	4	3	3	3	3	3	3	3	5	6	6	6	6	6	4
5 BPA to PASA C/N/X	3	2	2	2	2	2	2	2	3	4	3	4	4	3	3
6 BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	4	4	4	4	1
7 BPA to PASA S/N/X	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0
8 BPA to RVSD CapS	0	5	5	5	5	5	4	5	7	0	0	0	0	0	3
9 BPA to RVSD C/N/X	7	0	0	0	0	0	0	0	0	7	7	7	7	6	3
10 BPA to RVSD C/N/X	11	3	3	3	3	3	3	3	0	0	11	11	11	10	5
11 BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	26	26	0	0	0	0	4
12 BPA NW-SW Intertie Losses	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1
13 Total Exports To PSW	29	16	15	16	15	16	14	16	48	51	38	39	39	36	28
Exports to Inland Southwest															
14 BPA to SPP PwrS	45	45	45	45	45	45	75	75	75	75	75	75	75	75	60
15 Total Exports To ISW	45	45	45	45	45	45	75	75	75	75	75	75	75	75	60
Exports to Canada															
16 BPA to BCHP CanEnt	489	489	489	489	489	489	489	489	489	489	489	483	483	483	488
17 Total Exports To Canada	489	489	489	489	489	489	489	489	489	489	489	483	483	483	488
Exports to Other Entities															
18 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Exports															
19 Federal System	643	639	653	650	647	637	648	649	682	685	682	675	675	666	659

Table A-2: Federal Exports
PNW Loads and Resource Study
2007 - 2008 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Exports East of Continental Divide															
1 BPA to Other Entities	83	93	108	104	102	91	73	73	73	72	84	81	81	75	87
2 Total Exports to ECD	83	93	108	104	102	91	73	73	73	72	84	81	81	75	87
Exports to Pacific Southwest															
3 BPA to BURB C/N/X	4	3	3	3	3	3	3	0	0	0	0	0	0	0	2
4 BPA to GLEN C/N/X	4	3	3	3	3	3	3	0	0	0	0	0	0	0	2
5 BPA to PASA C/N/X	3	2	2	2	2	2	2	0	0	0	0	0	0	0	1
6 BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	4	4	4	4	1
7 BPA to PASA S/N/X	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0
8 BPA to RVSD CapS	0	5	5	5	5	5	5	5	7	0	0	0	0	0	3
9 BPA to RVSD C/N/X	7	0	0	0	0	0	0	0	0	7	7	7	6	7	3
10 BPA to RVSD C/N/X	11	3	3	3	3	3	3	3	0	0	11	11	9	11	5
11 BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	25	26	0	0	0	0	4
12 BPA NW-SW Intertie Losses	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1
13 Total Exports To PSW	30	16	15	16	15	15	16	8	36	36	23	23	21	23	21
Exports to Inland Southwest															
14 BPA to SPP PwrS	45	45	45	45	45	45	75	75	75	75	75	75	75	75	60
15 Total Exports To ISW	45	45	45	45	45	45	75	75	75	75	75	75	75	75	60
Exports to Canada															
16 BPA to BCHP CanEnt	483	483	483	483	483	483	483	483	483	483	483	465	465	465	480
17 Total Exports To Canada	483	483	483	483	483	483	483	483	483	483	483	465	465	465	480
Exports to Other Entities															
18 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Exports															
19 Federal System	641	636	651	648	646	633	646	638	666	666	665	644	642	638	648

Table A-2: Federal Exports
PNW Loads and Resource Study
2008 - 2009 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Exports East of Continental Divide															
1 BPA to Other Entities	49	55	64	61	60	53	43	42	43	43	50	48	48	44	51
2 Total Exports to ECD	49	55	64	61	60	53	43	42	43	43	50	48	48	44	51
Exports to Pacific Southwest															
3 BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	4	4	4	4	1
4 BPA to PASA S/N/X	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0
5 BPA to RVSD CapS	0	4	5	5	5	5	5	5	6	0	0	0	0	0	3
6 BPA to RVSD C/N/X	7	0	0	0	0	0	0	0	0	7	7	7	6	7	3
7 BPA to RVSD C/N/X	11	3	3	3	3	3	3	3	0	0	11	10	10	11	5
8 BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	25	26	0	0	0	0	4
9 BPA NW-SW Intertie Losses	1	0	0	0	0	0	0	0	1	1	1	1	1	1	0
10 Total Exports To PSW	19	7	8	8	8	8	8	8	35	37	23	22	22	23	17
Exports to Inland Southwest															
11 BPA to SPP PwrS	45	45	45	45	45	45	75	75	75	75	75	75	75	75	60
12 Total Exports To ISW	45	45	45	45	45	45	75	75	75	75	75	75	75	75	60
Exports to Canada															
13 BPA to BCHP CanEnt	465	465	465	465	465	465	465	465	465	465	465	567	567	567	482
14 Total Exports To Canada	465	465	465	465	465	465	465	465	465	465	465	567	567	567	482
Exports to Other Entities															
15 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Exports															
16 Federal System	578	572	581	579	578	571	590	590	618	619	613	712	712	709	610

Table A-3: Federal Regulated Hydro Projects
PNW Loads and Resource Study
2006 - 2007 Fiscal Years
1937 Water Year
[30] 2007 Initial Rate Case

9/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Regulated Hydro Projects															
1 Albeni Falls	38	24	20	22	17	21	21	31	31	45	39	24	19	22	27
2 Bonneville	454	511	548	424	453	441	356	135	211	338	170	136	138	427	363
3 Chief Joseph	993	1,234	1,176	858	827	847	844	845	1,019	1,411	1,362	1,412	1,379	856	1,069
4 Dworshak	60	59	59	59	58	58	59	61	65	222	440	327	235	179	133
5 Grand Coulee	1,875	2,307	2,137	1,551	1,499	1,499	1,434	1,405	1,806	2,677	2,592	2,659	2,550	1,584	1,963
6 Hungry Horse	85	89	90	92	92	88	67	28	29	31	131	86	71	75	77
7 Ice Harbor	147	101	140	126	151	179	194	220	316	243	151	81	64	144	165
8 John Day	777	899	902	680	723	777	814	683	845	1,010	817	730	698	718	801
9 Libby	90	89	151	86	85	84	84	83	303	265	502	161	160	97	166
10 Little Goose	149	104	141	130	139	174	279	341	496	378	246	13	7	157	203
11 Lower Granite	145	102	141	129	139	174	271	344	494	380	247	9	4	162	202
12 Lower Monumental	151	101	143	128	154	184	297	354	499	388	253	10	6	151	207
13 McNary	537	591	593	444	471	493	381	271	332	515	746	511	487	500	504
14 The Dalles	614	707	720	561	587	631	625	507	618	741	593	528	505	577	619
Total Regulated Hydro w/Enc.	6,115	6,918	6,962	5,289	5,396	5,649	5,724	5,309	7,064	8,644	8,288	6,689	6,322	5,648	6,500
Total Regulated Hydro w/Enc.															
15 Federal System	6,115	6,918	6,962	5,289	5,396	5,649	5,724	5,309	7,064	8,644	8,288	6,689	6,322	5,648	6,500

Table A-3: Federal Regulated Hydro Projects
PNW Loads and Resource Study
2007 - 2008 Fiscal Years
1937 Water Year
[30] 2007 Initial Rate Case

9/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Regulated Hydro Projects															
1 Albeni Falls	38	24	20	22	17	21	21	31	31	45	39	24	19	22	27
2 Bonneville	455	512	550	426	455	443	357	136	211	338	170	136	138	427	364
3 Chief Joseph	994	1,235	1,178	859	828	848	845	846	1,020	1,412	1,364	1,414	1,380	857	1,070
4 Dworshak	60	59	59	59	58	58	59	61	65	222	440	327	235	179	133
5 Grand Coulee	1,880	2,313	2,142	1,556	1,503	1,503	1,438	1,408	1,809	2,682	2,598	2,665	2,554	1,586	1,967
6 Hungry Horse	85	89	90	92	92	88	67	28	29	31	131	86	71	75	77
7 Ice Harbor	148	101	141	127	152	180	195	221	318	244	152	81	64	144	166
8 John Day	778	900	903	681	724	778	815	684	846	1,011	818	730	698	718	802
9 Libby	90	89	151	86	85	84	84	83	303	265	502	161	160	97	166
10 Little Goose	150	104	142	130	140	175	281	343	499	380	111	13	7	157	193
11 Lower Granite	146	103	142	130	140	175	272	346	497	383	108	9	4	162	192
12 Lower Monumental	152	102	144	129	155	185	298	355	502	390	115	10	6	151	197
13 McNary	538	593	595	445	473	494	447	356	519	715	564	511	487	500	528
14 The Dalles	615	708	721	562	588	632	626	508	619	742	594	570	545	577	624
Total Regulated Hydro w/Enc.	6,130	6,934	6,977	5,303	5,409	5,664	5,802	5,407	7,268	8,861	7,706	6,738	6,368	5,652	6,505
Total Regulated Hydro w/Enc.															
15 Federal System	6,130	6,934	6,977	5,303	5,409	5,664	5,802	5,407	7,268	8,861	7,706	6,738	6,368	5,652	6,505

Table A-3: Federal Regulated Hydro Projects
PNW Loads and Resource Study
2008 - 2009 Fiscal Years
1937 Water Year
[30] 2007 Initial Rate Case

9/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Regulated Hydro Projects															
1 Albeni Falls	38	24	20	22	17	21	21	31	31	45	39	24	19	22	27
2 Bonneville	455	512	550	426	455	443	357	136	211	338	170	136	138	427	364
3 Chief Joseph	995	1,236	1,179	860	829	849	846	847	1,021	1,413	1,365	1,417	1,383	858	1,071
4 Dworshak	60	59	59	59	58	58	59	61	65	222	440	327	235	179	133
5 Grand Coulee	1,883	2,317	2,146	1,559	1,506	1,506	1,440	1,411	1,812	2,686	2,603	2,670	2,558	1,589	1,971
6 Hungry Horse	85	89	90	92	92	88	67	28	29	31	131	86	71	75	77
7 Ice Harbor	148	101	141	127	152	180	195	221	318	244	152	81	64	144	166
8 John Day	778	900	903	681	724	778	815	684	846	1,011	818	730	698	718	802
9 Libby	90	89	151	86	85	84	84	83	303	265	502	161	160	97	166
10 Little Goose	150	104	142	130	140	175	281	343	499	380	111	13	7	157	193
11 Lower Granite	146	103	142	130	140	175	272	346	497	383	108	9	4	162	192
12 Lower Monumental	152	102	144	129	155	185	298	355	502	390	115	10	6	151	197
13 McNary	538	593	595	445	473	494	447	356	519	715	564	519	493	504	529
14 The Dalles	615	708	721	562	588	632	641	548	668	801	641	570	545	577	639
Total Regulated Hydro w/Enc.	6,134	6,939	6,982	5,307	5,413	5,668	5,821	5,451	7,320	8,924	7,759	6,754	6,381	5,661	6,526
Total Regulated Hydro w/Enc.															
15 Federal System	6,134	6,939	6,982	5,307	5,413	5,668	5,821	5,451	7,320	8,924	7,759	6,754	6,381	5,661	6,526

Table A-4: Federal Independent Hydro Projects

PNW Loads and Resource Study

2006 - 2007 Fiscal Years

9/14/2005

1937 Water Year

[30] 2007 Initial Rate Case

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Independent Hydro Projects															
1 Anderson Ranch	4	5	11	16	16	5	25	27	11	38	27	25	25	25	17
2 Big Cliff	13	15	7	4	7	7	10	17	21	21	8	7	7	11	11
3 Big Creek	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
4 Black Canyon	9	6	7	9	5	8	10	10	10	8	8	3	3	2	7
5 Boise River Diversion	0	0	0	0	0	0	0	2	3	3	3	3	2	2	1
6 Chandler	7	12	13	10	9	13	10	10	8	8	5	5	5	4	9
7 Cougar	25	24	6	4	6	7	8	29	29	29	11	9	18	21	16
8 Cowlitz Falls	6	3	23	10	14	33	48	48	64	66	29	12	12	10	26
9 Detroit	44	46	20	11	18	20	33	66	106	91	30	25	24	42	42
10 Dexter	12	16	4	4	5	5	10	16	17	17	6	4	7	10	10
11 Foster	8	6	14	4	9	21	22	23	23	23	6	4	4	7	12
12 Green Peter	26	16	34	8	1	33	89	45	59	49	10	8	1	29	28
13 Green Springs - USBR	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
14 Hills Creek	23	27	6	6	4	5	19	31	35	35	14	9	9	25	18
15 Idaho Falls - City Plant	6	6	5	6	5	5	5	5	7	7	7	7	7	6	6
16 Idaho Falls - Lower Plant	7	6	5	6	6	5	6	6	7	7	7	7	7	6	6
17 Idaho Falls - Upper Plant	7	6	5	6	6	5	6	6	7	7	7	7	7	6	6
18 Lookout Point	45	47	9	9	12	15	38	64	80	75	24	17	28	42	36
19 Lost Creek	40	26	18	17	12	13	14	15	56	56	46	44	35	24	30
20 Minidoka	12	3	9	3	2	2	14	14	31	31	31	29	29	26	16
21 Packwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Palisades	55	15	15	20	23	27	21	38	95	131	131	130	130	82	63
23 Roza	4	0	5	4	4	13	13	13	13	13	13	13	13	0	8
Total Independent Hydro w/Enc.	361	292	224	163	172	250	409	492	688	723	429	376	380	386	376
Total Independent Hydro W/Enc.															
24 Federal System	361	292	224	163	172	250	409	492	688	723	429	376	380	386	376

Table A-4: Federal Independent Hydro Projects

PNW Loads and Resource Study

2007 - 2008 Fiscal Years

9/14/2005

1937 Water Year

[30] 2007 Initial Rate Case

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Independent Hydro Projects															
1 Anderson Ranch	4	5	11	16	16	5	25	27	11	38	27	25	25	25	17
2 Big Cliff	13	15	7	4	7	7	10	17	21	21	8	7	7	11	11
3 Big Creek	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
4 Black Canyon	9	6	7	9	5	8	10	10	10	8	8	3	3	2	7
5 Boise River Diversion	0	0	0	0	0	0	0	2	3	3	3	3	2	2	1
6 Chandler	7	12	13	10	9	13	10	10	8	8	5	5	5	4	9
7 Cougar	25	24	6	4	6	7	8	29	29	29	11	9	18	21	16
8 Cowlitz Falls	6	3	23	10	14	33	48	48	64	66	29	12	12	10	26
9 Detroit	44	46	20	11	18	20	33	66	106	91	30	25	24	42	42
10 Dexter	12	16	4	4	5	5	10	16	17	17	6	4	7	10	10
11 Foster	8	6	14	4	9	21	22	23	23	23	6	4	4	7	12
12 Green Peter	26	16	34	8	1	33	89	45	59	49	10	8	1	29	28
13 Green Springs - USBR	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
14 Hills Creek	23	27	6	6	4	5	19	31	35	35	14	9	9	25	18
15 Idaho Falls - City Plant	6	6	5	6	5	5	5	5	7	7	7	7	7	6	6
16 Idaho Falls - Lower Plant	7	6	5	6	6	5	6	6	7	7	7	7	7	6	6
17 Idaho Falls - Upper Plant	7	6	5	6	6	5	6	6	7	7	7	7	7	6	6
18 Lookout Point	45	47	9	9	12	15	38	64	80	75	24	17	28	42	36
19 Lost Creek	40	26	18	17	12	13	14	15	56	56	46	44	35	24	30
20 Minidoka	12	3	9	3	2	2	14	14	31	31	31	29	29	26	16
21 Packwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Palisades	55	15	15	20	23	27	21	38	95	131	131	130	130	82	63
23 Roza	4	0	5	4	4	13	13	13	13	13	13	13	13	0	8
Total Independent Hydro w/Enc.	361	292	224	163	172	250	409	492	688	723	429	376	380	386	376
Total Independent Hydro W/Enc.															
24 Federal System	361	292	224	163	172	250	409	492	688	723	429	376	380	386	376

Table A-4: Federal Independent Hydro Projects

PNW Loads and Resource Study

2008 - 2009 Fiscal Years

9/14/2005

1937 Water Year

[30] 2007 Initial Rate Case

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Independent Hydro Projects															
1 Anderson Ranch	4	5	11	16	16	5	25	27	11	38	27	25	25	25	17
2 Big Cliff	13	15	7	4	7	7	10	17	21	21	8	7	7	11	11
3 Big Creek	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
4 Black Canyon	9	6	7	9	5	8	10	10	10	8	8	3	3	2	7
5 Boise River Diversion	0	0	0	0	0	0	0	2	3	3	3	3	2	2	1
6 Chandler	7	12	13	10	9	13	10	10	8	8	5	5	5	4	9
7 Cougar	25	24	6	4	6	7	8	29	29	29	11	9	18	21	16
8 Cowlitz Falls	6	3	23	10	14	33	48	48	64	66	29	12	12	10	26
9 Detroit	44	46	20	11	18	20	33	66	106	91	30	25	24	42	42
10 Dexter	12	16	4	4	5	5	10	16	17	17	6	4	7	10	10
11 Foster	8	6	14	4	9	21	22	23	23	23	6	4	4	7	12
12 Green Peter	26	16	34	8	1	33	89	45	59	49	10	8	1	29	28
13 Green Springs - USBR	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
14 Hills Creek	23	27	6	6	4	5	19	31	35	35	14	9	9	25	18
15 Idaho Falls - City Plant	6	6	5	6	5	5	5	5	7	7	7	7	7	6	6
16 Idaho Falls - Lower Plant	7	6	5	6	6	5	6	6	7	7	7	7	7	6	6
17 Idaho Falls - Upper Plant	7	6	5	6	6	5	6	6	7	7	7	7	7	6	6
18 Lookout Point	45	47	9	9	12	15	38	64	80	75	24	17	28	42	36
19 Lost Creek	40	26	18	17	12	13	14	15	56	56	46	44	35	24	30
20 Minidoka	12	3	9	3	2	2	14	14	31	31	31	29	29	26	16
21 Packwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Palisades	55	15	15	20	23	27	21	38	95	131	131	130	130	82	63
23 Roza	4	0	5	4	4	13	13	13	13	13	13	13	13	0	8
Total Independent Hydro w/Enc.	361	292	224	163	172	250	409	492	688	723	429	376	380	386	376
Total Independent Hydro W/Enc.															
24 Federal System	361	292	224	163	172	250	409	492	688	723	429	376	380	386	376

Table A-5: Federal Imports
PNW Loads and Resource Study
2006 - 2007 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Imports From East of Continental Divide															
1 PPL To BPA PwrS	108	161	215	189	145	117	90	90	0	18	34	13	13	42	94
2 Total Imports From ECD	108	161	215	189	145	117	90	90	0	18	34	13	13	42	94
Imports From Pacific Southwest															
3 BURB To BPA XchgNrg	3	4	5	5	5	5	4	4	3	3	3	3	3	3	4
4 BURB To BPA PkRepl	4	3	3	3	3	3	3	2	4	5	5	5	5	5	4
5 GLEN To BPA XchgNrg	3	4	6	6	6	6	6	3	3	3	3	3	3	3	4
6 GLEN To BPA PkRepl	4	3	3	3	3	3	3	3	5	6	6	6	6	6	4
7 PASA To BPA XchgNrg	2	2	3	3	3	3	3	2	2	2	2	2	2	2	2
8 PASA To BPA PkRepl	3	2	2	2	2	2	2	2	3	4	3	4	4	3	3
9 PASA To BPA XchgNrg	3	3	3	3	3	2	0	0	0	0	0	0	0	3	2
10 PASA To BPA S/N/X	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0
11 PASA To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	4	4	4	4	1
12 RVSD To BPA XchgNrg	6	6	6	6	6	6	6	0	0	0	0	0	0	0	3
13 RVSD To BPA PkRepl	0	5	5	5	5	5	5	4	7	0	0	0	0	0	3
14 RVSD To BPA PkRepl	7	0	0	0	0	0	0	0	0	7	7	7	7	6	3
15 RVSD To BPA XchgNrg	0	16	17	16	16	15	17	0	0	0	0	0	0	0	7
16 RVSD To BPA S/Pwr/X	0	10	10	10	9	9	10	0	0	0	0	0	0	0	4
17 RVSD To BPA PkRepl	11	3	3	3	3	3	3	3	0	0	11	11	11	10	5
18 Total Imports From PSW	45	61	65	65	64	61	62	22	26	29	44	45	45	47	50
Imports From Inland Southwest															
19 Other Entities To BPA	50	50	50	0	0	0	0	0	0	0	0	0	0	0	13
20 SPP To BPA PwrS	45	45	45	45	45	45	75	75	75	75	75	75	75	75	60
21 Total Imports From ISW	95	95	95	45	45	45	75	75	75	75	75	75	75	75	73
Imports From Canada															
22 BCHP To BPA PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23 Total Imports From Canada	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Imports From Other Entities															
24 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Imports															
25 Federal System	250	318	377	300	255	224	227	187	102	123	154	134	134	165	217

Table A-5: Federal Imports
PNW Loads and Resource Study
2007 - 2008 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Imports From East of Continental Divide															
1 PPL To BPA PwrS	108	161	215	189	145	117	90	90	0	18	34	13	13	42	94
2 Total Imports From ECD	108	161	215	189	145	117	90	90	0	18	34	13	13	42	94
Imports From Pacific Southwest															
3 BURB To BPA XchgNrg	3	4	5	5	5	5	5	0	0	0	0	0	0	0	2
4 BURB To BPA PkRepl	4	3	3	3	3	3	3	0	0	0	0	0	0	0	2
5 GLEN To BPA XchgNrg	3	4	6	6	6	6	6	0	0	0	0	0	0	0	3
6 GLEN To BPA PkRepl	4	3	3	3	3	3	3	0	0	0	0	0	0	0	2
7 PASA To BPA XchgNrg	2	2	3	3	3	3	3	0	0	0	0	0	0	0	2
8 PASA To BPA PkRepl	3	2	2	2	2	2	2	0	0	0	0	0	0	0	1
9 PASA To BPA XchgNrg	3	3	3	3	3	2	0	0	0	0	0	0	0	3	2
10 PASA To BPA S/N/X	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0
11 PASA To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	4	4	4	4	1
12 RVSD To BPA XchgNrg	6	6	6	6	6	6	6	0	0	0	0	0	0	0	3
13 RVSD To BPA PkRepl	0	5	5	5	5	5	5	5	7	0	0	0	0	0	3
14 RVSD To BPA PkRepl	7	0	0	0	0	0	0	0	0	7	7	6	7	7	3
15 RVSD To BPA XchgNrg	0	16	17	16	15	16	15	0	0	0	0	0	0	0	7
16 RVSD To BPA S/Pwr/X	0	10	10	9	9	9	9	0	0	0	0	0	0	0	4
17 RVSD To BPA PkRepl	11	3	3	3	3	3	3	3	0	0	11	10	11	11	5
18 Total Imports From PSW	46	61	65	65	63	62	59	8	7	7	23	20	22	27	40
Imports From Inland Southwest															
19 SPP To BPA PwrS	45	45	45	45	45	45	75	75	75	75	75	75	75	75	60
20 Total Imports From ISW	45	45	45	45	45	45	75	75	75	75	75	75	75	75	60
Imports From Canada															
21 BCHP To BPA PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22 Total Imports From Canada	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Imports From Other Entities															
23 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Imports															
24 Federal System	200	268	326	299	254	225	225	173	83	101	132	109	111	145	195

Table A-5: Federal Imports
PNW Loads and Resource Study
2008 - 2009 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Imports From East of Continental Divide															
1 PPL To BPA PwrS	108	161	215	189	145	117	90	90	0	18	34	13	13	42	94
2 Total Imports From ECD	108	161	215	189	145	117	90	90	0	18	34	13	13	42	94
Imports From Pacific Southwest															
3 PASA To BPA XchgNrg	3	3	3	3	3	2	0	0	0	0	0	0	0	3	2
4 PASA To BPA S/N/X	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0
5 PASA To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	4	4	4	4	1
6 RVSD To BPA XchgNrg	6	6	6	6	6	6	6	0	0	0	0	0	0	0	3
7 RVSD To BPA PkRepl	0	4	5	5	5	5	5	5	6	0	0	0	0	0	3
8 RVSD To BPA PkRepl	7	0	0	0	0	0	0	0	0	7	7	6	7	7	3
9 RVSD To BPA XchgNrg	0	17	16	16	16	16	15	0	0	0	0	0	0	0	7
10 RVSD To BPA S/Pwr/X	0	10	9	9	9	9	9	0	0	0	0	0	0	0	4
11 RVSD To BPA PkRepl	11	3	3	3	3	3	3	3	0	0	11	10	11	11	5
12 Total Imports From PSW	28	44	43	43	42	41	38	8	6	7	23	20	22	27	29
Imports From Inland Southwest															
13 SPP To BPA PwrS	45	45	45	45	45	45	75	75	75	75	75	75	75	75	60
14 Total Imports From ISW	45	45	45	45	45	45	75	75	75	75	75	75	75	75	60
Imports From Canada															
15 BCHP To BPA PwrS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16 Total Imports From Canada	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Imports From Other Entities															
17 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Imports															
18 Federal System	182	251	304	278	233	204	203	173	83	101	132	109	111	145	184

Table A-8: Federal Renewable Resources
PNW Loads and Resource Study
2006 - 2007 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Federal System															
1 Georgia-Pacific Paper (Wauna)	28	29	31	32	31	31	30	30	27	27	27	27	27	27	29
2 Total Federal System	28	29	31	32	31	31	30	30	27	27	27	27	27	27	29
Renewable Resources															
3 Federal System	28	29	31	32	31	31	30	30	27	27	27	27	27	27	29

Table A-8: Federal Renewable Resources
PNW Loads and Resource Study
2007 - 2008 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Federal System															
1 Georgia-Pacific Paper (Wauna)	28	29	31	32	31	31	30	30	27	27	27	27	27	27	29
2 Total Federal System	28	29	31	32	31	31	30	30	27	27	27	27	27	27	29
Renewable Resources															
3 Federal System	28	29	31	32	31	31	30	30	27	27	27	27	27	27	29

Table A-8: Federal Renewable Resources
PNW Loads and Resource Study
2008 - 2009 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Federal System															
1 Georgia-Pacific Paper (Wauna)	28	29	31	32	31	31	30	30	27	27	27	27	27	27	29
2 Total Federal System	28	29	31	32	31	31	30	30	27	27	27	27	27	27	29
Renewable Resources															
3 Federal System	28	29	31	32	31	31	30	30	27	27	27	27	27	27	29

**Table A-10: Federal Large Thermal
PNW Loads and Resource Study
2006 - 2007 Fiscal Years
[30] 2007 Initial Rate Case**

9/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Columbia Generating Station: Uranium															
1 BPA - Power Business	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	355	167	1,000	1,000	1,000	1,000	877
2 Columbia Generating Station: Regional Total	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	355	167	1,000	1,000	1,000	1,000	877
Total Large Thermal															
3 Federal System	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	355	167	1,000	1,000	1,000	1,000	877

**Table A-10: Federal Large Thermal
PNW Loads and Resource Study
2007 - 2008 Fiscal Years
[30] 2007 Initial Rate Case**

9/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Columbia Generating Station: Uranium															
1 BPA - Power Business	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
2 Columbia Generating Station: Regional Total	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Total Large Thermal															
3 Federal System	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000

**Table A-10: Federal Large Thermal
PNW Loads and Resource Study
2008 - 2009 Fiscal Years
[30] 2007 Initial Rate Case**

9/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Columbia Generating Station: Uranium															
1 BPA - Power Business	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	355	167	1,000	1,000	1,000	1,000	877
2 Columbia Generating Station: Regional Total	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	355	167	1,000	1,000	1,000	1,000	877
Total Large Thermal															
3 Federal System	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	355	167	1,000	1,000	1,000	1,000	877

Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resource Study
2006 - 2007 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
BPA Canada															
1 BPA: Regional Totals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Priest Rapids CER for Canada															
2 AVWP to BPA	0.83	0.83	0.83	0.83	0.83	0.83	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.82
3 COPD to BPA	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
4 CWPC to BPA	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
5 EWEB to BPA	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
6 FGRV to BPA	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
7 FREC to BPA	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
8 GCPD to BPA	18.58	18.58	18.58	18.58	18.58	18.58	18.07	18.07	18.07	18.07	18.07	18.07	18.07	18.07	18.33
9 ICLP to BPA	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
10 KITT to BPA	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
11 KOOT to BPA	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
12 LREC to BPA	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
13 LVE to BPA	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
14 MCMN to BPA	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
15 MTRF to BPA	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
16 NLEC to BPA	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
17 PGE to BPA	1.90	1.90	1.90	1.90	1.90	1.90	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.87
18 PPL to BPA	1.90	1.90	1.90	1.90	1.90	1.90	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.87
19 PSE to BPA	1.09	1.09	1.09	1.09	1.09	1.09	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.08
20 RREC to BPA	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
21 SCL to BPA	1.02	1.02	1.02	1.02	1.02	1.02	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	1.00
22 SLEC to BPA	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
23 TPU to BPA	1.02	1.02	1.02	1.02	1.02	1.02	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	1.00
24 UNEC to BPA	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
25 UNKMKT to BPA	1.76	1.76	1.76	1.76	1.76	1.76	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.73
26 Priest Rapids: Regional Totals	29.30	29.30	29.30	29.30	29.30	29.30	28.50	28.50	28.50	28.50	28.50	28.50	28.50	28.50	28.90

Table A-15: Canadian Entitlement Return For Canada

PNW Loads and Resource Study

2006 - 2007 Fiscal Years

[30] 2007 Initial Rate Case

9/14/2005

Continued

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Wanapum CER for Canada															
27 AVWP to BPA	2.30	2.30	2.30	2.30	2.30	2.30	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.23	2.26
28 COPD to BPA	0.76	0.76	0.76	0.76	0.76	0.76	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.75
29 CWPC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30 EWEB to BPA	0.64	0.64	0.64	0.64	0.64	0.64	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
31 FGRV to BPA	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
32 FREC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33 GCPD to BPA	10.22	10.22	10.22	10.22	10.22	10.22	9.93	9.93	9.93	9.93	9.93	9.93	9.93	9.93	10.07
34 ICLP to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35 KITT to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36 KOOT to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37 LREC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38 LVE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39 MCMN to BPA	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
40 MTRF to BPA	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
41 NLEC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42 PGE to BPA	5.24	5.24	5.24	5.24	5.24	5.24	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.16
43 PPL to BPA	5.24	5.24	5.24	5.24	5.24	5.24	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.16
44 PSE to BPA	3.02	3.02	3.02	3.02	3.02	3.02	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.98
45 RREC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46 SCL to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47 SLEC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48 TPU to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49 UNEC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50 UNMKMT to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
51 Wanapum: Regional Totals	28.00	28.00	28.00	28.00	28.00	28.00	27.20	27.20	27.20	27.20	27.20	27.20	27.20	27.20	27.60

Table A-15: Canadian Entitlement Return For Canada

PNW Loads and Resource Study

2006 - 2007 Fiscal Years

[30] 2007 Initial Rate Case

9/14/2005

Continued

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Rock Island P.H. #1 CER for Canada															
52 CHPD to BPA	5.40	5.40	5.40	5.40	5.40	5.40	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.33
53 PSE to BPA	5.40	5.40	5.40	5.40	5.40	5.40	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.33
54 Rock Island P.H. #1: Regional Totals	10.80	10.80	10.80	10.80	10.80	10.80	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.65
Rock Island P.H. #2 CER for Canada															
55 CHPD to BPA	3.45	3.45	3.45	3.45	3.45	3.45	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.40
56 PSE to BPA	3.45	3.45	3.45	3.45	3.45	3.45	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.40
57 Rock Island P.H. #2: Regional Totals	6.90	6.90	6.90	6.90	6.90	6.90	6.71	6.71	6.71	6.71	6.71	6.71	6.71	6.71	6.81
Rocky Reach CER for Canada															
58 AVWP to BPA	1.07	1.07	1.07	1.07	1.07	1.07	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.05
59 CHPD to BPA	5.56	5.56	5.56	5.56	5.56	5.56	5.41	5.41	5.41	5.41	5.41	5.41	5.41	5.41	5.48
60 CLKM to BPA	8.46	8.46	8.46	8.46	8.46	8.46	8.23	8.23	8.23	8.23	8.23	8.23	8.23	8.23	8.35
61 DOPD to BPA	0.99	0.99	0.99	0.99	0.99	0.99	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.98
62 PGE to BPA	4.45	4.45	4.45	4.45	4.45	4.45	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.39
63 PPL to BPA	1.95	1.95	1.95	1.95	1.95	1.95	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.92
64 PSE to BPA	14.32	14.32	14.32	14.32	14.32	14.32	13.93	13.93	13.93	13.93	13.93	13.93	13.93	13.93	14.12
65 Rocky Reach: Regional Totals	36.80	36.80	36.80	36.80	36.80	36.80	35.80	35.80	35.80	35.80	35.80	35.80	35.80	35.80	36.30
Wells CER for Canada															
66 AVWP to BPA	0.79	0.79	0.79	0.79	0.79	0.79	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.78
67 COLV to BPA	1.07	1.07	1.07	1.07	1.07	1.07	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.06
68 DOPD to BPA	6.82	6.82	6.82	6.82	6.82	6.82	6.62	6.62	6.62	6.62	6.62	6.62	6.62	6.62	6.72
69 OKPD to BPA	1.82	1.82	1.82	1.82	1.82	1.82	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.79
70 PGE to BPA	4.61	4.61	4.61	4.61	4.61	4.61	4.48	4.48	4.48	4.48	4.48	4.48	4.48	4.48	4.55
71 PPL to BPA	1.57	1.57	1.57	1.57	1.57	1.57	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.55
72 PSE to BPA	7.11	7.11	7.11	7.11	7.11	7.11	6.90	6.90	6.90	6.90	6.90	6.90	6.90	6.90	7.01
73 Wells: Regional Totals	23.80	23.80	23.80	23.80	23.80	23.80	23.10	23.10	23.10	23.10	23.10	23.10	23.10	23.10	23.45
Total CER For Canada															
74 Federal System	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75 Public Entities	59.14	59.14	59.14	59.14	59.14	59.14	57.48	57.48	57.48	57.48	57.48	57.48	57.48	57.48	58.31
76 Investor-Owned Entities	66.24	66.24	66.24	66.24	66.24	66.24	64.38	64.38	64.38	64.38	64.38	64.38	64.38	64.38	65.31
77 Other Entities	10.22	10.22	10.22	10.22	10.22	10.22	9.94	9.94	9.94	9.94	9.94	9.94	9.94	9.94	10.08
78 Non-NW Entities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
79 Total CER For Canada	135.60	135.60	135.60	135.60	135.60	135.60	131.81	131.81	131.81	131.81	131.81	131.81	131.81	131.81	133.70

Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resource Study
2007 - 2008 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
BPA Canada															
1 BPA: Regional Totals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Priest Rapids CER for Canada															
2 AVWP to BPA	0.81	0.81	0.81	0.81	0.81	0.81	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
3 COPD to BPA	0.27	0.27	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
4 CWPC to BPA	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
5 EWEB to BPA	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
6 FGRV to BPA	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
7 FREC to BPA	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
8 GCPD to BPA	18.07	18.07	18.07	18.07	18.07	18.07	17.82	17.82	17.82	17.82	17.82	17.82	17.82	17.82	17.95
9 ICLP to BPA	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
10 KITT to BPA	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
11 KOOT to BPA	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
12 LREC to BPA	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
13 LVE to BPA	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
14 MCMN to BPA	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
15 MTRF to BPA	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
16 NLEC to BPA	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
17 PGE to BPA	1.84	1.84	1.84	1.84	1.84	1.84	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.83
18 PPL to BPA	1.84	1.84	1.84	1.84	1.84	1.84	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.83
19 PSE to BPA	1.06	1.06	1.06	1.06	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.06
20 RREC to BPA	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
21 SCL to BPA	0.99	0.99	0.99	0.99	0.99	0.99	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
22 SLEC to BPA	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
23 TPU to BPA	0.99	0.99	0.99	0.99	0.99	0.99	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
24 UNEC to BPA	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
25 UNMKMT to BPA	1.71	1.71	1.71	1.71	1.71	1.71	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.70
26 Priest Rapids: Regional Totals	28.50	28.50	28.50	28.50	28.50	28.50	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.30

Table A-15: Canadian Entitlement Return For Canada

PNW Loads and Resource Study

2007 - 2008 Fiscal Years

[30] 2007 Initial Rate Case

9/14/2005

Continued

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Wanapum CER for Canada															
27 AVWP to BPA	2.23	2.23	2.23	2.23	2.23	2.23	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.21
28 COPD to BPA	0.73	0.73	0.73	0.73	0.73	0.73	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.73
29 CWPC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30 EWEB to BPA	0.63	0.63	0.63	0.63	0.63	0.63	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
31 FGRV to BPA	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
32 FREC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33 GCPD to BPA	9.93	9.93	9.93	9.93	9.93	9.93	9.78	9.78	9.78	9.78	9.78	9.78	9.78	9.78	9.86
34 ICLP to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35 KITT to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36 KOOT to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37 LREC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38 LVE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39 MCMN to BPA	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
40 MTRF to BPA	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
41 NLEC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42 PGE to BPA	5.09	5.09	5.09	5.09	5.09	5.09	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.05
43 PPL to BPA	5.09	5.09	5.09	5.09	5.09	5.09	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.05
44 PSE to BPA	2.94	2.94	2.94	2.94	2.94	2.94	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.92
45 RREC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46 SCL to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47 SLEC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48 TPU to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49 UNEC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50 UNKMKT to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
51 Wanapum: Regional Totals	27.20	27.20	27.20	27.20	27.20	27.20	26.80	26.80	26.80	26.80	26.80	26.80	26.80	26.80	27.00

Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resource Study
2007 - 2008 Fiscal Years
[30] 2007 Initial Rate Case

Continued

9/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Rock Island P.H. #1 CER for Canada															
52 CHPD to BPA	5.25	5.25	5.25	5.25	5.25	5.25	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.23
53 PSE to BPA	5.25	5.25	5.25	5.25	5.25	5.25	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.20	5.23
54 Rock Island P.H. #1: Regional Totals	10.50	10.50	10.50	10.50	10.50	10.50	10.40	10.40	10.40	10.40	10.40	10.40	10.40	10.40	10.45
Rock Island P.H. #2 CER for Canada															
55 CHPD to BPA	3.35	3.35	3.35	3.35	3.35	3.35	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.33
56 PSE to BPA	3.35	3.35	3.35	3.35	3.35	3.35	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.33
57 Rock Island P.H. #2: Regional Totals	6.71	6.71	6.71	6.71	6.71	6.71	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.67
Rocky Reach CER for Canada															
58 AVWP to BPA	1.04	1.04	1.04	1.04	1.04	1.04	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.03
59 CHPD to BPA	5.41	5.41	5.41	5.41	5.41	5.41	5.33	5.33	5.33	5.33	5.33	5.33	5.33	5.33	5.37
60 CLKM to BPA	8.23	8.23	8.23	8.23	8.23	8.23	8.12	8.12	8.12	8.12	8.12	8.12	8.12	8.12	8.18
61 DOPD to BPA	0.97	0.97	0.97	0.97	0.97	0.97	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.96
62 PGE to BPA	4.33	4.33	4.33	4.33	4.33	4.33	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.30
63 PPL to BPA	1.90	1.90	1.90	1.90	1.90	1.90	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.88
64 PSE to BPA	13.93	13.93	13.93	13.93	13.93	13.93	13.73	13.73	13.73	13.73	13.73	13.73	13.73	13.73	13.83
65 Rocky Reach: Regional Totals	35.80	35.80	35.80	35.80	35.80	35.80	35.30	35.30	35.30	35.30	35.30	35.30	35.30	35.30	35.55
Wells CER for Canada															
66 AVWP to BPA	0.77	0.77	0.77	0.77	0.77	0.77	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.77
67 COLV to BPA	1.04	1.04	1.04	1.04	1.04	1.04	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
68 DOPD to BPA	6.62	6.62	6.62	6.62	6.62	6.62	6.53	6.53	6.53	6.53	6.53	6.53	6.53	6.53	6.58
69 OKPD to BPA	1.76	1.76	1.76	1.76	1.76	1.76	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.74	1.75
70 PGE to BPA	4.48	4.48	4.48	4.48	4.48	4.48	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.45
71 PPL to BPA	1.52	1.52	1.52	1.52	1.52	1.52	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.51
72 PSE to BPA	6.90	6.90	6.90	6.90	6.90	6.90	6.81	6.81	6.81	6.81	6.81	6.81	6.81	6.81	6.86
73 Wells: Regional Totals	23.10	23.10	23.10	23.10	23.10	23.10	22.80	22.80	22.80	22.80	22.80	22.80	22.80	22.80	22.95
Total CER For Canada															
74 Federal System	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75 Public Entities	57.48	57.48	57.48	57.48	57.48	57.48	56.71	56.71	56.71	56.71	56.71	56.71	56.71	56.71	57.10
76 Investor-Owned Entities	64.38	64.38	64.38	64.38	64.38	64.38	63.51	63.51	63.51	63.51	63.51	63.51	63.51	63.51	63.94
77 Other Entities	9.94	9.94	9.94	9.94	9.94	9.94	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.87
78 Non-NW Entities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
79 Total CER For Canada	131.81	131.81	131.81	131.81	131.81	131.81	130.03	130.03	130.03	130.03	130.03	130.03	130.03	130.03	130.92

Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resource Study
2008 - 2009 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
BPA Canada															
1 BPA: Regional Totals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Priest Rapids CER for Canada															
2 AVWP to BPA	0.80	0.80	0.80	0.80	0.80	0.80	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.82
3 COPD to BPA	0.26	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
4 CWPC to BPA	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
5 EWEB to BPA	0.22	0.22	0.22	0.22	0.22	0.22	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
6 FGRV to BPA	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
7 FREC to BPA	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
8 GCPD to BPA	17.82	17.82	17.82	17.82	17.82	17.82	18.71	18.71	18.71	18.71	18.71	18.71	18.71	18.71	18.26
9 ICLP to BPA	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
10 KITT to BPA	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
11 KOOT to BPA	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05
12 LREC to BPA	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
13 LVE to BPA	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
14 MCMN to BPA	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
15 MTRF to BPA	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
16 NLEC to BPA	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
17 PGE to BPA	1.82	1.82	1.82	1.82	1.82	1.82	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.86
18 PPL to BPA	1.82	1.82	1.82	1.82	1.82	1.82	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.86
19 PSE to BPA	1.05	1.05	1.05	1.05	1.05	1.05	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.07
20 RREC to BPA	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
21 SCL to BPA	0.98	0.98	0.98	0.98	0.98	0.98	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.00
22 SLEC to BPA	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
23 TPU to BPA	0.98	0.98	0.98	0.98	0.98	0.98	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.00
24 UNEC to BPA	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
25 UNKMKT to BPA	1.69	1.69	1.69	1.69	1.69	1.69	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.73
26 Priest Rapids: Regional Totals	28.10	28.10	28.10	28.10	28.10	28.10	29.50	29.50	29.50	29.50	29.50	29.50	29.50	29.50	28.80

Table A-15: Canadian Entitlement Return For Canada

PNW Loads and Resource Study

2008 - 2009 Fiscal Years

[30] 2007 Initial Rate Case

9/14/2005

Continued

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Wanapum CER for Canada															
27 AVWP to BPA	2.20	2.20	2.20	2.20	2.20	2.20	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.26
28 COPD to BPA	0.72	0.72	0.72	0.72	0.72	0.72	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.74
29 CWPC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30 EWEB to BPA	0.62	0.62	0.62	0.62	0.62	0.62	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.63
31 FGRV to BPA	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19
32 FREC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33 GCPD to BPA	9.78	9.78	9.78	9.78	9.78	9.78	10.29	10.29	10.29	10.29	10.29	10.29	10.29	10.29	10.04
34 ICLP to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35 KITT to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36 KOOT to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37 LREC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38 LVE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39 MCMN to BPA	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19
40 MTRF to BPA	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19
41 NLEC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42 PGE to BPA	5.01	5.01	5.01	5.01	5.01	5.01	5.27	5.27	5.27	5.27	5.27	5.27	5.27	5.27	5.14
43 PPL to BPA	5.01	5.01	5.01	5.01	5.01	5.01	5.27	5.27	5.27	5.27	5.27	5.27	5.27	5.27	5.14
44 PSE to BPA	2.89	2.89	2.89	2.89	2.89	2.89	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	2.97
45 RREC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46 SCL to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47 SLEC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48 TPU to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49 UNEC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50 UNKMKT to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
51 Wanapum: Regional Totals	26.80	26.80	26.80	26.80	26.80	26.80	28.20	28.20	28.20	28.20	28.20	28.20	28.20	28.20	27.50

Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resource Study
2008 - 2009 Fiscal Years
[30] 2007 Initial Rate Case

Continued

9/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Rock Island P.H. #1 CER for Canada															
52 CHPD to BPA	5.20	5.20	5.20	5.20	5.20	5.20	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.33
53 PSE to BPA	5.20	5.20	5.20	5.20	5.20	5.20	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.33
54 Rock Island P.H. #1: Regional Totals	10.40	10.40	10.40	10.40	10.40	10.40	10.90	10.90	10.90	10.90	10.90	10.90	10.90	10.90	10.65
Rock Island P.H. #2 CER for Canada															
55 CHPD to BPA	3.32	3.32	3.32	3.32	3.32	3.32	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.40
56 PSE to BPA	3.32	3.32	3.32	3.32	3.32	3.32	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.40
57 Rock Island P.H. #2: Regional Totals	6.63	6.63	6.63	6.63	6.63	6.63	6.98	6.98	6.98	6.98	6.98	6.98	6.98	6.98	6.81
Rocky Reach CER for Canada															
58 AVWP to BPA	1.02	1.02	1.02	1.02	1.02	1.02	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.05
59 CHPD to BPA	5.33	5.33	5.33	5.33	5.33	5.33	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.47
60 CLKM to BPA	8.12	8.12	8.12	8.12	8.12	8.12	8.53	8.53	8.53	8.53	8.53	8.53	8.53	8.53	8.33
61 DOPD to BPA	0.95	0.95	0.95	0.95	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.98
62 PGE to BPA	4.27	4.27	4.27	4.27	4.27	4.27	4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.38
63 PPL to BPA	1.87	1.87	1.87	1.87	1.87	1.87	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.92
64 PSE to BPA	13.73	13.73	13.73	13.73	13.73	13.73	14.43	14.43	14.43	14.43	14.43	14.43	14.43	14.43	14.08
65 Rocky Reach: Regional Totals	35.30	35.30	35.30	35.30	35.30	35.30	37.10	37.10	37.10	37.10	37.10	37.10	37.10	37.10	36.20
Wells CER for Canada															
66 AVWP to BPA	0.76	0.76	0.76	0.76	0.76	0.76	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.78
67 COLV to BPA	1.03	1.03	1.03	1.03	1.03	1.03	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.05
68 DOPD to BPA	6.53	6.53	6.53	6.53	6.53	6.53	6.88	6.88	6.88	6.88	6.88	6.88	6.88	6.88	6.70
69 OKPD to BPA	1.74	1.74	1.74	1.74	1.74	1.74	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.79
70 PGE to BPA	4.42	4.42	4.42	4.42	4.42	4.42	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.65	4.54
71 PPL to BPA	1.50	1.50	1.50	1.50	1.50	1.50	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.54
72 PSE to BPA	6.81	6.81	6.81	6.81	6.81	6.81	7.17	7.17	7.17	7.17	7.17	7.17	7.17	7.17	6.99
73 Wells: Regional Totals	22.80	22.80	22.80	22.80	22.80	22.80	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	23.40
Total CER For Canada															
74 Federal System	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75 Public Entities	56.71	56.71	56.71	56.71	56.71	56.71	59.60	59.60	59.60	59.60	59.60	59.60	59.60	59.60	58.16
76 Investor-Owned Entities	63.51	63.51	63.51	63.51	63.51	63.51	66.77	66.77	66.77	66.77	66.77	66.77	66.77	66.77	65.14
77 Other Entities	9.81	9.81	9.81	9.81	9.81	9.81	10.30	10.30	10.30	10.30	10.30	10.30	10.30	10.30	10.05
78 Non-NW Entities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
79 Total CER For Canada	130.03	130.03	130.03	130.03	130.03	130.03	136.68	136.68	136.68	136.68	136.68	136.68	136.68	136.68	133.35

Table A-16: Federal Intra-Regional Transfers
PNW Loads and Resource Study
2006 - 2007 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Intra-Regional Transfers															
1 BPA To AVWP WP3Set	0	101	101	101	101	50	50	49	0	0	0	0	0	0	42
2 BPA To CCPD PwrS	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
3 BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	35	34	0	0	0	6
4 BPA To PPL CapS	183	229	187	211	199	177	173	173	167	174	159	184	184	194	186
5 BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 BPA To PPL PwrS	108	161	215	189	145	117	90	90	0	18	34	13	13	42	94
7 BPA To PSE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 BPA To PSE WP3Set	0	101	101	101	101	50	50	49	0	0	0	0	0	0	42
9 Other Entities To BPA	375	375	374	0	0	0	0	0	0	0	0	0	0	0	94
10 PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 PPL To BPA PkRepl	183	229	187	211	199	177	173	173	167	174	159	184	184	194	186
12 PPL To BPA S/Pwr/X	23	23	0	0	0	0	0	0	0	0	0	0	0	23	6
13 PPL To BPA PwrS	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
14 Total Contracts	898	1,245	1,193	841	773	598	563	561	361	428	412	407	409	480	683
Total Contracts Out															
15 Federal System	308	609	622	619	564	411	380	378	184	244	243	214	214	253	387
16 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Investor-Owned Entities	216	262	197	221	209	187	183	183	177	184	169	194	194	227	202
18 Other Entities	375	375	374	0	0	0	0	0	0	0	0	0	0	0	94
19 Total Contracts Out	898	1,245	1,193	841	773	598	563	561	361	428	412	407	409	480	683
Total Contracts In															
20 Federal System	591	637	571	221	209	187	183	183	177	184	169	194	194	227	296
21 Public Entities	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
22 Investor-Owned Entities	291	592	605	602	547	394	363	361	167	227	226	197	197	236	370
23 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Total Contracts In	898	1,245	1,193	841	773	598	563	561	361	428	412	407	409	480	683

Table A-16: Federal Intra-Regional Transfers
PNW Loads and Resource Study
2007 - 2008 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Intra-Regional Transfers															
1 BPA To AVWP WP3Set	0	101	101	101	101	50	50	50	0	0	0	0	0	0	42
2 BPA To CCPD PwrS	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
3 BPA To PPL PwrS	108	161	215	189	145	117	90	90	0	18	34	13	13	42	94
4 BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	35	34	0	0	0	6
5 BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 BPA To PPL CapS	183	229	187	211	192	177	173	173	167	174	159	184	184	194	186
7 BPA To PSE WP3Set	0	101	101	101	101	50	50	50	0	0	0	0	0	0	42
8 BPA To PSE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PPL To BPA PkRepl	183	229	187	211	192	177	173	173	167	174	159	184	184	194	186
11 PPL To BPA S/Pwr/X	23	23	0	0	0	0	0	0	0	0	0	0	0	23	6
12 PPL To BPA PwrS	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
13 Total Contracts	523	870	819	841	759	598	562	562	361	428	412	407	409	480	589
Total Contracts Out															
14 Federal System	308	609	622	619	557	411	379	379	184	244	243	214	214	253	387
15 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Investor-Owned Entities	216	262	197	221	202	187	183	183	177	184	169	194	194	227	202
17 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Total Contracts Out	523	870	819	841	759	598	562	562	361	428	412	407	409	480	589
Total Contracts In															
19 Federal System	216	262	197	221	202	187	183	183	177	184	169	194	194	227	202
20 Public Entities	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
21 Investor-Owned Entities	291	592	605	602	540	394	362	362	167	227	226	197	197	236	370
22 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Total Contracts In	523	870	819	841	759	598	562	562	361	428	412	407	409	480	589

Table A-16: Federal Intra-Regional Transfers
PNW Loads and Resource Study
2008 - 2009 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Intra-Regional Transfers															
1 BPA To AVWP WP3Set	0	101	101	101	101	50	50	50	0	0	0	0	0	0	42
2 BPA To CCPD PwrS	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
3 BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 BPA To PPL PwrS	108	161	215	189	145	117	90	90	0	18	34	13	13	42	94
5 BPA To PPL CapS	183	229	187	211	199	177	173	173	167	174	159	184	184	194	186
6 BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	35	34	0	0	0	6
7 BPA To PSE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 BPA To PSE WP3Set	0	101	101	101	101	50	50	50	0	0	0	0	0	0	42
9 PPL To BPA PkRepl	183	229	187	211	199	177	173	173	167	174	159	184	184	194	186
10 PPL To BPA PwrS	10	10	10	10	10	10	10	10	10	5	0	0	0	0	7
11 PPL To BPA S/Pwr/X	23	23	0	0	0	0	0	0	0	0	0	0	0	23	6
12 PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 Total Contracts	523	870	819	841	773	598	562	562	361	423	402	397	399	470	587
Total Contracts Out															
14 Federal System	308	609	622	619	564	411	379	379	184	244	243	214	214	253	387
15 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Investor-Owned Entities	216	262	197	221	209	187	183	183	177	179	159	184	184	217	199
17 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Total Contracts Out	523	870	819	841	773	598	562	562	361	423	402	397	399	470	587
Total Contracts In															
19 Federal System	216	262	197	221	209	187	183	183	177	179	159	184	184	217	199
20 Public Entities	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
21 Investor-Owned Entities	291	592	605	602	547	394	362	362	167	227	226	197	197	236	370
22 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Total Contracts In	523	870	819	841	773	598	562	562	361	423	402	397	399	470	587

Table A-22: BPA Power Sale Contracts
PNW Loads and Resource Study
2006 - 2007 Fiscal Years
1937 Water Year
[30] 2007 Initial Rate Case

9/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Federal Entities															
1 Federal Entities	114	132	143	146	140	129	115	114	110	112	122	123	123	111	125
2 Total Federal Entities	114	132	143	146	140	129	115	114	110	112	122	123	123	111	125
U.S. Bureau of Reclamation															
3 U.S. Bureau of Reclamation	129	0	0	0	1	20	248	311	263	299	331	314	280	171	149
4 Total U.S. Bureau of Reclamation	129	0	0	0	1	20	248	311	263	299	331	314	280	171	149
Direct Service Industry															
5 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Total Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Generating Public Entities															
7 Generating Public Entities	2,223	2,607	2,895	2,923	2,866	2,668	2,329	2,322	2,142	1,884	1,854	1,959	1,959	2,165	2,376
8 Total Generating Public Entities	2,223	2,607	2,895	2,923	2,866	2,668	2,329	2,322	2,142	1,884	1,854	1,959	1,959	2,165	2,376
Generating Public Entities (Slice)															
9 Generating Public Entities (Slice)	972	1,091	1,088	849	865	911	909	855	1,040	1,231	1,251	1,027	982	905	1,007
10 Total Generating Public Entities (Slice)	972	1,091	1,088	849	865	911	909	855	1,040	1,231	1,251	1,027	982	905	1,007
Non-Generating Public Entities															
11 Non-Generating Public Entities	2,642	2,983	3,323	3,375	3,268	2,923	2,755	2,748	2,736	2,838	2,961	2,881	2,881	2,627	2,942
12 Total Non-Generating Public Entities	2,642	2,983	3,323	3,375	3,268	2,923	2,755	2,748	2,736	2,838	2,961	2,881	2,881	2,627	2,942
Non-Generating Public Entities (Slice)															
13 Non-Generating Public Entities (Slice)	584	655	653	510	519	547	546	513	625	739	751	617	590	543	605
14 Total Non-Gen. Public Entities (Slice)	584	655	653	510	519	547	546	513	625	739	751	617	590	543	605
Investor-Owned Entities															
15 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities															
17 Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Power Sales Contracts															
19 Federal Entities	114	132	143	146	140	129	115	114	110	112	122	123	123	111	125
20 U.S. Bureau of Reclamation	129	0	0	0	1	20	248	311	263	299	331	314	280	171	149
21 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Generating Public Entities	3,195	3,698	3,983	3,772	3,730	3,579	3,238	3,177	3,182	3,115	3,106	2,986	2,941	3,070	3,383
23 Non-Generating Public Entities	3,226	3,638	3,976	3,885	3,787	3,471	3,301	3,261	3,361	3,577	3,713	3,498	3,471	3,170	3,547
24 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Power Sales Contracts	6,664	7,468	8,101	7,802	7,658	7,199	6,901	6,863	6,917	7,104	7,272	6,920	6,814	6,523	7,205

Table A-22: BPA Power Sale Contracts
PNW Loads and Resource Study
2007 - 2008 Fiscal Years
1937 Water Year
[30] 2007 Initial Rate Case

9/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Federal Entities															
1 Federal Entities	120	138	150	152	147	135	120	120	116	117	127	129	129	116	131
2 Total Federal Entities	120	138	150	152	147	135	120	120	116	117	127	129	129	116	131
U.S. Bureau of Reclamation															
3 U.S. Bureau of Reclamation	129	0	0	0	1	20	248	311	263	299	331	314	280	171	149
4 Total U.S. Bureau of Reclamation	129	0	0	0	1	20	248	311	263	299	331	314	280	171	149
Direct Service Industry															
5 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Total Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Generating Public Entities															
7 Generating Public Entities	2,225	2,608	2,895	2,923	2,828	2,668	2,330	2,323	2,144	1,887	1,857	1,961	1,961	2,167	2,374
8 Total Generating Public Entities	2,225	2,608	2,895	2,923	2,828	2,668	2,330	2,323	2,144	1,887	1,857	1,961	1,961	2,167	2,374
Generating Public Entities (Slice)															
9 Generating Public Entities (Slice)	974	1,094	1,090	851	867	913	920	869	1,157	1,376	1,172	1,036	990	908	1,026
10 Total Generating Public Entities (Slice)	974	1,094	1,090	851	867	913	920	869	1,157	1,376	1,172	1,036	990	908	1,026
Non-Generating Public Entities															
11 Non-Generating Public Entities	2,681	3,029	3,374	3,427	3,284	2,967	2,795	2,787	2,774	2,878	3,004	2,922	2,922	2,664	2,983
12 Total Non-Generating Public Entities	2,681	3,029	3,374	3,427	3,284	2,967	2,795	2,787	2,774	2,878	3,004	2,922	2,922	2,664	2,983
Non-Generating Public Entities (Slice)															
13 Non-Generating Public Entities (Slice)	585	657	655	511	520	549	553	522	695	826	704	622	595	545	616
14 Total Non-Gen. Public Entities (Slice)	585	657	655	511	520	549	553	522	695	826	704	622	595	545	616
Investor-Owned Entities															
15 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities															
17 Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Power Sales Contracts															
19 Federal Entities	120	138	150	152	147	135	120	120	116	117	127	129	129	116	131
20 U.S. Bureau of Reclamation	129	0	0	0	1	20	248	311	263	299	331	314	280	171	149
21 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Generating Public Entities	3,199	3,701	3,985	3,774	3,695	3,581	3,250	3,192	3,301	3,263	3,029	2,997	2,951	3,074	3,400
23 Non-Generating Public Entities	3,266	3,686	4,028	3,938	3,804	3,516	3,347	3,309	3,469	3,704	3,708	3,544	3,517	3,209	3,599
24 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Power Sales Contracts	6,713	7,526	8,163	7,865	7,647	7,252	6,965	6,931	7,149	7,383	7,196	6,983	6,877	6,571	7,279

Table A-22: BPA Power Sale Contracts
PNW Loads and Resource Study
2008 - 2009 Fiscal Years
1937 Water Year
[30] 2007 Initial Rate Case

9/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Federal Entities															
1 Federal Entities	130	150	163	165	159	146	130	129	125	126	137	139	139	126	141
2 Total Federal Entities	130	150	163	165	159	146	130	129	125	126	137	139	139	126	141
U.S. Bureau of Reclamation															
3 U.S. Bureau of Reclamation	129	0	0	0	1	20	248	311	263	299	331	314	280	171	149
4 Total U.S. Bureau of Reclamation	129	0	0	0	1	20	248	311	263	299	331	314	280	171	149
Direct Service Industry															
5 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Total Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Generating Public Entities															
7 Generating Public Entities	2,223	2,605	2,891	2,919	2,862	2,665	2,328	2,321	2,142	1,886	1,857	1,960	1,960	2,166	2,375
8 Total Generating Public Entities	2,223	2,605	2,891	2,919	2,862	2,665	2,328	2,321	2,142	1,886	1,857	1,960	1,960	2,166	2,375
Generating Public Entities (Slice)															
9 Generating Public Entities (Slice)	984	1,103	1,100	861	876	923	933	885	1,086	1,281	1,189	1,032	986	903	1,019
10 Total Generating Public Entities (Slice)	984	1,103	1,100	861	876	923	933	885	1,086	1,281	1,189	1,032	986	903	1,019
Non-Generating Public Entities															
11 Non-Generating Public Entities	2,702	3,054	3,401	3,456	3,348	2,992	2,817	2,809	2,796	2,901	3,028	2,945	2,945	2,686	3,010
12 Total Non-Generating Public Entities	2,702	3,054	3,401	3,456	3,348	2,992	2,817	2,809	2,796	2,901	3,028	2,945	2,945	2,686	3,010
Non-Generating Public Entities (Slice)															
13 Non-Generating Public Entities (Slice)	591	663	660	517	526	554	560	532	652	769	714	620	592	542	612
14 Total Non-Gen. Public Entities (Slice)	591	663	660	517	526	554	560	532	652	769	714	620	592	542	612
Investor-Owned Entities															
15 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities															
17 Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Power Sales Contracts															
19 Federal Entities	130	150	163	165	159	146	130	129	125	126	137	139	139	126	141
20 U.S. Bureau of Reclamation	129	0	0	0	1	20	248	311	263	299	331	314	280	171	149
21 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Generating Public Entities	3,207	3,709	3,991	3,780	3,738	3,588	3,261	3,206	3,228	3,167	3,046	2,992	2,946	3,068	3,394
23 Non-Generating Public Entities	3,293	3,716	4,062	3,973	3,874	3,546	3,378	3,341	3,448	3,670	3,742	3,565	3,537	3,228	3,622
24 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Power Sales Contracts	6,758	7,575	8,215	7,918	7,773	7,300	7,016	6,987	7,065	7,263	7,257	7,009	6,902	6,593	7,306

Table A-24: Federal Non Utility Generating Resources By Project
PNW Loads and Resource Study
2006 - 2007 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Federal Entities															
NUG: Hydro															
1 Dworshak/Clearwater Small Hydropower (	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2 Elwah Hydro (BPA)	4	10	11	12	9	9	17	17	9	8	5	8	8	2	9
3 Glines Hydro (BPA)	7	14	16	15	14	14	25	25	30	16	11	16	15	4	15
4 Federal -Total NUG: Hydro	13	26	30	29	26	25	45	45	41	27	19	27	25	9	26
NUG: Renewables															
5 Ashland Solar Project (BPA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Condon Wind Project (BPA)	11	13	12	10	9	15	9	9	9	8	8	7	7	8	10
7 Foote Creek 1 (BPA)	6	6	8	8	8	7	6	6	4	4	2	3	3	4	6
8 Foote Creek 2 (BPA)	0	1	1	1	1	1	1	1	1	1	0	0	0	0	1
9 Foote Creek 4 (BPA)	5	8	8	9	9	6	7	7	5	5	4	3	3	3	6
10 Fourmile Hill Geothermal (BPA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Klondike Phase 1 (BPA)	7	5	4	3	5	8	8	8	10	11	11	9	9	8	7
12 Stateline Wind Project (BPA)	20	21	18	15	12	35	25	24	25	25	24	22	21	21	22
13 White Bluffs Solar (BPA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Federal -Total NUG: Renewables	49	53	50	47	45	72	56	55	53	54	49	44	44	45	51
Total Non-Utility Generating Resources															
15 Federal System	62	79	80	76	70	97	100	100	95	81	68	71	69	53	78

Table A-24: Federal Non Utility Generating Resources By Project
PNW Loads and Resource Study
2007 - 2008 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Federal Entities															
NUG: Hydro															
1 Dworshak/Clearwater Small Hydropower (	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2 Elwah Hydro (BPA)	4	10	11	12	9	9	17	17	9	8	5	8	8	2	9
3 Glines Hydro (BPA)	7	14	16	15	13	14	25	25	30	16	11	16	15	4	15
4 Federal -Total NUG: Hydro	13	26	30	29	25	25	45	45	41	27	19	27	25	9	26
NUG: Renewables															
5 Ashland Solar Project (BPA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Condon Wind Project (BPA)	11	13	12	10	9	15	9	9	9	8	8	7	7	8	10
7 Foote Creek 1 (BPA)	6	6	8	8	8	7	6	6	4	4	2	3	3	4	6
8 Foote Creek 2 (BPA)	0	1	1	1	1	1	1	1	1	1	0	0	0	0	1
9 Foote Creek 4 (BPA)	5	8	8	9	9	6	7	7	5	5	4	3	3	3	6
10 Fourmile Hill Geothermal (BPA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Klondike Phase 1 (BPA)	7	5	4	3	5	8	8	8	10	11	11	9	9	8	7
12 Stateline Wind Project (BPA)	20	21	18	15	12	35	25	25	25	25	24	21	22	21	22
13 White Bluffs Solar (BPA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Federal -Total NUG: Renewables	49	53	50	47	45	72	55	56	53	54	49	44	44	45	51
Total Non-Utility Generating Resources															
15 Federal System	62	79	80	76	70	97	100	100	95	81	68	71	69	53	77

Table A-24: Federal Non Utility Generating Resources By Project
PNW Loads and Resource Study
2008 - 2009 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Energy in Megawatts	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
Federal Entities															
NUG: Hydro															
1 Dworshak/Clearwater Small Hydropower (	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2 Elwah Hydro (BPA)	4	10	11	12	9	9	17	17	9	8	5	8	8	2	9
3 Glines Hydro (BPA)	7	14	16	15	14	14	25	25	30	16	11	16	15	4	15
4 Federal -Total NUG: Hydro	13	26	30	29	26	25	45	45	41	27	19	27	25	9	26
NUG: Renewables															
5 Ashland Solar Project (BPA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Condon Wind Project (BPA)	11	13	12	10	9	15	9	9	9	8	8	7	7	8	10
7 Foote Creek 1 (BPA)	6	6	8	8	8	7	6	6	4	4	2	3	3	4	6
8 Foote Creek 2 (BPA)	0	1	1	1	1	1	1	1	1	1	0	0	0	0	1
9 Foote Creek 4 (BPA)	5	8	8	9	9	6	7	7	5	5	4	3	3	3	6
10 Fourmile Hill Geothermal (BPA)	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
11 Klondike Phase 1 (BPA)	7	5	4	3	5	8	8	8	10	11	11	9	9	8	7
12 Stateline Wind Project (BPA)	20	21	18	15	12	35	25	25	25	25	24	21	22	21	22
13 White Bluffs Solar (BPA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Federal -Total NUG: Renewables	99	103	100	97	95	122	105	105	103	104	99	94	94	94	101
Total Non-Utility Generating Resources															
15 Federal System	112	129	130	126	120	147	150	150	145	130	117	121	119	103	127

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HLH MWhs ANALYSIS

2.5 Federal Load Resource Study-HLH MWhs Analysis
Monthly HLH MWhs Energy
For FY 2007 through 2009

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Table A-2: Federal Exports
PNW Loads and Resource Study
2006 - 2007 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Exports East of Continental Divide															
1 BPA to Other Entities	36,632	37,804	43,968	43,839	39,317	38,416	15,285	15,285	31,411	31,283	37,189	18,010	19,211	31,226	438,877
2 Total Exports to ECD	36,632	37,804	43,968	43,839	39,317	38,416	15,285	15,285	31,411	31,283	37,189	18,010	19,211	31,226	438,877
Exports to Pacific Southwest															
3 BPA to BURB C/N/X	2,850	1,950	1,950	2,025	1,800	2,025	900	975	3,150	3,900	3,900	1,950	2,100	3,750	33,225
4 BPA to GLEN C/N/X	3,167	2,167	2,167	2,250	2,000	2,250	1,000	1,083	3,500	4,334	4,334	2,167	2,333	4,166	36,918
5 BPA to PASA C/N/X	1,900	1,300	1,300	1,350	1,200	1,350	600	650	2,100	2,600	2,600	1,300	1,400	2,500	22,150
6 BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	3,318	1,606	1,713	3,211	9,848
7 BPA to PASA S/N/X	0	0	0	0	0	0	0	0	1,659	1,606	0	0	0	0	3,265
8 BPA to RVSD CapS	0	3,520	3,360	3,680	3,200	3,520	1,613	1,747	5,290	0	0	0	0	0	25,930
9 BPA to RVSD C/N/X	5,060	0	0	0	0	0	0	0	0	4,830	5,060	2,547	2,743	4,600	24,840
10 BPA to RVSD C/N/X	7,920	1,980	1,890	2,070	1,800	2,070	900	990	0	0	7,920	3,960	4,320	7,200	43,020
11 BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	12,420	11,340	0	0	0	0	23,760
12 BPA NW-SW Intertie Losses	627	328	320	341	300	336	150	163	844	858	814	406	438	763	6,689
13 Total Exports To PSW	21,524	11,245	10,987	11,716	10,300	11,551	5,163	5,608	28,963	29,468	27,946	13,935	15,047	26,190	229,644
Exports to Inland Southwest															
14 BPA to SPP PwrS	18,720	18,000	18,000	18,720	17,280	19,440	14,400	15,600	31,200	31,200	30,000	15,600	16,800	28,800	293,760
15 Total Exports To ISW	18,720	18,000	18,000	18,720	17,280	19,440	14,400	15,600	31,200	31,200	30,000	15,600	16,800	28,800	293,760
Exports to Canada															
16 BPA to BCHP CanEnt	363,933	351,720	363,444	363,444	328,272	363,444	175,372	175,372	363,444	351,720	363,444	173,808	185,395	347,616	4,270,427
17 Total Exports To Canada	363,933	351,720	363,444	363,444	328,272	363,444	175,372	175,372	363,444	351,720	363,444	173,808	185,395	347,616	4,270,427
Exports to Other Entities															
18 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Exports															
19 Federal System	440,809	418,768	436,399	437,719	395,169	432,852	210,220	211,865	455,018	443,671	458,579	221,353	236,453	433,832	5,232,708

**Table A-2: Federal Exports
PNW Loads and Resource Study
2007 - 2008 Fiscal Years
[30] 2007 Initial Rate Case**

9/14/2005

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Exports East of Continental Divide															
1 BPA to Other Entities	37,957	39,186	45,574	45,451	40,764	39,835	15,853	15,853	32,533	32,390	38,551	18,649	19,892	32,406	454,893
2 Total Exports to ECD	37,957	39,186	45,574	45,451	40,764	39,835	15,853	15,853	32,533	32,390	38,551	18,649	19,892	32,406	454,893
Exports to Pacific Southwest															
3 BPA to BURB C/N/X	2,925	1,950	1,950	2,025	1,875	1,950	975	0	0	0	0	0	0	0	13,650
4 BPA to GLEN C/N/X	3,250	2,167	2,167	2,250	2,083	2,167	1,083	0	0	0	0	0	0	0	15,167
5 BPA to PASA C/N/X	1,950	1,300	1,300	1,350	1,250	1,300	650	0	0	0	0	0	0	0	9,100
6 BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	3,318	1,606	1,713	3,211	9,848
7 BPA to PASA S/N/X	0	0	0	0	0	0	0	0	1,659	1,606	0	0	0	0	3,265
8 BPA to RVSD CapS	0	3,520	3,360	3,680	3,360	3,360	1,760	1,760	5,060	0	0	0	0	0	25,860
9 BPA to RVSD C/N/X	5,290	0	0	0	0	0	0	0	0	4,830	5,290	2,415	2,415	5,060	25,300
10 BPA to RVSD C/N/X	8,280	1,980	1,890	2,070	1,800	1,890	990	990	0	0	8,280	3,960	3,600	7,920	43,650
11 BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	11,880	11,340	0	0	0	0	23,220
12 BPA NW-SW Intertie Losses	651	328	320	341	311	320	164	83	558	533	507	239	232	486	5,072
13 Total Exports To PSW	22,346	11,245	10,987	11,716	10,679	10,987	5,622	2,833	19,157	18,309	17,395	8,220	7,959	16,677	174,131
Exports to Inland Southwest															
14 BPA to SPP PwrS	19,440	18,000	18,000	18,720	18,000	18,720	15,600	15,600	31,200	30,000	31,200	15,600	15,600	30,000	295,680
15 Total Exports To ISW	19,440	18,000	18,000	18,720	18,000	18,720	15,600	15,600	31,200	30,000	31,200	15,600	15,600	30,000	295,680
Exports to Canada															
16 BPA to BCHP CanEnt	359,686	347,616	359,203	359,203	336,029	359,203	173,325	173,325	359,203	347,616	359,203	167,364	178,522	334,728	4,214,227
17 Total Exports To Canada	359,686	347,616	359,203	359,203	336,029	359,203	173,325	173,325	359,203	347,616	359,203	167,364	178,522	334,728	4,214,227
Exports to Other Entities															
18 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Exports															
19 Federal System	439,428	416,047	433,764	435,091	405,472	428,745	210,400	207,610	442,093	428,315	446,349	209,833	221,973	413,811	5,138,931

Table A-2: Federal Exports
PNW Loads and Resource Study
2008 - 2009 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Exports East of Continental Divide															
1 BPA to Other Entities	22,369	22,969	26,806	26,633	23,877	23,307	9,260	9,260	19,223	19,224	22,937	11,060	11,798	19,105	267,827
2 Total Exports to ECD	22,369	22,969	26,806	26,633	23,877	23,307	9,260	9,260	19,223	19,224	22,937	11,060	11,798	19,105	267,827
Exports to Pacific Southwest															
3 BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	3,318	1,606	1,713	3,211	9,848
4 BPA to PASA S/N/X	0	0	0	0	0	0	0	0	1,659	1,606	0	0	0	0	3,265
5 BPA to RVSD CapS	0	3,200	3,680	3,520	3,200	3,520	1,760	1,760	4,830	0	0	0	0	0	25,470
6 BPA to RVSD C/N/X	5,290	0	0	0	0	0	0	0	0	5,060	5,290	2,415	2,415	5,060	25,530
7 BPA to RVSD C/N/X	8,280	1,800	2,070	1,980	1,800	1,980	990	990	0	0	8,280	3,600	3,960	7,920	43,650
8 BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	11,340	11,880	0	0	0	0	23,220
9 BPA NW-SW Intertie Losses	407	150	173	165	150	165	83	83	535	556	507	229	243	486	3,929
10 Total Exports To PSW	13,977	5,150	5,923	5,665	5,150	5,665	2,833	2,833	18,364	19,102	17,395	7,849	8,330	16,677	134,912
Exports to Inland Southwest															
11 BPA to SPP PwrS	19,440	17,280	18,720	18,720	17,280	18,720	15,600	15,600	30,000	31,200	31,200	15,600	15,600	30,000	294,960
12 Total Exports To ISW	19,440	17,280	18,720	18,720	17,280	18,720	15,600	15,600	30,000	31,200	31,200	15,600	15,600	30,000	294,960
Exports to Canada															
13 BPA to BCHP CanEnt	346,351	334,728	345,886	345,886	312,413	345,886	166,899	166,899	345,886	334,728	345,886	204,156	217,766	408,312	4,221,680
14 Total Exports To Canada	346,351	334,728	345,886	345,886	312,413	345,886	166,899	166,899	345,886	334,728	345,886	204,156	217,766	408,312	4,221,680
Exports to Other Entities															
15 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Exports															
16 Federal System	402,137	380,127	397,334	396,904	358,720	393,578	194,591	194,591	413,472	404,254	417,417	238,665	253,494	474,094	4,919,379

Table A-5: Federal Imports
PNW Loads and Resource Study
2006 - 2007 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Imports From East of Continental Divide															
1 PPL To BPA PwrS	45,011	64,320	86,120	78,541	55,680	50,501	17,203	18,637	42	7,571	13,520	2,683	2,890	16,166	458,885
2 Total Imports From ECD	45,011	64,320	86,120	78,541	55,680	50,501	17,203	18,637	42	7,571	13,520	2,683	2,890	16,166	458,885
Imports From Pacific Southwest															
3 BURB To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 BURB To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 GLEN To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 GLEN To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 PASA To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 PASA To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 PASA To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PASA To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 PASA To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 RVSD To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 RVSD To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 RVSD To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RVSD To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 RVSD To BPA S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 RVSD To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Total Imports From PSW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Imports From Inland Southwest															
19 Other Entities To BPA	20,800	20,000	20,000	0	0	0	0	0	0	0	0	0	0	0	60,800
20 SPP To BPA PwrS	18,720	18,000	18,000	18,720	17,280	19,440	14,400	15,600	31,200	31,200	30,000	15,600	16,800	28,800	293,760
21 Total Imports From ISW	39,520	38,000	38,000	18,720	17,280	19,440	14,400	15,600	31,200	31,200	30,000	15,600	16,800	28,800	354,560
Imports From Canada															
22 BCHP To BPA PwrS	416	416	416	432	384	432	192	208	432	416	416	208	224	400	4,992
23 Total Imports From Canada	416	416	416	432	384	432	192	208	432	416	416	208	224	400	4,992
Imports From Other Entities															
24 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Imports															
25 Federal System	84,947	102,736	124,536	97,693	73,344	70,373	31,795	34,445	31,674	39,187	43,936	18,491	19,914	45,366	818,437

Table A-5: Federal Imports
PNW Loads and Resource Study
2007 - 2008 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Heavy Load Hours in MWHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Imports From East of Continental Divide															
1 PPL To BPA PwrS	46,742	64,320	86,120	78,541	58,000	48,630	18,637	18,637	42	7,280	14,061	2,683	2,683	16,840	463,216
2 Total Imports From ECD	46,742	64,320	86,120	78,541	58,000	48,630	18,637	18,637	42	7,280	14,061	2,683	2,683	16,840	463,216
Imports From Pacific Southwest															
3 BURB To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 BURB To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 GLEN To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 GLEN To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 PASA To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 PASA To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 PASA To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PASA To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 PASA To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 RVSD To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 RVSD To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 RVSD To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 RVSD To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 RVSD To BPA S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 RVSD To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Total Imports From PSW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Imports From Inland Southwest															
19 SPP To BPA PwrS	19,440	18,000	18,000	18,720	18,000	18,720	15,600	15,600	31,200	30,000	31,200	15,600	15,600	30,000	295,680
20 Total Imports From ISW	19,440	18,000	18,000	18,720	18,000	18,720	15,600	15,600	31,200	30,000	31,200	15,600	15,600	30,000	295,680
Imports From Canada															
21 BCHP To BPA PwrS	432	416	416	432	400	416	208	208	432	400	432	208	208	416	5,024
22 Total Imports From Canada	432	416	416	432	400	416	208	208	432	400	432	208	208	416	5,024
Imports From Other Entities															
23 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Imports															
24 Federal System	66,614	82,736	104,536	97,693	76,400	67,766	34,445	34,445	31,674	37,680	45,693	18,491	18,491	47,256	763,920

Table A-5: Federal Imports
PNW Loads and Resource Study
2008 - 2009 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Heavy Load Hours in MWHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Imports From East of Continental Divide															
1 PPL To BPA PwrS	46,742	61,747	89,565	78,541	55,680	48,630	18,637	18,637	40	7,571	14,061	2,683	2,683	16,840	462,058
2 Total Imports From ECD	46,742	61,747	89,565	78,541	55,680	48,630	18,637	18,637	40	7,571	14,061	2,683	2,683	16,840	462,058
Imports From Pacific Southwest															
3 PASA To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 PASA To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 PASA To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 RVSD To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 RVSD To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 RVSD To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 RVSD To BPA XchgNrg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 RVSD To BPA S/Pwr/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 RVSD To BPA PkRepl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 Total Imports From PSW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Imports From Inland Southwest															
13 SPP To BPA PwrS	19,440	17,280	18,720	18,720	17,280	18,720	15,600	15,600	30,000	31,200	31,200	15,600	15,600	30,000	294,960
14 Total Imports From ISW	19,440	17,280	18,720	18,720	17,280	18,720	15,600	15,600	30,000	31,200	31,200	15,600	15,600	30,000	294,960
Imports From Canada															
15 BCHP To BPA PwrS	432	400	432	432	384	416	208	208	416	416	432	208	208	416	5,008
16 Total Imports From Canada	432	400	432	432	384	416	208	208	416	416	432	208	208	416	5,008
Imports From Other Entities															
17 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Imports															
18 Federal System	66,614	79,427	108,717	97,693	73,344	67,766	34,445	34,445	30,456	39,187	45,693	18,491	18,491	47,256	762,026

Table A-8: Federal Renewable Resources
PNW Loads and Resource Study
2006 - 2007 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Federal System															
1 Georgia-Pacific Paper (Wauna)	11,648	11,600	12,400	13,312	11,904	13,392	5,760	6,240	11,232	11,232	10,800	5,616	6,048	10,368	141,552
2 Total Federal System	11,648	11,600	12,400	13,312	11,904	13,392	5,760	6,240	11,232	11,232	10,800	5,616	6,048	10,368	141,552
Renewable Resources															
3 Federal System	11,648	11,600	12,400	13,312	11,904	13,392	5,760	6,240	11,232	11,232	10,800	5,616	6,048	10,368	141,552

Table A-8: Federal Renewable Resources
PNW Loads and Resource Study
2007 - 2008 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Federal System															
1 Georgia-Pacific Paper (Wauna)	12,096	11,600	12,400	13,312	12,400	12,896	6,240	6,240	11,232	10,800	11,232	5,616	5,616	10,800	142,480
2 Total Federal System	12,096	11,600	12,400	13,312	12,400	12,896	6,240	6,240	11,232	10,800	11,232	5,616	5,616	10,800	142,480
Renewable Resources															
3 Federal System	12,096	11,600	12,400	13,312	12,400	12,896	6,240	6,240	11,232	10,800	11,232	5,616	5,616	10,800	142,480

Table A-8: Federal Renewable Resources
PNW Loads and Resource Study
2008 - 2009 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Federal System															
1 Georgia-Pacific Paper (Wauna)	12,096	11,136	12,896	13,312	11,904	12,896	6,240	6,240	10,800	11,232	11,232	5,616	5,616	10,800	142,016
2 Total Federal System	12,096	11,136	12,896	13,312	11,904	12,896	6,240	6,240	10,800	11,232	11,232	5,616	5,616	10,800	142,016
Renewable Resources															
3 Federal System	12,096	11,136	12,896	13,312	11,904	12,896	6,240	6,240	10,800	11,232	11,232	5,616	5,616	10,800	142,016

**Table A-10: Federal Large Thermal
PNW Loads and Resource Study
2006 - 2007 Fiscal Years
[30] 2007 Initial Rate Case**

9/14/2005

Heavy Load Hours in MWhr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Columbia Generating Station: Uranium															
1 BPA - Power Business	416,000	400,000	400,000	416,000	384,000	432,000	192,000	208,000	147,680	69,472	400,000	208,000	224,000	384,000	4,281,152
2 Columbia Generating Station: Regional Total	416,000	400,000	400,000	416,000	384,000	432,000	192,000	208,000	147,680	69,472	400,000	208,000	224,000	384,000	4,281,152
Total Large Thermal															
3 Federal System	416,000	400,000	400,000	416,000	384,000	432,000	192,000	208,000	147,680	69,472	400,000	208,000	224,000	384,000	4,281,152

**Table A-10: Federal Large Thermal
PNW Loads and Resource Study
2007 - 2008 Fiscal Years
[30] 2007 Initial Rate Case**

9/14/2005

Heavy Load Hours in MWhr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Columbia Generating Station: Uranium															
1 BPA - Power Business	432,000	400,000	400,000	416,000	400,000	416,000	208,000	208,000	416,000	400,000	416,000	208,000	208,000	400,000	4,928,000
2 Columbia Generating Station: Regional Total	432,000	400,000	400,000	416,000	400,000	416,000	208,000	208,000	416,000	400,000	416,000	208,000	208,000	400,000	4,928,000
Total Large Thermal															
3 Federal System	432,000	400,000	400,000	416,000	400,000	416,000	208,000	208,000	416,000	400,000	416,000	208,000	208,000	400,000	4,928,000

**Table A-10: Federal Large Thermal
PNW Loads and Resource Study
2008 - 2009 Fiscal Years
[30] 2007 Initial Rate Case**

9/14/2005

Heavy Load Hours in MWhr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Columbia Generating Station: Uranium															
1 BPA - Power Business	432,000	384,000	416,000	416,000	384,000	416,000	208,000	208,000	142,000	69,472	416,000	208,000	208,000	400,000	4,307,472
2 Columbia Generating Station: Regional Total	432,000	384,000	416,000	416,000	384,000	416,000	208,000	208,000	142,000	69,472	416,000	208,000	208,000	400,000	4,307,472
Total Large Thermal															
3 Federal System	432,000	384,000	416,000	416,000	384,000	416,000	208,000	208,000	142,000	69,472	416,000	208,000	208,000	400,000	4,307,472

Table A-15: Canadian Entitlement Return For Canada

PNW Loads and Resource Study

2006 - 2007 Fiscal Years

9/14/2005

[30] 2007 Initial Rate Case

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
BPA Canada															
1 BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Priest Rapids CER for Canada															
2 AVWP to BPA	620	599	619	619	559	619	291	291	602	583	602	291	311	583	7,189
3 COPD to BPA	203	196	203	203	183	203	95	95	197	191	197	95	102	191	2,354
4 CWPC to BPA	24	23	24	24	22	24	11	11	23	23	23	11	12	23	278
5 EWEB to BPA	172	167	172	172	156	172	81	81	168	162	168	81	86	162	2,000
6 FGRV to BPA	76	74	76	76	69	76	36	36	74	72	74	36	38	72	886
7 FREC to BPA	31	30	31	31	28	31	15	15	30	29	30	15	16	29	363
8 GCPD to BPA	13,841	13,377	13,823	13,823	12,485	13,823	6,488	6,488	13,445	13,012	13,445	6,506	6,940	13,012	160,508
9 ICLP to BPA	9	8	9	9	8	9	4	4	8	8	8	4	4	8	101
10 KITT to BPA	61	59	61	61	55	61	29	29	59	57	59	29	31	57	709
11 KOOT to BPA	41	40	41	41	37	41	19	19	40	39	40	19	21	39	481
12 LREC to BPA	7	7	7	7	6	7	3	3	7	6	7	3	3	6	78
13 LVE to BPA	55	53	55	55	49	55	26	26	53	51	53	26	27	51	635
14 MCMN to BPA	76	74	76	76	69	76	36	36	74	72	74	36	38	72	886
15 MTRF to BPA	76	74	76	76	69	76	36	36	74	72	74	36	38	72	886
16 NLEC to BPA	37	36	37	37	33	37	17	17	36	35	36	17	19	35	430
17 PGE to BPA	1,412	1,365	1,410	1,410	1,274	1,410	662	662	1,372	1,328	1,372	664	708	1,328	16,377
18 PPL to BPA	1,412	1,365	1,410	1,410	1,274	1,410	662	662	1,372	1,328	1,372	664	708	1,328	16,377
19 PSE to BPA	814	787	813	813	734	813	382	382	791	765	791	383	408	765	9,442
20 RREC to BPA	9	8	9	9	8	9	4	4	8	8	8	4	4	8	99
21 SCL to BPA	757	732	756	756	683	756	355	355	736	712	736	356	380	712	8,783
22 SLEC to BPA	7	7	7	7	7	7	3	3	7	7	7	4	4	7	87
23 TPU to BPA	757	732	756	756	683	756	355	355	736	712	736	356	380	712	8,783
24 UNEC to BPA	16	15	16	16	14	16	7	7	15	15	15	7	8	15	181
25 UNMKMT to BPA	1,310	1,266	1,308	1,308	1,181	1,308	614	614	1,272	1,231	1,272	616	657	1,231	15,188
26 Priest Rapids: Regional Totals	21,826	21,094	21,797	21,797	19,688	21,797	10,230	10,230	21,202	20,518	21,202	10,259	10,943	20,518	253,101

Table A-15: Canadian Entitlement Return For Canada

PNW Loads and Resource Study

2006 - 2007 Fiscal Years

9/14/2005

Continued

[30] 2007 Initial Rate Case

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Wanapum CER for Canada															
27 AVWP to BPA	1,711	1,653	1,708	1,708	1,543	1,708	801	801	1,659	1,606	1,659	803	856	1,606	19,823
28 COPD to BPA	563	544	562	562	508	562	264	264	546	529	546	264	282	529	6,527
29 CWPC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 EWEB to BPA	480	464	479	479	433	479	225	225	465	450	465	225	240	450	5,560
31 FGRV to BPA	146	141	146	146	132	146	68	68	142	137	142	69	73	137	1,692
32 FREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 GCPD to BPA	7,614	7,358	7,604	7,604	6,868	7,604	3,564	3,564	7,386	7,148	7,386	3,574	3,812	7,148	88,235
34 ICLP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 KITT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 KOOT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 LREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 LVE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 MCMN to BPA	146	141	146	146	132	146	68	68	142	137	142	69	73	137	1,692
40 MTFR to BPA	146	141	146	146	132	146	68	68	142	137	142	69	73	137	1,692
41 NLEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 PGE to BPA	3,901	3,770	3,896	3,896	3,519	3,896	1,826	1,826	3,784	3,662	3,784	1,831	1,953	3,662	45,205
43 PPL to BPA	3,901	3,770	3,896	3,896	3,519	3,896	1,826	1,826	3,784	3,662	3,784	1,831	1,953	3,662	45,205
44 PSE to BPA	2,253	2,177	2,250	2,250	2,032	2,250	1,055	1,055	2,186	2,115	2,186	1,058	1,128	2,115	26,108
45 RREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 SCL to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 SLEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 TPU to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 UNEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 UNKMKT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Wanapum: Regional Totals	20,860	20,160	20,832	20,832	18,816	20,832	9,765	9,765	20,237	19,584	20,237	9,792	10,445	19,584	241,740

Table A-15: Canadian Entitlement Return For Canada

PNW Loads and Resource Study

2006 - 2007 Fiscal Years

9/14/2005

[30] 2007 Initial Rate Case

Continued

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Rock Island P.H. #1 CER for Canada															
52 CHPD to BPA	4,023	3,888	4,018	4,018	3,629	4,018	1,885	1,885	3,906	3,780	3,906	1,890	2,016	3,780	46,640
53 PSE to BPA	4,023	3,888	4,018	4,018	3,629	4,018	1,885	1,885	3,906	3,780	3,906	1,890	2,016	3,780	46,640
54 Rock Is. P.H. #1: Reg. Totals	8,046	7,776	8,035	8,035	7,258	8,035	3,770	3,770	7,812	7,560	7,812	3,780	4,032	7,560	93,280
Rock Island P.H. #2 CER for Canada															
55 CHPD to BPA	2,571	2,485	2,568	2,568	2,319	2,568	1,204	1,204	2,495	2,415	2,495	1,207	1,288	2,415	29,804
56 PSE to BPA	2,571	2,485	2,568	2,568	2,319	2,568	1,204	1,204	2,495	2,415	2,495	1,207	1,288	2,415	29,804
57 Rock Is. P.H. #2: Reg. Totals	5,143	4,970	5,136	5,136	4,639	5,136	2,408	2,408	4,991	4,830	4,991	2,415	2,576	4,830	59,607
Rocky Reach CER for Canada															
58 AVWP to BPA	795	768	794	794	717	794	373	373	772	748	772	374	399	748	9,220
59 CHPD to BPA	4,140	4,001	4,134	4,134	3,734	4,134	1,941	1,941	4,022	3,892	4,022	1,946	2,076	3,892	48,009
60 CLKM to BPA	6,306	6,094	6,297	6,297	5,688	6,297	2,956	2,956	6,126	5,928	6,126	2,964	3,162	5,928	73,126
61 DOPD to BPA	740	715	739	739	668	739	347	347	719	696	719	348	371	696	8,584
62 PGE to BPA	3,317	3,206	3,313	3,313	2,992	3,313	1,555	1,555	3,223	3,119	3,223	1,559	1,663	3,119	38,471
63 PPL to BPA	1,453	1,404	1,451	1,451	1,311	1,451	681	681	1,412	1,366	1,412	683	729	1,366	16,851
64 PSE to BPA	10,665	10,307	10,651	10,651	9,620	10,651	5,000	5,000	10,361	10,027	10,361	5,013	5,348	10,027	123,679
65 Rocky Reach: Regional Totals	27,416	26,496	27,379	27,379	24,730	27,379	12,852	12,852	26,635	25,776	26,635	12,888	13,747	25,776	317,941
Wells CER for Canada															
66 AVWP to BPA	592	572	591	591	534	591	277	277	574	556	574	278	296	556	6,860
67 COLV to BPA	798	771	797	797	720	797	373	373	773	748	773	374	399	748	9,243
68 DOPD to BPA	5,080	4,909	5,073	5,073	4,582	5,073	2,376	2,376	4,924	4,765	4,924	2,383	2,541	4,765	58,845
69 OKPD to BPA	1,355	1,309	1,353	1,353	1,222	1,353	634	634	1,313	1,271	1,313	635	678	1,271	15,692
70 PGE to BPA	3,438	3,323	3,433	3,433	3,101	3,433	1,608	1,608	3,332	3,225	3,332	1,612	1,720	3,225	39,825
71 PPL to BPA	1,168	1,129	1,167	1,167	1,054	1,167	547	547	1,133	1,096	1,133	548	585	1,096	13,535
72 PSE to BPA	5,300	5,122	5,293	5,293	4,780	5,293	2,479	2,479	5,137	4,971	5,137	2,486	2,651	4,971	61,391
73 Wells: Regional Totals	17,731	17,136	17,707	17,707	15,994	17,707	8,293	8,293	17,186	16,632	17,186	8,316	8,870	16,632	205,391
Total CER For Canada															
74 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75 Public Entities	44,060	42,581	44,001	44,001	39,742	44,001	20,637	20,637	42,769	41,389	42,769	20,695	22,074	41,389	510,744
76 Investor-Owned Entities	49,347	47,691	49,281	49,281	44,512	49,281	23,111	23,111	47,896	46,351	47,896	23,175	24,720	46,351	572,003
77 Other Entities	7,615	7,360	7,605	7,605	6,869	7,605	3,570	3,570	7,398	7,160	7,398	3,580	3,818	7,160	88,314
78 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79 Total CER For Canada	101,022	97,632	100,886	100,886	91,123	100,886	47,318	47,318	98,063	94,900	98,063	47,450	50,613	94,900	1,171,061

Table A-15: Canadian Entitlement Return For Canada

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Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
BPA Canada															
1 BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Priest Rapids CER for Canada															
2 AVWP to BPA	603	583	602	602	563	602	286	286	594	575	594	287	306	575	7,059
3 COPD to BPA	197	191	197	197	184	197	94	94	194	188	194	94	100	188	2,312
4 CWPC to BPA	23	23	23	23	22	23	11	11	23	22	23	11	12	22	273
5 EWEB to BPA	168	162	168	168	157	168	80	80	165	160	165	80	85	160	1,964
6 FGRV to BPA	74	72	74	74	69	74	35	35	73	71	73	35	38	71	870
7 FREC to BPA	30	29	30	30	28	30	14	14	30	29	30	14	15	29	356
8 GCPD to BPA	13,464	13,012	13,445	13,445	12,578	13,445	6,397	6,397	13,257	12,829	13,257	6,415	6,842	12,829	157,612
9 ICPL to BPA	8	8	8	8	8	8	4	4	8	8	8	4	4	8	99
10 KITT to BPA	59	57	59	59	56	59	28	28	59	57	59	28	30	57	696
11 KOOT to BPA	40	39	40	40	38	40	19	19	40	38	40	19	21	38	472
12 LREC to BPA	7	6	7	7	6	7	3	3	6	6	6	3	3	6	77
13 LVE to BPA	53	51	53	53	50	53	25	25	52	51	52	25	27	51	623
14 MCMN to BPA	74	72	74	74	69	74	35	35	73	71	73	35	38	71	870
15 MTRF to BPA	74	72	74	74	69	74	35	35	73	71	73	35	38	71	870
16 NLEC to BPA	36	35	36	36	34	36	17	17	36	34	36	17	18	34	423
17 PGE to BPA	1,374	1,328	1,372	1,372	1,283	1,372	653	653	1,353	1,309	1,353	655	698	1,309	16,082
18 PPL to BPA	1,374	1,328	1,372	1,372	1,283	1,372	653	653	1,353	1,309	1,353	655	698	1,309	16,082
19 PSE to BPA	792	765	791	791	740	791	376	376	780	755	780	377	402	755	9,271
20 RREC to BPA	8	8	8	8	8	8	4	4	8	8	8	4	4	8	97
21 SCL to BPA	737	712	736	736	688	736	350	350	725	702	725	351	374	702	8,625
22 SLEC to BPA	7	7	7	7	7	7	3	3	7	7	7	3	4	7	85
23 TPU to BPA	737	712	736	736	688	736	350	350	725	702	725	351	374	702	8,625
24 UNEC to BPA	15	15	15	15	14	15	7	7	15	15	15	7	8	15	178
25 UNKMKT to BPA	1,274	1,231	1,272	1,272	1,190	1,272	605	605	1,254	1,214	1,254	607	647	1,214	14,914
26 Priest Rapids: Regional Totals	21,230	20,518	21,202	21,202	19,834	21,202	10,087	10,087	20,904	20,230	20,904	10,115	10,789	20,230	248,535

Table A-15: Canadian Entitlement Return For Canada

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[30] 2007 Initial Rate Case

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Wanapum CER for Canada															
27 AVWP to BPA	1,662	1,606	1,659	1,659	1,552	1,659	789	789	1,635	1,582	1,635	791	844	1,582	19,446
28 COPD to BPA	547	529	546	546	511	546	260	260	538	521	538	260	278	521	6,403
29 CWPC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 EWEB to BPA	466	450	465	465	435	465	221	221	459	444	459	222	237	444	5,454
31 FGRV to BPA	142	137	142	142	133	142	67	67	140	135	140	68	72	135	1,660
32 FREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 GCPD to BPA	7,396	7,148	7,386	7,386	6,910	7,386	3,512	3,512	7,278	7,043	7,278	3,522	3,756	7,043	86,557
34 ICLP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 KITT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 KOOT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 LREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 LVE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 MCMN to BPA	142	137	142	142	133	142	67	67	140	135	140	68	72	135	1,660
40 MTFR to BPA	142	137	142	142	133	142	67	67	140	135	140	68	72	135	1,660
41 NLEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 PGE to BPA	3,789	3,662	3,784	3,784	3,540	3,784	1,799	1,799	3,729	3,608	3,729	1,804	1,924	3,608	44,345
43 PPL to BPA	3,789	3,662	3,784	3,784	3,540	3,784	1,799	1,799	3,729	3,608	3,729	1,804	1,924	3,608	44,345
44 PSE to BPA	2,189	2,115	2,186	2,186	2,045	2,186	1,039	1,039	2,153	2,084	2,153	1,042	1,111	2,084	25,611
45 RREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 SCL to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 SLEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 TPU to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 UNEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 UNKMKT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Wanapum: Regional Totals	20,264	19,584	20,237	20,237	18,931	20,237	9,621	9,621	19,939	19,296	19,939	9,648	10,291	19,296	237,142

Table A-15: Canadian Entitlement Return For Canada

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[30] 2007 Initial Rate Case

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Rock Island P.H. #1 CER for Canada															
52 CHPD to BPA	3,911	3,780	3,906	3,906	3,654	3,906	1,867	1,867	3,869	3,744	3,869	1,872	1,997	3,744	45,891
53 PSE to BPA	3,911	3,780	3,906	3,906	3,654	3,906	1,867	1,867	3,869	3,744	3,869	1,872	1,997	3,744	45,891
54 Rock Is. P.H. #1: Reg. Totals	7,823	7,560	7,812	7,812	7,308	7,812	3,734	3,734	7,738	7,488	7,738	3,744	3,994	7,488	91,783
Rock Island P.H. #2 CER for Canada															
55 CHPD to BPA	2,499	2,415	2,495	2,495	2,334	2,495	1,190	1,190	2,466	2,387	2,466	1,193	1,273	2,387	29,287
56 PSE to BPA	2,499	2,415	2,495	2,495	2,334	2,495	1,190	1,190	2,466	2,387	2,466	1,193	1,273	2,387	29,287
57 Rock Is. P.H. #2: Reg. Totals	4,997	4,830	4,991	4,991	4,669	4,991	2,380	2,380	4,933	4,774	4,933	2,387	2,546	4,774	58,574
Rocky Reach CER for Canada															
58 AVWP to BPA	773	748	772	772	723	772	368	368	762	737	762	369	393	737	9,055
59 CHPD to BPA	4,027	3,892	4,022	4,022	3,762	4,022	1,914	1,914	3,966	3,838	3,966	1,919	2,047	3,838	47,148
60 CLKM to BPA	6,134	5,928	6,126	6,126	5,731	6,126	2,915	2,915	6,041	5,846	6,041	2,923	3,118	5,846	71,814
61 DOPD to BPA	720	696	719	719	673	719	342	342	709	686	709	343	366	686	8,430
62 PGE to BPA	3,227	3,119	3,223	3,223	3,015	3,223	1,533	1,533	3,178	3,075	3,178	1,538	1,640	3,075	37,781
63 PPL to BPA	1,414	1,366	1,412	1,412	1,321	1,412	672	672	1,392	1,347	1,392	674	718	1,347	16,549
64 PSE to BPA	10,375	10,027	10,361	10,361	9,693	10,361	4,930	4,930	10,216	9,887	10,216	4,943	5,273	9,887	121,460
65 Rocky Reach: Regional Totals	26,671	25,776	26,635	26,635	24,917	26,635	12,673	12,673	26,263	25,416	26,263	12,708	13,555	25,416	312,236
Wells CER for Canada															
66 AVWP to BPA	575	556	574	574	537	574	273	273	567	548	567	274	292	548	6,732
67 COLV to BPA	774	748	773	773	723	773	368	368	763	739	763	369	394	739	9,071
68 DOPD to BPA	4,931	4,765	4,924	4,924	4,606	4,924	2,345	2,345	4,860	4,703	4,860	2,352	2,508	4,703	57,750
69 OKPD to BPA	1,315	1,271	1,313	1,313	1,228	1,313	625	625	1,296	1,254	1,296	627	669	1,254	15,400
70 PGE to BPA	3,337	3,225	3,332	3,332	3,117	3,332	1,587	1,587	3,289	3,183	3,289	1,592	1,698	3,183	39,084
71 PPL to BPA	1,134	1,096	1,133	1,133	1,060	1,133	539	539	1,118	1,082	1,118	541	577	1,082	13,283
72 PSE to BPA	5,144	4,971	5,137	5,137	4,806	5,137	2,447	2,447	5,070	4,907	5,070	2,453	2,617	4,907	60,249
73 Wells: Regional Totals	17,210	16,632	17,186	17,186	16,078	17,186	8,185	8,185	16,963	16,416	16,963	8,208	8,755	16,416	201,570
Total CER For Canada															
74 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75 Public Entities	42,826	41,389	42,769	42,769	40,009	42,769	20,360	20,360	42,194	40,833	42,194	20,416	21,777	40,833	501,498
76 Investor-Owned Entities	47,960	46,351	47,896	47,896	44,806	47,896	22,800	22,800	47,251	45,727	47,251	22,864	24,388	45,727	561,614
77 Other Entities	7,408	7,160	7,398	7,398	6,921	7,398	3,520	3,520	7,295	7,060	7,295	3,530	3,765	7,060	86,728
78 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79 Total CER For Canada	98,195	94,900	98,063	98,063	91,736	98,063	46,680	46,680	96,740	93,620	96,740	46,810	49,930	93,620	1,149,839

Table A-15: Canadian Entitlement Return For Canada
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Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
BPA Canada															
1 BPA: Regional Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Priest Rapids CER for Canada															
2 AVWP to BPA	595	575	594	594	536	594	301	301	623	603	623	302	322	603	7,165
3 COPD to BPA	195	188	194	194	176	194	98	98	204	198	204	99	105	198	2,346
4 CWPC to BPA	23	22	23	23	21	23	12	12	24	23	24	12	12	23	278
5 EWEB to BPA	165	160	165	165	149	165	84	84	173	168	173	84	89	168	1,993
6 FGRV to BPA	73	71	73	73	66	73	37	37	77	74	77	37	40	74	883
7 FREC to BPA	30	29	30	30	27	30	15	15	31	30	31	15	16	30	362
8 GCPD to BPA	13,275	12,829	13,257	13,257	11,974	13,257	6,715	6,715	13,917	13,468	13,917	6,734	7,183	13,468	159,967
9 ICLP to BPA	8	8	8	8	8	8	4	4	9	8	9	4	5	8	101
10 KITT to BPA	59	57	59	59	53	59	30	30	61	59	61	30	32	59	706
11 KOOT to BPA	40	38	40	40	36	40	20	20	42	40	42	20	22	40	479
12 LREC to BPA	6	6	6	6	6	6	3	3	7	7	7	3	4	7	78
13 LVE to BPA	53	51	52	52	47	52	27	27	55	53	55	27	28	53	633
14 MCMN to BPA	73	71	73	73	66	73	37	37	77	74	77	37	40	74	883
15 MTRF to BPA	73	71	73	73	66	73	37	37	77	74	77	37	40	74	883
16 NLEC to BPA	36	34	36	36	32	36	18	18	37	36	37	18	19	36	429
17 PGE to BPA	1,354	1,309	1,353	1,353	1,222	1,353	685	685	1,420	1,374	1,420	687	733	1,374	16,322
18 PPL to BPA	1,354	1,309	1,353	1,353	1,222	1,353	685	685	1,420	1,374	1,420	687	733	1,374	16,322
19 PSE to BPA	781	755	780	780	704	780	395	395	819	792	819	396	423	792	9,410
20 RREC to BPA	8	8	8	8	7	8	4	4	9	8	9	4	4	8	99
21 SCL to BPA	726	702	725	725	655	725	367	367	762	737	762	369	393	737	8,754
22 SLEC to BPA	7	7	7	7	6	7	4	4	8	7	8	4	4	7	86
23 TPU to BPA	726	702	725	725	655	725	367	367	762	737	762	369	393	737	8,754
24 UNEC to BPA	15	15	15	15	14	15	8	8	16	15	16	8	8	15	181
25 UNKMKT to BPA	1,256	1,214	1,254	1,254	1,133	1,254	635	635	1,317	1,274	1,317	637	680	1,274	15,136
26 Priest Rapids: Regional Totals	20,932	20,230	20,904	20,904	18,881	20,904	10,589	10,589	21,946	21,238	21,946	10,619	11,327	21,238	252,249

Table A-15: Canadian Entitlement Return For Canada

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[30] 2007 Initial Rate Case

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Wanapum CER for Canada															
27 AVWP to BPA	1,637	1,582	1,635	1,635	1,477	1,635	830	830	1,720	1,665	1,720	832	888	1,665	19,753
28 COPD to BPA	539	521	538	538	486	538	273	273	566	548	566	274	292	548	6,504
29 CWPC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 EWEB to BPA	459	444	459	459	414	459	233	233	483	467	483	233	249	467	5,540
31 FGRV to BPA	140	135	140	140	126	140	71	71	147	142	147	71	76	142	1,686
32 FREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 GCPD to BPA	7,288	7,043	7,278	7,278	6,574	7,278	3,695	3,695	7,658	7,411	7,658	3,705	3,953	7,411	87,924
34 ICLP to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 KITT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 KOOT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 LREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 LVE to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 MCMN to BPA	140	135	140	140	126	140	71	71	147	142	147	71	76	142	1,686
40 MTFR to BPA	140	135	140	140	126	140	71	71	147	142	147	71	76	142	1,686
41 NLEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 PGE to BPA	3,734	3,608	3,729	3,729	3,368	3,729	1,893	1,893	3,923	3,797	3,923	1,898	2,025	3,797	45,046
43 PPL to BPA	3,734	3,608	3,729	3,729	3,368	3,729	1,893	1,893	3,923	3,797	3,923	1,898	2,025	3,797	45,046
44 PSE to BPA	2,156	2,084	2,153	2,153	1,945	2,153	1,093	1,093	2,266	2,193	2,266	1,096	1,170	2,193	26,016
45 RREC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 SCL to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 SLEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 TPU to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 UNEC to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 UNKMKT to BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 Wanapum: Regional Totals	19,966	19,296	19,939	19,939	18,010	19,939	10,124	10,124	20,981	20,304	20,981	10,152	10,829	20,304	240,887

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9/14/2005

Continued

[30] 2007 Initial Rate Case

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Rock Island P.H. #1 CER for Canada															
52 CHPD to BPA	3,874	3,744	3,869	3,869	3,494	3,869	1,957	1,957	4,055	3,924	4,055	1,962	2,093	3,924	46,644
53 PSE to BPA	3,874	3,744	3,869	3,869	3,494	3,869	1,957	1,957	4,055	3,924	4,055	1,962	2,093	3,924	46,644
54 Rock Is. P.H. #1: Reg. Totals	7,748	7,488	7,738	7,738	6,989	7,738	3,913	3,913	8,110	7,848	8,110	3,924	4,186	7,848	93,289
Rock Island P.H. #2 CER for Canada															
55 CHPD to BPA	2,470	2,387	2,466	2,466	2,228	2,466	1,253	1,253	2,597	2,513	2,597	1,256	1,340	2,513	29,804
56 PSE to BPA	2,470	2,387	2,466	2,466	2,228	2,466	1,253	1,253	2,597	2,513	2,597	1,256	1,340	2,513	29,804
57 Rock Is. P.H. #2: Reg. Totals	4,939	4,774	4,933	4,933	4,455	4,933	2,506	2,506	5,193	5,026	5,193	2,513	2,680	5,026	59,609
Rocky Reach CER for Canada															
58 AVWP to BPA	763	737	762	762	688	762	386	386	800	775	800	387	413	775	9,196
59 CHPD to BPA	3,971	3,838	3,966	3,966	3,582	3,966	2,011	2,011	4,168	4,034	4,168	2,017	2,151	4,034	47,881
60 CLKM to BPA	6,049	5,846	6,041	6,041	5,456	6,041	3,063	3,063	6,349	6,144	6,349	3,072	3,277	6,144	72,932
61 DOPD to BPA	710	686	709	709	640	709	360	360	745	721	745	361	385	721	8,562
62 PGE to BPA	3,182	3,075	3,178	3,178	2,870	3,178	1,612	1,612	3,340	3,232	3,340	1,616	1,724	3,232	38,368
63 PPL to BPA	1,394	1,347	1,392	1,392	1,257	1,392	706	706	1,463	1,416	1,463	708	755	1,416	16,806
64 PSE to BPA	10,230	9,887	10,216	10,216	9,228	10,216	5,181	5,181	10,737	10,391	10,737	5,195	5,542	10,391	123,350
65 Rocky Reach: Regional Totals	26,299	25,416	26,263	26,263	23,722	26,263	13,319	13,319	27,602	26,712	27,602	13,356	14,246	26,712	317,095
Wells CER for Canada															
66 AVWP to BPA	567	548	567	567	512	567	288	288	596	577	596	289	308	577	6,846
67 COLV to BPA	764	739	763	763	689	763	388	388	804	778	804	389	415	778	9,224
68 DOPD to BPA	4,866	4,703	4,860	4,860	4,390	4,860	2,468	2,468	5,116	4,951	5,116	2,475	2,640	4,951	58,725
69 OKPD to BPA	1,298	1,254	1,296	1,296	1,171	1,296	658	658	1,364	1,320	1,364	660	704	1,320	15,660
70 PGE to BPA	3,294	3,183	3,289	3,289	2,971	3,289	1,671	1,671	3,462	3,351	3,462	1,675	1,787	3,351	39,744
71 PPL to BPA	1,119	1,082	1,118	1,118	1,010	1,118	568	568	1,177	1,139	1,177	569	607	1,139	13,508
72 PSE to BPA	5,077	4,907	5,070	5,070	4,580	5,070	2,575	2,575	5,337	5,165	5,337	2,582	2,755	5,165	61,266
73 Wells: Regional Totals	16,986	16,416	16,963	16,963	15,322	16,963	8,616	8,616	17,856	17,280	17,856	8,640	9,216	17,280	204,973
Total CER For Canada															
74 Federal System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75 Public Entities	42,251	40,833	42,194	42,194	38,111	42,194	21,396	21,396	44,343	42,912	44,343	21,456	22,886	42,912	509,420
76 Investor-Owned Entities	47,315	45,727	47,251	47,251	42,679	47,251	23,972	23,972	49,680	48,077	49,680	24,039	25,641	48,077	570,612
77 Other Entities	7,305	7,060	7,295	7,295	6,589	7,295	3,699	3,699	7,665	7,418	7,665	3,709	3,956	7,418	88,068
78 Non-NW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79 Total CER For Canada	96,870	93,620	96,740	96,740	87,378	96,740	49,067	49,067	101,688	98,407	101,688	49,204	52,484	98,407	1,168,101

Table A-16: Federal Intra-Regional Transfers
PNW Loads and Resource Study
2006 - 2007 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Intra-Regional Transfers															
1 BPA To AVWP WP3Set	0	34,112	34,112	35,424	31,488	17,712	7,872	8,528	0	0	0	0	0	0	169,248
2 BPA To CCPD PwrS	7,072	6,800	6,800	7,072	6,528	7,344	3,264	3,536	7,072	7,072	6,800	3,536	3,808	6,528	83,232
3 BPA To PPL CapS	98,345	107,732	99,806	107,575	88,709	92,535	43,568	43,568	96,866	94,043	83,544	49,342	53,137	96,424	1,155,193
4 BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	14,444	13,441	0	0	0	27,885
5 BPA To PPL PwrS	45,011	64,320	86,120	78,541	55,680	50,501	17,203	18,637	42	7,571	13,520	2,683	2,890	16,166	458,885
6 BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 BPA To PSE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 BPA To PSE WP3Set	0	34,112	34,112	35,424	31,488	17,712	7,872	8,528	0	0	0	0	0	0	169,248
9 Other Entities To BPA	156,000	150,000	150,000	0	0	0	0	0	0	0	0	0	0	0	456,000
10 PPL To BPA PwrS	4,160	4,000	4,000	4,160	3,840	4,320	1,920	2,080	4,160	4,160	4,000	2,080	2,240	3,840	48,960
11 PPL To BPA PkRepl	8,122	27,537	21,018	13,841	22,112	25,333	5,643	5,621	10,345	12,088	26,146	14,806	16,136	15,653	224,402
12 PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 PPL To BPA S/Pwr/X	9,519	9,173	0	0	0	0	0	0	0	0	0	0	0	8,787	27,479
14 Total Contracts	328,229	437,787	435,968	282,037	239,845	215,456	87,342	90,497	118,484	139,378	147,451	72,447	78,211	147,399	2,820,532
Total Contracts Out															
15 Federal System	150,428	247,076	260,950	264,036	213,893	185,804	79,779	82,797	103,979	123,130	117,305	55,561	59,835	119,119	2,063,691
16 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Investor-Owned Entities	21,801	40,710	25,018	18,001	25,952	29,653	7,563	7,701	14,505	16,248	30,146	16,886	18,376	28,280	300,841
18 Other Entities	156,000	150,000	150,000	0	0	0	0	0	0	0	0	0	0	0	456,000
19 Total Contracts Out	328,229	437,787	435,968	282,037	239,845	215,456	87,342	90,497	118,484	139,378	147,451	72,447	78,211	147,399	2,820,532
Total Contracts In															
20 Federal System	177,801	190,710	175,018	18,001	25,952	29,653	7,563	7,701	14,505	16,248	30,146	16,886	18,376	28,280	756,841
21 Public Entities	7,072	6,800	6,800	7,072	6,528	7,344	3,264	3,536	7,072	7,072	6,800	3,536	3,808	6,528	83,232
22 Investor-Owned Entities	143,356	240,276	254,150	256,964	207,365	178,460	76,515	79,261	96,907	116,058	110,505	52,025	56,027	112,591	1,980,459
23 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Total Contracts In	328,229	437,787	435,968	282,037	239,845	215,456	87,342	90,497	118,484	139,378	147,451	72,447	78,211	147,399	2,820,532

Table A-16: Federal Intra-Regional Transfers
PNW Loads and Resource Study
2007 - 2008 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Intra-Regional Transfers															
1 BPA To AVWP WP3Set	0	34,112	34,112	35,424	32,800	17,056	8,528	8,528	0	0	0	0	0	0	170,560
2 BPA To CCPD PwrS	7,344	6,800	6,800	7,072	6,800	7,072	3,536	3,536	7,072	6,800	7,072	3,536	3,536	6,800	83,776
3 BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	13,889	13,978	0	0	0	27,867
4 BPA To PPL CapS	98,345	107,732	99,806	107,575	88,709	92,535	43,568	43,568	96,866	94,043	83,544	49,342	53,137	96,424	1,155,193
5 BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 BPA To PPL PwrS	46,742	64,320	86,120	78,541	58,000	48,630	18,637	18,637	42	7,280	14,061	2,683	2,683	16,840	463,216
7 BPA To PSE WP3Set	0	34,112	34,112	35,424	32,800	17,056	8,528	8,528	0	0	0	0	0	0	170,560
8 BPA To PSE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 PPL To BPA S/Pwr/X	9,886	9,153	0	0	0	0	0	0	0	0	0	0	0	9,153	28,192
10 PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 PPL To BPA PkRepl	8,122	27,537	21,018	13,841	22,112	25,333	5,643	5,621	10,345	12,088	26,146	14,806	16,136	15,653	224,402
12 PPL To BPA PwrS	4,320	4,000	4,000	4,160	4,000	4,160	2,080	2,080	4,160	4,000	4,160	2,080	2,080	4,000	49,280
13 Total Contracts	174,760	287,767	285,968	282,037	245,221	211,842	90,520	90,497	118,484	138,100	148,960	72,447	77,573	148,870	2,373,046
Total Contracts Out															
14 Federal System	152,432	247,076	260,950	264,036	219,109	182,349	82,797	82,797	103,979	122,012	118,655	55,561	59,357	120,064	2,071,172
15 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Investor-Owned Entities	22,328	40,690	25,018	18,001	26,112	29,493	7,723	7,701	14,505	16,088	30,306	16,886	18,216	28,806	301,874
17 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Total Contracts Out	174,760	287,767	285,968	282,037	245,221	211,842	90,520	90,497	118,484	138,100	148,960	72,447	77,573	148,870	2,373,046
Total Contracts In															
19 Federal System	22,328	40,690	25,018	18,001	26,112	29,493	7,723	7,701	14,505	16,088	30,306	16,886	18,216	28,806	301,874
20 Public Entities	7,344	6,800	6,800	7,072	6,800	7,072	3,536	3,536	7,072	6,800	7,072	3,536	3,536	6,800	83,776
21 Investor-Owned Entities	145,088	240,276	254,150	256,964	212,309	175,277	79,261	79,261	96,907	115,212	111,583	52,025	55,821	113,264	1,987,396
22 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Total Contracts In	174,760	287,767	285,968	282,037	245,221	211,842	90,520	90,497	118,484	138,100	148,960	72,447	77,573	148,870	2,373,046

Table A-16: Federal Intra-Regional Transfers
PNW Loads and Resource Study
2008 - 2009 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Intra-Regional Transfers															
1 BPA To AVWP WP3Set	0	32,800	35,424	35,424	31,488	17,056	8,528	8,528	0	0	0	0	0	0	169,248
2 BPA To CCPD PwrS	7,344	6,528	7,072	7,072	6,528	7,072	3,536	3,536	6,800	7,072	7,072	3,536	3,536	6,800	83,504
3 BPA To PPL CapS	98,345	107,732	99,806	107,575	88,709	92,535	43,568	43,568	96,866	94,043	83,544	49,342	53,137	96,424	1,155,193
4 BPA To PPL PwrS	46,742	61,747	89,565	78,541	55,680	48,630	18,637	18,637	40	7,571	14,061	2,683	2,683	16,840	462,058
5 BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	14,444	13,978	0	0	0	28,422
6 BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 BPA To PSE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 BPA To PSE WP3Set	0	32,800	35,424	35,424	31,488	17,056	8,528	8,528	0	0	0	0	0	0	169,248
9 PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PPL To BPA S/Pwr/X	9,886	8,787	0	0	0	0	0	0	0	0	0	0	0	9,153	27,826
11 PPL To BPA PwrS	4,320	3,840	4,160	4,160	3,840	4,160	2,080	2,080	4,000	1,920	0	0	0	0	34,560
12 PPL To BPA PkRepl	8,122	27,537	21,018	13,841	22,112	25,333	5,643	5,621	10,345	12,088	26,146	14,806	16,136	15,653	224,402
13 Total Contracts	174,760	281,772	292,469	282,037	239,845	211,842	90,520	90,497	118,050	137,138	144,800	70,367	75,493	144,870	2,354,460
Total Contracts Out															
14 Federal System	152,432	241,607	267,291	264,036	213,893	182,349	82,797	82,797	103,706	123,130	118,655	55,561	59,357	120,064	2,067,673
15 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Investor-Owned Entities	22,328	40,164	25,178	18,001	25,952	29,493	7,723	7,701	14,345	14,008	26,146	14,806	16,136	24,806	286,788
17 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Total Contracts Out	174,760	281,772	292,469	282,037	239,845	211,842	90,520	90,497	118,050	137,138	144,800	70,367	75,493	144,870	2,354,460
Total Contracts In															
19 Federal System	22,328	40,164	25,178	18,001	25,952	29,493	7,723	7,701	14,345	14,008	26,146	14,806	16,136	24,806	286,788
20 Public Entities	7,344	6,528	7,072	7,072	6,528	7,072	3,536	3,536	6,800	7,072	7,072	3,536	3,536	6,800	83,504
21 Investor-Owned Entities	145,088	235,079	260,219	256,964	207,365	175,277	79,261	79,261	96,906	116,058	111,583	52,025	55,821	113,264	1,984,169
22 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Total Contracts In	174,760	281,772	292,469	282,037	239,845	211,842	90,520	90,497	118,050	137,138	144,800	70,367	75,493	144,870	2,354,460

Table A-22: BPA Power Sale Contracts
PNW Loads and Resource Study
2006 - 2007 Fiscal Years
1937 Water Year
[30] 2007 Initial Rate Case

9/14/2005

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Federal Entities															
1 Federal Entities	51,247	55,253	60,899	63,340	56,040	57,690	24,523	24,516	48,939	49,782	53,283	27,504	29,337	46,535	648,887
2 Total Federal Entities	51,247	55,253	60,899	63,340	56,040	57,690	24,523	24,516	48,939	49,782	53,283	27,504	29,337	46,535	648,887
U.S. Bureau of Reclamation															
3 U.S. Bureau of Reclamation	54,323	54	59	58	359	8,847	48,372	64,996	110,481	125,776	135,438	65,747	63,058	67,296	744,864
4 Total U.S. Bur. of Reclamation	54,323	54	59	58	359	8,847	48,372	64,996	110,481	125,776	135,438	65,747	63,058	67,296	744,864
Direct Service Industry															
5 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Total Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Generating Public Entities															
7 Generating Public Entities	974,197	1,082,607	1,230,920	1,256,048	1,134,768	1,180,581	493,022	498,253	922,915	810,820	803,583	425,535	454,150	900,352	12,167,748
8 Total Generating Public Entities	974,197	1,082,607	1,230,920	1,256,048	1,134,768	1,180,581	493,022	498,253	922,915	810,820	803,583	425,535	454,150	900,352	12,167,748
Generating Public Entities (Slice)															
9 Generating Public Entities (Slice)	479,082	506,835	512,327	397,298	354,290	416,817	186,843	194,950	478,965	608,923	632,441	238,456	270,429	433,606	5,711,262
10 Total Gen. Pub. Entities (Slice)	479,082	506,835	512,327	397,298	354,290	416,817	186,843	194,950	478,965	608,923	632,441	238,456	270,429	433,606	5,711,262
Non-Generating Public Entities															
11 Non-Generating Public Entities	1,201,298	1,270,169	1,449,154	1,497,498	1,312,650	1,310,988	594,503	595,733	1,208,910	1,240,865	1,305,567	638,965	677,403	1,117,323	15,421,028
12 Total Non-Gen. Public Entities	1,201,298	1,270,169	1,449,154	1,497,498	1,312,650	1,310,988	594,503	595,733	1,208,910	1,240,865	1,305,567	638,965	677,403	1,117,323	15,421,028
Non-Generating Public Entities (Slice)															
13 Non-Gen. Public Entities (Slice)	287,664	304,329	307,627	238,557	212,734	250,278	112,190	117,058	287,595	365,628	379,749	143,181	162,379	260,359	3,429,326
14 Total Non-Gen. Pub. Ent. (Slice)	287,664	304,329	307,627	238,557	212,734	250,278	112,190	117,058	287,595	365,628	379,749	143,181	162,379	260,359	3,429,326
Investor-Owned Entities															
15 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities															
17 Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Power Sales Contracts															
19 Federal Entities	51,247	55,253	60,899	63,340	56,040	57,690	24,523	24,516	48,939	49,782	53,283	27,504	29,337	46,535	648,887
20 U.S. Bureau of Reclamation	54,323	54	59	58	359	8,847	48,372	64,996	110,481	125,776	135,438	65,747	63,058	67,296	744,864
21 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Generating Public Entities	1,453,278	1,589,442	1,743,247	1,653,345	1,489,059	1,597,398	679,865	693,202	1,401,880	1,419,743	1,436,024	663,991	724,579	1,333,958	17,879,010
23 Non-Generating Public Entities	1,488,963	1,574,498	1,756,780	1,736,056	1,525,384	1,561,266	706,692	712,791	1,496,504	1,606,493	1,685,317	782,145	839,782	1,377,682	18,850,354
24 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Power Sales Contracts	3,047,810	3,219,247	3,560,985	3,452,800	3,070,841	3,225,201	1,459,452	1,495,505	3,057,804	3,201,793	3,310,062	1,539,387	1,656,756	2,825,472	38,123,116

Table A-22: BPA Power Sale Contracts
PNW Loads and Resource Study
2007 - 2008 Fiscal Years
1937 Water Year
[30] 2007 Initial Rate Case

9/14/2005

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Federal Entities															
1 Federal Entities	54,432	57,794	63,761	66,284	59,511	59,432	26,038	26,038	51,083	51,201	56,475	28,328	30,230	49,430	680,036
2 Total Federal Entities	54,432	57,794	63,761	66,284	59,511	59,432	26,038	26,038	51,083	51,201	56,475	28,328	30,230	49,430	680,036
U.S. Bureau of Reclamation															
3 U.S. Bureau of Reclamation	56,019	54	59	58	370	8,687	51,827	64,949	110,481	122,256	139,182	65,938	59,715	69,219	748,814
4 Total U.S. Bur. of Reclamation	56,019	54	59	58	370	8,687	51,827	64,949	110,481	122,256	139,182	65,938	59,715	69,219	748,814
Direct Service Industry															
5 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Total Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Generating Public Entities															
7 Generating Public Entities	991,788	1,083,629	1,231,667	1,256,924	1,162,373	1,163,432	503,809	503,612	924,554	801,162	817,139	422,281	446,466	918,714	12,227,551
8 Total Generating Public Entities	991,788	1,083,629	1,231,667	1,256,924	1,162,373	1,163,432	503,809	503,612	924,554	801,162	817,139	422,281	446,466	918,714	12,227,551
Generating Public Entities (Slice)															
9 Generating Public Entities (Slice)	482,347	507,892	513,386	398,269	367,781	415,452	191,372	198,273	529,348	669,769	592,347	240,865	271,005	437,542	5,815,647
10 Total Gen. Public Entities (Slice)	482,347	507,892	513,386	398,269	367,781	415,452	191,372	198,273	529,348	669,769	592,347	240,865	271,005	437,542	5,815,647
Non-Generating Public Entities															
11 Non-Generating Public Entities	1,229,222	1,290,329	1,472,410	1,521,362	1,344,017	1,320,222	608,467	609,886	1,226,396	1,248,359	1,337,679	642,962	682,208	1,144,748	15,678,266
12 Total Non-Gen. Public Entities	1,229,222	1,290,329	1,472,410	1,521,362	1,344,017	1,320,222	608,467	609,886	1,226,396	1,248,359	1,337,679	642,962	682,208	1,144,748	15,678,266
Non-Generating Public Entities (Slice)															
13 Non-Gen. Public Entities (Slice)	289,625	304,963	308,262	239,141	220,834	249,458	114,909	119,053	317,847	402,163	355,675	144,627	162,725	262,722	3,492,004
14 Total Non-Gen. Pub. Ent. Slice)	289,625	304,963	308,262	239,141	220,834	249,458	114,909	119,053	317,847	402,163	355,675	144,627	162,725	262,722	3,492,004
Investor-Owned Entities															
15 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities															
17 Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Power Sales Contracts															
19 Federal Entities	54,432	57,794	63,761	66,284	59,511	59,432	26,038	26,038	51,083	51,201	56,475	28,328	30,230	49,430	680,036
20 U.S. Bureau of Reclamation	56,019	54	59	58	370	8,687	51,827	64,949	110,481	122,256	139,182	65,938	59,715	69,219	748,814
21 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Generating Public Entities	1,474,134	1,591,520	1,745,053	1,655,193	1,530,154	1,578,885	695,181	701,885	1,453,902	1,470,931	1,409,486	663,146	717,471	1,356,256	18,043,197
23 Non-Generating Public Entities	1,518,847	1,595,292	1,780,672	1,760,503	1,564,851	1,569,680	723,376	728,939	1,544,243	1,650,522	1,693,353	787,589	844,933	1,407,470	19,170,271
24 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Power Sales Contracts	3,103,432	3,244,660	3,589,544	3,482,037	3,154,886	3,216,685	1,496,422	1,521,811	3,159,709	3,294,910	3,298,497	1,545,002	1,652,350	2,882,375	38,642,318

**Table A-22: BPA Power Sale Contracts
PNW Loads and Resource Study
2008 - 2009 Fiscal Years
1937 Water Year
[30] 2007 Initial Rate Case**

9/14/2005

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Federal Entities															
1 Federal Entities	58,801	61,549	69,954	71,686	63,444	64,177	28,054	28,055	54,166	56,067	60,796	30,500	32,556	53,236	733,039
2 Total Federal Entities	58,801	61,549	69,954	71,686	63,444	64,177	28,054	28,055	54,166	56,067	60,796	30,500	32,556	53,236	733,039
U.S. Bureau of Reclamation															
3 U.S. Bureau of Reclamation	56,019	54	59	58	359	8,687	51,827	64,949	107,302	125,776	139,182	65,938	59,715	69,219	749,144
4 Total U.S. Bur. of Reclamation	56,019	54	59	58	359	8,687	51,827	64,949	107,302	125,776	139,182	65,938	59,715	69,219	749,144
Direct Service Industry															
5 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Total Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Generating Public Entities															
7 Generating Public Entities	991,054	1,063,958	1,250,350	1,255,506	1,134,055	1,162,156	503,406	503,213	911,909	812,334	817,171	422,090	446,367	918,313	12,191,882
8 Total Generating Public Entities	991,054	1,063,958	1,250,350	1,255,506	1,134,055	1,162,156	503,406	503,213	911,909	812,334	817,171	422,090	446,367	918,313	12,191,882
Generating Public Entities (Slice)															
9 Generating Public Entities (Slice)	487,225	509,933	520,657	402,998	359,450	420,162	194,555	202,349	500,461	633,804	601,449	238,026	267,766	431,327	5,770,161
10 Total Gen. Public Entities (Slice)	487,225	509,933	520,657	402,998	359,450	420,162	194,555	202,349	500,461	633,804	601,449	238,026	267,766	431,327	5,770,161
Non-Generating Public Entities															
11 Non-Generating Public Entities	1,239,318	1,289,428	1,498,481	1,534,494	1,344,287	1,331,483	613,501	614,936	1,225,599	1,269,490	1,348,987	648,364	688,135	1,154,369	15,800,873
12 Total Non-Gen. Public Entities	1,239,318	1,289,428	1,498,481	1,534,494	1,344,287	1,331,483	613,501	614,936	1,225,599	1,269,490	1,348,987	648,364	688,135	1,154,369	15,800,873
Non-Generating Public Entities (Slice)															
13 Non-Gen. Public Entities (Slice)	292,554	306,189	312,629	241,980	215,832	252,286	116,821	121,500	300,502	380,567	361,140	142,923	160,780	258,990	3,464,692
14 Total Non-Gen. Pub. Ent. (Slice)	292,554	306,189	312,629	241,980	215,832	252,286	116,821	121,500	300,502	380,567	361,140	142,923	160,780	258,990	3,464,692
Investor-Owned Entities															
15 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities															
17 Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Power Sales Contracts															
19 Federal Entities	58,801	61,549	69,954	71,686	63,444	64,177	28,054	28,055	54,166	56,067	60,796	30,500	32,556	53,236	733,039
20 U.S. Bureau of Reclamation	56,019	54	59	58	359	8,687	51,827	64,949	107,302	125,776	139,182	65,938	59,715	69,219	749,144
21 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Generating Public Entities	1,478,279	1,573,891	1,771,007	1,658,504	1,493,505	1,582,318	697,961	705,562	1,412,370	1,446,138	1,418,620	660,117	714,133	1,349,640	17,962,043
23 Non-Generating Public Entities	1,531,872	1,595,618	1,811,109	1,776,474	1,560,119	1,583,770	730,321	736,437	1,526,101	1,650,057	1,710,127	791,287	848,915	1,413,360	19,265,565
24 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Power Sales Contracts	3,124,970	3,231,112	3,652,129	3,506,722	3,117,427	3,238,952	1,508,163	1,535,002	3,099,939	3,278,037	3,328,725	1,547,842	1,655,318	2,885,455	38,709,792

Table A-24: Federal Non Utility Generating Resources By Project

PNW Loads and Resource Study

9/14/2005

2006 - 2007 Fiscal Years

[30] 2007 Initial Rate Case

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Federal Entities															
NUG: Hydro															
1 Dworshak/Clearwater Small Hydropower (	1,094	1,052	1,052	1,094	1,010	1,136	505	547	1,094	1,094	1,052	547	589	1,010	12,876
2 Elwah Hydro (BPA)	1,586	4,027	4,584	5,057	3,507	3,703	3,531	3,531	3,848	3,526	2,202	1,731	1,731	895	43,458
3 Glines Hydro (BPA)	2,864	6,028	6,726	6,314	5,379	5,638	5,285	5,285	12,801	6,452	4,317	3,367	3,367	1,533	75,355
4 Federal -Total NUG: Hydro	5,544	11,107	12,363	12,465	9,896	10,477	9,321	9,363	17,743	11,072	7,572	5,644	5,686	3,438	131,690
NUG: Renewables															
5 Ashland Solar Project (BPA)	1	1	0	1	1	1	1	1	2	2	2	1	1	2	15
6 Condon Wind Project (BPA)	4,542	5,071	5,071	4,473	3,182	6,371	1,881	2,038	3,746	3,343	3,317	1,521	1,639	3,432	49,627
7 Foote Creek 1 (BPA)	2,594	2,695	3,419	3,667	2,969	2,760	1,148	1,244	2,042	1,822	1,026	667	718	1,752	28,524
8 Foote Creek 2 (BPA)	190	294	304	556	423	278	203	219	235	250	172	57	61	136	3,378
9 Foote Creek 4 (BPA)	2,083	3,180	3,230	3,800	3,685	2,595	1,369	1,483	2,112	2,258	1,885	646	695	1,464	30,485
10 Fourmile Hill Geothermal (BPA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Klondike Phase 1 (BPA)	3,015	1,957	1,415	1,438	1,792	3,780	1,482	1,606	4,461	3,954	4,497	1,687	1,817	3,065	35,966
12 Stateline Wind Project (BPA)	7,826	8,420	6,971	6,482	3,608	14,324	4,227	4,580	9,102	7,911	7,706	3,338	3,594	7,621	95,708
13 White Bluffs Solar (BPA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Federal -Total NUG: Renewables	20,252	21,618	20,410	20,417	15,659	30,110	10,311	11,170	21,700	19,539	18,604	7,917	8,525	17,471	243,703
Total Non-Utility Generating Resources															
15 Federal System	25,795	32,725	32,773	32,882	25,555	40,587	19,631	20,533	39,443	30,611	26,176	13,561	14,211	20,909	375,393

Table A-24: Federal Non Utility Generating Resources By Project

PNW Loads and Resource Study

9/14/2005

2007 - 2008 Fiscal Years

[30] 2007 Initial Rate Case

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Federal Entities															
NUG: Hydro															
1 Dworshak/Clearwater Small Hydropower (	1,136	1,052	1,052	1,094	1,052	1,094	547	547	1,094	1,052	1,094	547	547	1,052	12,961
2 Elwah Hydro (BPA)	1,586	4,027	4,584	5,057	3,507	3,703	3,531	3,531	3,848	3,526	2,202	1,731	1,731	895	43,458
3 Glines Hydro (BPA)	2,864	6,028	6,726	6,314	5,379	5,638	5,285	5,285	12,801	6,452	4,317	3,367	3,367	1,533	75,355
4 Federal -Total NUG: Hydro	5,586	11,107	12,363	12,465	9,938	10,435	9,363	9,363	17,743	11,030	7,614	5,644	5,644	3,480	131,774
NUG: Renewables															
5 Ashland Solar Project (BPA)	1	1	0	1	1	1	1	1	2	2	2	1	1	2	15
6 Condon Wind Project (BPA)	4,542	5,071	5,071	4,473	3,296	6,371	1,960	1,960	3,746	3,343	3,317	1,580	1,580	3,432	49,742
7 Foote Creek 1 (BPA)	2,594	2,695	3,419	3,667	3,075	2,760	1,196	1,196	2,042	1,822	1,026	693	693	1,752	28,630
8 Foote Creek 2 (BPA)	190	294	304	556	438	278	211	211	235	250	172	59	59	136	3,393
9 Foote Creek 4 (BPA)	2,083	3,180	3,230	3,800	3,817	2,595	1,426	1,426	2,112	2,258	1,885	671	671	1,464	30,618
10 Fourmile Hill Geothermal (BPA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Klondike Phase 1 (BPA)	3,015	1,957	1,415	1,438	1,856	3,780	1,544	1,544	4,461	3,954	4,497	1,752	1,752	3,065	36,030
12 Stateline Wind Project (BPA)	7,826	8,420	6,971	6,482	3,736	14,324	4,403	4,403	9,102	7,911	7,706	3,466	3,466	7,621	95,837
13 White Bluffs Solar (BPA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Federal -Total NUG: Renewables	20,252	21,618	20,410	20,417	16,219	30,110	10,741	10,741	21,700	19,539	18,605	8,221	8,221	17,471	244,265
Total Non-Utility Generating Resources															
15 Federal System	25,837	32,725	32,773	32,882	26,157	40,545	20,104	20,104	39,443	30,569	26,218	13,866	13,866	20,951	376,039

Table A-24: Federal Non Utility Generating Resources By Project

PNW Loads and Resource Study

9/14/2005

2008 - 2009 Fiscal Years

[30] 2007 Initial Rate Case

Heavy Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Federal Entities															
NUG: Hydro															
1 Dworshak/Clearwater Small Hydropower (	1,136	1,010	1,094	1,094	1,010	1,094	547	547	1,052	1,094	1,094	547	547	1,052	12,919
2 Elwah Hydro (BPA)	1,586	4,027	4,584	5,057	3,507	3,703	3,531	3,531	3,848	3,526	2,202	1,731	1,731	895	43,458
3 Glines Hydro (BPA)	2,864	6,028	6,726	6,314	5,379	5,638	5,285	5,285	12,801	6,452	4,317	3,367	3,367	1,533	75,355
4 Federal -Total NUG: Hydro	5,586	11,065	12,405	12,465	9,896	10,435	9,363	9,363	17,701	11,072	7,614	5,644	5,644	3,480	131,732
NUG: Renewables															
5 Ashland Solar Project (BPA)	1	1	0	1	1	1	1	1	2	2	2	1	1	2	15
6 Condon Wind Project (BPA)	4,542	5,071	5,071	4,473	3,182	6,371	1,960	1,960	3,746	3,343	3,317	1,580	1,580	3,432	49,628
7 Foote Creek 1 (BPA)	2,594	2,695	3,419	3,667	2,969	2,760	1,196	1,196	2,042	1,822	1,026	693	693	1,752	28,524
8 Foote Creek 2 (BPA)	190	294	304	556	423	278	211	211	235	250	172	59	59	136	3,378
9 Foote Creek 4 (BPA)	2,083	3,180	3,230	3,800	3,685	2,595	1,426	1,426	2,112	2,258	1,885	671	671	1,464	30,486
10 Fourmile Hill Geothermal (BPA)	21,557	19,162	20,758	20,758	19,162	20,758	10,379	10,379	19,960	20,758	20,758	10,379	10,379	19,960	245,109
11 Klondike Phase 1 (BPA)	3,015	1,957	1,415	1,438	1,792	3,780	1,544	1,544	4,461	3,954	4,497	1,752	1,752	3,065	35,966
12 Stateline Wind Project (BPA)	7,826	8,420	6,971	6,482	3,608	14,324	4,403	4,403	9,102	7,911	7,706	3,466	3,466	7,621	95,708
13 White Bluffs Solar (BPA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Federal -Total NUG: Renewables	41,808	40,779	41,169	41,175	34,820	50,868	21,120	21,120	41,660	40,297	39,363	18,601	18,601	37,431	488,814
Total Non-Utility Generating Resources															
15 Federal System	47,394	51,845	53,574	53,640	44,716	61,304	30,483	30,483	59,361	51,369	46,977	24,245	24,245	40,911	620,546

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LLH MWhs ANALYSIS

2.6 Federal Load Resource Study-LLH MWhs Analysis
Monthly LLH MWhs Energy
For FY 2007 through 2009

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Table A-2: Federal Exports
PNW Loads and Resource Study
2006 - 2007 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Exports East of Continental Divide															
1 BPA to Other Entities	23,176	26,724	33,761	30,891	27,006	26,834	9,953	9,953	20,803	19,012	23,238	10,162	10,840	20,836	293,188
2 Total Exports to ECD	23,176	26,724	33,761	30,891	27,006	26,834	9,953	9,953	20,803	19,012	23,238	10,162	10,840	20,836	293,188
Exports to Pacific Southwest															
3 BPA to BURB C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 BPA to GLEN C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 BPA to PASA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 BPA to RVSD CapS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 BPA to RVSD C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 BPA to RVSD C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	6,768	7,344	0	0	0	0	14,112
12 BPA NW-SW Intertie Losses	0	0	0	0	0	0	0	0	203	220	0	0	0	0	423
13 Total Exports To PSW	0	0	0	0	0	0	0	0	6,971	7,564	0	0	0	0	14,535
Exports to Inland Southwest															
14 BPA to SPP PwrS	14,805	14,400	15,480	14,760	12,960	14,040	12,525	11,400	24,600	22,800	25,800	11,400	12,000	25,200	232,170
15 Total Exports To ISW	14,805	14,400	15,480	14,760	12,960	14,040	12,525	11,400	24,600	22,800	25,800	11,400	12,000	25,200	232,170
Exports to Canada															
16 BPA to BCHP CanEnt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Total Exports To Canada	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exports to Other Entities															
18 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Exports															
19 Federal Entities	37,981	41,124	49,241	45,651	39,966	40,874	22,478	21,353	52,374	49,376	49,038	21,562	22,840	46,036	539,893

Table A-2: Federal Exports
PNW Loads and Resource Study
2007 - 2008 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Exports East of Continental Divide															
1 BPA to Other Entities	24,014	27,695	34,988	32,023	27,996	27,817	10,321	10,321	21,546	19,685	23,993	10,524	11,225	21,537	303,685
2 Total Exports to ECD	24,014	27,695	34,988	32,023	27,996	27,817	10,321	10,321	21,546	19,685	23,993	10,524	11,225	21,537	303,685
Exports to Pacific Southwest															
3 BPA to BURB C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 BPA to GLEN C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 BPA to PASA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 BPA to RVSD CapS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 BPA to RVSD C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 BPA to RVSD C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	7,056	7,344	0	0	0	0	14,400
12 BPA NW-SW Intertie Losses	0	0	0	0	0	0	0	0	212	220	0	0	0	0	432
13 Total Exports To PSW	0	0	0	0	0	0	0	0	7,268	7,564	0	0	0	0	14,832
Exports to Inland Southwest															
14 BPA to SPP PwrS	14,085	14,400	15,480	14,760	13,320	14,760	11,325	11,400	24,600	24,000	24,600	11,400	13,200	24,000	231,330
15 Total Exports To ISW	14,085	14,400	15,480	14,760	13,320	14,760	11,325	11,400	24,600	24,000	24,600	11,400	13,200	24,000	231,330
Exports to Canada															
16 BPA to BCHP CanEnt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Total Exports To Canada	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exports to Other Entities															
18 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Exports															
19 Federal Entities	38,099	42,095	50,468	46,783	41,316	42,577	21,646	21,721	53,414	51,249	48,593	21,924	24,425	45,537	549,847

Table A-2: Federal Exports
PNW Loads and Resource Study
2008 - 2009 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Exports East of Continental Divide															
1 BPA to Other Entities	14,151	16,331	20,538	18,790	16,421	16,320	6,037	6,037	12,775	11,680	14,295	6,236	6,652	12,692	178,955
2 Total Exports to ECD	14,151	16,331	20,538	18,790	16,421	16,320	6,037	6,037	12,775	11,680	14,295	6,236	6,652	12,692	178,955
Exports to Pacific Southwest															
3 BPA to PASA C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 BPA to PASA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BPA to RVSD CapS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 BPA to RVSD C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 BPA to RVSD C/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 BPA to RVSD S/Pwr/X	0	0	0	0	0	0	0	0	7,344	7,056	0	0	0	0	14,400
9 BPA NW-SW Intertie Losses	0	0	0	0	0	0	0	0	220	212	0	0	0	0	432
10 Total Exports To PSW	0	0	0	0	0	0	0	0	7,564	7,268	0	0	0	0	14,832
Exports to Inland Southwest															
11 BPA to SPP PwrS	14,085	15,120	14,760	14,760	12,960	14,760	11,325	11,400	25,800	22,800	24,600	11,400	13,200	24,000	230,970
12 Total Exports To ISW	14,085	15,120	14,760	14,760	12,960	14,760	11,325	11,400	25,800	22,800	24,600	11,400	13,200	24,000	230,970
Exports to Canada															
13 BPA to BCHP CanEnt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Total Exports To Canada	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exports to Other Entities															
15 Total Exports To Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Exports															
16 Federal Entities	28,236	31,451	35,298	33,550	29,381	31,080	17,362	17,437	46,140	41,747	38,895	17,636	19,852	36,692	424,757

Table A-5: Federal Imports
PNW Loads and Resource Study
2006 - 2007 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Imports From East of Continental Divide															
1 PPL to BPA PwrS	35,598	51,456	74,063	61,926	41,760	36,473	14,963	13,619	33	5,533	11,627	1,961	2,064	14,146	365,222
2 Total Imports From ECD	35,598	51,456	74,063	61,926	41,760	36,473	14,963	13,619	33	5,533	11,627	1,961	2,064	14,146	365,222
Imports From Pacific Southwest															
3 BURB to BPA XchgNrg	1,941	2,695	3,752	3,752	3,389	3,752	1,439	1,309	1,938	1,876	1,938	944	994	1,876	31,595
4 BURB to BPA PkRepl	2,850	1,950	1,950	2,025	1,800	2,025	981	893	3,150	3,900	3,900	1,973	2,076	3,750	33,223
5 GLEN to BPA XchgNrg	2,157	2,994	4,170	4,170	3,766	4,170	2,062	992	2,154	2,084	2,154	1,049	1,105	2,084	35,111
6 GLEN to BPA PkRepl	3,167	2,167	2,167	2,250	2,000	2,250	1,090	993	3,500	4,334	4,334	2,192	2,308	4,166	36,918
7 PASA to BPA XchgNrg	1,294	1,797	2,501	2,501	2,259	2,501	1,238	595	1,292	1,251	1,292	629	663	1,251	21,064
8 PASA to BPA PkRepl	1,900	1,300	1,300	1,350	1,200	1,350	654	596	2,100	2,600	2,600	1,315	1,385	2,500	22,150
9 PASA to BPA XchgNrg	2,593	2,506	2,589	2,589	2,339	1,295	0	0	0	0	0	0	0	2,506	16,415
10 PASA to BPA S/N/X	514	497	513	513	464	238	0	0	0	0	0	0	0	497	3,236
11 PASA to BPA PkRepl	0	0	0	0	0	0	0	0	0	0	3,318	1,606	1,713	3,211	9,848
12 RVSD to BPA XchgNrg	4,451	4,113	4,438	4,221	3,896	4,221	2,259	0	0	0	0	0	0	0	27,599
13 RVSD to BPA PkRepl	0	3,520	3,360	3,680	3,200	3,520	1,759	1,601	5,290	0	0	0	0	0	25,930
14 RVSD to BPA PkRepl	5,060	0	0	0	0	0	0	0	0	4,830	5,060	2,577	2,713	4,600	24,840
15 RVSD to BPA XchgNrg	0	11,707	12,585	11,999	10,536	11,414	6,109	0	0	0	0	0	0	0	64,350
16 RVSD to BPA S/Pwr/X	0	6,936	7,456	7,109	6,242	6,762	3,620	0	0	0	0	0	0	0	38,125
17 RVSD to BPA PkRepl	7,920	1,980	1,890	2,070	1,800	2,070	989	901	0	0	7,920	4,034	4,246	7,200	43,020
18 Total Imports From PSW	33,847	44,161	48,671	48,229	42,890	45,568	22,200	7,880	19,424	20,875	32,516	16,319	17,202	33,641	433,424
Imports From Inland Southwest															
19 Other Entities to BPA	16,450	16,000	17,200	0	0	0	0	0	0	0	0	0	0	0	49,650
20 SPP to BPA PwrS	14,805	14,400	15,480	14,760	12,960	14,040	12,525	11,400	24,600	22,800	25,800	11,400	12,000	25,200	232,170
21 Total Imports From ISW	31,255	30,400	32,680	14,760	12,960	14,040	12,525	11,400	24,600	22,800	25,800	11,400	12,000	25,200	281,820
Imports From Canada															
22 BCHP to BPA PwrS	329	304	328	312	288	312	167	152	312	304	328	152	160	320	3,768
23 Total Imports From Canada	329	304	328	312	288	312	167	152	312	304	328	152	160	320	3,768
Imports From Other Entities															
24 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Imports															
25 Federal System	101,028	126,321	155,743	125,228	97,898	96,392	49,855	33,052	44,369	49,512	70,271	29,832	31,426	73,306	1,084,234

Table A-5: Federal Imports
PNW Loads and Resource Study
2007 - 2008 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Imports From East of Continental Divide															
1 PPL to BPA PwrS	33,867	51,456	74,063	61,926	42,920	38,343	13,530	13,619	33	5,824	11,086	1,961	2,270	13,472	364,371
2 Total Imports From ECD	33,867	51,456	74,063	61,926	42,920	38,343	13,530	13,619	33	5,824	11,086	1,961	2,270	13,472	364,371
Imports From Pacific Southwest															
3 BURB to BPA XchgNrg	1,936	2,685	3,735	3,735	3,494	3,735	1,803	0	0	0	0	0	0	0	21,123
4 BURB to BPA PkRepl	2,925	1,950	1,950	2,025	1,875	1,950	975	0	0	0	0	0	0	0	13,650
5 GLEN to BPA XchgNrg	2,151	2,983	4,150	4,150	3,882	4,150	2,002	0	0	0	0	0	0	0	23,468
6 GLEN to BPA PkRepl	3,250	2,167	2,167	2,250	2,083	2,167	1,083	0	0	0	0	0	0	0	15,167
7 PASA to BPA XchgNrg	1,291	1,790	2,490	2,490	2,330	2,490	1,202	0	0	0	0	0	0	0	14,083
8 PASA to BPA PkRepl	1,950	1,300	1,300	1,350	1,250	1,300	650	0	0	0	0	0	0	0	9,100
9 PASA to BPA XchgNrg	2,593	2,506	2,589	2,589	2,422	1,295	0	0	0	0	0	0	0	2,506	16,499
10 PASA to BPA S/N/X	514	497	513	513	480	238	0	0	0	0	0	0	0	497	3,253
11 PASA to BPA PkRepl	0	0	0	0	0	0	0	0	0	0	3,318	1,606	1,713	3,211	9,848
12 RVSD to BPA XchgNrg	4,251	4,129	4,455	4,238	4,020	4,455	2,051	0	0	0	0	0	0	0	27,599
13 RVSD to BPA PkRepl	0	3,520	3,360	3,680	3,360	3,360	1,754	1,766	5,060	0	0	0	0	0	25,860
14 RVSD to BPA PkRepl	5,290	0	0	0	0	0	0	0	0	4,830	5,290	2,238	2,592	5,060	25,300
15 RVSD to BPA XchgNrg	0	11,654	12,528	11,945	10,780	11,945	5,499	0	0	0	0	0	0	0	64,351
16 RVSD to BPA S/Pwr/X	0	6,859	7,373	7,030	6,344	7,030	3,236	0	0	0	0	0	0	0	37,872
17 RVSD to BPA PkRepl	8,280	1,980	1,890	2,070	1,800	1,890	987	993	0	0	8,280	3,503	4,057	7,920	43,650
18 Total Imports From PSW	34,431	44,019	48,500	48,065	44,120	46,005	21,242	2,759	5,060	4,830	16,888	7,347	8,362	19,194	350,822
Imports From Inland Southwest															
19 SPP to BPA PwrS	14,085	14,400	15,480	14,760	13,320	14,760	11,325	11,400	24,600	24,000	24,600	11,400	13,200	24,000	231,330
20 Total Imports From ISW	14,085	14,400	15,480	14,760	13,320	14,760	11,325	11,400	24,600	24,000	24,600	11,400	13,200	24,000	231,330
Imports From Canada															
21 BCHP to BPA PwrS	313	304	328	312	296	328	151	152	312	320	312	152	176	304	3,760
22 Total Imports From Canada	313	304	328	312	296	328	151	152	312	320	312	152	176	304	3,760
Imports From Other Entities															
23 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Imports															
24 Federal System	82,695	110,179	138,372	125,064	100,656	99,436	46,248	27,930	30,005	34,974	52,887	20,859	24,008	56,970	950,283

Table A-5: Federal Imports
PNW Loads and Resource Study
2008 - 2009 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Imports From East of Continental Divide															
1 PPL to BPA PwrS	33,867	54,029	70,618	61,926	41,760	38,343	13,530	13,619	34	5,533	11,086	1,961	2,270	13,472	362,049
2 Total Imports From ECD	33,867	54,029	70,618	61,926	41,760	38,343	13,530	13,619	34	5,533	11,086	1,961	2,270	13,472	362,049
Imports From Pacific Southwest															
3 PASA to BPA XchgNrg	2,593	2,506	2,589	2,589	2,339	1,295	0	0	0	0	0	0	0	2,506	16,415
4 PASA to BPA S/N/X	514	497	513	513	464	238	0	0	0	0	0	0	0	497	3,236
5 PASA to BPA PkRepl	0	0	0	0	0	0	0	0	0	0	3,318	1,606	1,713	3,211	9,848
6 RVSD to BPA XchgNrg	4,268	4,364	4,255	4,255	3,927	4,473	2,059	0	0	0	0	0	0	0	27,601
7 RVSD to BPA PkRepl	0	3,200	3,680	3,520	3,200	3,520	1,754	1,766	4,830	0	0	0	0	0	25,470
8 RVSD to BPA PkRepl	5,290	0	0	0	0	0	0	0	0	5,060	5,290	2,238	2,592	5,060	25,530
9 RVSD to BPA XchgNrg	0	12,292	11,999	11,999	10,536	11,999	5,524	0	0	0	0	0	0	0	64,349
10 RVSD to BPA S/Pwr/X	0	7,186	7,015	7,015	6,159	7,015	3,229	0	0	0	0	0	0	0	37,619
11 RVSD to BPA PkRepl	8,280	1,800	2,070	1,980	1,800	1,980	987	993	0	0	8,280	3,503	4,057	7,920	43,650
12 Total Imports From PSW	20,945	31,844	32,121	31,871	28,424	30,520	13,553	2,759	4,830	5,060	16,888	7,347	8,362	19,194	253,718
Imports From Inland Southwest															
13 SPP to BPA PwrS	14,085	15,120	14,760	14,760	12,960	14,760	11,325	11,400	25,800	22,800	24,600	11,400	13,200	24,000	230,970
14 Total Imports From ISW	14,085	15,120	14,760	14,760	12,960	14,760	11,325	11,400	25,800	22,800	24,600	11,400	13,200	24,000	230,970
Imports From Canada															
15 BCHP to BPA PwrS	313	320	312	312	288	328	151	152	328	304	312	152	176	304	3,752
16 Total Imports From Canada	313	320	312	312	288	328	151	152	328	304	312	152	176	304	3,752
Imports From Other Entities															
17 Total Imports From Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Imports															
18 Federal System	69,209	101,313	117,812	108,870	83,432	83,951	38,559	27,930	30,992	33,697	52,887	20,859	24,008	56,970	850,489

Table A-8: Federal Renewable Resources
PNW Loads and Resource Study
2006 - 2007 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Federal System															
1 Georgia-Pacific Paper (Wauna)	9,212	9,280	10,664	10,496	8,928	9,672	5,010	4,560	8,856	8,208	9,288	4,104	4,320	9,072	111,670
2 Total Federal System	9,212	9,280	10,664	10,496	8,928	9,672	5,010	4,560	8,856	8,208	9,288	4,104	4,320	9,072	111,670
Renewable Resources															
3 Federal System	9,212	9,280	10,664	10,496	8,928	9,672	5,010	4,560	8,856	8,208	9,288	4,104	4,320	9,072	111,670

Table A-8: Federal Renewable Resources
PNW Loads and Resource Study
2007 - 2008 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Federal System															
1 Georgia-Pacific Paper (Wauna)	8,764	9,280	10,664	10,496	9,176	10,168	4,530	4,560	8,856	8,640	8,856	4,104	4,752	8,640	111,486
2 Total Federal System	8,764	9,280	10,664	10,496	9,176	10,168	4,530	4,560	8,856	8,640	8,856	4,104	4,752	8,640	111,486
Renewable Resources															
3 Federal System	8,764	9,280	10,664	10,496	9,176	10,168	4,530	4,560	8,856	8,640	8,856	4,104	4,752	8,640	111,486

Table A-8: Federal Renewable Resources
PNW Loads and Resource Study
2008 - 2009 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Federal System															
1 Georgia-Pacific Paper (Wauna)	8,764	9,744	10,168	10,496	8,928	10,168	4,530	4,560	9,288	8,208	8,856	4,104	4,752	8,640	111,206
2 Total Federal System	8,764	9,744	10,168	10,496	8,928	10,168	4,530	4,560	9,288	8,208	8,856	4,104	4,752	8,640	111,206
Renewable Resources															
3 Federal System	8,764	9,744	10,168	10,496	8,928	10,168	4,530	4,560	9,288	8,208	8,856	4,104	4,752	8,640	111,206

**Table A-10: Federal Large Thermal
PNW Loads and Resource Study
2006 - 2007 Fiscal Years
[30] 2007 Initial Rate Case**

9/14/2005

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Columbia Generating Station: Uranium															
1 BPA - Power Business	329,000	320,000	344,000	328,000	288,000	312,000	167,000	152,000	116,440	50,768	344,000	152,000	160,000	336,000	3,399,208
2 Columbia Generating Station: Regional Total	329,000	320,000	344,000	328,000	288,000	312,000	167,000	152,000	116,440	50,768	344,000	152,000	160,000	336,000	3,399,208
Total Large Thermal															
3 Federal System	329,000	320,000	344,000	328,000	288,000	312,000	167,000	152,000	116,440	50,768	344,000	152,000	160,000	336,000	3,399,208

**Table A-10: Federal Large Thermal
PNW Loads and Resource Study
2007 - 2008 Fiscal Years
[30] 2007 Initial Rate Case**

9/14/2005

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Columbia Generating Station: Uranium															
1 BPA - Power Business	313,000	320,000	344,000	328,000	296,000	328,000	151,000	152,000	328,000	320,000	328,000	152,000	176,000	320,000	3,856,000
2 Columbia Generating Station: Regional Total	313,000	320,000	344,000	328,000	296,000	328,000	151,000	152,000	328,000	320,000	328,000	152,000	176,000	320,000	3,856,000
Total Large Thermal															
3 Federal System	313,000	320,000	344,000	328,000	296,000	328,000	151,000	152,000	328,000	320,000	328,000	152,000	176,000	320,000	3,856,000

**Table A-10: Federal Large Thermal
PNW Loads and Resource Study
2008 - 2009 Fiscal Years
[30] 2007 Initial Rate Case**

9/14/2005

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Columbia Generating Station: Uranium															
1 BPA - Power Business	313,000	336,000	328,000	328,000	288,000	328,000	151,000	152,000	122,120	50,768	328,000	152,000	176,000	320,000	3,372,888
2 Columbia Generating Station: Regional Total	313,000	336,000	328,000	328,000	288,000	328,000	151,000	152,000	122,120	50,768	328,000	152,000	176,000	320,000	3,372,888
Total Large Thermal															
3 Federal System	313,000	336,000	328,000	328,000	288,000	328,000	151,000	152,000	122,120	50,768	328,000	152,000	176,000	320,000	3,372,888

Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resource Study
2006 - 2007 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Light Load Hours in MWhr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
BPA Canada															
1 BPA: Regional Totals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Priest Rapids CER for Canada															
2 AVWP to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3 COPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4 CWPC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5 EWEB to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6 FGRV to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7 FREC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8 GCPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9 ICPL to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10 KITT to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11 KOOT to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12 LREC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13 LVE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14 MCMN to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15 MTRF to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16 NLEC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17 PGE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18 PPL to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19 PSE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20 RREC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21 SCL to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22 SLEC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23 TPU to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24 UNEC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25 UNKMKT to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26 Priest Rapids: Regional Totals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table A-15: Canadian Entitlement Return For Canada

PNW Loads and Resource Study

2006 - 2007 Fiscal Years

[30] 2007 Initial Rate Case

9/14/2005

Continued

Light Load Hours in MWhr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Wanapum CER for Canada															
27 AVWP to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28 COPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29 CWPC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30 EWEB to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31 FGRV to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32 FREC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33 GCPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34 ICLP to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35 KITT to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36 KOOT to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37 LREC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38 LVE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39 MCMN to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40 MTFR to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41 NLEC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42 PGE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43 PPL to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44 PSE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45 RREC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46 SCL to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47 SLEC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48 TPU to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49 UNEC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50 UNKMKT to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
51 Wanapum: Regional Totals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table A-15: Canadian Entitlement Return For Canada

PNW Loads and Resource Study

2006 - 2007 Fiscal Years

[30] 2007 Initial Rate Case

9/14/2005

Continued

Light Load Hours in MWhr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Rock Island P.H. #1 CER for Canada															
52 CHPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
53 PSE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
54 Rock Is. P.H. #1: Reg. Totals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rock Island P.H. #2 CER for Canada															
55 CHPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
56 PSE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57 Rock Is. P.H. #2: Reg. Totals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rocky Reach CER for Canada															
58 AVWP to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
59 CHPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60 CLKM to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
61 DOPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
62 PGE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
63 PPL to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
64 PSE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65 Rocky Reach: Regional Totals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wells CER for Canada															
66 AVWP to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67 COLV to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
68 DOPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
69 OKPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70 PGE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
71 PPL to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
72 PSE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73 Wells: Regional Totals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total CER For Canada															
74 Federal System	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75 Public Entities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
76 Investor-Owned Entities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77 Other Entities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
78 Non-NW Entities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
79 Total CER For Canada	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resource Study
2007 - 2008 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Light Load Hours in MWhr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
BPA Canada															
1 BPA: Regional Totals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Priest Rapids CER for Canada															
2 AVWP to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3 COPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4 CWPC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5 EWEB to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6 FGRV to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7 FREC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8 GCPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9 ICLP to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10 KITT to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11 KOOT to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12 LREC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13 LVE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14 MCMN to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15 MTRF to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16 NLEC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17 PGE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18 PPL to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19 PSE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20 RREC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21 SCL to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22 SLEC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23 TPU to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24 UNEC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25 UNKMKT to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26 Priest Rapids: Regional Totals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table A-15: Canadian Entitlement Return For Canada

PNW Loads and Resource Study

2007 - 2008 Fiscal Years

[30] 2007 Initial Rate Case

9/14/2005

Continued

Light Load Hours in MWhr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Wanapum CER for Canada															
27 AVWP to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28 COPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29 CWPC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30 EWEB to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31 FGRV to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32 FREC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33 GCPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34 ICLP to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35 KITT to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36 KOOT to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37 LREC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38 LVE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39 MCMN to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40 MTFR to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41 NLEC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42 PGE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43 PPL to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44 PSE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45 RREC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46 SCL to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47 SLEC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48 TPU to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49 UNEC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50 UNKMKT to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
51 Wanapum: Regional Totals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table A-15: Canadian Entitlement Return For Canada

PNW Loads and Resource Study

2007 - 2008 Fiscal Years

9/14/2005

Continued

[30] 2007 Initial Rate Case

Light Load Hours in MWhr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Rock Island P.H. #1 CER for Canada															
52 CHPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
53 PSE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
54 Rock Is. P.H. #1: Reg. Totals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rock Island P.H. #2 CER for Canada															
55 CHPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
56 PSE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57 Rock Is. P.H. #2: Reg. Totals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rocky Reach CER for Canada															
58 AVWP to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
59 CHPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60 CLKM to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
61 DOPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
62 PGE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
63 PPL to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
64 PSE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65 Rocky Reach: Regional Totals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wells CER for Canada															
66 AVWP to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67 COLV to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
68 DOPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
69 OKPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70 PGE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
71 PPL to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
72 PSE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73 Wells: Regional Totals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total CER For Canada															
74 Federal System	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75 Public Entities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
76 Investor-Owned Entities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77 Other Entities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
78 Non-NW Entities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
79 Total CER For Canada	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table A-15: Canadian Entitlement Return For Canada
PNW Loads and Resource Study
2008 - 2009 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Light Load Hours in MWhr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
BPA Canada															
1 BPA: Regional Totals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Priest Rapids CER for Canada															
2 AVWP to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3 COPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4 CWPC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5 EWEB to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6 FGRV to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7 FREC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8 GCPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9 ICLP to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10 KITT to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11 KOOT to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12 LREC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13 LVE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14 MCMN to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15 MTRF to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16 NLEC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17 PGE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18 PPL to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19 PSE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20 RREC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21 SCL to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22 SLEC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23 TPU to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24 UNEC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25 UNKMKT to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26 Priest Rapids: Regional Totals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table A-15: Canadian Entitlement Return For Canada

PNW Loads and Resource Study

2008 - 2009 Fiscal Years

[30] 2007 Initial Rate Case

9/14/2005

Continued

Light Load Hours in MWhr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Wanapum CER for Canada															
27 AVWP to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28 COPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29 CWPC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30 EWEB to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31 FGRV to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32 FREC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33 GCPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34 ICLP to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35 KITT to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36 KOOT to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37 LREC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38 LVE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39 MCMN to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40 MTFR to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41 NLEC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42 PGE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43 PPL to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44 PSE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45 RREC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46 SCL to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47 SLEC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48 TPU to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49 UNEC to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50 UNKMKT to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
51 Wanapum: Regional Totals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table A-15: Canadian Entitlement Return For Canada

PNW Loads and Resource Study

2008 - 2009 Fiscal Years

[30] 2007 Initial Rate Case

9/14/2005

Continued

Light Load Hours in MWhr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Rock Island P.H. #1 CER for Canada															
52 CHPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
53 PSE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
54 Rock Is. P.H. #1: Reg. Totals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rock Island P.H. #2 CER for Canada															
55 CHPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
56 PSE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57 Rock Is. P.H. #2: Reg. Totals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rocky Reach CER for Canada															
58 AVWP to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
59 CHPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60 CLKM to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
61 DOPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
62 PGE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
63 PPL to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
64 PSE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65 Rocky Reach: Regional Totals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wells CER for Canada															
66 AVWP to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67 COLV to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
68 DOPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
69 OKPD to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70 PGE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
71 PPL to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
72 PSE to BPA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73 Wells: Regional Totals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total CER For Canada															
74 Federal System	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75 Public Entities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
76 Investor-Owned Entities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77 Other Entities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
78 Non-NW Entities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
79 Total CER For Canada	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table A-16: Federal Intra-Regional Transfers
PNW Loads and Resource Study
2006 - 2007 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Intra-Regional Transfers															
1 BPA To AVWP WP3Set	0	38,680	41,106	39,794	36,451	19,414	10,103	9,196	0	0	0	0	0	0	194,744
2 BPA To CCPD PwrS	5,593	5,440	5,848	5,576	4,896	5,304	2,839	2,584	5,576	5,168	5,848	2,584	2,720	5,712	65,688
3 BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	10,556	11,559	0	0	0	22,115
4 BPA To PPL PwrS	35,598	51,456	74,063	61,926	41,760	36,473	14,963	13,619	33	5,533	11,627	1,961	2,064	14,146	365,222
5 BPA To PPL CapS	37,759	56,976	39,677	49,775	45,234	39,422	18,521	18,643	27,231	31,283	34,621	16,819	17,704	43,279	476,943
6 BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 BPA To PSE WP3Set	0	38,680	41,106	39,794	36,451	19,414	10,103	9,196	0	0	0	0	0	0	194,744
8 BPA To PSE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 Other Entities To BPA	123,375	120,000	128,200	0	0	0	0	0	0	0	0	0	0	0	371,575
10 PPL To BPA PwrS	3,290	3,200	3,440	3,280	2,880	3,120	1,670	1,520	3,280	3,040	3,440	1,520	1,600	3,360	38,640
11 PPL To BPA S/Pwr/X	7,529	7,323	0	0	0	0	0	0	0	0	0	0	0	7,689	22,541
12 PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 PPL To BPA PkRepl	127,982	137,171	118,465	143,510	111,830	106,624	56,445	56,590	113,752	113,237	92,019	51,355	54,705	124,050	1,407,735
14 Total Contracts	341,126	458,926	451,905	343,655	279,502	229,772	114,644	111,349	149,871	168,816	159,115	74,239	78,794	198,236	3,159,947
Total Contracts Out															
15 Federal System	78,950	191,232	201,800	196,866	164,792	120,027	56,529	53,239	32,839	52,539	63,655	21,364	22,488	63,136	1,319,456
16 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Investor-Owned Entities	138,801	147,694	121,905	146,790	114,710	109,744	58,115	58,110	117,032	116,277	95,459	52,875	56,305	135,099	1,468,916
18 Other Entities	123,375	120,000	128,200	0	0	0	0	0	0	0	0	0	0	0	371,575
19 Total Contracts Out	341,126	458,926	451,905	343,655	279,502	229,772	114,644	111,349	149,871	168,816	159,115	74,239	78,794	198,236	3,159,947
Total Contracts In															
20 Federal System	262,176	267,694	250,105	146,790	114,710	109,744	58,115	58,110	117,032	116,277	95,459	52,875	56,305	135,099	1,840,491
21 Public Entities	5,593	5,440	5,848	5,576	4,896	5,304	2,839	2,584	5,576	5,168	5,848	2,584	2,720	5,712	65,688
22 Investor-Owned Entities	73,357	185,792	195,952	191,290	159,896	114,723	53,690	50,655	27,263	47,371	57,807	18,780	19,768	57,424	1,253,768
23 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Total Contracts In	341,126	458,926	451,905	343,655	279,502	229,772	114,644	111,349	149,871	168,816	159,115	74,239	78,794	198,236	3,159,947

Table A-16: Federal Intra-Regional Transfers
PNW Loads and Resource Study
2007 - 2008 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Light Load Hours in Mwhr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Intra-Regional Transfers															
1 BPA To AVWP WP3Set	0	38,680	41,106	39,794	37,566	20,070	9,291	9,352	0	0	0	0	0	0	195,859
2 BPA To CCPD PwrS	5,321	5,440	5,848	5,576	5,032	5,576	2,567	2,584	5,576	5,440	5,576	2,584	2,992	5,440	65,552
3 BPA To PPL CapS	37,759	56,976	39,677	49,775	45,234	39,422	18,521	18,643	27,231	31,283	34,621	16,819	17,704	43,279	476,943
4 BPA To PPL PwrS	33,867	51,456	74,063	61,926	42,920	38,343	13,530	13,619	33	5,824	11,086	1,961	2,270	13,472	364,371
5 BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	11,111	11,022	0	0	0	22,133
7 BPA To PSE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 BPA To PSE WP3Set	0	38,680	41,106	39,794	37,566	20,070	9,291	9,352	0	0	0	0	0	0	195,859
9 PPL To BPA PwrS	3,130	3,200	3,440	3,280	2,960	3,280	1,510	1,520	3,280	3,200	3,280	1,520	1,760	3,200	38,560
10 PPL To BPA PkRepl	127,982	137,171	118,465	143,510	111,830	106,624	56,445	56,590	113,752	113,237	92,019	51,355	54,705	124,050	1,407,735
11 PPL To BPA S/Pwr/X	7,162	7,323	0	0	0	0	0	0	0	0	0	0	0	7,323	21,808
12 PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 Total Contracts	215,220	338,926	323,705	343,655	283,108	233,386	111,154	111,661	149,871	170,095	157,605	74,239	79,432	196,764	2,788,820
Total Contracts Out															
14 Federal System	76,946	191,232	201,800	196,866	168,318	123,482	53,199	53,551	32,839	53,658	62,306	21,364	22,967	62,191	1,320,717
15 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Investor-Owned Entities	138,274	147,694	121,905	146,790	114,790	109,904	57,955	58,110	117,032	116,437	95,299	52,875	56,465	134,573	1,468,103
17 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Total Contracts Out	215,220	338,926	323,705	343,655	283,108	233,386	111,154	111,661	149,871	170,095	157,605	74,239	79,432	196,764	2,788,820
Total Contracts In															
19 Federal System	138,274	147,694	121,905	146,790	114,790	109,904	57,955	58,110	117,032	116,437	95,299	52,875	56,465	134,573	1,468,103
20 Public Entities	5,321	5,440	5,848	5,576	5,032	5,576	2,567	2,584	5,576	5,440	5,576	2,584	2,992	5,440	65,552
21 Investor-Owned Entities	71,625	185,792	195,952	191,290	163,286	117,906	50,632	50,967	27,263	48,218	56,730	18,780	19,975	56,751	1,255,165
22 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Total Contracts In	215,220	338,926	323,705	343,655	283,108	233,386	111,154	111,661	149,871	170,095	157,605	74,239	79,432	196,764	2,788,820

Table A-16: Federal Intra-Regional Transfers
PNW Loads and Resource Study
2008 - 2009 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Light Load Hours in Mwhr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Intra-Regional Transfers															
1 BPA To AVWP WP3Set	0	39,992	39,794	39,794	36,451	20,070	9,291	9,352	0	0	0	0	0	0	194,744
2 BPA To CCPD PwrS	5,321	5,712	5,576	5,576	4,896	5,576	2,567	2,584	5,848	5,168	5,576	2,584	2,992	5,440	65,416
3 BPA To PPL CapS	37,759	56,976	39,677	49,775	45,234	39,422	18,521	18,643	27,231	31,283	34,621	16,819	17,704	43,279	476,943
4 BPA To PPL S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BPA To PPL S/Pwr/X	0	0	0	0	0	0	0	0	0	10,556	11,022	0	0	0	21,578
6 BPA To PPL PwrS	33,867	54,029	70,618	61,926	41,760	38,343	13,530	13,619	34	5,533	11,086	1,961	2,270	13,472	362,049
7 BPA To PSE WP3Set	0	39,992	39,794	39,794	36,451	20,070	9,291	9,352	0	0	0	0	0	0	194,744
8 BPA To PSE PwrS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 PPL To BPA PwrS	3,130	3,360	3,280	3,280	2,880	3,280	1,510	1,520	3,440	1,440	0	0	0	0	27,120
10 PPL To BPA S/Pwr/X	7,162	7,689	0	0	0	0	0	0	0	0	0	0	0	7,323	22,174
11 PPL To BPA S/N/X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 PPL To BPA PkRepl	127,982	137,171	118,465	143,510	111,830	106,624	56,445	56,590	113,752	113,237	92,019	51,355	54,705	124,050	1,407,735
13 Total Contracts	215,220	344,920	317,204	343,655	279,502	233,386	111,154	111,661	150,305	167,216	154,325	72,719	77,672	193,564	2,772,503
Total Contracts Out															
14 Federal System	76,946	196,701	195,459	196,866	164,792	123,482	53,199	53,551	33,113	52,539	62,306	21,364	22,967	62,191	1,315,474
15 Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Investor-Owned Entities	138,274	148,220	121,745	146,790	114,710	109,904	57,955	58,110	117,192	114,677	92,019	51,355	54,705	131,373	1,457,029
17 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Total Contracts Out	215,220	344,920	317,204	343,655	279,502	233,386	111,154	111,661	150,305	167,216	154,325	72,719	77,672	193,564	2,772,503
Total Contracts In															
19 Federal System	138,274	148,220	121,745	146,790	114,710	109,904	57,955	58,110	117,192	114,677	92,019	51,355	54,705	131,373	1,457,029
20 Public Entities	5,321	5,712	5,576	5,576	4,896	5,576	2,567	2,584	5,848	5,168	5,576	2,584	2,992	5,440	65,416
21 Investor-Owned Entities	71,625	190,989	189,883	191,290	159,896	117,906	50,632	50,967	27,265	47,371	56,730	18,780	19,975	56,751	1,250,058
22 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Total Contracts In	215,220	344,920	317,204	343,655	279,502	233,386	111,154	111,661	150,305	167,216	154,325	72,719	77,672	193,564	2,772,503

Table A-22: BPA Power Sale Contracts
PNW Loads and Resource Study
2006 - 2007 Fiscal Years
1937 Water Year
[30] 2007 Initial Rate Case

9/14/2005

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Federal Entities															
1 Federal Entities	33,919	39,701	45,560	44,958	38,023	37,930	16,610	16,617	33,373	30,886	37,366	16,851	17,976	33,647	443,417
2 Total Federal Entities	33,919	39,701	45,560	44,958	38,023	37,930	16,610	16,617	33,373	30,886	37,366	16,851	17,976	33,647	443,417
U.S. Bureau of Reclamation															
3 U.S. Bureau of Reclamation	41,664	44	48	47	243	6,108	40,540	46,866	85,274	89,765	111,187	47,140	44,300	56,047	569,274
4 Total U.S. Bureau of Reclamation	41,664	44	48	47	243	6,108	40,540	46,866	85,274	89,765	111,187	47,140	44,300	56,047	569,274
Direct Service Industry															
5 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Total Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Generating Public Entities															
7 Generating Public Entities	682,023	794,601	923,000	918,596	790,878	804,402	342,972	337,753	671,021	545,735	576,207	279,604	297,999	658,527	8,623,316
8 Total Generating Public Entities	682,023	794,601	923,000	918,596	790,878	804,402	342,972	337,753	671,021	545,735	576,207	279,604	297,999	658,527	8,623,316
Generating Public Entities (Slice)															
9 Generating Public Entities (Slice)	244,942	278,823	296,904	234,536	226,683	261,081	139,489	112,844	294,885	277,576	298,603	131,216	106,567	217,959	3,122,107
10 Total Gen. Public Entities (Slice)	244,942	278,823	296,904	234,536	226,683	261,081	139,489	112,844	294,885	277,576	298,603	131,216	106,567	217,959	3,122,107
Non-Generating Public Entities															
11 Non-Generating Public Entities	766,750	877,861	1,022,641	1,012,457	884,081	861,329	394,856	395,939	826,435	802,570	895,246	398,418	430,992	773,991	10,343,566
12 Total Non-Gen. Public Entities	766,750	877,861	1,022,641	1,012,457	884,081	861,329	394,856	395,939	826,435	802,570	895,246	398,418	430,992	773,991	10,343,566
Non-Generating Public Entities (Slice)															
13 Non-Gen. Public Entities (Slice)	147,084	167,429	178,286	140,836	136,120	156,775	83,761	67,761	177,074	166,680	179,306	78,793	63,992	130,881	1,874,779
14 Total Non-Gen. Pub. Ent. (Slice)	147,084	167,429	178,286	140,836	136,120	156,775	83,761	67,761	177,074	166,680	179,306	78,793	63,992	130,881	1,874,779
Investor-Owned Entities															
15 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities															
17 Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Power Sales Contracts															
19 Federal Entities	33,919	39,701	45,560	44,958	38,023	37,930	16,610	16,617	33,373	30,886	37,366	16,851	17,976	33,647	443,417
20 U.S. Bureau of Reclamation	41,664	44	48	47	243	6,108	40,540	46,866	85,274	89,765	111,187	47,140	44,300	56,047	569,274
21 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Generating Public Entities	926,965	1,073,424	1,219,904	1,153,132	1,017,561	1,065,483	482,460	450,596	965,906	823,310	874,810	410,820	404,566	876,487	11,745,424
23 Non-Generating Public Entities	913,835	1,045,290	1,200,927	1,153,292	1,020,200	1,018,104	478,617	463,700	1,003,509	969,250	1,074,553	477,211	494,984	904,872	12,218,345
24 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Power Sales Contracts	1,916,383	2,158,459	2,466,438	2,351,429	2,076,028	2,127,625	1,018,227	977,780	2,088,062	1,913,211	2,097,916	952,023	961,826	1,871,053	24,976,459

Table A-22: BPA Power Sale Contracts
PNW Loads and Resource Study
2007 - 2008 Fiscal Years
1937 Water Year
[30] 2007 Initial Rate Case

9/14/2005

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Federal Entities															
1 Federal Entities	34,780	41,699	47,826	47,230	40,341	40,675	16,984	16,983	34,937	33,143	38,254	18,000	19,187	34,385	464,423
2 Total Federal Entities	34,780	41,699	47,826	47,230	40,341	40,675	16,984	16,983	34,937	33,143	38,254	18,000	19,187	34,385	464,423
U.S. Bureau of Reclamation															
3 U.S. Bureau of Reclamation	39,968	44	48	47	251	6,268	37,096	46,902	85,274	93,285	107,443	46,967	47,625	54,124	565,341
4 Total U.S. Bureau of Reclamation	39,968	44	48	47	251	6,268	37,096	46,902	85,274	93,285	107,443	46,967	47,625	54,124	565,341
Direct Service Industry															
5 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Total Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Generating Public Entities															
7 Generating Public Entities	665,522	793,989	922,120	917,614	804,519	821,524	332,463	332,673	670,642	557,292	564,671	283,682	306,561	641,362	8,614,635
8 Total Generating Public Entities	665,522	793,989	922,120	917,614	804,519	821,524	332,463	332,673	670,642	557,292	564,671	283,682	306,561	641,362	8,614,635
Generating Public Entities (Slice)															
9 Generating Public Entities (Slice)	243,389	279,517	297,647	235,148	234,758	264,151	139,036	114,587	331,692	321,047	279,559	132,016	109,258	215,962	3,197,767
10 Total Gen. Public Entities (Slice)	243,389	279,517	297,647	235,148	234,758	264,151	139,036	114,587	331,692	321,047	279,559	132,016	109,258	215,962	3,197,767
Non-Generating Public Entities															
11 Non-Generating Public Entities	767,749	890,972	1,037,629	1,027,609	902,963	884,603	395,106	396,025	837,294	823,665	894,826	409,210	441,986	773,620	10,483,258
12 Total Non-Gen. Public Entities	767,749	890,972	1,037,629	1,027,609	902,963	884,603	395,106	396,025	837,294	823,665	894,826	409,210	441,986	773,620	10,483,258
Non-Generating Public Entities (Slice)															
13 Non-Gen. Public Entities (Slice)	146,151	167,846	178,732	141,203	140,969	158,619	83,489	68,808	199,176	192,784	167,871	79,273	65,608	129,682	1,920,212
14 Total Non-Gen. Pub. Ent. (Slice)	146,151	167,846	178,732	141,203	140,969	158,619	83,489	68,808	199,176	192,784	167,871	79,273	65,608	129,682	1,920,212
Investor-Owned Entities															
15 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities															
17 Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Power Sales Contracts															
19 Federal Entities	34,780	41,699	47,826	47,230	40,341	40,675	16,984	16,983	34,937	33,143	38,254	18,000	19,187	34,385	464,423
20 U.S. Bureau of Reclamation	39,968	44	48	47	251	6,268	37,096	46,902	85,274	93,285	107,443	46,967	47,625	54,124	565,341
21 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Generating Public Entities	908,911	1,073,507	1,219,767	1,152,763	1,039,277	1,085,675	471,499	447,259	1,002,334	878,339	844,231	415,698	415,819	857,323	11,812,402
23 Non-Generating Public Entities	913,900	1,058,818	1,216,362	1,168,812	1,043,932	1,043,222	478,595	464,833	1,036,470	1,016,449	1,062,697	488,483	507,594	903,302	12,403,469
24 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Power Sales Contracts	1,897,559	2,174,068	2,484,002	2,368,851	2,123,800	2,175,840	1,004,174	975,977	2,159,016	2,021,216	2,052,624	969,148	990,224	1,849,134	25,245,635

Table A-22: BPA Power Sale Contracts
PNW Loads and Resource Study
2008 - 2009 Fiscal Years
1937 Water Year
[30] 2007 Initial Rate Case

9/14/2005

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Federal Entities															
1 Federal Entities	37,901	46,333	51,108	51,469	43,596	44,212	18,457	18,457	38,692	35,055	41,338	19,413	20,686	37,255	503,971
2 Total Federal Entities	37,901	46,333	51,108	51,469	43,596	44,212	18,457	18,457	38,692	35,055	41,338	19,413	20,686	37,255	503,971
U.S. Bureau of Reclamation															
3 U.S. Bureau of Reclamation	39,968	44	48	47	243	6,268	37,096	46,902	88,453	89,765	107,443	46,967	47,625	54,124	564,993
4 Total U.S. Bureau of Reclamation	39,968	44	48	47	243	6,268	37,096	46,902	88,453	89,765	107,443	46,967	47,625	54,124	564,993
Direct Service Industry															
5 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Total Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Generating Public Entities															
7 Generating Public Entities	665,028	811,936	900,448	916,427	789,418	820,593	332,209	332,414	681,948	545,728	564,475	283,564	306,331	640,881	8,591,400
8 Total Generating Public Entities	665,028	811,936	900,448	916,427	789,418	820,593	332,209	332,414	681,948	545,728	564,475	283,564	306,331	640,881	8,591,400
Generating Public Entities (Slice)															
9 Generating Public Entities (Slice)	245,728	284,543	297,657	237,577	229,304	266,565	140,439	116,371	307,634	288,232	283,470	133,395	110,782	218,551	3,160,250
10 Total Gen. Public Entities (Slice)	245,728	284,543	297,657	237,577	229,304	266,565	140,439	116,371	307,634	288,232	283,470	133,395	110,782	218,551	3,160,250
Non-Generating Public Entities															
11 Non-Generating Public Entities	773,430	909,620	1,032,048	1,035,816	906,022	891,392	398,134	399,053	854,597	819,102	901,591	412,247	445,075	779,492	10,557,618
12 Total Non-Gen. Public Entities	773,430	909,620	1,032,048	1,035,816	906,022	891,392	398,134	399,053	854,597	819,102	901,591	412,247	445,075	779,492	10,557,618
Non-Generating Public Entities (Slice)															
13 Non-Gen. Public Entities (Slice)	147,556	170,864	178,738	142,662	137,694	160,068	84,332	69,879	184,730	173,079	170,219	80,102	66,523	131,237	1,897,683
14 Total Non-Gen. Pub. Ent. (Slice)	147,556	170,864	178,738	142,662	137,694	160,068	84,332	69,879	184,730	173,079	170,219	80,102	66,523	131,237	1,897,683
Investor-Owned Entities															
15 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 Total Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Entities															
17 Other PNW Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Total Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Power Sales Contracts															
19 Federal Entities	37,901	46,333	51,108	51,469	43,596	44,212	18,457	18,457	38,692	35,055	41,338	19,413	20,686	37,255	503,971
20 U.S. Bureau of Reclamation	39,968	44	48	47	243	6,268	37,096	46,902	88,453	89,765	107,443	46,967	47,625	54,124	564,993
21 Direct Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 Generating Public Entities	910,755	1,096,479	1,198,105	1,154,005	1,018,722	1,087,159	472,649	448,785	989,583	833,960	847,945	416,959	417,114	859,432	11,751,650
23 Non-Generating Public Entities	920,985	1,080,484	1,210,786	1,178,478	1,043,716	1,051,460	482,466	468,932	1,039,326	992,181	1,071,810	492,349	511,598	910,729	12,455,301
24 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Total Power Sales Contracts	1,909,610	2,223,340	2,460,046	2,383,998	2,106,278	2,189,099	1,010,668	983,075	2,156,054	1,950,960	2,068,535	975,688	997,023	1,861,540	25,275,915

Table A-24: Federal Non Utility Generating Resources By Project
PNW Loads and Resource Study
2006 - 2007 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Federal Entities															
NUG: Hydro															
1 Dworshak/Clearwater Small Hydropower (E	865	842	905	863	757	821	439	400	863	800	905	400	421	884	10,162
2 Elwah Hydro (BPA)	1,125	2,826	3,697	3,709	2,593	2,808	2,508	2,508	2,815	2,566	1,790	1,222	1,222	744	32,131
3 Glines Hydro (BPA)	2,109	4,246	5,288	4,767	3,983	4,415	3,766	3,766	9,288	4,755	3,529	2,404	2,404	1,411	56,132
4 Federal -Total NUG: Hydro	4,099	7,914	9,890	9,338	7,332	8,044	6,713	6,674	12,965	8,120	6,224	4,026	4,047	3,039	98,426
NUG: Renewables															
5 Ashland Solar Project (BPA)	1	0	0	0	1	1	1	1	1	1	2	1	1	1	12
6 Condon Wind Project (BPA)	3,352	4,022	3,915	2,822	2,716	4,773	1,500	1,366	2,745	2,713	2,482	1,032	1,086	2,535	37,059
7 Foote Creek 1 (BPA)	1,826	1,902	2,461	2,632	2,374	2,214	1,007	916	1,282	1,259	632	468	492	1,196	20,662
8 Foote Creek 2 (BPA)	126	216	284	397	377	258	150	137	248	145	107	45	48	96	2,634
9 Foote Creek 4 (BPA)	1,278	2,321	2,354	2,704	2,698	1,933	1,057	963	1,322	1,417	947	368	387	961	20,710
10 Fourmile Hill Geothermal (BPA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Klondike Phase 1 (BPA)	2,034	1,297	1,230	1,008	1,574	2,473	1,309	1,191	3,184	3,823	3,881	1,581	1,665	2,563	28,813
12 Stateline Wind Project (BPA)	7,415	6,743	6,651	4,994	4,638	11,590	4,618	4,204	9,215	9,893	9,820	4,428	4,661	7,218	96,085
13 White Bluffs Solar (BPA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Federal -Total NUG: Renewables	16,031	16,502	16,896	14,557	14,378	23,242	9,642	8,778	17,997	19,251	17,870	7,922	8,340	14,570	205,975
Total Non-Utility Generating Resources															
15 Federal Entities	20,131	24,415	26,785	23,895	21,710	31,286	16,355	15,451	30,962	27,371	24,094	11,948	12,386	17,609	304,401
16 Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Non Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Non-Utility Generation	20,131	24,415	26,785	23,895	21,710	31,286	16,355	15,451	30,962	27,371	24,094	11,948	12,386	17,609	304,401

Table A-24: Federal Non Utility Generating Resources By Project
PNW Loads and Resource Study
2007 - 2008 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Federal Entities															
NUG: Hydro															
1 Dworshak/Clearwater Small Hydropower (E	823	842	905	863	778	863	397	400	863	842	863	400	463	842	10,141
2 Elwah Hydro (BPA)	1,125	2,826	3,697	3,709	2,593	2,808	2,508	2,508	2,815	2,566	1,790	1,222	1,222	744	32,131
3 Glines Hydro (BPA)	2,109	4,246	5,288	4,767	3,983	4,415	3,766	3,766	9,288	4,755	3,529	2,404	2,404	1,411	56,132
4 Federal -Total NUG: Hydro	4,057	7,914	9,890	9,338	7,353	8,086	6,671	6,674	12,965	8,163	6,182	4,026	4,089	2,997	98,405
NUG: Renewables															
5 Ashland Solar Project (BPA)	1	0	0	0	1	1	1	1	1	1	2	1	1	1	12
6 Condon Wind Project (BPA)	3,352	4,022	3,915	2,822	2,813	4,773	1,428	1,438	2,745	2,713	2,482	982	1,136	2,535	37,156
7 Foote Creek 1 (BPA)	1,826	1,902	2,461	2,632	2,459	2,214	958	965	1,282	1,259	632	445	515	1,196	20,746
8 Foote Creek 2 (BPA)	126	216	284	397	390	258	143	144	248	145	107	43	50	96	2,647
9 Foote Creek 4 (BPA)	1,278	2,321	2,354	2,704	2,794	1,933	1,007	1,013	1,322	1,417	947	350	405	961	20,806
10 Fourmile Hill Geothermal (BPA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Klondike Phase 1 (BPA)	2,034	1,297	1,230	1,008	1,630	2,473	1,246	1,254	3,184	3,823	3,881	1,504	1,742	2,563	28,869
12 Stateline Wind Project (BPA)	7,415	6,743	6,651	4,994	4,804	11,590	4,396	4,426	9,215	9,893	9,820	4,212	4,877	7,218	96,251
13 White Bluffs Solar (BPA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Federal -Total NUG: Renewables	16,031	16,502	16,896	14,557	14,890	23,242	9,179	9,240	17,997	19,251	17,870	7,536	8,726	14,570	206,487
Total Non-Utility Generating Resources															
15 Federal Entities	20,089	24,415	26,785	23,895	22,244	31,328	15,850	15,914	30,962	27,414	24,052	11,562	12,814	17,567	304,892
16 Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Non Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Non-Utility Generation	20,089	24,415	26,785	23,895	22,244	31,328	15,850	15,914	30,962	27,414	24,052	11,562	12,814	17,567	304,892

Table A-24: Federal Non Utility Generating Resources By Project
PNW Loads and Resource Study
2008 - 2009 Fiscal Years
[30] 2007 Initial Rate Case

9/14/2005

Light Load Hours in MwHr	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Sum
Federal Entities															
NUG: Hydro															
1 Dworshak/Clearwater Small Hydropower (E	823	884	863	863	757	863	397	400	905	800	863	400	463	842	10,120
2 Elwah Hydro (BPA)	1,125	2,826	3,697	3,709	2,593	2,808	2,508	2,508	2,815	2,566	1,790	1,222	1,222	744	32,131
3 Glines Hydro (BPA)	2,109	4,246	5,288	4,767	3,983	4,415	3,766	3,766	9,288	4,755	3,529	2,404	2,404	1,411	56,132
4 Federal -Total NUG: Hydro	4,057	7,956	9,848	9,338	7,332	8,086	6,671	6,674	13,007	8,120	6,182	4,026	4,089	2,997	98,384
NUG: Renewables															
5 Ashland Solar Project (BPA)	1	0	0	0	1	1	1	1	1	1	2	1	1	1	12
6 Condon Wind Project (BPA)	3,352	4,022	3,915	2,822	2,716	4,773	1,428	1,438	2,745	2,713	2,482	982	1,136	2,535	37,059
7 Foote Creek 1 (BPA)	1,826	1,902	2,461	2,632	2,374	2,214	958	965	1,282	1,259	632	445	515	1,196	20,662
8 Foote Creek 2 (BPA)	126	216	284	397	377	258	143	144	248	145	107	43	50	96	2,634
9 Foote Creek 4 (BPA)	1,278	2,321	2,354	2,704	2,698	1,933	1,007	1,013	1,322	1,417	947	350	405	961	20,710
10 Fourmile Hill Geothermal (BPA)	15,619	16,766	16,367	16,367	14,371	16,367	7,535	7,585	17,166	15,170	16,367	7,585	8,782	15,968	192,015
11 Klondike Phase 1 (BPA)	2,034	1,297	1,230	1,008	1,574	2,473	1,246	1,254	3,184	3,823	3,881	1,504	1,742	2,563	28,813
12 Stateline Wind Project (BPA)	7,415	6,743	6,651	4,994	4,638	11,590	4,396	4,426	9,215	9,893	9,820	4,212	4,877	7,218	96,085
13 White Bluffs Solar (BPA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Federal -Total NUG: Renewables	31,650	33,268	33,263	30,924	28,749	39,609	16,714	16,825	35,162	34,421	34,237	15,121	17,508	30,538	397,990
Total Non-Utility Generating Resources															
15 Federal Entities	35,707	41,224	43,110	40,263	36,082	47,695	23,385	23,499	48,170	42,541	40,419	19,147	21,597	33,535	496,374
16 Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Non Generating Public Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Investor-Owned Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Total Non-Utility Generation	35,707	41,224	43,110	40,263	36,082	47,695	23,385	23,499	48,170	42,541	40,419	19,147	21,597	33,535	496,374

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TOTAL PNW REGIONAL HYDRO ANALYSIS
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**2.7 Total PNW Regional Hydro Resources
(Includes PNW Regulated, Independent, and NUG Hydro)
Monthly Energy in Average Megawatts using 50-Water Conditions
For FY 2007 through 2009**

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Table 2.7.1
2006 - 2007 Fiscal Years
Pacific Northwest Regional Hydro Resources
Includes Regulated, Independent, and NUG Hydro
[30] 2007 Initial Rate Case
Energy in Average Megawatts

9/14/2005

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
1929	10,997	12,866	12,350	12,728	10,447	11,259	11,005	11,199	12,264	17,447	14,636	15,870	10,743	10,923	12,527
1930	11,197	12,310	12,826	11,008	12,219	11,117	11,682	11,433	11,229	14,979	15,008	12,073	10,888	10,303	12,103
1931	11,256	12,439	12,628	10,741	10,118	10,772	11,867	10,649	10,586	14,705	14,457	12,235	11,372	10,116	11,740
1932	10,596	12,245	12,716	11,071	9,965	13,823	17,231	21,819	21,105	22,234	17,396	11,328	11,275	10,328	14,359
1933	11,352	13,050	14,050	20,064	15,565	12,524	13,778	15,294	18,147	24,275	22,971	13,028	12,473	11,285	15,881
1934	13,272	15,867	23,592	25,717	22,168	18,490	22,137	20,645	20,792	14,459	15,118	16,444	15,111	11,562	18,184
1935	11,237	13,081	12,649	19,218	19,320	10,861	13,056	16,125	17,559	18,951	17,362	11,563	10,271	9,893	14,637
1936	11,128	12,315	13,084	11,689	10,400	10,930	12,928	17,960	21,850	19,093	14,652	15,115	11,207	10,613	13,696
1937	11,119	12,188	13,224	10,100	9,580	10,367	11,546	10,590	13,336	16,418	14,307	12,434	11,354	10,438	12,003
1938	11,547	13,164	13,523	19,545	13,638	15,600	16,189	19,402	22,874	21,156	17,361	11,545	11,054	10,251	15,646
1939	11,329	12,549	13,051	15,566	10,548	12,119	13,230	16,076	19,457	15,199	15,264	12,817	10,269	10,928	13,517
1940	11,550	12,339	13,158	14,430	12,720	15,839	15,115	16,538	17,384	15,637	14,519	13,004	11,412	10,254	13,822
1941	11,145	12,103	12,813	13,863	11,275	11,053	11,473	10,249	13,992	14,905	13,992	10,947	10,455	9,895	12,216
1942	11,041	11,581	15,984	18,274	13,520	9,215	12,159	16,084	17,097	20,720	18,639	10,713	10,705	10,975	14,323
1943	11,172	12,931	13,180	18,665	17,931	17,745	23,558	22,162	22,356	22,023	20,843	14,856	12,203	10,479	16,976
1944	11,392	12,907	13,657	13,784	10,799	9,687	10,460	9,942	11,542	13,438	13,926	15,991	11,635	10,730	12,156
1945	10,623	12,116	12,142	10,924	11,227	10,505	10,660	10,849	17,419	20,687	15,175	10,475	10,326	10,236	12,684
1946	11,112	13,078	13,378	17,543	14,853	18,823	17,541	20,500	23,675	20,972	18,505	12,669	10,865	10,235	16,080
1947	11,140	13,056	18,801	20,505	19,306	19,422	15,218	17,696	21,272	19,918	18,001	15,434	12,061	11,547	16,931
1948	16,448	14,864	16,550	21,861	14,632	14,764	14,990	20,419	23,881	24,622	20,645	13,913	10,829	11,236	17,465
1949	12,091	13,022	13,068	14,997	13,870	19,255	15,922	20,932	23,152	20,457	14,452	16,631	15,864	12,135	15,931
1950	11,357	13,139	12,050	17,893	19,864	21,842	19,748	20,096	21,121	24,297	21,729	12,113	10,482	9,828	17,028
1951	13,550	16,127	20,813	24,238	24,363	18,601	20,334	21,249	23,375	20,467	19,594	16,315	13,865	11,506	19,043
1952	15,292	13,414	16,726	19,982	16,938	15,267	19,465	21,418	24,856	20,863	16,774	16,480	13,421	11,745	17,271
1953	11,172	12,484	13,155	15,345	17,806	12,537	11,682	14,799	20,723	24,514	21,214	14,106	10,806	10,910	15,463
1954	11,909	13,300	15,776	17,927	19,667	16,500	17,580	17,958	22,122	23,709	22,492	15,557	12,761	11,429	17,230
1955	12,328	13,773	15,323	15,030	10,960	9,950	13,079	11,971	17,090	23,895	23,018	18,819	17,446	15,870	15,658
1956	13,338	15,121	19,914	25,138	17,550	20,119	20,998	24,057	24,677	24,682	20,803	16,818	14,796	10,859	19,211
1957	12,761	12,958	15,157	17,440	13,020	15,739	19,006	18,665	24,604	24,220	16,217	16,426	13,019	11,596	16,439
1958	11,394	12,632	13,153	15,734	17,107	15,630	14,725	19,345	23,601	22,313	16,077	12,471	10,909	10,865	15,603
1959	11,437	14,022	17,727	23,621	19,521	15,911	18,085	17,291	19,941	23,707	21,021	12,360	11,687	11,148	17,314
1960	17,369	16,794	18,608	19,935	13,576	15,315	24,828	20,773	18,440	21,483	17,736	16,086	12,077	16,335	17,706
1961	11,328	13,235	13,452	18,348	18,422	16,647	17,841	15,713	20,646	23,400	16,991	14,535	10,764	10,831	16,061
1962	11,504	12,963	12,273	17,809	12,784	10,773	20,422	23,196	19,746	19,504	17,313	12,828	11,732	10,455	14,934
1963	12,570	14,182	18,012	19,672	15,548	11,677	13,207	13,620	20,326	20,770	17,364	14,927	12,224	10,858	15,664
1964	11,161	13,422	13,235	16,773	12,960	11,191	14,475	15,034	18,856	24,746	22,985	15,337	12,015	11,476	15,436
1965	13,356	13,096	19,748	25,439	22,039	18,899	17,169	21,201	22,600	22,107	18,100	16,549	14,676	12,560	18,562
1966	12,397	12,991	14,272	20,062	11,996	11,858	19,603	16,378	18,263	18,760	18,644	15,918	13,937	11,175	15,278
1967	11,334	13,009	13,864	21,800	20,897	14,009	14,179	13,209	19,174	24,517	21,409	14,336	11,095	10,454	16,406
1968	12,304	12,950	13,768	19,106	18,444	15,825	10,442	12,554	17,506	22,381	19,434	16,475	12,266	11,547	15,761
1969	13,951	15,025	16,867	23,854	19,297	14,572	22,501	21,612	24,917	22,921	18,030	16,255	14,141	13,638	18,361
1970	11,812	13,019	12,381	18,177	15,803	12,696	12,097	13,857	20,385	22,066	16,814	14,369	10,768	11,219	14,993
1971	11,418	12,970	12,552	22,184	24,750	18,022	18,921	20,631	24,439	24,586	22,069	12,383	10,201	10,359	17,868
1972	12,444	13,233	14,783	22,090	22,683	24,652	23,661	18,517	24,324	24,691	22,793	18,327	15,406	12,097	19,312
1973	12,295	13,112	15,379	19,602	11,514	10,791	10,437	11,177	14,399	15,131	14,660	18,693	16,860	12,884	14,029
1974	10,757	11,913	17,365	27,500	24,380	21,398	22,160	22,794	23,686	24,621	23,298	11,648	10,423	9,297	18,977
1975	10,628	12,911	13,404	19,609	15,537	16,929	13,523	15,262	21,027	23,675	23,472	17,960	16,404	11,955	16,727
1976	13,541	15,698	22,415	24,505	19,860	16,319	21,327	20,293	23,795	20,967	22,051	13,746	13,145	11,918	18,777
1977	11,838	12,693	12,498	14,320	10,855	9,256	9,983	9,066	11,943	12,392	12,762	20,557	19,914	17,376	12,974
1978	10,135	12,297	12,858	17,984	15,229	16,782	17,503	16,331	19,834	18,746	19,013	11,149	10,683	9,624	15,028

Table 2.7.2

2007 - 2008 Fiscal Years

9/14/2005

Pacific Northwest Regional Hydro Resources
Includes Regulated, Independent, and NUG Hydro
[30] 2007 Initial Rate Case
Energy in Average Megawatts

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
1929	11,012	12,882	12,366	12,748	10,460	11,275	11,084	11,253	12,429	17,642	14,053	15,933	10,784	10,926	12,527
1930	11,213	12,326	12,842	11,021	12,235	11,133	11,759	11,588	11,345	15,197	14,461	12,118	10,931	10,306	12,106
1931	11,272	12,455	12,644	10,754	10,131	10,787	11,943	10,721	10,709	14,938	13,875	12,283	11,418	10,120	11,739
1932	10,611	12,260	12,731	11,084	9,977	13,844	17,257	21,850	21,139	22,262	16,974	11,376	11,321	10,332	14,343
1933	11,367	13,065	14,068	20,089	15,587	12,539	13,849	15,498	18,200	24,312	22,825	13,082	12,524	11,288	15,901
1934	13,290	15,888	23,623	25,753	22,197	18,515	22,172	20,678	20,821	14,693	14,615	16,510	15,175	11,566	18,186
1935	11,252	13,096	12,665	19,242	19,345	10,874	13,128	16,329	17,678	19,075	16,940	11,611	10,313	9,897	14,646
1936	11,143	12,330	13,099	11,703	10,413	10,947	12,998	17,986	21,887	19,191	14,094	15,180	11,254	10,616	13,678
1937	11,134	12,204	13,240	10,113	9,593	10,382	11,625	10,688	13,541	16,634	13,723	12,484	11,400	10,441	12,009
1938	11,563	13,179	13,540	19,571	13,656	15,623	16,214	19,427	22,907	21,183	16,940	11,593	11,100	10,254	15,632
1939	11,345	12,564	13,067	15,586	10,561	12,137	13,307	16,274	19,503	15,425	14,738	12,865	10,310	10,932	13,520
1940	11,566	12,354	13,174	14,449	12,737	15,864	15,184	16,714	17,504	15,857	13,951	13,058	11,458	10,257	13,827
1941	11,161	12,118	12,831	13,883	11,289	11,069	11,548	10,391	14,200	15,116	13,429	10,992	10,498	9,899	12,226
1942	11,057	11,597	16,008	18,301	13,535	9,229	12,238	16,248	17,253	20,750	18,246	10,757	10,752	10,978	14,329
1943	11,187	12,946	13,198	18,692	17,957	17,772	23,593	22,197	22,389	22,054	20,538	14,918	12,254	10,482	16,975
1944	11,408	12,922	13,675	13,804	10,812	9,701	10,541	9,955	11,736	13,650	13,341	16,057	11,682	10,733	12,158
1945	10,638	12,132	12,158	10,938	11,242	10,521	10,740	10,903	17,602	20,715	14,635	10,517	10,368	10,239	12,674
1946	11,128	13,094	13,395	17,566	14,875	18,849	17,567	20,530	23,709	20,997	18,111	12,716	10,910	10,237	16,068
1947	11,156	13,072	18,828	20,533	19,334	19,448	15,285	17,814	21,306	19,943	17,607	15,498	12,109	11,551	16,928
1948	16,470	14,883	16,573	21,890	14,652	14,785	15,058	20,448	23,920	24,660	20,255	13,972	10,873	11,240	17,459
1949	12,108	13,038	13,086	15,019	13,889	19,286	15,990	20,964	23,188	20,481	13,849	16,698	15,929	12,139	15,906
1950	11,373	13,154	12,066	17,916	19,891	21,873	19,779	20,125	21,150	24,333	21,344	12,158	10,522	9,831	17,019
1951	13,568	16,148	20,842	24,270	24,397	18,629	20,364	21,279	23,410	20,491	19,202	16,381	13,922	11,509	19,037
1952	15,312	13,431	16,750	20,009	16,963	15,290	19,497	21,452	24,895	20,891	16,315	16,547	13,476	11,748	17,258
1953	11,188	12,500	13,171	15,366	17,832	12,554	11,758	15,006	20,752	24,549	20,828	14,164	10,850	10,913	15,462
1954	11,925	13,315	15,796	17,951	19,694	16,521	17,609	18,037	22,154	23,740	22,104	15,619	12,811	11,432	17,223
1955	12,345	13,790	15,342	15,049	10,974	9,964	13,154	12,182	17,280	23,931	23,048	18,897	17,516	15,876	15,706
1956	13,355	15,140	19,943	25,171	17,575	20,151	21,028	24,094	24,716	24,719	20,413	16,887	14,857	10,862	19,206
1957	12,778	12,974	15,178	17,464	13,037	15,761	19,038	18,691	24,642	24,257	15,745	16,493	13,071	11,600	16,423
1958	11,411	12,648	13,170	15,756	17,131	15,652	14,792	19,374	23,638	22,344	15,580	12,521	10,952	10,868	15,585
1959	11,453	14,040	17,752	23,653	19,548	15,933	18,109	17,401	19,969	23,740	20,631	12,409	11,733	11,151	17,308
1960	17,393	16,817	18,633	19,961	13,595	15,337	24,862	20,800	18,476	21,510	17,341	16,153	12,125	16,341	17,698
1961	11,344	13,252	13,469	18,371	18,447	16,671	17,864	15,941	20,674	23,433	16,541	14,595	10,806	10,835	16,053
1962	11,520	12,979	12,288	17,832	12,801	10,788	20,452	23,228	19,773	19,528	16,895	12,880	11,779	10,458	14,919
1963	12,588	14,200	18,036	19,696	15,571	11,697	13,283	13,845	20,358	20,799	16,953	14,987	12,273	10,861	15,663
1964	11,176	13,437	13,252	16,795	12,977	11,206	14,547	15,240	18,882	24,783	22,600	15,399	12,064	11,479	15,435
1965	13,375	13,113	19,778	25,476	22,074	18,928	17,195	21,235	22,636	22,139	17,712	16,615	14,734	12,564	18,557
1966	12,414	13,008	14,294	20,088	12,013	11,875	19,630	16,591	18,394	18,895	18,250	15,983	13,995	11,178	15,292
1967	11,350	13,024	13,882	21,827	20,926	14,027	14,254	13,437	19,199	24,553	21,021	14,396	11,139	10,457	16,407
1968	12,321	12,966	13,789	19,132	18,469	15,847	10,523	12,796	17,638	22,410	19,042	16,542	12,316	11,551	15,771
1969	13,971	15,044	16,890	23,888	19,326	14,598	22,535	21,644	24,955	22,947	17,629	16,321	14,197	13,643	18,353
1970	11,828	13,036	12,398	18,204	15,829	12,714	12,174	14,091	20,413	22,098	16,380	14,427	10,810	11,222	14,989
1971	11,434	12,987	12,571	22,216	24,787	18,050	18,950	20,661	24,478	24,622	21,687	12,429	10,242	10,362	17,861
1972	12,460	13,250	14,804	22,120	22,717	24,687	23,694	18,576	24,363	24,729	22,406	18,400	15,468	12,100	19,309
1973	12,312	13,128	15,401	19,631	11,529	10,807	10,520	11,236	14,605	15,352	14,088	18,769	16,927	12,888	14,039
1974	10,773	11,929	17,391	27,540	24,415	21,430	22,193	22,829	23,723	24,659	23,331	11,694	10,464	9,300	19,007
1975	10,643	12,928	13,422	19,634	15,559	16,955	13,599	15,469	21,057	23,708	23,248	18,032	16,469	11,959	16,742
1976	13,560	15,719	22,448	24,538	19,888	16,345	21,360	20,322	23,833	20,994	21,664	13,799	13,194	11,922	18,771
1977	11,855	12,709	12,516	14,341	10,868	9,268	10,067	9,078	12,174	12,626	12,136	20,642	19,995	17,383	12,981
1978	10,150	12,312	12,877	18,009	15,249	16,809	17,525	16,477	19,863	18,771	18,624	11,193	10,727	9,628	15,021

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Table 2.7.3
2008 - 2009 Fiscal Years
Pacific Northwest Regional Hydro Resources
Includes Regulated, Independent, and NUG Hydro
[30] 2007 Initial Rate Case
Energy in Average Megawatts

9/14/2005

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	1-Apr	16-Apr	May	Jun	Jul	1-Aug	16-Aug	Sep	Avg
1929	11,016	12,887	12,372	12,754	10,464	11,278	11,102	11,295	12,476	17,708	14,106	15,951	10,797	10,933	12,547
1930	11,217	12,331	12,847	11,026	12,240	11,136	11,799	11,650	11,388	15,258	14,517	12,134	10,944	10,313	12,128
1931	11,277	12,461	12,650	10,758	10,135	10,790	11,964	10,762	10,753	14,997	13,928	12,299	11,432	10,127	11,759
1932	10,616	12,266	12,737	11,088	9,981	13,847	17,385	22,055	21,372	22,420	17,041	11,393	11,335	10,340	14,399
1933	11,372	13,070	14,075	20,098	15,595	12,542	13,890	15,624	18,352	24,322	22,921	13,100	12,540	11,297	15,935
1934	13,295	15,894	23,633	25,765	22,207	18,521	22,255	20,868	20,952	14,742	14,676	16,528	15,193	11,576	18,224
1935	11,256	13,100	12,671	19,251	19,353	10,877	13,150	16,400	17,752	19,149	17,007	11,627	10,325	9,904	14,673
1936	11,148	12,336	13,105	11,708	10,417	10,950	13,064	18,071	22,120	19,299	14,149	15,198	11,268	10,624	13,721
1937	11,139	12,210	13,245	10,118	9,598	10,386	11,643	10,733	13,594	16,697	13,776	12,501	11,413	10,449	12,030
1938	11,567	13,184	13,545	19,580	13,661	15,628	16,316	19,635	23,146	21,348	17,007	11,609	11,112	10,261	15,689
1939	11,349	12,569	13,072	15,593	10,566	12,141	13,359	16,365	19,582	15,482	14,796	12,880	10,323	10,940	13,546
1940	11,571	12,360	13,180	14,455	12,742	15,869	15,262	16,807	17,578	15,922	14,005	13,075	11,472	10,265	13,854
1941	11,165	12,123	12,837	13,890	11,293	11,073	11,568	10,437	14,262	15,180	13,482	11,007	10,511	9,906	12,248
1942	11,061	11,601	16,015	18,310	13,540	9,232	12,258	16,320	17,325	20,836	18,319	10,772	10,765	10,987	14,357
1943	11,191	12,950	13,203	18,699	17,962	17,777	23,600	22,303	22,609	22,225	20,619	14,936	12,269	10,490	17,023
1944	11,412	12,927	13,679	13,811	10,816	9,704	10,559	9,994	11,782	13,706	13,393	16,074	11,697	10,741	12,178
1945	10,643	12,137	12,163	10,942	11,246	10,524	10,757	10,947	17,672	20,801	14,692	10,532	10,380	10,247	12,698
1946	11,132	13,098	13,400	17,572	14,881	18,854	17,677	20,757	23,954	21,124	18,181	12,732	10,924	10,244	16,124
1947	11,160	13,077	18,836	20,542	19,340	19,454	15,344	17,961	21,489	20,082	17,677	15,516	12,124	11,559	16,974
1948	16,476	14,889	16,580	21,898	14,657	14,789	15,124	20,657	24,035	24,671	20,338	13,990	10,887	11,248	17,493
1949	12,112	13,043	13,092	15,026	13,894	19,291	16,090	21,184	23,304	20,615	13,900	16,716	15,947	12,149	15,949
1950	11,377	13,159	12,071	17,923	19,899	21,879	19,909	20,318	21,358	24,343	21,432	12,174	10,534	9,838	17,062
1951	13,573	16,154	20,850	24,280	24,406	18,634	20,492	21,499	23,652	20,637	19,279	16,398	13,938	11,518	19,096
1952	15,318	13,436	16,757	20,017	16,968	15,295	19,534	21,556	24,906	21,055	16,379	16,564	13,493	11,758	17,288
1953	11,192	12,505	13,177	15,372	17,839	12,557	11,795	15,125	20,939	24,559	20,911	14,181	10,864	10,921	15,496
1954	11,930	13,320	15,802	17,958	19,701	16,526	17,707	18,206	22,380	23,750	22,196	15,637	12,826	11,441	17,266
1955	12,350	13,796	15,349	15,055	10,979	9,967	13,214	12,238	17,350	23,943	23,059	18,917	17,533	15,890	15,724
1956	13,360	15,145	19,950	25,181	17,581	20,156	21,165	24,104	24,727	24,730	20,495	16,905	14,874	10,870	19,227
1957	12,782	12,978	15,184	17,472	13,041	15,764	19,173	18,873	24,651	24,268	15,808	16,510	13,087	11,608	16,448
1958	11,415	12,653	13,175	15,763	17,137	15,657	14,867	19,586	23,753	22,510	15,641	12,537	10,964	10,875	15,630
1959	11,457	14,045	17,759	23,663	19,556	15,937	18,190	17,512	20,142	23,756	20,719	12,425	11,747	11,159	17,344
1960	17,400	16,823	18,641	19,969	13,600	15,342	24,871	20,949	18,628	21,662	17,411	16,171	12,140	16,354	17,741
1961	11,348	13,257	13,476	18,379	18,454	16,676	17,937	16,026	20,845	23,444	16,606	14,613	10,819	10,843	16,085
1962	11,524	12,984	12,294	17,840	12,805	10,792	20,592	23,456	19,955	19,675	16,963	12,897	11,794	10,465	14,972
1963	12,593	14,205	18,043	19,704	15,576	11,701	13,321	13,908	20,443	20,886	17,021	15,004	12,288	10,869	15,692
1964	11,180	13,442	13,258	16,803	12,983	11,210	14,651	15,364	19,072	24,792	22,695	15,418	12,079	11,488	15,473
1965	13,380	13,118	19,785	25,486	22,081	18,934	17,292	21,409	22,832	22,247	17,782	16,633	14,750	12,574	18,605
1966	12,419	13,013	14,300	20,096	12,018	11,879	19,735	16,668	18,469	18,968	18,323	16,001	14,011	11,186	15,323
1967	11,354	13,029	13,888	21,836	20,935	14,031	14,294	13,503	19,395	24,563	21,111	14,414	11,154	10,465	16,441
1968	12,326	12,971	13,795	19,140	18,475	15,852	10,539	12,842	17,708	22,501	19,120	16,560	12,332	11,560	15,799
1969	13,976	15,050	16,897	23,897	19,333	14,602	22,651	21,881	24,999	23,101	17,699	16,340	14,213	13,655	18,396
1970	11,832	13,041	12,404	18,211	15,834	12,718	12,204	14,149	20,633	22,207	16,444	14,445	10,824	11,230	15,030
1971	11,439	12,992	12,575	22,224	24,796	18,055	19,092	20,873	24,488	24,631	21,774	12,445	10,255	10,369	17,889
1972	12,464	13,255	14,811	22,128	22,726	24,694	23,789	18,731	24,401	24,739	22,502	18,418	15,486	12,109	19,337
1973	12,316	13,133	15,407	19,639	11,533	10,810	10,537	11,277	14,663	15,412	14,142	18,788	16,944	12,898	14,061
1974	10,777	11,933	17,398	27,551	24,425	21,436	22,313	22,986	23,845	24,669	23,342	11,710	10,476	9,306	19,035
1975	10,647	12,933	13,428	19,642	15,565	16,960	13,652	15,594	21,279	23,802	23,346	18,050	16,486	11,969	16,789
1976	13,565	15,725	22,457	24,547	19,896	16,349	21,482	20,541	23,938	21,167	21,753	13,815	13,208	11,930	18,821
1977	11,860	12,714	12,521	14,348	10,872	9,272	10,082	9,111	12,223	12,676	12,181	20,663	20,015	17,398	13,000
1978	10,154	12,317	12,881	18,016	15,254	16,814	17,638	16,616	20,056	18,921	18,698	11,209	10,739	9,635	15,071

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ESTIMATED PURCHASE MW ELIGIBLE FOR 4(h)(10)C CREDIT
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2.8	Estimated Purchase MW Eligible For (4)H(10)C Credit Monthly Energy in Average Megawatts using 50-Water Conditions	
	Table 2.8.1 4(h)(10)C Power Purchase Amount	108

Table 2.8.1
4(h)(10)(C) Power Purchase Amounts
Energy in Average Megawatts

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1929	1,028	690	1,114	753	2,722	1,486	1,376	1,544	0	-77	-281	477
1930	682	429	1,479	3,221	908	1,205	472	1,196	-792	0	0	257
1931	535	480	1,277	3,264	2,905	1,793	740	785	-641	0	-179	145
1932	685	666	1,430	3,280	-14	-141	0	0	0	0	0	3
1933	747	1,004	121	0	0	1,510	0	0	0	0	0	0
1934	0	0	0	0	0	0	0	0	290	-23	0	349
1935	1,093	1,172	1,027	0	0	2,298	0	0	0	-273	0	257
1936	986	592	1,438	2,578	2,410	1,261	102	0	0	0	0	431
1937	724	492	1,375	2,878	2,624	1,441	849	954	132	-809	-582	452
1938	-12	779	1,084	0	574	0	0	0	0	0	-137	0
1939	759	692	1,324	340	2,549	885	0	0	-940	-23	0	407
1940	473	658	1,279	680	1,646	0	0	0	-939	0	-110	399
1941	442	858	479	451	2,798	1,268	1,002	606	0	0	-105	0
1942	690	1,060	0	0	1,996	2,205	0	0	0	0	0	79
1943	219	993	730	0	0	0	0	0	0	0	0	100
1944	673	744	1,162	541	2,749	1,902	1,481	1,823	281	231	-158	319
1945	891	475	1,388	3,143	2,240	1,222	501	0	0	0	-508	346
1946	-94	611	1,272	69	0	0	0	0	0	0	0	0
1947	863	634	0	0	0	0	0	0	0	0	0	47
1948	0	0	0	0	446	0	0	0	0	0	0	0
1949	469	702	833	150	549	0	0	0	0	-342	-414	841
1950	721	951	1,573	0	0	0	0	0	0	0	0	0
1951	0	0	0	0	0	0	0	0	0	0	0	0
1952	0	155	0	0	0	0	0	0	0	0	0	261
1953	803	532	1,374	618	0	906	368	0	0	0	0	0
1954	490	454	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	1,230	2,311	2,003	427	0	0	0	0	0
1956	0	0	0	0	0	0	0	0	0	0	0	0
1957	392	705	0	0	1,590	0	0	0	0	0	0	232
1958	693	678	1,450	0	0	0	0	0	0	0	0	168
1959	799	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	358	0	0	0	0	-21	0	271
1961	860	267	755	0	0	0	0	0	0	0	0	370
1962	618	757	1,487	0	1,507	1,368	0	0	0	-29	0	276
1963	135	0	0	0	0	0	0	0	0	0	0	0
1964	864	764	980	0	1,065	1,384	0	0	0	0	0	0
1965	0	184	0	0	0	0	0	0	0	0	0	0
1966	154	188	0	0	1,223	1,154	0	0	-6	0	0	515
1967	752	740	620	0	0	0	0	0	0	0	0	0
1968	454	170	0	0	0	0	521	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0	0	147
1970	667	498	813	0	0	846	399	0	0	0	0	81
1971	357	648	1,341	0	0	0	0	0	0	0	0	0
1972	222	621	100	0	0	0	0	0	0	0	0	0
1973	210	770	0	0	2,545	1,659	1,538	296	-636	-30	-125	583
1974	798	1,241	0	0	0	0	0	0	0	0	0	0
1975	631	688	959	0	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0	0	0	0
1977	0	642	1,047	360	2,675	2,216	1,928	705	1,149	562	-291	439
1978	1,147	294	1,215	-77	444	0	0	0	0	0	0	301

