2007 Supplemental Wholesale Power Rate Case Initial Proposal

FY 2002-2008 LOOKBACK STUDY

February 2008



WP-07-E-BPA-44

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FY 2002-2008

LOOKBACK STUDY

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COMMONLY USED ACRONYMS

AC	Alternating Current
AEP	American Electric Power Company, Inc.
AER	Actual Energy Regulation
AFUDC	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
AOP	Assured Operating Plan
ASC	Average System Cost
Avista	Avista Corporation
BASC	BPA Average System Cost
BiOp	Biological Opinion
BPA	Bonneville Power Administration
Btu	British thermal unit
C&R Discount	Conservation and Renewables Discount
CAISO	California Independent System Operator
CBFWA	Columbia Basin Fish & Wildlife Authority
CCCT	Combined-Cycle Combustion Turbine
CEC	California Energy Commission
CFAC	Columbia Falls Aluminum Company
Cfs	Cubic feet per second
CGS	Columbia Generating Station
COB	California-Oregon Border
COE	U.S. Army Corps of Engineers
COU	Consumer Owned Utility
Con Aug	Conservation Augmentation
C/M	Consumers / Mile of Line for Low Density Discount
ConMod	Conservation Modernization Program
COSA	Cost of Service Analysis
Council	Northwest Power Planning and Conservation Council
СР	Coincidental Peak
CRAC	Cost Recovery Adjustment Clause
CRC	Conservation Rate Credit
CRFM	Columbia River Fish Mitigation
CRITFC	Columbia River Inter-Tribal Fish Commission
СТ	Combustion Turbine
CY	Calendar Year (Jan-Dec)
DC	Direct Current
DDC	Dividend Distribution Clause
DJ	Dow Jones
DOE	Department of Energy

DOP	Debt Optimization Program
DROD	Draft Record of Decision
DSI	Direct Service Industrial Customer or Direct Service Industry
ECC	Energy Content Curve
EIA	Energy Information Administration
EIS	Environmental Impact Statement
EN	Energy Northwest, Inc.
Energy Northwest, Inc.	Formerly Washington Public Power Supply System (Nuclear)
EPA	Environmental Protection Agency
EPP	Environmentally Preferred Power
EOR	Electric Quarterly Report
ESA	Endangered Species Act
FWFB	Fugene Water & Electric Board
F&O	Financial and Operating Reports
FBCRAC	Financial-Based Cost Recovery Adjustment Clause
FBS	Faderal Base System
FDS	Fish Cost Contingonov Fund
	Fish Cost Contingency Fund Fadaral Calumbia Divar Davar System
FCNF5 ECDTS	Federal Columbia River Transmission System
FCKIS	Federal Columbia River Transmission System
FERC SD	Federal Energy Regulatory Commission
FERC SK	Federal Energy Regulatory Commission Special Rule
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)
FY	Fiscal Year (Oct-Sep)
GAAP	Generally Accepted Accounting Principles
GCPs	General Contract Provisions
GEP	Green Energy Premium
GI	Generation Integration
GSR	Generation Supplied Reactive and Voltage Control
GRI	Gas Research Institute
GRSPs	General Rate Schedule Provisions
GSP	Generation System Peak
GSU	Generator Step-Up Transformers
GTA	General Transfer Agreement
GWh	Gigawatthour
HLH	Heavy Load Hour
HOSS	Hourly Operating and Scheduling Simulator
ICNU	Industrial Customers of Northwest Utilities
ICUA	Idaho Consumer-Owned Utilities Association. Inc.
IOU	Investor-Owned Utility
IP	Industrial Firm Power (rate)
ΙΡ ΤΑC	Industrial Firm Power Targeted Adjustment Charge
IPC	Idaho Power Company

ISO	Independent System Operator
JP	Joint Party
JP1	Cowlitz County Public Utility District, Northwest Requirements Utilities and Members, Western Public Agencies Group and Members, Public Power Council, Industrial Customers of Northwest Utilities
JP2	Grant County Public Utility District No. 2, Benton County Public Utility District, Eugene Water & Electric Board, Franklin County Public Utility District No. 1, Pacific Northwest Generating Cooperative and Members, Pend Oreille County Public Utility District No. 1, Seattle City Light, City of Tacoma, Western Public Agencies Group and Members, Western Public Agencies Group and Members(Grays Harbor)
JP3	Benton County Public Utility District, Eugene Water & Electric Board, Franklin County Public Utility District No. 1, Grant County Public Utilities District No. 2, Pacific Northwest Generating Cooperative and Members, Pend Oreille County Public Utility District No. 1, Seattle City Light, Western Public Agencies Group and Members (Gravs Harbor)
JP4	Cowlitz County Public Utility District, Eugene Water & Electric Board, Pacific Northwest Generating Cooperative and Members, Pend Oreille County Public Utility District No. 1, Seattle City Light, City of Tacoma, Grant County Public Utility District No. 2
JP5	Benton County Public Utility District, Cowlitz County Public Utility District, Eugene Water & Electric Board, Franklin County Public Utility District No. 1, Grant County Public Utilities District No. 2, Northwest Requirements Utilities and Members, Pacific Northwest Generating Cooperative and Members, Pend Oreille County Public Utility District No. 1, Seattle City Light, City of Tacoma, specified members of WA ¹
JP6	Avista Corporation, Idaho Power Corporation, PacifiCorp, Portland General Electric Company, Puget Sound Energy, Inc.
JP7	NONE
JP8	Northwest Energy Coalition, Save Our Wild Salmon
JP9	Alcoa, Inc., Industrial Customers of Northwest Utilities, Public Power Council, Northwest Requirements Utilities and Members, Pacific Northwest Generating Cooperative and Members, PacifiCorp, Western Public Agencies Group and Members, Avista Corporation, Portland General Electric Company

¹ The members of Western Public Agencies Group and Members (WA) that are participating in the JP5 designation include: Benton REA, the cities of Ellensburg and Milton, the towns of Eatonville and Steilacoom, Washington, Alder Mutual Light Co., Elmhurst Mutual Power and Light Co., Lakeview Light and Power Co., Parkland Light and Water Co., Peninsula Light Co., the Public Utility Districts of Grays Harbor, Kittias, Lewis and Mason Counties, the Public Utility District No. 3 of Mason County, and the Public Utility District No. 2 of Pacific County, Washington.

JP10	Alcoa, Inc., Cowlitz County Public Utility District, Industrial
ID11	Customers of Northwest Utilities
JPII	Cowlitz County Public Utility District, Eugene Water & Electric
	Board, Grant County Public Utilities District No. 2, Pacific
	Northwest Generating Cooperative and Members, Pend Oreille
	County Public Utility District No. 1, Seattle City Light, City of
	Tacoma
JP12	Alcoa, Inc., Industrial Customers of Northwest Utilities, Public
	Power Council, Western Public Agencies Group and Members,
	Northwest Requirements Utilities and Members, Pacific
	Northwest Generating Cooperative and Members
JP13	Columbia River Inter-Tribal Fish Commission, Confederated
	Tribes and Bands of the Yakama Nation, Nez Perce Tribe
JP14	Benton County Public Utility District, Cowlitz County Public
	Utility District, Eugene Water & Electric Board, Franklin
	County Public Utility District No. 1, Grant County Public
	Utilities District No. 2, Industrial Customers of Northwest
	Utilities, Northwest Requirements Utilities and Members,
	Public Power Council, Seattle City Light, City of Tacoma,
	Western Public Agencies Group and Members, Springfield
	Utility Board, Pacific Northwest Generating Cooperative and
	Members
JP15	Calpine Corporation, Northwest Independent Power Producers
	Coalition, PPM Energy, Inc., TransAlta Centralia Generation,
	LLC
kAf	Thousand Acre Feet
kcfs	kilo (thousands) of cubic feet per second
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
LBLF	Lookback/Lookforward Model
LLH	Light Load Hour
LOLP	Loss of Load Probability
LRA	Load Reduction Agreement
m/kWh	Mills per kilowatt-hour
MAC	Market Access Coalition Group
MAf	Million Acre Feet
MCA	Marginal Cost Analysis
Mid-C	Mid-Columbia
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)
MVAr	Mega Volt Ampere Reactive
MW	Megawatt (1 million watts)
MWh	Megawatt-hour
NCD	Non-coincidental Demand
NEPA	National Environmental Policy Act
NERC	North American Electric Reliability Council
NF	Nonfirm Energy (rate)
NFB Adjustment	National Marine Fisheries Service (NMFS) Federal Columbia
11 D / Agustinent	River Power System (FCRPS) Biological Opinion (BiOn)
	Adjustment
NI SI	New Large Single Load
NMFS	New Large Single Load
NOA A Fisheries	National Oceanographic and Atmospheric Administration
NOAA FISHELIES	Fisherios
NOP	Neveda Oragon Border
NOB	Nevaua-Olegoli Doluci Non Oneveting Disk Model
NORM Northwest Dower Act	Non-Operating Kisk Model Desifie Northwest Electric Dewer Diagning and Conservation
Northwest Power Act	A at
	Act
NPA	Northwest Power Act
NPCC	Northwest Power and Conservation Council
NPV	Net Present Value
NR	New Resource
NR (rate)	New Resource Firm Power (rate)
NRU	Northwest Requirements Utilities
NTSA	Non-Treaty Storage Agreement
NUG	Non-Utility Generation
NWEC	Northwest Energy Coalition
NWPP	Northwest Power Pool
NWPPC	Northwest Power Planning Council
OATT	Open Access Transmission Tariff
O&M	Operation and Maintenance
OMB	Office of Management and Budget
OPUC	Oregon Public Utility Commission
ORC	Operating Reserves Credit
OY	Operating Year (Aug-Jul)
PA	Public Agency
PacifiCorp	PacifiCorp
PBL	Power Business Line
PDP	Proportional Draft Points
PF	Priority Firm Power (rate)
PFR	Power Function Review
PGE	Portland General Electric Company
	1 2

PMAPower Marketing AgenciesPNCAPacific Northwest Coordination AgreementPNGCPacific Northwest Generating CooperativePNRRPlanned Net Revenues for RiskPNWPacific NorthwestPODPoint of DeliveryPOIPoint of Integration/Point of InterconnectionPOMPoint of MeteringPPCPublic Power CouncilPPLMPP&L Montana, LLCProject ActBonneville Project ActPSPower Sales AgreementPSCPower Sales AgreementPSEPuget Sound EnergyPSWPacific SouthwestPTPPoint-to-Point TransmissionPUDPublic or People's Utility DistrictRAMRate Analysis Model (computer model)RASRenewable Northwest ProjectRDRegional DialogueREPRegional DialogueREPRegional DialogueREPRegidential Load (rate)RMSRemodel Computer model)Risk/ModRisk Analysis Model (computer model)RiskSimRisk Simulation ModelRLResidential Exchange ProgramRFPRequest for ProposalRiskSimRisk Simulation ModelRLResidential Load (rate)RMSRemode Metering SystemRODRecord of DecisionRPSAResidential Purchase and Sale AgreementRTORegional Transmission OperatorSUCTSingle-Cycle Combustion TurbineSlice of the System (product)SMESubject Matter Expert<	PGP	Public Generating Pool
PNCAPacific Northwest Coordination AgreementPNGCPacific Northwest Generating CooperativePNRRPlanned Net Revenues for RiskPNWPacific NorthwestPODPoint of DeliveryPOIPoint of Integration/Point of InterconnectionPOMPoint of MeteringPPCPublic Power CouncilPPLMPP&L Montana, LLCProject ActBonneville Project ActPSPower Services (formerly Power Business Line)PSAPower Sales AgreementPSCPower Sales ContractPSEPuget Sound EnergyPSWPacific SouthwestPTPPoint-to-Point TransmissionPUDPublic or People's Utility DistrictRAMRate Analysis Model (computer model)RASRemedial Action SchemeReclamationBureau of ReclamationRepewable NorthwestRenewable Northwest ProjectRDRegional DialogueREPResidential Exchange ProgramRFPRequest for ProposalRiskModRisk Analysis Model (computer model)RiskSimRisk Simulation ModelRLResidential David (rate)RMSRemote Metering SystemRODRecord of DecisionRPSAResidential Purchase and Sale AgreementRTORegional Transmission OperatorSCCTSingle-Cycle Combustion TurbineSlice of the System (product)SMESubject Matter ExpertSN CRACSafety-Net Cost Recovery Adjustment ClauseSOSSa	РМА	Power Marketing Agencies
PNGCPacific Northwest Generating CooperativePNRRPlanned Net Revenues for RiskPNWPacific NorthwestPODPoint of DeliveryPOIPoint of Integration/Point of InterconnectionPOMPoint of MeteringPPCPublic Power CouncilPPLMPP&L Montana, LLCProject ActBonneville Project ActPSPower Sales AgreementPSCPower Sales ContractPSEPuget Sound EnergyPSWPacific SouthwestPTPPoint-to-Point TransmissionPUDPublic or People's Utility DistrictRAMRate Analysis Model (computer model)RASRemedial Action SchemeReclamationBureau of ReclamationRepeRegional DialogueREPRegional DialogueRFPRegional DialogueRFPRegional Transmission OperationRFPRegional Transmission OperationRFPRegional DialogueREPResidential Exchange ProgramRFPRegional DialogueRFPRegional DialogueRFPRegional Transmission OperatorRODRecord of DecisionRPSAResidential Purchase and Sale AgreementRTORegional Transmission OperatorSCCTSingle-Cycle Combustion TurbineSliceSlice of the System (product)SMESubject Mattre ExpertSN CRACSafety-Net Cost Recovery Adjustment ClauseSOSSave Our <i>Wild</i> SalmonSUMYStepped-Up Mult	PNCA	Pacific Northwest Coordination Agreement
PNRRPlanned Net Revenues for RiskPNWPacific NorthwestPODPoint of DeliveryPOIPoint of Integration/Point of InterconnectionPOMPoint of MeteringPPCPublic Power CouncilPPLMPP&L Montana, LLCProject ActBonneville Project ActPSPower Sales AgreementPSCPower Sales AgreementPSCPower Sales ContractPSEPuget Sound EnergyPSWPacific SouthwestPTPPoint-to-Point TransmissionPUDPublic or People's Utility DistrictRAMRate Analysis Model (computer model)RASRemedial Action SchemeReclamationBureau of ReclamationRenewable NorthwestRenewable Northwest ProjectRDRegional DialogueREPResidential Exchange ProgramRFPRequest for ProposalRiskModRisk Analysis Model (computer model)RiskSimRisk Simulation ModelRLResidential Load (rate)RMSRemote Metering SystemRODRecord of DecisionRPSAResidential Purchase and Sale AgreementRTORegional Transmission OperatorSCCTSingle-Cycle Combustion TurbineSliceSlice of the System (product)SMESubject Matter ExpertSN CRACSafety-Net Cost Recovery Adjustment ClauseSOSSave Our <i>Wild</i> SalmonSUMYStepped-Up Multivear	PNGC	Pacific Northwest Generating Cooperative
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SUMY Stepped-Up Multivear	SUB	Springfield Utility Board
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SWPA Southwestern Power Administration	SWPA	Southwestern Power Administration
TAC Targeted Adjustment Charge	TAC	Targeted Adjustment Charge
TBL Transmission Business Line	TBL	Transmission Business Line
Tcf Trillion Cubic Feet	Tef	Trillion Cubic Feet
TPP Treasury Payment Probability	ТРР	Treasury Payment Probability
Transmission System Act Federal Columbia River Transmission System Act	Transmission System Act	Federal Columbia River Transmission System Act

TRL	Total Retail Load
Tribes	Columbia River Inter-Tribal Fish Commission, Nez Perce,
	Yakama Nation, collectively
TS	Transmission Services (formerly Transmission Business Line)
UAI Charge	Unauthorized Increase Charge
UAMPS	Utah Associated Municipal Power Systems
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 (formally called
	WSCC)
WMG&T	Western Montana Electric Generating and Transmission
	Cooperative
WPAG	Western Public Agencies Group
WPRDS	Wholesale Power Rate Development Study
WSCC	Western Systems Coordination Council (now WECC)
WSPP	Western Systems Power Pool
WUTC	Washington Utilities and Transportation Commission
Yakama	Confederated Tribes and Bands of the Yakama Nation

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LOOKBACK STUDY

Overview of the Study

The Lookback Study present BPA's response to the remand order of the United States Court of Appeals for the Ninth Circuit (Ninth Circuit or Court) concerning BPA's WP-02 rates. Three related opinions have placed BPA in the position of correcting past (fiscal years (FY) 2002-2006) and current (FY 2007-2008) errors in the allocation of costs included in BPA's wholesale power rates to certain customers. In *Golden NW Aluminum, Inc. v. Bonneville Power Admin.*, 501 F.3d 1037, (9th Cir. 2007) (*Golden NW*), the Court held that BPA's WP-02 power rates had improperly allocated the costs of the 2000 Residential Exchange Program Settlement Agreements (REP Settlement Agreements), as amended (REP settlements), to BPA's preference customers. Because the Court held that BPA's allocation of REP settlement costs in the WP-02 rates was improper, BPA knows that the allocation of such costs in the WP-07 rates is similarly flawed.

In addition, in *Golden NW*, the Court held that BPA's WP-02 fish and wildlife cost estimates, and by extension the rates set pursuant to those estimates, were not supported by substantial evidence. The Court indicated BPA had relied on outdated assumptions and had not appropriately considered information presented to it regarding its fish and wildlife costs. BPA's approach to addressing fish and wildlife costs for the WP-07 rates does not suffer the same flaws identified by the Court in the WP-02 rates. Nonetheless, BPA is taking steps to ensure that this WP-07 Supplemental Proposal rates for FY 2009 are based on the most recent projections of fish and wildlife costs that reflect the information available at the time of rate development.

In a companion case, the Court held that BPA's the REP Settlement Agreements with the IOUs
were contrary to the Northwest Power Act. *Portland General Elec. Co. v. Bonneville Power*

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Admin., 501 F.3d 1009 (9th Cir. 2007) (*PGE*). Subsequent to the *Golden NW* and *PGE*decisions, the Court ruled on three petitions for review challenging related Load Reduction
Agreements (LRAs) BPA executed with two IOUs during the energy crisis of 2000-2001. The
Court dismissed two of the petitions for lack of jurisdiction and one petition as moot. The Court
also reviewed challenges to amendments to the REP Settlement Agreements adopted in 2004.
In *Public Utility Dist. No. 1 of Snohomish County, Wash. v. Bonneville Power Admin.*, 506 F.3d
1145 (9th Cir. 2007) (*Snohomish*), the Court remanded the amendments and a contract provision
establishing a "Reduction of Risk" discount to BPA.

The Lookback Study presents BPA's proposal to reform its WP-02 and WP-07 rates to be consistent with the Court's direction. In doing so, BPA is proposing that the actual rates charged consumer-owned utilities (COUs) between October 1, 2001 and September 30, 2008 <u>not</u> be recalculated and revised billings issued. Rather, BPA proposes that the amount of costs overpaid to IOUs be identified and returned to preference customers through the various means explained in this Study.

The REP was established through section 5(c) of the Pacific Northwest Electric Power Planning and Conservation Act (Northwest Power Act), 16 U.S.C. § 839, et seq. Section 5(c) provides that

Whenever a Pacific Northwest electric utility offers to sell electric power to the Administrator at the average system cost of that utility's resources in each year, the Administrator shall acquire by purchase such power and shall offer, in exchange, to sell an equivalent amount of electric power to such utility for resale to that utility's residential users within the region.

16 U.S.C. § 839c(c)(1). Further, section 7(b)(1) provides that

The Administrator shall establish a rate or rates of general application for electric power sold to meet the general requirements of public body, cooperative, and Federal agency customers within the Pacific Northwest, and loads of electric utilities under section 5(c).

16 U.S.C. § 839e(b)(1). This provision identifies that the rates to be paid by exchanging utilities for the power purchased from BPA be the same as those paid by preference customers.
However, section 7(b)(3) provides that the rates paid by exchanging utilities may be modified by the effects of the rate protection provided to preference customers by section 7(b)(2). BPA identifies the rate applicable to purchases from BPA under the REP as the Priority Firm Power (PF) Exchange rate.

Section 5(c)(1) provides that the rates paid by BPA for the power purchased from exchanging utilities under the REP is their average system cost (ASC) developed according to a methodology established consistent with section 5(c)(7). BPA developed its current ASC Methodology in 1984. The ASC Methodology sets forth the procedures used to determine each utility's ASC.

The REP, although couched in terms of a purchase and sale of power between BPA and the exchanging utility, can be reduced to a paper transaction because the amount of power purchased by BPA is equal to the amount of power purchased by the exchanging utility. The transaction results in payments made at the difference between the utility's ASC and BPA's PF Exchange rate, multiplied by the eligible exchange load.

Therefore, in order to determine the amounts of REP payments to properly allocate to preference
customers for the WP-02 and WP-07 rate periods, BPA must compute the ASCs and
PF Exchange rates applicable to each period. The PF Exchange rate can be determined only
after consideration of the section 7(b)(2) rate test. The Lookback Study sets forth BPA's
proposed calculations of each of the factors used in establishing REP payment amounts that
would have occurred in the absence of the REP settlements.

Once the proper REP payment amounts is determined for FY 2002-2008, a comparison with the amounts paid under the REP settlements can be used to determine the amount overpaid to the IOUs. The Study then lays out the mechanism for recovering these overpayments and returning them to COUs over time and starting in FY 2009.

Organization

The Lookback Study is divided into three parts following this introduction. These parts are: FY 2002-2006 Lookback; FY 2007-2008 Lookback; and Lookback Results. The FY 2002-2006 Lookback covers the period that the WP-02 rates were in effect. It sets forth BPA's calculations of an applicable PF Exchange rate that conform with section 7(b) of the Northwest Power Act and Golden NW as well as ASCs and loads that generally conform with the 1984 ASC Methodology.

The 2007-2008 Lookback covers the first two years that the WP-07 rates, BPA's current rates, have been in effect. It sets forth BPA's calculations of an applicable PF Exchange rate that conform with section 7(b) of the Northwest Power Act, as well as ASCs that generally conform with the 1984 ASC Methodology.

Finally, the Lookback Results part brings together the results of the first two parts and discusses the recovery and return of the amounts of overpayments to IOUs under the REP settlements. The PF Exchange rates and ASCs are applied to eligible residential and small farm loads to compute the proper REP amounts for each year that are then compared to the amounts paid to IOUs under the REP settlement. Other factors, such as the application of deemer balances accrued by IOUs when their ASCs were less than the PF Exchange rate and the amounts received by IOUs under LRAs, are included in the comparison through the application of a set of rules.

The results of these comparisons are the amounts overpaid to IOUs that need to be recovered and returned to PF customers. These overpayments to IOUs between October 2001 and September
2008 are called "Lookback Amounts." The Lookback Amounts are determined for each IOU by accumulating annual amounts. The Lookback Study also describes how BPA proposes to recover the Lookback Amounts from the IOUs and return them to preference customers.

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PART ONE: FY 2002-2006 LOOKBACK

- Section 1: FY 2002-2006 Introduction
- Section 2: Load Resource Study
- Section 3: Revenue Requirement
- Section 4: Market Price Forecast
- Section 5: Wholesale Power Rate Development Study, FY 2002-2006
- Section 6: Section 7(b)(2) Rate Test, FY 2002-2006
- Section 7: Backcast of IOU ASCs, FY 2002-2006

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1. FY 2002-2006 INTRODUCTION

Part One of the Lookback Study (FY 2002-2006) presents BPA's proposal to reform the WP-02 rates to be consistent with the Court's direction. BPA is proposing that the Court's remand to BPA can be satisfied by computing the amounts of REP Settlement costs overpaid to IOUs and charged to preference customers. To calculate these amounts, BPA must determine the proper amounts to be allocated to PF preference rates. BPA proposes that the proper amounts can be calculated only after determining the appropriate PF Exchange rate for the period. Because the PF Exchange rate and ASCs determined in the WP-02 rate proceeding was so intertwined with assumptions regarding the REP Settlement Agreements, BPA proposes that the WP-02 PF Exchange rate must be recalculated.

Part One sets forth the determination of the properly constructed PF Exchange rate for FY 2002-2006 after removing the effects of the REP Settlement Agreements. To do so, BPA "looks back" to 2001 when the final 2002 rates were determined and excises the REP Settlement Agreement assumptions from the rate calculations and replaces them with Residential Purchase and Sale Agreements (RPSAs) that conform to an REP consistent with sections 5(c) and 7(b).

18 The WP-02 rate proposal was conducted in three phases. First, in May 2000, BPA published its 19 WP-02 Final Proposal, that included a PF Exchange rate, and filed the proposal with the Federal 20 Regulatory Energy Commission (FERC). Shortly thereafter, conditions arose that led BPA to 21 conclude that the final rates were inadequate to assure cost recovery and BPA requested that 22 FERC stay review of the WP-02 Final Proposal. BPA then developed and published an 23 Amended Rate Proposal in December 2000. Immediately thereafter, as financial prospects 24 continued to deteriorate, BPA and customers began discussions that led to a settlement of issues 25 that was incorporated into the WP-02 Supplemental Rate Proposal that was published in

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February 2001. This Supplemental Proposal added a set of three Cost Recovery Adjustment
Clauses (CRACs) to the WP-02 Final Proposal rates and the revisions were adopted by the
Administrator in June 2001 and submitted to FERC for review and confirmation. BPA did not
perform the section 7(b)(2) rate test and the PF Exchange rate was not recalculated in the WP-02
Supplemental Proposal because, in part, the IOUs had signed the REP Settlement Agreements by
this time and the CRACs adequately addressed REP-related cost recovery issues.

However, BPA has determined that absent the REP Settlement Agreements, the failure to redo the section 7(b)(2) rate test would have fatally compromised the June 2001 rate structure due to the impact of the changed conditions on the results of the rate test and the PF Exchange rate. Relying solely on CRACs when conditions had changed so radically would not have assured preference customers of the proper rate protection, nor would it have assured IOUs of the proper level of REP payments. Therefore, BPA has examined the major assumptions affecting the calculation of the PF Exchange rate at the time of the WP-02 Supplemental Proposal for the purpose of calculating a proper PF Exchange rate. The load forecast and revenue requirement were updated based on data available in the WP-02 Supplemental Proposal, as was the market price forecast. The market price forecast affected not only BPA rates, but ASC forecasts as well. Also, whereas an important issue regarding the 7(b)(2) rate test was mooted by conditions in the WP-02 Final Proposal, those conditions had changed by June 2001 so that the issue would have been decided at that time. Based on the record of the WP-02 proceeding, the Administrator has now decided that the Mid-Columbia resources included in the 7(b)(2)(D) resource stack were improperly included and those resources are now removed. These changed assumptions are then incorporated into BPA's rate model as it existed at the conclusion of the WP-02 Supplemental Proposal stage of the WP-02 rate proceeding.

The following sections set forth the changes to the rate models and the inputs used to recompute
the PF Exchange rate for the FY 2002-2006 period. However, this newly-calculated

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PF Exchange rate is necessary but not sufficient to fully incorporate the removal of the REP 2 settlements from the rates charged. The rates also included CRACs that changed rate levels 3 throughout the rate period, and the REP settlements affected the CRAC results. Therefore, the 4 REP settlement impacts on the CRACs have also been removed through a simplified process described in this study. The "reformed" CRACs are then applied to achieve the final 6 PF Exchange rate used in this Lookback Study.

In addition to the PF Exchange rate, the ASCs for each IOU must be determined. Because the REP Settlement Agreements had attempted to settle disputes regarding various aspects of the REP, ASCs were not filed during the 2002-2006 lookback period. As a substitute, BPA has incorporated FERC Form 1 data into the ASC determination model in a manner consistent with the 1984 ASC Methodology and estimated the annual ASCs for each IOU for both ratesetting purposes (re-forecasts) and REP implementation purposes (backcasts). These are also explained in this Lookback Study.

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2.1 Load Forecast FY 2002-2006

2.1.1 Public and Federal Agency Load Forecast FY 2002-2006

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BPA has used the load obligation forecasts for the public body utilities, cooperative utilities, and the Federal agencies (together referred to as "Public Agencies") as presented in the 2002
Supplemental Proposal Final Study (WP-02-FS-BPA-09, page 2-8) for this Lookback Study.

LOAD RESOURCE STUDY

2.1.2 DSI Load Forecast FY 2002-2006

The forecast of sales to the direct service industries (DSI) is unchanged from the WP-02 Final Proposal, which was used for the WP-02 Supplemental Proposal Final Study.

2.1.3 Load Forecast FY 2007-2010

The WP-02 Supplemental Proposal did not include a 7(b)(2) rate test. Therefore, no load obligation forecasts for FY 2007-2010 were required. The Lookback Study assumes the REP settlement agreements are replaced by an REP. Therefore load obligation forecasts for FY 2007-2010 are required for the 7(b)(2) rate test.

The load obligation forecasts for FY 2007-2010 were retrieved from BPA's Load and Resource
Information System (LARIS) using a load obligation forecast consistent with that used in the
2002 Supplemental Proposal Final Study, WP-02-FS-BPA-09. These load obligation forecasts
can be found in the WP-02 Supplemental Proposal Final Study Documentation,
WP-02-FS-BPA-10. Table 1 displays the annual averages for FY 2002-2006 from the WP-02
Final Proposal and those used in this Lookback Study, which includes approximately
1,600 aMW of Slice load.

1 2	Table 1 Comparison of Public and Federal Agency Sales Obligation Forecasts
3	annual average megawatts
4	WP-02 Lookback
5	<u>Final Proposal</u> <u>Study Forecast</u>
6	FY 2002 4,130 5,728
7	FY 2003 4,221 5,776
8	FY 2004 4,335 5,823
9 10	FY 2005 4,414 5,870
10 11	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
12	(including about 1 600 aMW of Slice)
12	(including about 1,000 allow of Shee)
13	
14	2.1.4 IOU Load Forecast
15	In the WP-02 Final Proposal, BPA assumed 1,000 aMW of sales to the IOUs as established in
16	the REP Settlement Agreements. Absent the REP settlements there would have been no firm
17	power sales to the IOUs at the RL rate.
18	
19	2.2 Federal System Resources FY 2002-2006
20	The resources and contract purchase estimates for the Lookback Study are identical to the WP-02
21	Final Proposal, except for any updates to the Federal system augmentation purchase estimates.
22	These updates were not performed in the Load Resource Study, rather these changes were
23	incorporated in the Rate Analysis Model (RAM), described in this Study, Section 5.
24	
25	2.3 Load Forecast FY 2007-2008
26	There were no changes to the load forecast from the WP-07 Final Proposal.
27	
28	2.4 Federal System Resources FY 2002-2006
29	There were no changes to Federal System resources from the WP-07 Final Proposal.
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3. **REVENUE REQUIREMENT**

3.1 **Purpose of the Generation Revenue Requirement**

The purpose of this section is to establish the level of revenues from wholesale power rates that, in retrospect, would have been necessary to recover, in accordance with sound business principles, the Federal Columbia River Power System (FCRPS) costs associated with the production, acquisition, marketing, and conservation of electric power assuming that BPA had recalculated base rates in the WP-02 Supplemental Proposal. The generation revenue requirement includes: recovery of the Federal investment in hydro generation, fish and wildlife and conservation costs; Federal agencies' operations and maintenance (O&M) expenses allocated to power; capitalized contract expenses associated with non-Federal power suppliers such as Energy Northwest (EN); other power purchase expenses, such as short-term power purchases; power marketing expenses; cost of transmission services necessary for the sale and delivery of FCRPS power; and all other generation-related costs incurred by the Administrator pursuant to law.

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3.2 **Spending Level Development**

3.2.1 **Development Process for Spending Levels in the WP-02 Rate Case**

18 The development of spending levels reflected in the WP-02 Supplemental Proposal revenue 19 requirement was largely driven by the Regional Cost Review (Cost Review), a review of FCRPS 20 costs launched jointly, in September 1997, by BPA and the Northwest Power and Conservation Council (NPCC). The result of the Cost Review was a set of recommendations to reduce the 22 costs of BPA's commercial operations and constrain the costs of its public benefit programs. 23 The Cost Review was built on the earlier Comprehensive Regional Review (Comprehensive 24 Review), which envisioned a dramatically shrinking role for BPA. Both the Comprehensive

Review and the Cost Review are described in the Final Revenue Requirement Study, WP-02-FS-BPA-02, Section 2.

3.2.2 Adjustments to Program Expenses Used in the WP-02 Rate Proceeding for the Lookback

The forecasts of program expenses used in the WP-02 Supplemental Proposal have not been changed for this proceeding. The program expense assumptions used in the WP-02 Final Proposal were the only complete set of program expense forecasts available during the WP-02 Supplemental Proposal proceeding.

3.2.3 Capital Funding

FCRPS capital investments include Corps, Reclamation, and BPA capital investments and third-party resource investments for which debt is secured by BPA (capitalized contracts). The WP-02 Final Proposal FCRPS capital outlay projections were \$1,399 million for the FY 2002-2006 rate period. With the exception of the following items, these investment projects were not adjusted as part of the Lookback process.

Two capital investment assumptions important to the revenue requirement study and repayment study would have been updated if BPA had revised power base rates in the WP-02 Supplemental Proposal. These updates are reflected in this Supplemental Proposal. First, the WP-02 Supplemental Proposal did not include a forecast of capital spending for the Conservation Augmentation (ConAug) program. The program was created in 2000 to aid in meeting BPA's power augmentation needs. A forecast of ConAug capital investment, totaling \$300 million for the FY 2002-2006 rate period, was available near the end of the WP-02 Supplemental Proposal process. If the revenue requirement study had been revised, that forecast would have been used in the determination of associated annual costs to replace the rough estimates of potential ConAug expenses that had been included in WP-02 rate development. Second, the plant-inservice forecast for the Columbia River Fish Mitigation (CRFM) project had changed by the end
of the WP-02 Supplemental Proposal process and would have been used if the revenue
requirement study had been revised. The new forecast lowered CRFM capital investment by
approximately \$225 million beginning in FY 2001 through the FY 2002-2006 rate period.

In addition, the WP-02 Final Proposal included projected investments for FY 2000. At the time of the WP-02 Supplemental Proposal, the actual investments for FY 2000 were known. In cases where the actual results for FY 2000 differed from the forecast, the forecasted investments and plant-in-service dates were modified to determine interest expense and depreciation/amortization expense.

3.3 Generation Revenue Requirement

For each year of a rate test period, BPA prepares two tables that reflect the process by which revenue requirements are determined. The Income Statement includes projections of Total Expenses, PNRR, and if necessary, a Minimum Required Net Revenues component. The Statement of Cash Flows shows the analysis used to determine Minimum Required Net Revenues and the cash available for risk mitigation. The table formats and line descriptions in this section are consistent with those used in the WP-02 Supplemental Proposal. They are not the same formats and descriptions used in the Supplemental Proposal.

The Income Statement (Table 3.1) displays the components of the annual revenue requirements, which include Total Operating Expenses (Line 16), Net Interest Expense (Line 24), Minimum Required Net Revenues (Line 26), and Planned Net Revenues for Risk (Line 27). The sum of these four major components is the Total Revenue Requirement (Line 29).

The amounts shown in Total Operating Expenses and Net Interest Expense are primarily established outside the ratesetting process. The Minimum Required Net Revenues (Line 26) result from an analysis of the Statement of Cash Flow (Table 3.2). Minimum Required Net Revenues may be necessary to ensure that revenue requirements are sufficient to cover all cash requirements, including annual amortization of the Federal investment as determined in the power repayment studies and any other cash requirements such as payment of irrigation assistance.

The Statement of Cash Flow analyzes annual cash inflows and outflows. Cash provided by Current Operations (Line 7), driven by the Non-Cash Expenses shown in Lines 4, 5, and 6 must be sufficient to compensate for the difference between Cash Used for Capital Investments (Line 13) and Cash from Treasury Borrowing and Appropriations (Line 20). If cash provided by Current Operations are not sufficient, Minimum Required Net Revenues must be included in revenue requirements to accommodate the shortfall, yielding at least zero annual Increase in Cash (Line 21). The Minimum Required Net Revenues shown on the Statement of Cash Flows (Line 2) is then incorporated in the Income Statement (Line 26).

3.3.1 Income Statement

Below is a line-by-line description of the components in the Income Statement (Table 3.1).
Documentation for Revenue Requirement Study, WP-02-FS-BPA-02B, Volume 1 provides additional information on the development and use of the data contained in the tables.
Additional information on the development of data used in this Lookback process can be found in the Lookback Documentation, WP-07-E-BPA-44A, Section 3.

O&M (Line 2). O&M represents FCRPS system O&M expenses incurred by the COE, Reclamation, U.S. Fish and Wildlife Service (USFWS), and BPA. Specific BPA O&M

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expenses include generation oversight, power scheduling, (including upstream benefits), power marketing, Civil Service Retirement System pension expense, inter-business line expenses, administrative and support services, GTAs, and the costs of the NPPC. This line also includes payments to the Confederated Tribes of the Colville Reservation as called for under the Colville Settlement Act.

Short-Term Power Purchases (Line 4). Short-term purchases of power and off-system storage services are made to provide operational flexibility, displace higher cost purchases, and augment the system output to serve Subscription loads. System augmentation purchases are made to achieve load/resource balance on an annual basis.
Balancing power purchases are made to achieve load/resource balance on an hourly, daily, and monthly basis. *See* Final Documentation for Revenue Requirement Study, WP-02-FS-BPA-02A, Volume 1, Section 4; and Final WPRDS, WP-02-FS-BPA-05.

Long-Term Power Purchases (Line 5). Long-term power purchases are acquisitions of cost-effective resources intended to meet BPA's load obligations. These long-term commitments include the Idaho Falls and Cowlitz Falls hydroelectric projects, the billing credits and competitive acquisitions programs, and renewable resources such as wind and geothermal resource development. *See* Final Documentation for Revenue Requirement Study, WP-02-FS-BPA-02A, Volume 1, Section 4.

Trojan (Line 6). Through net-billing arrangements, BPA has acquired Eugene Water and Electric Board's (EWEB) 30 percent ownership share of the now-terminated Trojan Nuclear Project. BPA's cost includes EWEB's share of Trojan phase-down, decommissioning costs, EWEB's debt service, and other Trojan-related costs. EWEB's other Trojan-related costs include contributions in lieu of taxes and EWEB's direct costs. *See* Final Documentation for Revenue Requirement Study, WP-02-FS-BPA-02A, Volume 1, Sections 4 and 10.

WNP-1, -2, and –3 (Lines 7, 8 and 9). Through project and net-billing agreements with Energy Northwest and BPA preference customer participants, and through exchange agreements with IOUs, BPA has acquired 100 percent of the capability of WNP-1 and -2 (now known as Columbia Generating Station, CGS) and 70 percent of the capability of WNP-3. Under a settlement agreement, BPA has certain rights to and obligations for the IOUs' 30 percent share of WNP-3.

BPA is obligated to fund all cash requirements associated with its share of these projects. These cash requirements include debt service and legal costs for WNP-1; debt service, operating, decommissioning, and capital costs for WNP-2; and debt service, 70 percent of preservation, and IOU settlement costs for WNP-3. IOU settlement costs for WNP-3 include the remaining 30 percent of preservation costs for that project.

Debt service costs include interest on outstanding Energy Northwest bonds, retirement of bonds according to schedules in each bond issue, and a reserve and contingency amount equal to 10 percent of the annual interest and retirement of bonds, less investment income on various accounts (Bond Fund Reserve Account, Bond Fund Interest Account, Reserve and Contingency Fund, Bond Fund Principal Account, and Revenue Fund), and transfer of any prior year's surplus reserve and contingency. *See* Final Documentation for Revenue Requirement Study, WP-02-FS-BPA-02A, Volume 1, Sections 4 and 10.

Residential Exchange Program (Line 10). BPA's rate development methodology is based on the gross costs of the program, that is, the utilities' ASCs times their exchangeable loads.

BPA Fish and Wildlife O&M (Line 11). BPA funds projects designed to accomplish measures in the NPCC's Columbia River Basin Fish and Wildlife Program and the 1995 National Marine Fisheries Service (NMFS) Biological Opinion, and to be consistent with the fish cost stabilization agreement. This line item includes the expense portion of BPA's Fish and Wildlife "direct" Program, including staff costs and operating expenses of fish and wildlife activities. These activities include measures to implement the NPCC's Fish and Wildlife Program and Biological Opinions issued by the NMFS and the USFWS. *See* Final Documentation for Revenue Requirement Study, WP-02-FS-BPA-02A, Volume 1, Sections 4 and 13.

Amortization of Fish and Wildlife Investment (Line 12). Amortization of Fish and Wildlife is the annual expense associated with the write-off of BPA capital investments in BPA's Fish and Wildlife Program. The annual write-off is calculated using the straight-line method of depreciation over an expected average life of 15 years. *See* Final Documentation for Revenue Requirement Study, WP-02-FS-BPA-02A, Volume 1, Sections 4 and 5.

Conservation (Line 13). The Northwest Power Act requires BPA to treat cost-effective conservation as an electric power resource in planning to meet the Administrator's obligations to serve loads. The competitive market situation is driving the need for alternatives to traditional approaches to developing conservation resources. BPA was transitioning from centralized BPA-funded programs to new customer-driven approaches. The costs shown here reflect BPA's participation with other regional entities supporting marketing transformation and development activities, as well as facilitating activities that meet the needs of customers and create business opportunities for the private sector.

See Final Documentation for Revenue Requirement Study, WP-02-FS-BPA-02A, Volume 1, Sections 4 and 10.

Amortization of Conservation Investment (Line 14). Amortization of Conservation is the annual expense associated with the write-off of BPA's investments in energy conservation measures. The annual conservation write-off is calculated using the straight-line method of depreciation over an expected life of 20 years. *See* Final Documentation for Revenue Requirement Study, WP-02-FS-BPA-02A, Volume 1, Sections 4 and 5. This line also includes the amortization of ConAug capital investments added as a part of the Lookback process. *See* Lookback Documentation, WP-07-E-BPA-44A, Section 3.

Federal Projects Depreciation (Line 15). Depreciation is the annual capital recovery expense associated with FCRPS plant-in-service. Reclamation and COE (including lower Snake River Fish and Wildlife Compensation Plan) plant, including assets for fish and wildlife recovery, is depreciated by the straight-line method of calculation, using the average service life of each project. Capital equipment (office furniture and fixtures and data processing hardware and software) is also depreciated by the straight-line method using the average service life for the categories of capital investment. *See* Final Documentation for Revenue Requirement Study, WP-02-FS-BPA-02A, Volume 1, Sections 4 and 5. This line also includes adjustments to amortization associated with the use of a revised CRFM forecast. *See* Lookback Documentation, WP-07-E-BPA-44A, Section 3.

Total Operating Expenses (Line 16). Total Operating Expenses is the sum of the above expenses (Lines 2 through 15).

Interest on Appropriated Funds (Line 19). Interest on Appropriated Funds includes interest on BPA, COE, and Reclamation appropriations as determined in the generation repayment studies. *See* Final Documentation for Revenue Requirement Study, WP-02-FS-BPA-02A, Volume 1, Sections 4, 6, and 9. This line also includes adjustments to interest expense associated with the use of a revised CRFM forecast. *See* Lookback Documentation, WP-07-E-BPA-44A, Section 3.

Interest on Long-Term Debt (Line 20). Interest on long-term debt includes interest on bonds that BPA issues to the U.S. Treasury to fund investments in capital equipment, conservation, fish and wildlife, and to fund Reclamation and COE investments under the Energy Policy Act of 1992 (EPA-92) (P.L. No. 102-486, 1992 U.S. Code Cong. & Admin. News, 106 Stat. 2776). Such interest expense is determined in the generation repayment studies. Any payments of premiums for bonds projected to be amortized are included in this line. Also included is an interest income credit calculated in the generation repayment studies on funds to be collected during each year for payments of Federal interest and amortization at the end of the fiscal year. *See* Final Documentation for Revenue Requirement Study, WP-02-FS-BPA-02A, Volume 1, Sections 4, 6, and 9. This line also includes an increase to interest expense associated with the inclusion of ConAug investments. *See* Lookback Documentation, WP-07-E-BPA-44A, Section 3.

Interest Credit on Cash Reserves (Line 21). An interest income credit is also computed on the projected year-end cash balance in the BPA fund attributable to the Power function that carries over into the next year. It is credited against bond interest. *See* Final Documentation for Revenue Requirement Study, WP-02-FS-BPA-02A, Volume 1, Section 6.

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Capitalization Adjustment (Line 22). Implementation of the Refinancing Act entailed
a change in capitalization on BPA's financial statements. Outstanding appropriations
were reduced as a result of the refinancing by \$2,142 million in the generation function.
The reduction is recognized annually over the remaining repayment period of the
refinanced appropriations. The annual recognition of this adjustment is based on the
increase in annual interest expense resulting from implementation of the Refinancing Act,
as shown in repayment studies for the year of the refinancing transaction (1997). The
capitalization adjustment is included on the income statement as a non-cash, contraexpense. *See* Final Documentation for Revenue Requirement Study,
WP-02-FS-BPA-02A, Volume 1, Section 8.

Allowance for Funds Used During Construction (AFUDC) (Line 23). AFUDC is a credit against interest costs on long-term debt (Line 20). This reduction to interest costs reflects an estimate of interest on the funds used during the construction period of facilities that have yet to be placed in service. AFUDC is capitalized along with other construction costs and is recovered through rates over the expected service life of the related plant as part of the depreciation expense after the facilities are placed in service. AFUDC, which is calculated outside the generation repayment studies, is associated with the COE and Reclamation capital investments direct-funded by BPA. *See* Final Documentation for Revenue Requirement Study, WP-02-FS-BPA-02A, Volume 1, Section 4.

Net Interest Expense (Line 24). Net Interest Expense is computed as the sum of Interest on Appropriated Funds (Line 19), Interest on Long-Term (Line 20), Interest Credit on Cash Reserves (Line 21), capitalization adjustment (Line 22), and AFUDC (Line 23).

Total Expense (Line 25). Total Expenses are the sum of Total Operating Expenses (Line 16) and Net Interest Expense (Line 24).

Minimum Required Net Revenues (Line 26). Minimum Required Net Revenues, an input from Line 2 of the Statement of Cash Flows (Table 3.2), may be necessary to cover cash requirements in excess of accrued expenses. *See* Final Documentation for Revenue Requirement Study, WP-02-FS-BPA-02A, Volume 1, Section 1.

Planned Net Revenues for Risk (Line 27). Planned Net Revenues for Risk are the amount of net revenues to be included in rates for financial risk mitigation. Planned net revenues for risk of \$98 million per year (in addition to starting reserves, the cash flow when non-cash expenses exceed cash payments, the CRAC and other risk mitigation tools) are available to mitigate risk in FY 2002-2006.

Total Planned Net Revenues (Line 28). Total Planned Net Revenues is the sum of Minimum Required Net Revenues (Line 26) and Planned Net Revenues for Risk (Line 27).

Total Revenue Requirement (Line 29). Total Revenue Requirement is the sum of Total Expenses (Line 25) and Total Planned Net Revenues (Line 28).

3.3.2 Statement of Cash Flows

Below is a line-by-line description of each of the components in the Statement of Cash Flows
(Table 3.2). Volumes 1 and 2 of Documentation for Revenue Requirement Study,
WP-02-FS-BPA-02A and WP-02-FS-BPA-02B, provide additional information related to the use
and development of the data contained in table.

Minimum Required Net Revenues (Line 2). Determination of this line is a result of annual cash inflows and outflows shown on the Statement of Cash Flows. Minimum Required Net Revenues may be necessary so that the cash provided from operations will be sufficient to cover the planned amortization and irrigation assistance payments (the difference between Lines 13 and 20) without causing the Annual Increase (Decrease) in Cash (Line 21) to be negative. The Minimum Required Net Revenues amount determined in the Statement of Cash Flows is incorporated in the Income Statement (Line 26).

Federal Projects Depreciation (Line 4). Depreciation is from the Income Statement (Table 3.1, Line 15). It is included in computing Cash Provided By Operations (Line 8) because it is a non-cash expense of the FCRPS.

Amortization of Conservation/Fish and Wildlife Investment (Line 5). Amortization of Conservation and Fish and Wildlife Investment is from the Income Statement (Table 3.1, Lines 12 and 14). Similar to Depreciation (Line 4), it is a non-cash expense.

Capitalization Adjustment (Line 6). Capitalization Adjustment is from the Income
Statement (Table 3.1, Line 22). It is a non-cash (contra) expense. *See* Final
Documentation for Revenue Requirement Study, WP-02-FS-BPA-02A, Volume 1,
Section 8.

Cash Provided By Current Operations (Line 7). Cash Provided By Current Operations, the sum of Lines 2, 4, 5, and 6 is available for the year to satisfy cash requirements.

Investment in Utility Plant (Line 10). Investment in Utility Plant represents the annual increase in additions to plant-in-service for COE, Reclamation, and BPA including construction work-in-progress funded by bonds. *See* Final Documentation for Revenue Requirement Study, WP-02-FS-BPA-02A, Volume 1, Section 5.

Investment in Conservation (Line 11). Investment in Conservation represents the annual increase in capital expenditures associated with Conservation programs. *See* Final Documentation for Revenue Requirement Study, WP-02-FS-BPA-02A, Volume 1, Section 4.

Investment in Fish and Wildlife (Line 12). Investment in Fish and Wildlife represents the annual increase in BPA's capital expenditures to fund projects designed to comply with the NPCC's Columbia River Basin Fish and Wildlife Program and Biological Opinions issued by NMFS and USFWS. These amounts are consistent with the Principles. *See* Final Documentation for Revenue Requirement Study, WP-02-FS-BPA-02A, Volume 1, Sections 5 and 13.

Cash Used for Capital Investments (Line 13). Cash Used for Capital Investments is the sum of Lines 10, 11, and 12.

Increase in Long-Term Debt (Line 15). Increase in Long-Term Debt reflects the new bonds issued by BPA to the U.S. Treasury to fund capital equipment, conservation, and fish and wildlife capital programs and to direct-fund Reclamation and COE investments under the EPA-92. Also included in this amount are any notes issued to the U.S. Treasury. *See* Final Documentation for Revenue Requirement Study, WP-02-FS-BPA-02A, Volume 1, Section 7.

1 **Repayment of Long-Term Debt (Line 16).** Repayment of Long-Term Debt is BPA's 2 planned repayment of outstanding bonds issued by BPA to the U.S. Treasury as 3 determined in the generation repayment studies. See Final Documentation for Revenue 4 Requirement Study, WP-02-FS-BPA-02A, Volume 1. 5 6 **Increase in Congressional Capital Appropriations (Line 17).** Increase in 7 Congressional Capital Appropriations represents Congressional appropriations projected 8 to be received during the year for COE and Reclamation capital projects. See Final 9 Documentation for Revenue Requirement Study, WP-02-FS-BPA-02A, Volume 1, 10 Section 5. 11 12 **Repayment of Capital Appropriations (Line 18).** Repayment of Capital 13 Appropriations represents projected amortization of outstanding COE and Reclamation 14 appropriations as determined in the generation repayment studies. See Final Documentation for Revenue Requirement Study, WP-02-FS-BPA-02B, Volume 2. 15 16 17 Payment of Irrigation Assistance (Line 19). Payment of Irrigation Assistance 18 represents the payment of appropriated capital construction costs of Reclamation 19 irrigation facilities that have been determined to be beyond the ability of the irrigators to 20 pay and allocated to generation revenues for repayment. See Final Documentation for 21 Revenue Requirement Study, WP-02-FS-BPA-02A, Volume 1, Section 10. 22 23 **Cash From Treasury Borrowing and Appropriations (Line 20).** Cash from Treasury 24 Borrowing and Appropriations is the sum of Lines 15 through 19. This is the net cash 25 flow resulting from increases in cash from new long-term debt and capital appropriations and decreases in cash from repayment of long-term debt and capital appropriations. 26 27

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1	Annual Increase (Decrease) in Cash (Line 21). Annual Increase (Decrease) in Cash is				
2	the sum of Lines 7, 13, and 20 and reflects the annual net cash flow from current				
3	operations and investing and financing activities. Revenue requirements are set to meet				
4	all projected annual cash flow requirements, as included on the Statement of Cash Flows.				
5	A decrease shown in this line would indicate that annual revenues would be insufficient				
6	to cover the year's cash requirements. In such cases, Minimum Required Net Revenues				
7	are included to offset such decrease. See discussion above of Minimum Required Net				
8	Revenues (Line 2).				
9					
10	Planned Net Revenues for Risk (Line 22). Planned Net Revenues for Risk reflects the				
11	amounts included in revenue requirements to meet BPA's risk mitigation objectives				
12	(from Table 3.1, Line 27).				
13					
14	Total Annual Increase (Decrease) in Cash (Line 23). Total Annual Increase				
15	(Decrease) in Cash is the sum of Lines 21 and 22. It is the total annual cash that is				
16	projected to be available to add to BPA's cash reserves.				
17					
18	3.3.3 Revenue Test				
19	In a typical rate proceeding, the revenue requirement study would demonstrate the continuing				
20	adequacy of existing rates must be tested annually, consistent with RA 6120.2. The revenue tests				
21	determine whether the revenues projected from current rates and from proposed rates will meet				
22	cost recovery requirements as well as the U.S. Treasury payment probability risk goal for the rate				
23	period. Since we are not recalculating rates for retroactive application, these tests of adequacy				
24	are not necessary.				
25					
26					

1		Table 3.1							
2	GENERATION REVENUE REQUIREMENT INCOME STATEMENT								
3	(\$000s)								
4			A FY 2002	B FY 2003	C FY 2004	D FY 2005	E FY 2006		
5	1 OPERATING EXPENS 2 OPERATION & M	ES: AINTENANCE	469,614	453,220	446,510	441,161	438,260		
6	3 PURCHASE AND 4 SHORT-TEF	EXCHANGE POWER- M POWER PURCHASES	931,218	835,152	838,667	890,696	843,768		
7	5 LONG-TERM 6 TROJAN	1 POWER PURCHASES	65,904 19,547	66,159 14,154	66,450 12,564	66,977 12,589	67,414 12,609		
8	7 WNP NO. 1		178,104	168,240	175,007	168,294 361.640	180,376		
0	9 WNP NO. 3		156.806	156.162	152.401	152.649	151.006		
9	10 RESIDENTIA	AL EXCHANGE PROGRAM	0	0	0	0	0		
/	11 BPA FISH & WILI	DLIFE O&M	131,700	138,000	140,100	142,900	144,400		
10	12 AMORTIZATION	OF BPA FISH & WILDLIFE INVESTMENT	18,899	20,969	22,864	24,521	25,533		
10	13 CONSERVATION		34,929	33,340	33,640	34,040	34,340		
11		CTS DEPRECIATION	01,103	00,120	100 364	103 207	105 731		
11	16 TOTAL OPERATING E	XPENSES	2,515,746	2,453,316	2,451,023	2,462,844	2,468,886		
12	17 INTEREST EXPENSE: 18 INTEREST ON F	EDERAL INVESTMENT-							
13	19 ON APPROF	PRIATED FUNDS	240.719	242.176	247.781	255.551	255.779		
	20 ON LONG-T	ERM DEBT	64,034	70,273	78,934	88,175	96,674		
14	21 INTEREST CREE	IT ON CASH RESERVES	(61,063)	(67,549)	(75,054)	(79,878)	(84,818)		
17	22 CAPITALIZATION	I ADJUSTMENT	(47,738)	(47,528)	(47,875)	(44,790)	(44,790)		
15	23 ALLOWANCE FC	R FUNDS USED DURING CONSTRUCTION	(2,992)	(2,890)	(2,050)	(2,056)	(2,044)		
13	24 NET INTEREST EXPE	NSE	192,960	194,482	201,736	217,002	220,801		
16	25 TOTAL EXPENSES		2,708,706	2,647,798	2,652,759	2,679,846	2,689,687		
17	26 MINIMUM REQUIRED	NET REVENUES 1/	0	0	0	998	0		
1 /	27 PLANNED NET REVE		98,000	98,000	98,000	98,000	98,000		
18	28 TOTAL PLANNED NE	REVENUES (26+27)	98,000	98,000	98,000	98,998	98,000		
19	29 TOTAL REVENUE RE	QUIREMENT	2,000,700	2,745,796	2,750,759	2,110,044	2,101,001		
20	1/ SEE NOTE ON CASH	FLOW TABLE.							
21									
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	l I						
1		Table 3.2					
2	GENERATION REVENUE REQUIREMENT						
3		(\$000s)	00				
4			A FY 2002	B FY 2003	C FY 2004	D FY 2005	E FY 2006
5	1 2 3	CASH FROM CURRENT OPERATIONS: MINIMUM REQUIRED NET REVENUES 1/ EXPENSES NOT REQUIRING CASH:	0	0	0	998	0
6	4 5	FEDERAL PROJECTS DEPRECIATION AMORTIZATION OF CONSERVATION/F&W INVESTMENT	96,328 80,062	98,991 81,095	100,364 80,972	103,207 88,682	105,731 99,183
7	6 7	CAPITALIZATION ADJUSTMENT CASH PROVIDED BY CURRENT OPERATIONS	(47,738) 128,652	(47,528) 132,558	(47,875) 133,461	(44,790) 148,097	(44,790) 160,124
8	8	CASH USED FOR CAPITAL INVESTMENTS:					
9	10 11	UTILITY PLANT CONSERVATION	(228,000)	(168,700) 0	(297,500) 0	(185,525) 0	(220,225)
10	12 13	FISH & WILDLIFE CASH USED FOR CAPITAL INVESTMENTS	(34,732) (262,732)	(38,317) (207,017)	(35,825) (333,325)	(33,988) (219,513)	(34,182) (254,407)
11	14	CASH FROM TREASURY BORROWING AND APPROPRIATIONS:					
12	15 16	INCREASE IN LONG-TERM DEBT REPAYMENT OF LONG-TERM DEBT	127,032 (66,000)	125,917 (25,622)	98,425 (27,400)	97,013 (30,757)	97,207 0
13	17 18 19	REPAYMENT OF CAPITAL APPROPRIATIONS PAYMENT OF IRRIGATION ASSISTANCE	(41,401) 0	(47,362) 0	234,900 (64,885) (739)	(117,340) 0	(128,476) 0
14	20	CASH FROM TREASURY BORROWING AND APPROPRIATIONS	155,331	134,033	240,301	71,416	125,931
15	21	ANNUAL INCREASE (DECREASE) IN CASH	21,251	59,574	40,437	0	31,648
16	22	PLANNED NET REVENUES FOR RISK	98,000	98,000	98,000	98,000	98,000
17	23	TOTAL ANNUAL INCREASE (DECREASE) IN CASH	119,251	157,574	138,437	98,000	129,648

1/ Line 21 must be greater than or equal to zero, otherwise net revenues will be added so that there are no negative cash flows for the year.

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4. MARKET PRICE FORECAST

4.1 Market Price Forecast for FY 2002-2006

BPA is not proposing any changes to the market price forecast from the WP-02 Supplemental

4 Proposal which was contained in the 2002 Supplemental Proposal Final Study,

FY 2006

WP-02-FS-BPA-09. The results of this market price forecast will be used in the Lookback and are represented in Table 4.1:

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Flat Annual Market Price Forecast (\$/MWh)			
Year	Price		
FY 2002	148.00		
FY 2003	63.00		
FY 2004	45.96		
FY 2005	49.51		

For more information, see Conger, et al., WP-07-E-BPA-56.

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4.2 Market Price Forecast for FY 2007-2008

BPA is not proposing any changes to the Market Price Forecast Study, WP-07-FS-BPA-03, or

Market Price Forecast Study Documentation, WP-07-FS-BPA-03A, published in the WP-07

22 Final Proposal.

5. WHOLESALE POWER RATE DEVELOPMENT STUDY, FY 2002-2006

5.1 Revised Forecasts of Average System Costs and Loads for FY 2002-2006

BPA made only one set of changes to the data inputs used in the WP-02 Final Proposal to revise the IOU ASC forecasts for the Lookback Study. These data changes updated the forward flatblock price forecasts, which were available from broker quotes in 2001. *See* Lookback Market Price Forecast, Section 4. The forecast available in June 2001 for flat-block purchased power prices was 148 mills/kWh in 2002, declining to 63.00, 45.92, 49.46, and 49.02 mills/kWh for the following four years, respectively. For the years 2007 through 2010, a 2.5 percent annual growth rate to the 2006 price was assumed. A transmission adder of 2.63 mills/kWh, unchanged from the adder used in the WP-02 Final Proposal, was added to all years of the price forecast. The Excel-based ASC Forecast Model used in the WP-02 Final Proposal was updated with the revised market price forecasts.

Also changed was an important assumption in the WP-02 Final Proposal regarding "in lieu" transactions, whereby BPA acquires power from a cheaper resource in lieu of acquiring power from the exchanging utility at its ASC. In the WP-02 Final Proposal, BPA assumed that it would in lieu 50 percent of the REP loads of Puget Sound Energy, Portland General Electric, and PacifiCorp's southern Idaho jurisdiction of its Utah Power (now Rocky Mountain Power) Division. Such transactions would have meant that BPA could buy actual power from another source at a price less than an exchanging utility's ASC, and could sell real power to the utility, effectively saving the difference between the ASC and the lower-cost power. As noted above, by June 2001, the forecast market quotes were showing prices significantly higher than forecast ASCs. Continuing to assume then that BPA would serve 50 percent (or any) of the exchanging utilities' loads with an in lieu purchase at the market price was therefore no longer reasonable. BPA is proposing no in lieu transactions for this Lookback Study.

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Documentation Table 5.1.1 summarizes IOU ASC determinations from the WP-02 Final Proposal. *See* Lookback Documentation, WP-07-E-BPA-44A, Table 5.1.1. This table also includes annual load-weighted ASCs.

Documentation Table 5.1.2 summarizes reforecast ASCs for NorthWestern Energy, PacifiCorp (both divisions), Portland General Electric and Puget Sound Energy, which were determined for this Lookback Study using the ASC Forecast model. *See* Lookback Documentation, WP-07-E-BPA-44A, Table 5.1.2. ASC forecasts for Avista and Idaho Power were not based on the ASC Forecast model because base data for these utilities dated to the mid-1980s. Instead, estimated ASCs from the WP-02 Final Proposal are escalated as follows. Load-weighted reforecast ASCs are compared with the load-weighted results from Table 5.1.1, and show an increase in FY 2002 of 43.6 percent. This increase, and all subsequent annual increases, is used as a multiplier to determine reforecast ASCs for Avista and Idaho Power. For example, Avista's WP-02 Final Proposal ASC was estimated to be 29.25 mills/kWh. Its revised ASC forecast for 2002 is calculated as $29.25 \times 1.436 = 42.00$ mills/kWh. Avista and Idaho Power reforecast ASCs are shown in the Lookback Documentation, Table 5.1.2.

A side by side comparison by year and company of WP-02 Final Proposal ASCs and the reforecast ASCs is found in the Lookback Documentation, Table 5.1.3.

Documentation Table 5.1.4 shows model inputs and outputs for Northwestern, PacifiCorp (separate by division), Portland General Electric, and Puget Sound Energy.

5.2 FY 2002-2006 Lookback Cost Allocation and Rate Design Implementation

5.2.1 Ratemaking Sequence

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The base rate ratemaking sequence used in the FY 2002-2006 Lookback is the same as was used in the WP-02 WPRDS except that the Subscription Strategy section is no longer necessary. The FY 2002-2006 Lookback ratemaking includes a Cost of Service Analysis (COSA) and a series of Rate Design Step adjustments using the same set of RAM2002 models used in the WP-02 Final Proposal. These models provide a forecast of base rates for the FY 2002-2006 time period. In addition, a new Post-Processor model has been developed for this Supplemental Proposal to determine if a CRAC adjustment to base rates would have been required to recover BPA's power costs in that time period.

Although the COSA procedures and Rate Design Step adjustments that made up BPA's
ratemaking in the WP-02 Final Proposal are used in this Lookback analysis for FY 2002-2006,
much of the data used in the current calculations are different than those used for the WP-02
Final Proposal. BPA is using ratemaking information that was available in and around the spring
of 2001 in this Lookback analysis. A summary of the data differences is included as an appendix
to this study. For a more detailed discussion of the data differences, *see* Brodie *et al.*,
WP-07-E-BPA-58.

The COSA assigns responsibility for BPA's revenue requirement to the various classes of service in accordance with generally accepted ratemaking principles and in compliance with statutory directives governing BPA's ratemaking. The Rate Design Step adjustments to the allocated costs in the COSA are necessary to assure that BPA recovers its test period costs while maintaining the statutory-based relationship between the rates paid by the different rate pools and to implement particular statutory rate directives of the Northwest Power Act.

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5.2.2 Cost of Service Analysis (COSA)

The COSA allocates the test period generation revenue requirements that are determined in the Revenue Requirement Study, Section 3, to BPA's customer classes. The COSA apportions or "allocates" the test period generation revenue requirements among classes of service based on the principle of cost causation. The relative use of resources, services, or facilities among customer classes is identified, and costs generally are allocated to customer classes in proportion to each class's use. Cost allocation also is based on the priorities of service from resource pools to rate pools provided in section 7 of the Northwest Power Act.

Four major ratemaking steps were completed in the process of determining BPA's total cost of service: (1) *functionalization* of costs between generation and transmission; (2) *segmentation* of costs of BPA's transmission system (not applicable in a power rate case); (3) *classification* of costs between demand, energy, and load variance; and (4) *allocation* of costs to classes of service.

In this FY 2002-2006 portion of the Lookback, BPA is determining what the power rates charged by BPA would have been absent the IOU REP Settlement Agreements. Functionalization of costs between generation and transmission was performed in conjunction with the development of BPA's total revenue requirements and only those costs associated with the Power function are included in BPA's power rates. The one exception is that the gross exchange resource costs are functionalized so that only the power portion is subject to the Rate Design Steps, and the transmission portion is then added back in after the Rate Design Steps are completed. The remaining steps to determine BPA's cost of service for wholesale power – classification and allocation of costs – are performed in the COSA. *See* Lookback Documentation, WP-07-E-BPA-44A, Section 5.2.3.

5.2.3 Revenue Requirement

The Revenue Requirement Study, Section 3, is based on revenue and cost estimates for the five-year test period, FY 2002-2006. The generation revenue requirements from the Revenue Requirement Study are adjusted in the COSA for projected balancing purchase power costs, system augmentation costs, and the functionalization and classification of REP costs. *See* Section 5.2.3.1.1. For the five test years, the total adjusted generation revenue requirement is \$17.773 billion. Adjusted annual functionalized revenue requirements used for rate calculations are shown in the Lookback Documentation, WP-07-E-BPA-44A, Tables 5.2.3.1 through 5.2.3.5, (COSA 06 FY 02 through COSA 06 FY 06). Total adjusted functionalized revenue requirements for the five-year period are shown in the Lookback Documentation, WP-07-E-BPA-44A, Tables 5.2.3.7, (COSA 08).

5.2.3.1 Functionalized Revenue Requirement

Power rates are set to recover only generation costs and transmission costs associated with the Power function. Transmission rates were set in a separate rate case and were not affected by the REP settlements. The COSA uses revenue requirement for the generation component of the FCRPS. *See* Section 3.

5.2.3.2 Power Purchases in the COSA

Three categories of purchased power are shown in the COSA: (1) purchased power; (2) balancing power purchases; and (3) system augmentation.

5.2.3.2.1 Purchased Power

The purchased power costs reflect the acquisition of power through renewable energy, wind,
geothermal, and competitive acquisition programs less the costs associated with the Idaho Falls
and Cowlitz projects. Costs of purchased power from contracts from the early 1990s are
included in the NR resource pool. *See* Lookback Documentation, WP-07-E-BPA-44A,

Tables 5.2.3.1 through 5.2.3.5, (COSA 06 FY 2002 through COSA 06 FY 2006). Purchased power costs are unchanged from the WP-02 Final Proposal.

5.2.3.2.2 Balancing Power Purchases

Included in the costs of balancing power purchases are the costs of power purchases and storage required to meet firm deficits on a daily and monthly basis. Projected balancing power purchases are needed to serve firm loads at the margin in months other than the spring fish migration period. The expense estimate for balancing power purchases included in the revenue requirements is adjusted in the COSA as a result of Risk Analysis Model (RiskMod) modeling to reflect projected operation of the FCRPS. For this Lookback, the cost of balancing power purchases was not changed from the WP-02 Final Proposal. *See* Lookback Documentation, WP-02-FS-BPA-05A, Section 3.4. Costs of balancing power purchases are characterized as FBS replacements and as such are included in and allocated as FBS costs. *See* Lookback Documentation, WP-07-E-BPA-44A, Tables 5.2.3.1 through 5.2.3.5, (COSA 06 FY 2002 through COSA 06 FY 2006).

5.2.3.2.3 System Augmentation

BPA is also proposing to acquire resources beyond the inventory represented by the FBS and new resources. These acquisitions are defined as system augmentation costs in the COSA and are used to meet customer firm power loads in excess of firm Federal resources on an annual basis. System augmentation purchases are characterized as FBS replacements. The Federal system will be augmented using both long- and short-term power purchase contracts. System augmentation costs are shown in Lookback Documentation, WP-07-E-BPA-44A, Tables 5.2.3.1 through 5.2.3.5, and 5.2.3.7, (COSA 06) and (COSA 08). The amount and cost of system augmentation have been modified to be consistent with load and market price changes for the Lookback.

5.2.3.2.4 Adjustments to Gross Residential Exchange Costs

BPA's revenue requirement includes the gross cost of the REP, which can be affected by the
PF rate. In the beginning of the rate development process, REP costs are projected using an
estimate of the PF rate for the test period. These costs are included in the functionalized revenue
requirements. If the ultimate PF rate differs from the estimated rate, the REP costs are
recalculated. The PF rate is then recalculated based on the revised REP costs. This iterative
process stops when the PF rate does not change from the previous iteration. This adjustment of
the gross REP costs is necessary because the PF rate level can influence the level of the
Residential Exchange costs included in the COSA. *See* Lookback Documentation,
WP-07-E-BPA-44A, Tables 5.2.3.1 through 5.2.3.5, (COSA 06 FY 2002 through COSA 06 FY 2006).

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5.2.4 Functionalization and Classification of Residential Exchange Program Costs

In the COSA, the gross REP cost is based on exchanging utilities' ASCs and the amount of their exchangeable loads. ASCs include the cost of power, transmission, and unbundled services associated with serving the exchanging utility's exchangeable load. The rate design adjustments follow the COSA in the WPRDS and use the results of the COSA performed on that portion of the revenue requirement classified to energy. Consequently, the REP cost that comes into the COSA with energy costs, demand costs, transmission costs, and unbundled services costs included, must be functionalized to generation and then classified to energy. In this way, REP costs are made to comport with all other Power function costs as they go through the rate design adjustment process. The functionalization and classification of REP costs are shown in Lookback Documentation, WP-07-E-BPA-44A, Table 5.2.3.6 (COSA 07).

5.2.5 Classification

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Classification in the WPRDS apportions generation costs between the demand, energy, and load variance components of electric power. This classification of the generation revenue requirement is shown in Lookback Documentation, WP-07-E-BPA-44A, Table 5.2.3.7, (COSA 08).

The classification methodology BPA uses is based on the marginal costs of the components of power and generally accepted ratemaking procedures. BPA sets the price for demand using an adjusted marginal cost of demand. For this 2002-2006 Lookback, no change was made to the original adjusted marginal cost of demand. *See* Section 2.3.1.2 of the Final WPRDS Documentation, WP-02-FS-BPA-05A for a detailed description. In addition, BPA sets the price of the Load Variance Charge using its adjusted marginal costs. For this FY 2002-2006 Lookback analysis, no change was made to the original Load Variance Charge. *See* Final WPRDS Documentation, WP-02-FS-BPA-05A, Section 2.3.4.1, for a detailed description. Sales and revenues of these products are then forecast. Forecast revenues associated with demand are classified to demand. Forecast revenues for load variance are deemed to be equal to the cost of Load Variance and therefore classified as such. Generation costs classified to energy are the residual of total generation costs not classified to demand or load variance. By virtue of this classification scheme, costs of demand or load variance are not directly allocated to customer rate pools; rather, the costs are equal to the forecast revenues. Therefore, the only allocation of costs to customer rate pools in the COSA is for costs associated with energy.

5.2.6 Functionalized and Classified Revenue Credits

The revenue credits described below are functionalized to generation and classified to energy. Most of these revenue credits are associated with the operation of FBS resources and have the effect of reducing the FBS resource costs to be recovered by BPA's power rates.

5.2.6.1 U.S Army Corps of Engineers (COE) and Bureau of Reclamation (Reclamation) Project Revenues

COE and Reclamation Project revenues are payments from owners of downstream projects to the COE and Reclamation for benefits received (*i.e.*, additional generation) from the storage reservoirs owned by the COE and Reclamation. These revenues are not subject to revision through rates and hence are a revenue credit. *See* Lookback Documentation,

WP-07-E-BPA-44A, Table 5.2.3.8, (COSA 09).

5.2.6.2 Section 4(h)(10)(C) Credits and Fish Cost Contingency Fund (FCCF)

Section 4(h)(10)(C) credits are provided by the Treasury to partially compensate BPA for the non-power portion of additional capital and operational costs that are incurred for fish migration. These credits are 27 percent of BPA's additional expenditures. This revenue was the estimate of what BPA would receive on average over a range of 50 different water conditions. The actual credit is determined after the year is completed. The operational costs vary with water conditions. The FCCF credit is similar to the section 4(h)(10)(C) credit since it is provided by the Treasury. The amount included here was the estimate based on the average of 50 water years. Only under the 15 worst water years would any credit be received, and then it would be much larger. The FCCF credit was limited by past expenditures BPA made for fish operations without receiving Treasury credits. The FCCF credit pool totaled about \$325 million in the WP-02 Final Proposal. In extremely bad water years, this amount was accessed in order to avoid missing Treasury payments. *See* Lookback Documentation, WP-07-E-BPA-44A, Table 5.2.3.8, (COSA 09).

5.2.6.3 Colville Credit

The Colville credit is a credit BPA receives for being an agent of the U.S. Government and facilitating annual payments to the Colville Tribe as a result of a treaty settlement. The credit is

equal to the amount BPA pays the Tribe and it is essentially a predetermined amount. *See* Lookback Documentation, WP-07-E-BPA-44A, Table 5.2.3.8 (COSA 09).

5.2.6.4 Supplemental and Entitlement Capacity

BPA receives Supplemental and Entitlement Capacity revenues from private and public utilities as a result of contracts signed many years ago where the rates are fixed at a nominal amount per year. The revenue is a predetermined amount. *See* Lookback Documentation, WP-07-E-BPA-44A, Table 5.2.3.8 (COSA 09).

5.2.6.5 Irrigation Pumping Revenues

BPA receives a small amount of income from the delivery of pumping power at rates determined according to statutory requirements subject to the direction of the Secretary of the Interior and charged to Reclamation irrigation project customers. Although this revenue is not fixed, it totals less than \$500,000 per year, depending upon the weather. This revenue is paid at the end of the year to the Treasury by Reclamation for BPA's credit. *See* Lookback Documentation, WP-07-E-BPA-44A, Table 5.2.3.8, (COSA 09).

5.2.6.6 Energy Services Business Revenues

BPA received revenues associated with the activities of its Energy Services Business. *See* Lookback Documentation, WP-07-E-BPA-44A, Table 5.2.3.8 (COSA 09).

5.2.6.7 Property Transfers and Miscellaneous Revenues

Most of these estimated revenues were from contract administration, late fees, interest on late payments, and mitigation payments. These fees are not subject to change in the rate filing. *See* Lookback Documentation, WP-07-E-BPA-44A, Table 5.2.3.8 (COSA 09).

5.2.6.8 PBL Transmission Costs, Revenues, and Credits

The PBL (now Power Services), in the course of marketing power, incurs transmission-related costs and generates transmission-related revenues and credits. The costs include, but are not limited to, those associated with providing ancillary and reserve services and General Transfer Agreements (GTA). The revenues and credits are predominantly revenues associated with providing ancillary and reserve services. The net amount of these costs, revenues, and credits is classified to energy, and has the effect of reducing the FBS resource costs to be recovered by BPA's power rates. *See* Lookback Documentation, WP-07-E-BPA-44A, Table 5.2.3.9 (COSA 10).

5.2.7 Allocation

Allocation is the apportionment of costs to customer classes. Allocation is performed by determining the relative sizes of resource pools and rate pools, pursuant to the rate directives contained in section 7 of the Northwest Power Act. Rate pools are groupings of customer classes (sales) for cost allocation purposes. BPA groups its sales into the "Priority Firm," "Industrial Firm," and "All Other" categories corresponding to sales under sections 7(b), 7(c), and 7(f) of the Northwest Power Act. The resource pools are those identified in the Northwest Power Act as the FBS, Residential Exchange, and NR resource pools. Costs associated with each of these respective resource pools are grouped together to facilitate allocation to rate pools. The sizes of the rate and resource pools are determined from planning load and resource balances prepared in the Load Resource Study, Section 2 above.

The Northwest Power Act establishes three rate pools. The 7(b) rate pool includes public body,
cooperative, and Federal agency sales as well as the sales to utilities participating in the REP
established in section 5(c) of the Northwest Power Act. The 7(c) rate pool includes sales to
BPA's DSI customers. The 7(f) rate pool includes all other long-term firm power BPA sells.
Subsequent to 1985, and implementation of the directives of section 7(c)(2) of the Northwest

Power Act, BPA has had, for all practical purposes, only two rate pools: the 7(b) rate pool and all other loads.

For the FY 2002-2006 Lookback, the FBS resource pool consists of: (1) the FCRPS hydroelectric projects; (2) resources acquired by the Administrator under long-term contracts in force on the effective date of the Northwest Power Act; and (3) replacements for reductions in the capability of the above resources. Costs expected to be incurred during the rate period for replacement resources were included in the FBS resource pool. *See* Load Resource Study, Section 2 above. In addition to long-term resource acquisitions, short-term power purchases are made during the rate period. These short-term power purchases augment the Federal system to achieve load/resource balance on an annual basis as well as balance the Federal system to provide operational flexibility and provide for certain fish mitigation measures on a monthly and daily basis. The costs of such balancing purchases as well as the cost of system augmentation to ensure load/resource balance are considered to be FBS costs and are allocated as such.

5.2.7.1 Energy Cost Allocations

The process for allocating energy costs begins with an examination of critical period firm loads and resources to determine the amount of monthly firm energy surplus or deficit. A ratemaking load and resource balance for each month of the test period is then constructed from the Load Resource Study, Section 2 above, and other data. From this ratemaking load and resource balance, service to each of the three rate pools from each of the resource pools is determined for the rate test period. Table EAF_05_01 shows the ratemaking energy loads and resources by pools. *See* Lookback Documentation, WP-07-E-BPA-44A, Table 5.2.2.1 (EAF_05_01). Allocation factors, which apportion each resource pool's costs to BPA's classes of service, are calculated based on identified service from resource pools to rate pools in the ratemaking load and resource balances.

5.2.7.2 Energy Allocation Factors

When service from each resource pool to each class of service has been identified, the amount of such service is the allocation factor for the resource pool. Resource pool costs are allocated to classes of service based on the proportions of their identified use of the resource pools to the total size (use) of the resource pool. The annual energy allocation factors for each resource pool are shown in the Lookback Documentation, WP-07-E-BPA-44A, Table 5.2.2.2 (EAF_05_02). The Total Usage and Conservation allocation factors are the same and are based on the sum of the FBS, REP, and NR allocation factors. They are used to allocate costs and rate design adjustments to all firm energy loads. Allocated energy costs are shown in the Lookback Documentation, WP-07-E-BPA-44A, Table 5.2.4.1 (RDS 01).

5.2.7.3 Other Cost Allocations

Costs not directly identifiable with rate pools, resource pools, or transmission costs allocated to the Power function are allocated as described below.

5.2.7.3.1 Conservation Costs

The Northwest Power Act requires BPA to treat cost-effective conservation as an electric power
resource in planning to meet the Administrator's obligations to serve loads. The "legacy
conservation" line item, as seen in the COSA 06 tables (*see* Lookback Documentation,
WP-07-E-BPA-44A, Section 5.2.3), includes: (1) debt service for BPA's previous resource
acquisition activities; (2) BPA's continuing contributions to the region's market transformation
efforts; and (3) a share of the agency's total planned net revenues. The "conservation augmentation" line item, as seen in the COSA 06 tables (*see* Lookback Documentation,
WP-07-E-BPA-44A, Section 5.2.3) includes costs associated with forecasted conservation for
the FY 2002-2006 time period. In addition, the Northwest Power Act indicates that BPA should

encourage the development of conservation and renewable resources in the region. Toward that
end, the "energy efficiency" expenses line item, as seen in the COSA 06 tables (*see* Lookback
Documentation, WP-07-E-BPA-44A, Section 5.2.3), reflects BPA's costs associated with
providing conservation and renewable resources information in the region. In addition, these
costs represent the technical support BPA provides in the region in the area of energy efficiency.
The "energy efficiency" revenue line item seen in Table COSA 09 (*see* Lookback
Documentation, WP-07-E-BPA-44A, Section 5.2.3), reflects payments provided by other BPA
organizations and Federal agencies for the energy efficiency services delivered.

5.2.7.3.2 BPA Program Costs

Some of BPA's program costs are not directly identified with any specific resource pool, or customer class. An example is the cost of the ratemaking process. The generation portion of these costs is determined in the Revenue Requirement Study, WP-02-FS-BPA-02. The generation portion appears as BPA program costs. These costs, as seen in Table COSA 11 (*see* Lookback Documentation, WP-07-E-BPA-44A, Section 5.2.3), are allocated uniformly to all customer classes based on the total usage allocation factors for energy.

5.2.7.3.3 WNP-3 Settlement Exchange Agreement Costs

The revenue requirement includes costs related to the WNP-3 Settlement Exchange Agreement between BPA and four IOUs that have a 30 percent interest in the WNP-3 nuclear plant. Two types of WNP-3 Settlement Exchange costs are allocated in the COSA: plant-related costs and exchange energy costs. Under the WNP-3 Settlement Agreement, BPA is obligated to serve a specified amount of IOU load. Whether BPA must purchase to serve WNP-3 obligations is determined in RiskMod. To serve the IOU load, BPA may purchase either Company Exchange Energy from the IOUs or other, lower-cost power. The exchange energy costs are the projected costs of purchases of Company Exchange Energy (which may not exceed the costs of

These costs are allocated uniformly to all loads using the total usage allocation factors for
energy. See Lookback Documentation, WP-07-E-BPA-44A, Table 5.2.4.1 (RDS 01).
5.2.7.3.4 Planned Net Revenues for Risk (PNRR)
PNRR is the amount of net revenues required to ensure that cash-flow from proposed rates fully
meets BPA's probability standard for repaying Treasury on time and in full. The PNRR are
functionalized entirely to generation and are allocated to resource pools that include Federal
capital investments. The methodology is described and illustrated in the Revenue Requirement
Study, WP-02-FS-BPA-02. For this FY 2002-2006 Lookback, the PNRR amount was not

changed from the WP-02 Final Proposal.

The PNRR value found in the COSA 06 tables was the result of an iterative process between the RAM, the RiskMod, Non-Operating Risk Model (NORM) and the ToolKit models. The iteration was initiated with a seed value for PNRR in COSA 06 of the RAM. The resultant rates were used in RiskMod to produce probability distributions. These distributions were then used in the ToolKit to produce a new PNRR value and ending cash reserve amounts for new COSA 06 tables. *See* Lookback Documentation, WP-07-E-BPA-44A, Section 5. For a further explanation of this iterative process, *see* Doubleday, *et al.*, WP-02-E-BPA-18. The PNRR value used in this FY 2002-2006 Lookback is the same as that used in the WP-02 Final Proposal.

combustion turbines) or other purchases and storage in lieu of Company Exchange Energy.

5.2.8 COSA Results

The result of the COSA process is the allocation of the test period revenue requirements for energy to classes of service served with firm power. Tables COSA 11 and RDS 01 summarize the allocated generation energy revenue requirements and the total allocated revenue requirement recoverable from power rate classes of service, including transmission costs allocated to the

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WP-07-E-BPA-44 Page 46 Power function, that are recoverable from these classes of service. See Lookback

Documentation, WP-07-E-BPA-44A, Tables 5.2.3 (COSA 11) and Table 5.2.4 (RDS 01).

5.2.9 Rate Design Step Adjustments

Rate design adjustments are performed sequentially in the order described below.

5.2.9.1 Excess Revenue Adjustment

The Excess Revenue Adjustment recognizes that revenues will be collected from certain classes of service to which costs are not allocated and credits these revenues to other customer classes. The source of excess revenues is projected secondary energy sales.

5.2.9.1.1 Secondary Energy Sales

On a planning basis and with system augmentation, BPA will have firm resources available to meet firm load obligations under 1937 water conditions. However, rates are set assuming that better than critical water conditions occur and, therefore, secondary energy sales and revenues are projected. These sales and revenues are projected on the 50-water year run of the RiskMod model. *See* Conger, *et al.*, WP-02-E-BPA-15. The projected secondary energy revenue credits are allocated to firm loads so that BPA does not recover more than its revenue requirements. In previous rate cases, secondary energy revenue was referred to as "nonfirm" energy revenue. The secondary energy revenue value used in this FY 2002-2006 Lookback is the same as that used in the WP-02 Final Proposal.

The RiskMod model is used to project the level of secondary energy sales and revenues. BPA expected to sell secondary energy that will produce \$2.578 billion in revenues over the five-year test period. After reducing these revenues by transmission charges totaling \$348.7 million, BPA

credited its firm power customers with excess revenues totaling \$2.229 billion over the five-year test period. *See* Lookback Documentation, WP-07-E-BPA-44A, Table 5.2.4.4, (RDS 11).

5.2.9.1.2 Allocation of Excess Revenues

Secondary energy revenues are used first to pay transmission costs associated with sales of secondary energy, with the remainder credited to firm power customers. These excess revenues are functionalized to generation and classified to energy. They are then allocated to loads served with Federal system resources (FBS and NR). The generation-related excess revenues are allocated in this manner because they are associated with secondary energy service and the cost of secondary energy is based on Federal resource costs only. *See* Lookback Documentation, WP-07-E-BPA-44A, Table 5.2.4.5 (RDS 12).

The Nonfirm Energy (NF) Standard rate was based on the average cost of nonfirm energy. Table RDS 05 shows the calculation of the average cost of nonfirm energy. *See* Lookback Documentation, WP-07-E-BPA-44A, Table 5.2.4.2 (RDS 05).

5.2.9.2 Firm Power Revenue Deficiencies Adjustment

BPA sold firm power at contractual rates and in the open market under the FPS-96 rate schedule.
Sales of such firm power were not necessarily made at the fully allocated costs of the power.
Therefore, either a revenue surplus or a revenue deficiency would result when a comparison is made between the costs allocated to the firm power and the revenues received from the sale of such power. BPA determined that in the FY 2002-2006 period it would receive \$2.308 billion in revenues from the sale of firm power in various PNW and Southwest markets. Based on these sales estimates, transmission costs were estimated to be \$260.4 million. *See* Lookback
Documentation, WP-07-E-BPA-44A, Table 5.2.4.4 (RDS 11). BPA allocated \$3.300 billion in generation costs to the firm power sold. Therefore, there was a revenue deficiency of

\$1.253 billion over the five-year test period. This revenue deficiency of allocated costs in excess of revenues was charged to all firm power (PF, IP, NR) customers. *See* Lookback
Documentation, WP-07-E-BPA-44A, Tables 5.2.4.6 and 5.2.4.7, (RDS 17 and RDS 18).

5.2.9.3 7(c)(2) Adjustment

DSI rates are based on sections 7(c)(1), 7(c)(2), and 7(c)(3) of the Northwest Power Act. Section 7(c)(1)(B) provides that after July 1, 1985, the DSI rates will be set "at a level, which the Administrator determines to be equitable in relation to the retail rates charged by the public body and cooperative customers to their industrial consumers in the region." Pursuant to section 7(c)(2), the DSI rates are to be based on BPA's "applicable wholesale rates" to its preference customers and the "typical margins" included by those customers in their retail industrial rates. Section 7(c)(3) provides that the DSI rates are also to be adjusted to account for the value of power system reserves provided through contractual rights that allow BPA to restrict portions of the DSI load. This adjustment is typically made through a Value of Reserves (VOR) credit. To more accurately reflect the product BPA may purchase from the DSI customers, the name has been changed to Supplemental Contingency Reserve Adjustment (SCRA). However, for the WP-02 Final Proposal, BPA did not propose a uniform SCRA credit to be applied against DSI rates. Thus, the DSI rates were set equal to the applicable wholesale rate, plus a typical margin, subject to the DSI floor rate test and the outcome of the section 7(b)(2) rate test. *See* Section 2.3.4 below.

The applicable wholesale rate is the PF rate (in combination with the NR rate if new NLSLs were projected for the test period) at the DSI load factor. The typical margin is based on the overhead costs that preference customers add to BPA's price of power in setting their retail industrial rates. The typical margin value used in this FY 2002-2006 Lookback is the same as that used in the WP-02 Final Proposal.

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The methods and calculations used to determine the typical margin are discussed in detail in Appendix A of the 2002 Final WPRDS. *See* WPRDS, Appendix A, WP-02-FS-BPA-05.

The net margin was 0.42 mills per kWh. As stated above, a zero SCRA credit was forecast in the WP-02 Final Proposal. This net margin was added to the seasonal and diurnal PF energy charges. These adjusted PF energy charges and the charge for demand were applied to the DSI test period billing determinants to determine the initial IP rate. *See* Lookback Documentation, WP-07-E-BPA-44A, Table 5.2.4.9 (RDS 20).

The 7(c)(2) adjustment is necessary to account for the difference between the revenues BPA expects to recover from the DSIs at the initial IP rate and the costs allocated to the DSIs. This difference, known as the 7(c)(2) delta, is allocated to non-DSI customers, primarily the PF customers. Because the allocation of the 7(c)(2) delta changes the PF rate upon which the IP rate is based, the entire process is repeated with the revised PF rate from the previous iteration until the size of the 7(c)(2) delta does not change when a successive iteration is performed. This process is accomplished through an algebraic solution that is shown in Table 5.2.4.10, RDS 21. *See* Lookback Documentation, WP-07-E-BPA-44A, Section 5.2.4.

The size of the 7(c)(2) delta for the five-year test period was \$953.9 million. This amount was allocated to PF and NR loads. The allocation was based on the energy allocation factors developed in the COSA. *See* Lookback Documentation, WP-07-E-BPA-44A, Table 5.2.4.11 (RDS 22).

The rate test specified in section 7(b)(2) of the Northwest Power Act ensures that BPA's public body, cooperative, and Federal agency customers' firm power rates applied to their requirements loads are no higher than rates calculated using specific assumptions that remove certain effects of the Northwest Power Act. If the 7(b)(2) rate test triggers, the public body, cooperative, and Federal agency customers are entitled to rate protection. The cost of this rate protection is borne by other purchasers of firm power. In order to make these cost adjustments, the PF rate is bifurcated. The two resulting rates are the PF Preference rate and PF Exchange Program rate.

The Section 7(b)(2) Rate Test Study, Section 6 below, indicates the 7(b)(2) rate test has triggered and the PF rate applicable to BPA's preference customers must be adjusted down. The amount of protection needed is implemented through a reduction of the PF Preference rate in mills/kWh. BPA makes three adjustments in the rate design sequence to provide this protection to its preference customers and allocate the costs of the rate protection.

First, the PF Preference customer class is given a credit, which reduces its rate, by the amount of the protection indicated in the Section 7(b)(2) Rate Test Study, Section 6 below.

The 2.5 mills/kWh protection amount results in a credit of \$648.3 million to these customers.

The cost of providing this protection is allocated to the remaining firm power customers in the

rate design process (PF Exchange, IP, and NR). See Lookback Documentation,

WP-07-E-BPA-44A, Table 5.2.4.15 (RDS 31).

The second adjustment is the 7(b)(2) Industrial Adjustment. The amount of this adjustment is the value of a recalculated 7(c)(2) delta at the lower PF Preference rate. The amount of the new 7(c)(2) delta is \$157.8 million. This amount is allocated to the PF Exchange customer class and to the NR customer class. *See* Lookback Documentation, WP-07-E-BPA-44A, Table 5.2.4.17 (RDS 34).

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A third adjustment is necessary to allocate an increase in the gross Residential Exchange costs resulting from the bifurcation of the PF rate causing the PF Exchange Program rate to be higher than the average combined rate before the bifurcation. This results in higher Residential Exchange ASCs for deeming utilities. Therefore, the gross costs of the Residential Exchange must be recalculated. Any increase in such costs can only be allocated to the PF Exchange rate and the NR rate. The amount of the adjustment is \$0 million and is determined through a set of iterations of the Residential Exchange cost model. The allocation of this amount is performed in the Lookback Documentation, WP-07-E-BPA-44A, Table 5.2.4.19 (RDS 34A).

After the three 7(b)(2) adjustments are made (in the absence of a need for a DSI floor rate adjustment), BPA is then able to calculate Rate Design Step energy rates for the firm power classes of service. If the DSI rate falls below the floor rate, however, one final adjustment is necessary.

5.2.9.5 DSI Floor Rate Test

Section 7(c)(2) of the Northwest Power Act requires that the DSI rates in the post-1985 period "shall in no event be less than the rates in effect for the contract year ending June 30, 1985." Accordingly, a floor rate test is performed to determine if the IP rate has been set at a level below the floor rate. If so, an adjustment is made that raises the DSI rate to recover revenues at the floor rate and credits other customers with the increased revenue from the DSIs. If the DSI rate has been set at a level above the floor rate, no floor rate adjustment is necessary.

The first step in calculating the floor rate is to apply the IP-83 Standard rate charges to test period (FY 2002-2006) DSI billing determinants. Although the energy billing determinants used for this calculation are identical to the energy billing determinants for the proposed rates, the

demand billing determinants are different. The IP-83 Demand Charges are applied to billing
determinants based on non-coincidental demand. The resulting revenue figure is then divided by
total IP test period loads to arrive at an average rate in mills/kWh. This rate is reduced by an
Exchange Cost Adjustment and a deferral that were included in the IP-83 rate. Both adjustments
are made on a mills/kWh basis.

BPA has removed all transmission costs from the IP-83 rate to make a power-only floor rate comparison. The floor rate was adjusted for transmission costs by subtracting total transmission costs in mills/kWh from the original floor rate in the same manner that the Exchange Cost adjustment and deferral adjustments were completed. The mills/kWh amount was determined by dividing total transmission costs in the IP-83 rate by the total energy billing determinants for that rate period. The transmission cost adjustment amounted to 3.81 mills/kWh.

These calculations result in an undelivered DSI floor rate of 20.98 mills/kWh. The floor rate is then applied to the test period DSI billing determinants to determine floor rate revenues.
Revenues at the proposed IP rate charges are compared to revenues at the floor rate. Because the proposed IP rate revenues are greater than the floor rate revenues, no adjustment is necessary to the Rate Design Step IP rate. Tables 5.2.4.12 and 5.2.4.13, RDS 23 and RDS 24 show the DSI floor rate calculation. *See* Lookback Documentation, WP-07-E-BPA-44A, Section 5.2.4.

5.2.9.6 Rate Design Contra

The Rate Design Step adjustments move allocated costs between classes of service or adjust rates to account for excess revenues. Each rate design adjustment shows the classes of service to which the amount of the adjustment went. What is not shown for each rate design adjustment is the complementary accounting entry showing the source of the adjustment. The RAM keeps track of all such complementary accounting. When COSA allocated costs and rate design adjustments are summarized, it is necessary to further adjust the allocated costs by the amount of the complementary transactions. Such amounts are referred to as the rate design contra, which must be applied so that final allocated and adjusted costs to all rate classes will equal BPA's revenue requirements. *See* Lookback Documentation, WP-07-E-BPA-44A, Table 5.2.4.22 (RDS 40).

5.2.9.7 Rate Design Results

Table RDS 41 summarizes the allocated costs and rate design adjustments for each class of service. Rate charges are calculated for each class by dividing the allocated and adjusted energy costs by the appropriate billing determinants. Summaries of the adjusted annual average energy rate charges are shown on Tables RDS 50, 51, and 52. *See* Lookback Documentation,
WP-07-E-BPA-44A, Tables RDS 41 (RDS 50, RDS 51, and RDS 52). These annual average energy rates are shaped into monthly and diurnal periods based on the results of the WP-02 Marginal Cost Analysis Study, WP-02-FS-BPA-04.

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5.2.10 Slice Cost Calculation

Because the purpose of the Lookback is to recalculate the PF Exchange rate and other rates necessary for the proper application of CRACs, and because the Slice rate was not subject to CRACs, the recalculation of the Slice rate was not necessary for the Lookback.

5.3 FY 2002-2006 Lookback Post-Processor Modeling

The FY 2002-2006 Lookback Post-Processor is a simplified model that determines the level of the PF Exchange rate for each year of the rate period and calculates what the IOUs' REP benefits would have been in the absence of the REP settlements.

The model uses the recalculated base PF Preference and PF Exchange rates from the FY 2002-2006 Lookback RAM2002 analysis. See Lookback Documentation, WP-07-E-BPA-44, Section 5.2. The model calculates a set of annual CRACs that adjust the PF Preference and PF Exchange rates so that they will recover the proper revenues for the rate period.

To determine the revenues to be recovered from the CRAC'd rates, the actual revenues recovered from actual rates in effect during the rate period is determined. The actual revenues collected for the rate period are then adjusted by: (1) subtracting the amount of REP Settlement Agreement Benefits paid as expressed in Section 13; (2) subtracting the net cost to BPA of furnishing power to IOUs, included in Section 13; and (3) adding the net REP benefits determined by using the recalculated base PF Exchange rate and the backcast utility ASCs and eligible exchangeable loads, as expressed in Section 14. These annual adjusted revenue amounts for each fiscal year are the "Annual Revenue Targets."

For the Lookback analysis, it is assumed that all other revenues and credits except those provided by firm sales under PF rates remain the same in a world with or without the REP settlements. Therefore, only PF rate revenues are used in the model to determine the Annual Revenue Targets.

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If the model projects that revenues from recalculated rates fall short of the Annual Revenue Targets for a year, then the base PF Preference and PF Exchange rates are increased by means of a CRAC percentage increase to both rates. The CRAC increases the revenue and, in turn, decreases the level of net REP benefits until the difference between the net revenues collected and the Annual Revenue Target is zero. The inverse is true if revenues over-collect the Annual Revenue Target. The calculated IOU REP FY 2002-2006 benefits at the CRAC'd PF Exchange rates are then reported out to be used in the Lookback Amount calculations. See Lookback 27 Documentation, WP-07-E-BPA-44A, Tables 5.3.1, 5.3.2, 5.3.3, 5.3.4, 5.3.5, and 5.3.6.

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5.4 Rate Analysis Results

The FY 2002-2006 Lookback base rates from the WP-02 RAM2002 are: a PF Preference rate of

27.52 mills/kWh and a PF Exchange rate of 38.12 mills/kWh. The average CRAC'd

PF Preference is 28.81 mills/kWh and the average CRAC'd PF Exchange rate is

39.90 mills/kWh. The Lookback recalculated IOU REP benefits for FY 2002-2006 average

about \$205 million per year. See Table 14.1 in this Study and Lookback Documentation,

WP-07-E-BPA-44A, Table 9.2.7, Table 9.2.8, and Table 9.2.9.

6. SECTION 7(b)(2) RATE TEST STUDY, FY 2002-2006

6.1 Introduction

This section addresses the section 7(b)(2) rate test for FY 2002-2006 Lookback analysis. Recalculations of the section 7(b)(2) rate tests are necessary to determine a base PF Exchange rates to be used in the Lookback analysis. There are two phases of the 7(b)(2) rate test for the Lookback analysis, the FY 2002-2006 rate test and FY 2007-2009 rate test. The first rate test was conducted using data available from both the WP-02 Final Proposal and the WP-02 Supplemental Proposal in and around the spring of 2001. In addition, assumption changes have been made to reflect the changed conditions due to removal of the REP settlements. The second rate test was conducted using the data available from the WP-07 Final Proposal, and is discussed in Section 10.

Section 7(b)(2) of the Northwest Power Act, 16 U.S.C. § 839e(b)(2), directs the BPA to conduct a comparison of the projected rates to be charged its preference and Federal agency customers for their firm power requirements, over the rate test period plus the ensuing four years, with the costs of power (hereafter called rates) to those customers for the same time period if certain assumptions are made. The effect of this rate test is to protect BPA's PF preference customers' wholesale firm power rates from certain specified costs resulting from provisions of the Northwest Power Act. The rate test can result in a reallocation of costs from the general requirements loads of PF preference customers to other BPA loads.

The rate test involves the projection and comparison of two sets of wholesale power rates for the general requirements loads of BPA's public body, cooperative, and Federal agency customers (7(b)(2) Customers). The two sets of rates are: (1) a set for the rate period and the ensuing four years assuming that Section 7(b)(2) is not in effect (Program Case rates); and (2) a set for the

same period taking into account the five assumptions listed in section 7(b)(2) (7(b)(2) Case rates). Certain specified costs allocated pursuant to section 7(g) of the Northwest Power Act are subtracted from the Program Case rates. It should be noted that a different treatment of applicable 7(g) costs is proposed in its Supplemental Proposal for FY 2009. However, this Lookback rate test is using the existing 1984 Implementation Methodology treatment of applicable 7(g) costs. Next, each of the nominal rates for the two cases is discounted to the beginning of the rate period. The discounted Program Case rates are averaged, as are the 7(b)(2)Case rates. Both averages are rounded to the nearest tenth of a mill for comparison. If the average Program Case rate is greater than the average 7(b)(2) Case rate, the rate test triggers. The difference between the average Program Case rate and the average 7(b)(2) Case rate determines the amount to be reallocated from the 7(b)(2) Customers to other firm loads.

6.1.1 Purpose and Organization of Study

The purpose of this study is to describe the application and results of the Section 7(b)(2) Rate Test Methodology for the FY 2002-2006 Lookback analysis. If the 7(b)(2) rate test triggers, and it does, the cost adjustment amount that is to be incorporated into the rate design process is calculated. The Lookback Documentation, WP-07-E-BPA-44A, Section 6, contains the documentation of the Excel models and data used to perform the 7(b)(2) rate test.

This section is organized into two major sub-sections. The first section describes the methodology used in conducting the rate test. It provides a discussion of the calculations performed to project the two sets of power rates and the results of the rate test for the FY 2002-2006 Lookback analysis. The second section presents a set of tables that presents the calculations performed for the rate test and the results of the test. The financing benefits analysis has not been changed from that used in the WP-02 Final Proposal and is not included in this study. *See* Section 7(b)(2) Rate Test Study Documentation, WP-02-FS-BPA-06A, Appendix A.
6.1.2 Basis of Study

6.1.2.1 Legal Interpretation

Prior to the first phase of its 1985 general rate proceeding, BPA published the Legal
Interpretation of section 7(b)(2) of the Northwest Power Act (1984 Legal Interpretation),
49 FR 23,998 (1984). The 1984 Legal Interpretation is hereby incorporated by reference. Major
provisions of the 1984 Legal Interpretation are listed below. It should be noted that BPA is
revising the 1984 Legal Interpretation as part of this Supplemental Proceeding. However, except
for the treatment of Mid-Columbia resources, this FY 2002-2006 Lookback analysis is being
conducted under the 1984 Legal Interpretation.

6.1.2.1.1 Legal Interpretation: Five Assumptions

The 7(b)(2) Case is modeled by limiting the differences between the two cases to only the five assumptions specified in section 7(b)(2) and the unavoidable natural consequences of those assumptions on the ratemaking processes; all others assumptions remain the same between the Program Case and the 7(b)(2) Case.

6.1.2.1.2 Legal Interpretation: 7(a) Limitation

BPA will reallocate costs resulting from the rate test trigger, pursuant to section 7(b)(3) of the Northwest Power Act, in a manner that is consistent with section 7(a) of the Act.

6.1.2.1.3 Legal Interpretation: Applicable 7(g) Costs

Applicable 7(g) costs are subtracted from the Program Case rates before those rates are
compared with the rates in the 7(b)(2) Case. Please note that the proposed Legal Interpretation
modifies the language to specify that applicable 7(g) costs are to be subtracted from both the

Program and 7(b)(2) Cases. The treatment of applicable 7(g) costs in this rate test is the same as it was for the WP-02 Final Proposal.

6.1.2.1.4 Legal Interpretation: DSI Service

"Within or adjacent" DSI loads are assumed to be served by the 7(b)(2) Customers for the entire rate test period.

6.1.2.1.5 Legal Interpretation: DSI Served as Firm

The DSI loads assumed to be served by the 7(b)(2) Customers are assumed to be served wholly with firm power purchased from BPA.

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6.1.2.1.6 Legal Interpretation: Within or Adjacent

Appendix B to S. Rep. No. 272, 96th Cong., 1st Sess. (1979), is used to determine which DSIloads are "within or adjacent" to 7(b)(2) Customer service areas.

6.1.2.1.7 Legal Interpretation: Federal Base System

To determine "Federal Base System (FBS) resources not obligated to other entities," DSI loads not "within or adjacent" are assumed to receive service from non-7(b)(2) Customers as the pre-Northwest Power Act BPA power sales contracts with the DSIs expire.

6.1.2.1.8 Legal Interpretation: 7(b)(2)(D) Resource Stack

Section 7(b)(2)(D) identifies three types of additional resources that are assumed, in the 7(b)(2)
Case, to meet the 7(b)(2) Customers' loads after the FBS resources are exhausted.

Specific additional resources are assumed to be used in the order of least cost first; generic resources then are used if necessary. Please note that the proposed Legal Interpretation would exclude the Mid-Columbia resources from the 7(b)(2) Case resource stack.

6.1.2.2 Implementation Methodology

A hearing pursuant to section 7(i) of the Northwest Power Act was held during 1984 on rate test implementation methodology issues. The issues addressed in the hearing are discussed in the Administrator's Record of Decision (ROD) for Section 7(b)(2) Implementation Methodology (7(b)(2) ROD), b-2-84-F-02, published in August 1984. The 1984 Implementation Methodology and ROD are hereby incorporated by reference. In this Supplemental Proposal, BPA is proposing a revised Section 7(b)(2) Implementation Methodology. However, except for the treatment of Mid-Columbia resources, this FY 2002-2006 Lookback analysis is being conducted under the 1984 Implementation Methodology. The major issues resolved in the 1984 Implementation Methodology are discussed below.

6.1.2.2.1 Implementation Methodology: Reserve Benefits

Reserve benefits provided under the Northwest Power Act are quantified using the same value of reserves analysis used in the relevant rate case, modified to reflect that "within or adjacent" DSI loads are less than the total amount of DSI loads served by BPA. *See* Documentation for Wholesale Power Rate Development Study, WP-02-E-BPA-05, Appendix B. In the WP-02 Final Proposal, reserves provided under the Northwest Power Act were forecast to be zero. This assumption eliminated the need for a financing benefits analysis to quantify the value of reserves for the rate test.

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Financing benefits in the 7(b)(2) Case are quantified for planned or existing resources that have been acquired by BPA or are planned to be acquired in the Program Case during the 7(b)(2) rate test period. The financing benefits analysis used in this FY 2002-2006 Lookback rate test is unchanged from that used in the WP-02 Final Proposal. The financing benefits in the 7(b)(2)
Case were estimated by a financial consultant, Sutro & Co. Incorporated, who estimated the
resource sponsor's financial cost for the 7(b)(2)(D) resources assuming that BPA did not acquire
the resource output. The changed financing benefits from the Program Case assumptions for
those resources required to meet the 7(b)(2) Customers' loads may increase the costs of those
resources in the 7(b)(2) Case. *See* Section 7(b)(2) Rate Test Study Documentation,
WP-02-FS-BPA-06A.

6.1.2.2.2 Implementation Methodology: Natural Consequences

Natural consequences result from reflecting the five assumptions in the 7(b)(2) Case rates while keeping all the underlying ratemaking premises and processes the same for both cases. Three natural consequences were identified for possible modeling in the rate test: elasticity of demand, the level of surplus firm power available, and the size of nonfirm energy markets. It should be noted that BPA is proposing a different treatment of elasticity of demand in the proposed Implementation Methodology.

6.1.2.2.3 Implementation Methodology: Rate Modeling

The 7(b)(2) rate test in the FY 2002-2006 Lookback was conducted using three large spreadsheet models. The first of the spreadsheet models is the Program Case RAM (RAM-Prog), used to calculate Program Case rates. RAM-Prog is the same model used to calculate the WP-02 Final Proposal rates. The second model is a 7(b)(2) Case version of the RAM (RAM-7b2). RAM-7b2 model differs from RAM-Prog by only the five assumptions specified in section 7(b)(2) and the natural consequences of those assumptions on the results of ratemaking processes. The third model is the Residential Exchange Model of the RAM (ResExRAM), which calculates the costs of the REP and electronically transfers that information to RAM-Prog. The output of these spreadsheet models is in the Lookback Documentation, WP-07-E-BPA-44A, Section 6.

6.1.2.2.4 Implementation Methodology: Rate Discounting

The projected rate for each year of the section 7(b)(2) rate test period is discounted back to the first year of the rate proposal test period, using a factor based on BPA's projected borrowing rate for each of the rate test years. The discounted rates then are averaged for each case and the result rounded to the nearest tenth of a mill. The rate test triggers if the simple average of the discounted rates for the Program Case exceeds the simple average of the discounted rates for the 7(b)(2) Case by one tenth of a mill or more. If the rate test triggers, the difference between the two rates is multiplied by the billing determinants of the PF Preference customers for the rate period to determine the amount of costs to be reallocated from the PF Preference customers to other BPA firm loads in the rate period.

6.2 Methodology

Implementing section 7(b)(2) consists of incorporating the determinations from the 1984 Legal Interpretation and the 1984 Implementation Methodology ROD into the RAM-Prog and RAM-7B2 models.

18 **6.2.1** Sequence of Steps

The RAM-Prog and RAM-7B2 models simulate BPA's ratemaking process by performing the steps needed to develop wholesale power rates. Each step is described as it is performed to calculate rates for the Program Case and the 7(b)(2) Case.

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6.2.1.1 Program Case RAM

This model calculates annual Program Case rates for FY 2002-2006 and the following four years, FY 2007-2010. Except for the treatment of Mid-Columbia and conservation resources, the ratemaking methodology used to calculate rates for the Program Case of the 7(b)(2) test are

identical to those used in calculating average rates for the WP-02 Final Proposal. However, as discussed below, the data used in this FY 2002-2006 Lookback analysis is in some cases substantially different that the data used in the WP-02 Final Proposal.

6.2.1.1.1 Sales

For this FY 2002-2006 Lookback analysis, the sales forecast used to develop rates for the
Program Case covers the period FY 2002-2010, and is the same forecast used to develop BPA's
FY 2002-2006 Lookback base rates described in Section 5.2. Sales forecasts are as explained
Section 2. Exchange loads are explained in Section 7. For this FY 2002-2006 Lookback
analysis, the assumption is for 1,440 aMW of sales to the DSIs. *See* Final WPRDS
Documentation, WP-02-FS-BPA-05A, pages 93 and 94.

BPA's total sales obligations are comprised of COUs, IOUs, DSIs, Federal agencies, Residential Exchange load, and contractual sales. All forecasted sales are entered into the RAM models with diurnally and seasonally differentiated energy and seasonally differentiated demand billing determinants.

6.2.1.1.2 Load/Resource Balance

The RAM models do not perform load/resource balance calculations. Rather, the models depend on the load/resource balance performed in the Loads and Resources Study, Section 2. Data from the Loads and Resources Study are used to ensure that resources are allocated to serve loads in the order prescribed by the Northwest Power Act. The FBS serves PF loads (Federal agency, COU, and Residential Exchange loads) until FBS resources are exhausted. Residential Exchange resources then are used to serve any remaining PF load. DSI, New Resource, and Surplus Firm Power loads are combined into a single rate pool. Remaining Residential Exchange resources and new resources are used to serve this combined rate pool.

6.2.1.1.3 Revenue Requirement

The revenue requirement for this FY 2002-2006 Lookback analysis is explained in Section 3. The majority of the change is associated with greater COU loads, greater system augmentation costs and greater gross costs of the REP. FBS costs are based on the interest and amortization of the Federal debt for the hydro projects; planned net revenues; hydro operation and maintenance costs; costs related to WNP-1, -2, and -3, not including the costs associated with the WNP-3 Settlement Agreement; fish and wildlife costs; costs of the Hanford and Trojan nuclear plants; costs of hydro efficiency improvements; costs of system augmentation; and costs of balancing purchase power. Residential Exchange resource costs are based on the ASCs of utilities participating in the REP. New resource costs are those of the Idaho Falls contract, the generation portion of competitive acquisitions, geothermal, the Cowlitz Falls Project, and other firm purchased power. Other BPA costs include BPA's administrative and general costs, the costs associated with the WNP-3 Settlement Agreement, and the costs associated with BPA legacy conservation and energy efficiency programs.

6.2.1.1.4 Cost Allocation

Allocation of projected costs to customer classes is performed on an average energy basis in the
RAM-PROG and RAM-7B2 models. Generation costs are allocated by the use of Energy
Allocation Factors calculated using the results of the Loads and Resources Study. Conservation
and billing credit costs, BPA administrative and general expenses, energy service business
revenues, and WNP-3 Settlement Agreement costs are allocated across all BPA firm loads. The
cost allocation procedures for the Program Case are the same as those for the WP-02 Final
Proposal.

The adjustments made to allocated costs in the RAM-PROG for the Program Case are the same as those made in the WP-02 Final Proposal. These adjustments include excess revenue credits; the surplus firm power revenue surplus/deficiency; the section 7(c)(2) delta and margin; the DSI floor rate adjustment; and the exchange cost adjustment.

Excess Revenues are earned from the sale of secondary energy that is assumed available from
the average of 50-water years for secondary energy generation. Excess revenues are credited to
loads served by FBS and new resources. The RAM-PROG and RAM-7B2 models use the
secondary energy sales revenue forecast produced by the RiskMod model, documented in the
Final Risk Analysis Study, WP-02-FS-BPA-03. For this FY 2002-2006 Lookback analysis, no
changes are made to the original levels of secondary energy sales from the WP-02 Final
Proposal.

The Surplus Firm Power Revenue Surplus/Deficiency results when the available surplus firm power is sold at other than its fully allocated cost. In addition, BPA assumes that long-term extra-regional contracts will continue in the power sales mode, at amounts and rates set by the individual contracts. For this FY 2002-2006 Lookback analysis, no changes are made to the WP-02 Final Proposal levels of surplus firm power sales. The fully allocated cost of the surplus firm power, less the revenues received from the sale of that power after transmission costs are deducted, equals the surplus firm power revenue surplus/deficiency. The surplus/deficiency is allocated to firm loads served by FBS and new resources. The revenues from capacity sales are also treated like the surplus firm power revenue surplus/deficiency and are allocated to all firm loads served by FBS and new resources.

The 7(c)(2) Adjustment is made to account for the difference between the costs allocated to theDSIs and the revenues resulting from the applicable DSI rate. A net margin is used in

the typical margin adjustment. The net margin is 0.46 mills/kWh in nominal dollars. The DSI
rate equals the applicable wholesale rate to PF Preference customers plus the net margin.
The DSI Floor Rate test ensures that the DSI rate will not be lower than the Industrial Firm
Power rate in effect for Operating Year 1985, pursuant to section 7(c)(2) of the Northwest Power
Act. If the DSI rate is below that floor rate, the DSI rate is raised to the floor rate and an
adjustment is necessary to credit additional revenues from the DSIs to other firm power
customers.

The Residential Exchange Cost Adjustment alters BPA's revenue requirement because changes in the PF rate result in changes in the cost of the REP. RAM-Prog iterates with the ResExRAM to converge on the cost of the REP that is associated with the calculated PF rate. *See* Lookback Documentation, WP-07-E-BPA-44A, Section 6, Table COSA 06.

determining the applicable DSI rate. The net margin subsumes the value of reserves credit and

Rate Mitigation, Low Density Discount costs, and Conservation and Renewables (C&RD)
Discount costs are included in the rate calculations for the PF rate class. For this Lookback
analysis, no changes are made to the WP-02 Final Proposal levels of Low Density Discount costs
and C&RD costs. For a further discussion of these items, *see* Sections 2.8, 2.9, and 2.10 in the
Final WPRDS, WP-02-FS-BPA-05.

6.2.1.2 7(b)(2) Case

The 7(b)(2) Case is modeled in the same way as the Program Case except where section 7(b)(2) of the Northwest Power Act requires specific assumptions to be made that modify the Program Case.

6.2.1.2.1 Sales

The sales forecasts input to RAM-7B2 to calculate rates for the 7(b)(2) Case are the same sales forecasts used in the Program Case, with the following modifications. The 7(b)(2) Customer sales are adjusted to exclude estimates of programmatic conservation savings, competitive acquisitions conservation and billing credits. The 7(b)(2) Case also excludes REP loads. Sales to "within or adjacent" DSIs, adjusted to exclude estimates of the Conservation/Modernization program, are assumed to be transferred to the service territories of the preference customers for the entire rate test period as 100 percent firm loads. Sales to DSIs not "within or adjacent" are assumed to be served by IOUs.

6.2.1.2.2 Resources

The size of the FBS is identical for the two cases, Program Case and the 7(b)(2) Case. If the FBS is insufficient to serve all 7(b)(2) Customer loads in the 7(b)(2) Case, additional resources are assumed to come on-line. Consistent with the 1984 Implementation Methodology, three types of additional resources can be added to serve loads. As discussed in Doubleday, *et al.*, WP-07-E-BPA-60, the portions of the Mid-Columbia Hydro resources that are contracted to regional IOUs were not considered to be non-dedicated for purposes of the 7(b)(2) rate test. Therefore, these resources were removed from the 7(b)(2)(D) resource stack. In addition, BPA has removed obsolete programmatic conservation resources from the 7(b)(2)(D) resource stack. Sufficient 7(b)(2)(D) stack resources were available to meet 7(b)(2) Case loads through the rate test period. The cost of resources brought on-line in the 7(b)(2) Case is affected by the 7(b)(2) financing benefits analysis.

6.2.1.2.3 Financing Benefits

The financing benefits analysis required by section 7(b)(2)(E)(i) of the Northwest Power Act was performed by BPA's financial advisor, Sutro & Co. Incorporated. As stated above, the financing analysis has not been changed from that used in the WP-02 Final Proposal.

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See WP-02-FS-BPA-06A. The financial advisor's analysis appears as Appendix A to that document. It shows that the estimated financing benefit of BPA's participation in resource acquisitions of BPA sponsored conservation and generation resources by public utilities is 14 basis points lower than the 7(b)(2) Case without BPA backing. This increases the financing costs for additional resources in the 7(b)(2) Case, thereby increasing the 7(b)(2) Case power cost for the 7(b)(2) Customers. For the Cowlitz Falls Project, the estimated benefit of BPA's participation is 24 basis points between an assumed revenue bond issued with and without a BPA contract for the project. BPA sponsored programmatic conservation is 4 basis points lower than the same activities under the 7(b)(2) Case without BPA backing. The debt associated with the Idaho Falls Project was refunded to take advantage of lower interest rates. However, since the owner of the project, the City of Idaho Falls, can withdraw from the contract with BPA at its option, the new interest rate is not affected by Idaho Falls' contractual relationship with BPA. Therefore, no financing differential is associated with Idaho Falls.

6.2.1.2.4 Load/Resource Balance

For this FY 2002-2006 Lookback analysis, the size of the FBS and the amounts of balancing purchase power and augmentation power are the same in the 7(b)(2) Case as in the Program Case. In addition, the Program Case assumes a small amount of new resource power that is not assumed in the 7(b)(2) Case. The Program Case is in load/resource balance during the rate period. The 7(b)(2) Case sales assume no conservation savings and are therefore greater than the Program Case sales. The FBS was insufficient to meet the 7(b)(2) Customer loads in some of the years during the FY 2002-2010 rate test period, therefore additional resources were needed. These additional resources were taken from the 7(b)(2)(D) resource stack in the order of least cost first and their cost is added to the 7(b)(2) Case revenue requirement. The addition of these resources provides more power capability than is necessary to achieve load/resource balance, thus increasing the availability of surplus firm power in the 7(b)(2) Case. Therefore, additional

surplus power sales revenues were forecast in the 7(b)(2) Case. *See* Lookback Documentation, WP-07-E-BPA-44A, Section 6, Table 7b2Resource_01.

6.2.1.2.5 Revenue Requirement

The revenue requirement in the 7(b)(2) Case is comprised of the same costs and budget
information as in the Program Case, with some modifications. The 7(b)(2) Case excludes
Program Case revenue requirement amounts budgeted for conservation, direct generation
acquisitions of new resources and REP costs. Repayment studies are then performed for each
year of the 7(b)(2) rate test period using the same methodology as for the Program Case.

6.2.1.2.6 Cost Allocation

Section 7(b)(2) Customers are allocated costs of the FBS and new resource costs according to their use of the respective resources. Purchasers of surplus firm power are allocated FBS costs and new resource costs according to their use of the resources.

6.2.1.2.7 Rate Design

In the WP-02 Final Proposal, BPA estimated reserve benefits provided by the DSIs to be zero. *See* Section 1.2.2.1 above and the Final WPRDS, WP-02-FS-BPA-05, Appendix B. However, an estimate of possible stability reserves provided by the DSIs to the Transmission was included. *See* Lookback Documentation, WP-07-E-BPA-44A, Section 6, Table RDS 11. Other rate design adjustments in the 7(b)(2) Case are performed in the same manner as in the Program Case.

6.3 Summary of Results

Results for the two cases are summarized in Tables 6.1 and 6.2 below.

6.3.1 Program Case

The Program Case rate for each year is based on the costs of the resources used to serve the 7(b)(2) Customers. The resource costs are then adjusted as described above and in the WP-02 Final Proposal. Table 6.1 below shows the projection of undiscounted nominal Program Case rates.

6.3.2 7(b)(2) Case

The annual amount to be paid by 7(b)(2) Customers for their power needs in the 7(b)(2) Case is based on the cost of FBS resources and the cost of additional resources from the 7(b)(2)(D) stack. These power costs include adjustments for reserves and financing, *i.e.*, the absence of the reserve benefits and financing benefits implicit in the cost of power in the Program Case. The power costs are then subject to the same cost and revenue adjustment allocations as the Program Case rates. Table 6.2 below shows the projection of undiscounted nominal 7(b)(2) Case rates.

6.3.3 The Rate Test

The RAM-PROG model performs the section 7(b)(2) rate test after it and the RAM-7b2 model calculate the two sets of rates. First, the projected Program Case rates are reduced by the applicable 7(g) costs for each year. The applicable 7(g) costs are described in section 7(b)(2) as "conservation, resource and conservation credits, experimental resources and uncontrollable events." The 7(g) costs quantified for the WP-02 Final Proposal rate test are comprised of BPA-acquired and projected conservation and billing credits, energy efficiency costs, and C&RD costs. The projected rates for each year then are discounted to FY 2002 using factors based on BPA's projected borrowing rate for each year. Table 6.3 below shows BPA's future borrowing rates that were used in the discounting procedure and the corresponding cumulative discount factors. The discounted rates for each case then are averaged over the test period, rounded to one

decimal place, and compared (see Table 6.4 below). As shown in Table 6.4 below, the rate test

triggers. Therefore, a rate adjustment is required. See Section 5.

	TABLE 6.1PROGRAM CASE RATES(nominal mills/kWh)				
Fiscal Year	Rate	Applicable 7(g) Costs	Net Rate		
2002	32.947	1.904	31.044		
2003	32.256	1.951	30.305		
2004	32.893	1.974	30.919		
2005	33.110	2.145	30.965		
2006	33.279	2.363	30.916		
2007	34.305	2.271	32.034		
2008	34.174	2.390	31.784		
2009	34.957	2.600	32.356		
2010	34.665	2.887	31.779		

TABLE 6.2 7(b)(2) CASE RATES (nominal mills/kWh)

Fiscal Year	7(b)(2) Rate
2002	25.611
2003	24.862
2004	25.531
2005	25.681
2006	25.829
2007	29.711
2008	30.440
2009	32.770
2010	34.435

2	DISCOUNT FA	TABLE 6.3DISCOUNT FACTORS FOR THE RATE TEST				
3		Annual BPA	Cumulative			
4	Fiscal Year	Borrowing Rate	Discount Factor			
5	2002	.0708	.9339			
6	2003	.0689	.8737			
7	2004	.0690	.8173			
8	2005	.0688	.7647			
9	2006	.0685	.7157			
10	2007	.0681	.6700			
11	2008	.0677	.6275			
12	2009	.0672	.5880			
13	2010	.0667	.5513			
14						
15		TABLE 6.4				
16	COMPARI	SON OF RATES F	OR TEST			
17		(2002 mills/kWh)				
18		Discounted Prog	ram Discounted 7(b)(2)			
19	Fiscal Year	Case Rate	Case Rate			
20	2002	28.991	23.918			
21	2003	26.477	21.721			
22	2004	25.270	20.867			
	2005		10 (20			
23	2005	23.678	19.638			
23 24	2006	23.678 22.125	19.638 18.485			
23 24 25	2005 2006 2007	23.678 22.125 21.464	19.638 18.485 19.907			
23 24 25 26	2006 2007 2008	23.678 22.125 21.464 19.946	19.638 18.485 19.907 19.102			
23 24 25 26 27	2006 2007 2008 2009	23.678 22.125 21.464 19.946 19.026	19.638 18.485 19.907 19.102 19.270			
23 24 25 26 27 28	2006 2007 2008 2009 2010	23.678 22.125 21.464 19.946 19.026 17.518	19.638 18.485 19.907 19.102 19.270 18.982			
23 24 25 26 27 28 29	2006 2007 2008 2009 2010 Average Rate	23.678 22.125 21.464 19.946 19.026 17.518 22.7	19.638 18.485 19.907 19.102 19.270 18.982 20.2			
23 24 25 26 27 28 29 30	2006 2007 2008 2009 2010 Average Rate Difference of A	23.678 22.125 21.464 19.946 19.026 17.518 22.7 verage Rates	19.638 18.485 19.907 19.102 19.270 18.982 20.2 2.5			
23 24 25 26 27 28 29 30 31	2006 2007 2008 2009 2010 Average Rate Difference of A	23.678 22.125 21.464 19.946 19.026 17.518 22.7 verage Rates	19.638 18.485 19.907 19.102 19.270 18.982 20.2 2.5			
23 24 25 26 27 28 29 30 31 32	2006 2007 2008 2009 2010 Average Rate Difference of A	23.678 22.125 21.464 19.946 19.026 17.518 22.7 verage Rates	19.638 18.485 19.907 19.102 19.270 18.982 20.2 2.5			

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7. BACKCAST OF IOU ASCs, FY 2002-2006

7.1 2002 -2006 Backcast Overview

The purpose of this section is to estimate the annual ASC determinations that would have been made had the investor-owned utilities (IOUs) submitted ASC filings with BPA for 2002-2006.

During FY 2002-2006, no ASC filings were made with BPA. Such filings would have been made had BPA and the IOUs not executed REP Settlement Agreements and instead had an active REP. Consequently, annual ASCs must be estimated in order to determine what REP payments the IOUs would have received for this period under an active REP. This section of the Lookback Study will describe how these ASC determinations were made and present the results. Annual ASCs were calculated for Avista, Idaho Power, NorthWestern Energy, PacifiCorp, Portland General Electric, and Puget Sound Energy. Public utilities were not included in this review process for FY 2002-2006.

To estimate these ASCs, a detailed financial cost review was completed of each IOU for 2002-2006. The results of this cost review establish an annual "backcast" ASC determination for each utility. This section will focus on the backcast determinations for FY 2002-2006 only. *See also* Section 11 of this Study.

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7.2 Backcast ASC Determination Process

21 "Backcast" is BPA's term for ASCs that BPA would have determined had the REP been
22 operational during the WP-02 rate period. A backcast ASC is based on review and analysis of
23 2002-2006 FERC Form 1 data. These data were entered into the 1984 ASC Cookbook model to
24 establish estimates of the ASCs for each of the IOUs for the WP-02 rate period.

During the data collection and model input process it was recognized that the existing ASC
Cookbook model, based on the 1984 ASC Methodology (ASCM), was outdated. Also, it was
found that when data was manually transferred from a specific utility's records to the ASC
Cookbook model, input errors resulted in some instances. The ASC Cookbook was updated to
reflect new and corrected information.

The 1984 ASCM was applied to all utilities, with exception of not using the jurisdictional approach as the source for data, *i.e.*, data used before a regulatory commission for ratesetting purposes. Instead, cost, revenue, and load data were obtained from FERC's Uniform System of Accounts (Form No. 1 filings) for each IOU. The FERC Form 1 data populated the ASC Cookbook, an Excel-based computer modeling tool. Once populated with a utility's financial data, the ASC Cookbook separates, or "functionalizes," the total costs and revenues into the production, transmission, and distribution functions, *i.e.*, to functions that may be exchanged (exchangeable costs) and to those that may not be exchanged.

The sum of all exchangeable costs is described as Contract System Costs in the 1984 ASCM.
The ASC is the result of dividing a utility's Contract System Costs by its Contract System Load,
which is the sum of total retail load and distribution losses. The resulting backcast ASC for each
of the IOUs is one factor used to determine estimates of REP benefits. The REP benefit
determinations are discussed in Section 14.

7.3 Data Input for ASCs

The jurisdictional approach was not used in the backcast ASC determinations because the REP settlement agreements did not require utilities to submit ASC filings during FY 2002-2006. To determine costs, revenues, and loads, annual historical data was used that was reported by each IOU through FERC Form 1 filings. When appropriate, a utility's result of operations report was

also used. The FERC Form 1 data was downloaded and linked directly to the ASC Cookbook model. This process allowed for the most accurate, straightforward, and efficient data entry to complete the estimates for previous years.

BPA developed backcast ASCs for each year and each IOU using FERC Form 1 data to estimate the costs each utility would have filed pursuant to the 1984 ASC Methodology and their RPSAs.

7.4 Backcast ASC Calculation

A backcast ASC calculation is a four step process that includes the following: (1) exchangeable rate base; (2) return on rate base; (3) contract system costs; and (4) the resulting backcast ASC.

7.4.1 Exchangeable Rate Base Calculation

Exchangeable rate base is determined by identifying net production and transmission assets that
are functionalized to production and transmission. These assets include total plant investments
less depreciation and amortization reserves. The 1984 ASC Methodology specifies which assets
are to be functionalized to production and transmission.

7.4.2 Return on Rate Base Calculation

Return on rate base is calculated by multiplying exchangeable rate base by a cost of capital
percentage. The 1984 ASCM established that the cost of capital is equal to the weighted cost of
debt. The weighted cost of debt was derived by dividing total interest expense by total
outstanding debt. Both values are found in the FERC Form 1. Return on rate base is a direct
cost that is included in the Contract System Cost.

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7.4.3 Contract System Costs Calculation

Contract System Costs is determined by accumulating total operating expenses for a utility. 2 3 Contract System Costs and credits include operation, maintenance, and fuel costs associated with 4 generating resources and transmission plant, purchased power and other power supply expenses, 5 and transmission expenses. In addition, Contract System Costs include administration and 6 general, depreciation and amortization, and taxes. Contract System Costs are reduced by 7 production related to the net disposition of utility plants, revenue from sales for resale, and other 8 miscellaneous revenues. Contract System Costs and related credits are only those that are 9 functionalized to production or transmission.

The Contract System Costs is then determined using the following calculation:

Contract System Costs = (operating costs) – (wholesale market revenues and other revenue credits) + (return on rate base)

7.4.4 Contract System Load and Exchange Load

Prior to completing the final step in the ASC rate calculation, it is necessary to determine the Contract System Loads of a utility. Contract System Load is the total consumer end-use load of a utility that is reported in the FERC Form 1. The 1984 ASCM requires that distribution losses be included in Contract System Load. A loss factor of 5 percent was used to increase each utility's end-use load to determine their Contract System Load.

Exchange load was developed from FERC Form 1 reported residential end-use load, plus small farm load where available. Residential end-use load was increased by a 5 percent distribution loss factor to determine each IOU's exchange load.

7.4.5 Backcast ASC Calculation

The base ASC determination is calculated by dividing a utility's Contract System Costs by the utility's Contract System Load.

7.5 Changes That Were Made to the ASC Cookbook Model

It was recognized that the existing ASC Cookbook model, based on the 1984 ASCM, was outdated. Had the REP been in place during FY 2002-2006, updates would have been completed and any errors would have been corrected in the process of making ASC determinations. For this backcast, the ASC Cookbook was updated and corrected to reflect changed circumstances and information.

The following sections outline both major and minor revisions that are proposed to the 1984 ASC Cookbook model. The revisions include changes in assumptions, addition of new accounts, deletion of out-dated accounts, deletion of repetitive line items, and updates/changes to funtionalizations.

For details to the specific line items, refer to the 1984 ASC Cookbook template published in the WP-07 Final Proposal, WP-07-FS-BPA-05B, and the revised 1984 ASC Cookbook. *See* Lookback Documentation, WP-07-E-BPA-44A, Section 7.

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7.5.1 Firm Sales for Resale

Firm sales for resale revenues are functionalized to production. It was assumed that a utility's resources were used first to meet its requirements load, and then to support its wholesale marketing activities. In the ASC forecast, the sales for resale credit was reduced to 80 percent of the actual reported amount. For the backcast ASCs, 100 percent of the firm sales for resale actual reported amounts are proposed to be credited in the calculation of the IOUs' ASCs.

The "Other Revenue Accounts" are accounts established to record revenues that are not directly tied to the sale of power. The accounts include: Sale of Water/Water Power; Rent from Utility Property, Wheeling Revenue and Other Miscellaneous Revenues. Listed below are the proposed changes to Accounts 450-456.1.

7.5.2.1 Functionalization of Account 453 "Sale of Water/Water Power"

BPA changed the functionalization of Account 453 "Sale of Water/Water Power" from Direct
Production to Direct Distribution. Account 453 includes revenues derived from the sale of water
for irrigation, domestic and industrial purposes. Though the revenues might be associated with a
hydro facility, the revenues are not directly tied to the generation of power.

7.5.2.2 Functionalization of Account 454 "Rent from Property"

BPA changed the functionalization of Account 454, "Rent from Property" from Direct
Production to the Transmission and Distribution (TD) ratio. Account 454 includes the revenue
from the rental of utility property. This includes buildings and other assets. However, in the
description of this account there are no revenues that are tied directly to generation facilities or
the utility's system. The TD ratio is proposed to account for the rental of buildings and property
as well as the revenues derived from telecommunication and fiber systems that are attached to
the distribution and transmission poles and towers.

7.5.2.3 Functionalization of Account 456 "Other Revenues"

BPA changed the functionalization of account 456 "Other Revenues" from Direct Transmission
to production/transmission/distribution/general (PTDG) ratio. FERC has established Account
456.1 to account for wheeling revenues; therefore, the remaining costs in Account 456 are
miscellaneous.

7.5.2.4 Functionalization of Account 456.1 "Transmission of Power for Others"

Account 456.1 was established by FERC to account for wheeling revenues. This account continues to use the Direct Transmission functionalization for wheeling revenues.

7.5.3 Derivatives

A derivative is a financial instrument whose value depends on some underlying financial asset, commodity index or predefined variable. Some of the main uses of derivative instruments are to fix future prices in the present (forwards and futures), to exchange cash flows or modify asset characteristics (swaps) and to endow the holder with the right, but not the obligation, to engage in a transaction (options).² The main types of derivatives used in the utility industry include futures, forwards, options, and swaps associated with the purchase or sale of power and fuel. Utilities are required to book assets and liabilities related to derivatives on their balance sheets.

Derivative accounts were functionalized to Distribution in the WP-07 Final Proposal. In addition, derivatives were discussed the Final WPRDS, WP-07-FS-BPA-05, Section 2.19.1.1.2. BPA is proposing to functionalize derivatives to Production for purposes of the backcast ASCs.

All derivative accounts listed in the FERC System of accounts have been incorporated. These include:

7.5.3.1 Derivative Assets

• Account 175 "Long-Term Portion of Derivative Assets"

• Account 176 "Long-Term Portion of Derivative Assets- Hedges"

• Account 176 "Less: Long-Term Portion of Derivative Assets- Hedges"

² Guide to the International Banking Statistics, Page 65. July 2000 - Bank for International Settlements Monetary and Economic Department Basel, Switzerland.

7.5.3.2 Derivative Liabilities

• Account 244 "Long-Term Portion of Derivative Instruments Liabilities"

- Account 245 "Long-Term Portion of Derivative Instruments- Hedges Liabilities"
- Account 245 "Less: Long-Term Portion of Derivative Instruments- Hedges Liabilities"

7.5.4 Oregon Public Purpose Charges and Conservation

In 1999, the state of Oregon passed legislation mandating that utility customers be charged three percent of the total retail revenues of electric and gas utilities that operate in Oregon, to be used to develop comprehensive conservation and renewable resource programs. This surcharge, known as the Oregon Public Purpose Charge (OPPC), funds conservation and other renewable projects conducted within the service territories of the applicable utilities. The OPPC effectively replaces the conservation programs within the state of Oregon for Portland General Electric, PacifiCorp (Oregon) and, in 2006, Idaho Power.

BPA proposes to include the OPPC as a conservation cost of the Oregon utilities for purposes of determining the backcast ASC.

Without accounting data from the IOUs or information from the Oregon Public UtilityCommission, it is very difficult to determine how this charge would be capitalized and amortizedovertime. Therefore, BPA proposes to treat this charge as an expense each year.

Under the 1984 ASC Methodology, conservation is generally functionalized to production.
However, the 1984 ASC Methodology specifies that advertising costs and costs associated with model conservation be excluded. BPA has limited information about what portion of the OPPC funds are used for these non-exchangeable purposes. To account for costs such as advertising and model conservation, 70 percent of the costs will be functionalized to production; the remaining 30 percent functionalized to distribution.

7.5.5 Conservation Costs

The FERC Form 1 does not have adequate detail to show the allocation of costs associated with the various types of conservation. Therefore, to be consistent with the treatment of the OPPC discussed above, BPA is proposing to use a new functionalization ratio called "direct conservation" or DIR-C. This functionalization code allocates 70 percent of conservation cost to production and 30 percent to distribution.

7.5.6 Common Plant

Common utility plant is property plant and equipment that is shared between the electric and retail gas operations of a utility. As a shared plant, there needs to be a line that is discernable between the electric and gas operations of the utility in order to calculate the exchangeable electric operations.

BPA is proposing to functionalize the common utility plant using the

Production/Transmission/Distribution (PTD) ratio. The revised 1984 ASC Cookbook includes the Accumulated Provision for Depreciation, Amortization, & Depletion of Common Plant in the Account 108 "Depreciation Reserve".

7.5.7 Acquisition Adjustments

Acquisition Adjustments represent the difference between the book value of acquired utility plant and the purchase price of the acquisition of the utility plant.

Acquisition adjustments are proposed to be functionalized to production. This treatment recognizes that the regional utilities are investing in generation projects by either building new plants or buying shares of new or established generation plants.

7.5.8 Functionalization of Property Taxes

BPA proposes to change the functionalization of property taxes that are assessed against
production assets that are outside a utility's service territory. Property taxes are generally
functionalized using the production/transmission/distribution/general (PTDG) ratio. Property
taxes in states where the utility has service territory continue to be functionalized by PTDG.
For property taxes in states where the utility has a generating facility that is outside the service
territory, the proposed functionalization is to Direct Production. An example of this is the
Colstrip power plant, located in Montana, where the participating utilities do not have service
territory in Montana, yet include Montana property taxes on their FERC Form 1.

The FERC Form 1 of each utility was reviewed to identify in which states there was retail service territory. In addition, the property taxes of each utility were reviewed to determine which property taxes were paid to states outside their service territory. The production assets of the utilities were then reviewed to determine if the taxes outside of their service territory were in states where the utility has a production plant.

7.6 Line Item Changes

The 1984 ASC Cookbook was revised to conform to the FERC Form 1 line items. Listed below are changes to the ASC Cookbook that have not been discussed above.

7.6.1 Deletions of Line Items

The following line items are proposed to be deleted:

7.6.1.1 Schedule 1: Rate Base

• Duplicated lines for "Other Production Plant", Accounts 340-346

1	• All lines within General plant, that has the 10%TD functionalization
2	• Duplicated lines items for "Other Production" in the Amortization and Depreciation
3	reserve section, Account 108
4	• "Other Transmission Plant" line items in the Amortization and Depreciation reserve
5	section, Account 108
6	• "Other Amortization" in the Amortization and Depreciation reserve section, Account 108
7	• "Amort. Reserve" in the Amortization and Depreciation reserve section, Account 111
8	• "Investments", Account 123
9	• "Weatherization Investment" within the Deferred Debits, this is included within
10	Regulatory assets.
11	• "Interest and Dividend receivable" within the Deferred Debits section
12	• "Other Credits" within the Deferred Credits section
13	
14	7.6.1.2 Schedule 3: Operating Expenses
15	• All lines that are "Other Prod" within Production Expenses
16	• All lines that are "Other Trans" within Production Expenses
17	• All lines that are "Other Dist" within Production Expenses
18	• All lines within Administration & General Expense section, with the 10% TD
19	functionalization
20	• All lines that are "Other A&G" within Administration & General Expense section
21	• "Other Depreciation Exp" within the Depreciation and Amortization Expenses
22	• "Amort. of Limited Term Plant" within the Depreciation and Amortization Expenses
23	• "Amort. of Prop. Losses" within the Depreciation and Amortization Expenses
24	• "Amort. of Regulatory Assets" within the Depreciation and Amortization Expenses
25	All "Other Amort." within the Depreciation and Amortization Expenses

1	• "In-lieu Taxes". This was removed as a line item as well as the section that calculated
2	this line item
3	• "Non-Firm Sales for Resale" within the Other Included Item section
4	"Billing Credits" in the Other Revenue Section
5	• All "Other Revenue" in the Other Revenue Section
6	
7	7.6.2 Addition of Line Items
8	The following line items are proposed to be added:
9	
10	7.6.2.1 Schedule 1: Rate Base
11	• "Accum. Prov for Depr, Amort, and Depl. Commn Plt" Line item is discussed above and
12	functionalized using PTDG ratio
13	• "Accum. Prov for Depr, Amort, and Depl.: Other Utl Plt: Electric" Functionalized using
14	PTD ratio
15	• "Amort. of Plant Acquisition Adjustment (Electric)" Functionalized to Production
16	• "(Utility Plant) In Service (Classified) Common," Discussed above
17	• "Other Materials and Supplies" Account 156 Functionalized on the PTDG ratio
18	• "Stores Expense Undistributed" Account 163 Functionalized on the PTD ratio
19	• "Preliminary Survey and Investigation Charges Electric" Account 183 Functionalized to
20	Distribution
21	• "Preliminary Natural Gas Survey and Investigation Charges" Account 183.1
22	Functionalized to Distribution
23	• "Other Preliminary Survey and Investigation Charges" Account 183.2 Functionalized to
24	Distribution
25	• "Temporary Facilities" Account 185 Functionalized with the PTDG ratio

1	• "Deferred Losses from Disposition of Utility Plant" Account 187 Functionalized with the
2	PTD ratio
3	• "Research, Development and Demonstration Expenditures" Account 188 Functionalized
4	to Distribution
5	• "Unamortized Loss on Reacquired Debt" Account 189 Functionalized with the PTDG
6	ratio
7	• "Accumulated Deferred Income Taxes" Account 190 Functionalized to Distribution
8	"Unrecovered Purchased Gas Costs" Account 191 Functionalized to Production
9	• "Other Regulatory Liabilities" Functionalized using Direct Analysis
10	
11	7.6.2.2 Schedule 3: Operating Expenses
12	• "BPA REP Reversal" Functionalized to Production
13	• "Oregon Public Purposes Charge" Functionalized using the DIR-C functionalization ratio
14	as discussed above
15	• "Common Plant – Electric" within the Depreciation and Amortization Section Discussed
16	above
17	• Renamed Account 411.6 located in the Other Included Items to "(Less) Gain from Disp.
18	of Plant"
19	• Renamed Account 447 located in Sales for Resale section to "Sales for Resale"
20	• "Revenues from Transmission of Electricity of Other" Account 456.1 Functionalized to
21	Transmission as discussed above
22	• "Regional Control Service Revenues" Account 457.1 Functionalized to Transmission
23	"Miscellaneous Revenues" Account 457.2 Functionalized to Transmission
24	

1 **7.6.3 Functionalization Changes**

BPA proposes to make the changes described below to the functionalization of the following
accounts in addition to those discussed above. The changes are due to error corrections, general
updates, and changes in assumption based on new or better information. The abbreviations used
in the descriptions are as follows:

6		Functionalized to Production (direct):	DIR-P
7		Functionalized to Transmission (direct):	DIR-D
8		Functionalized to Distribution (direct):	DIR-D
9		Functionalized to General:	G
10		Production, Transmission, and Distribution (ratio):	PTD
11			
12	7.6.3.1	Schedule 1: Rate Base	
13	•	Account 338 "Miscellaneous Equipment" Change F	functionalization from DIR-D to PTD
14	•	Account 105 "Plant Held for Future Use" Change F	unctionalization from PTD to PTDG
15	•	Account 154 "Plant Materials and Operating Suppli	es" Change Functionalization from
16		TDG to PTD	
17	•	Account 184 "Clearing Accounts" Change Function	nalization from Labor to DIR-D
18	•	Account 186 "Miscellaneous Deferred Debits" Cha	nge Functionalization from Labor to
19		Direct Analysis	
20	•	Account 256 "Deferred Gains from Disposition of U	Jtility Plant" Change
21		Functionalization from TDG to PTD	
22	•	Account 253 "Other Deferred Credits" Change Fun	ctionalization from DIR-D to Direct
23		Analysis	
24			
25	7.6.3.2	Schedule 2: Operating Expenses	
26	•	Account 922 "(Less) Administration Expenses Tran	sferred Credit" Change
27		Functionalization from Labor to PTD	

• Account 923 "Outside Services Employed" Change Functionalization from Labor to PTD

- Account 929 "(Less) Duplicate Charges Credit" Change Functionalization from Labor to PTDG
- Account 930.2 "Miscellaneous General Expenses" Change Functionalization from DIR-D to PTD
- Account 931 "Rents" Change Functionalization from DIR-D to PTD

7.6.4 PacifiCorp Inter-Jurisdictional Cost Allocation

As stated above, PacifiCorp's costs are allocated to PNW states Idaho, Oregon, and Washington. This reflects how PacifiCorp would have filed for ASCs if there was an active REP. First, PacifiCorp's total utility cost data from the FERC Form 1 was entered into the ASC Cookbook model. To allocate PacifiCorp's total system to the identified PNW states, PacifiCorp's costs were allocated based on the Inter-Jurisdictional Cost Allocation System developed jointly by most of the state commissions that regulate PacifiCorp. This system allocates PacifiCorp's total electric operations proportionately to each state in which it has regulated service territory.

PacifiCorp provided the annual state allocation factors in an electronic form. In addition, BPA used PacifiCorp's Oregon Jurisdiction Results of Operations filings to the Oregon Public Utility Commission for 2002, 2004, and 2006. The Results of Operations filings were used to develop allocation factors for rate base and cost that were directly allocated to each state. The 2003 allocation factors for direct allocation to each state were developed from the 2002 Results of Operations filings were used to match the allocation factors that were provided by PacifiCorp to the corresponding accounts in the ASC Cookbook model. The total costs in each account were then multiplied by the individual state allocation factors to produce the cost for Oregon, Washington and Idaho.

Puget Sound and PacifiCorp recorded a negative purchase power expense in their FERC Form 1 to account for the benefits paid by BPA under the REP Settlements. BPA removed this negative entry.

7.6.5 Reversal of Purchase Power Expense

Portland General included the BPA power sale in its power purchases at BPA's RL rate. We removed the power purchase at the RL rate and replaced it with purchases at market rates. The effect of this adjustment is to increase Portland General's cost of purchase power.

7.7 Summary of Backcast ASCs for FY 2002-2006

Table 7.1 summarizes the backcast ASC determinations by utility for FY 2002-2006.

13 14 15	3 TABLE 7 4 Backcast ASCs – FY 2002-2006 5 (\$/MWh)					
16		2002	2003	2004	2005	2006
17 18 19 20 21 22	Avista Idaho Power NorthWestern Energy PacifiCorp (regional) Portland General Puget Sound	44.38 44.66 46.99 37.65 52.54 48.05	44.54 37.52 46.99 36.80 47.16 45.41	45.77 34.21 50.43 39.49 44.30 46.50	42.39 33.27 47.50 40.74 46.99 50.21	44.47 28.36 52.62 40.91 49.72 55.13
23 24	i ugot bound	10.00		10.00	00.21	00.10
25						
26						
27						
28						
29						
30 31			WP-07-E-BPA	-44		

Table 7.1			Utility:	AVISTA
Average System Cost (ASC) Cookbook Summary			Date Filed:	7/2/2003
			Year/Quarter:	2002/Q4
				Distribution/
Account Description	Total	Production	Transmission	Other
Schedule 1: Plant Investment / Rate Base / Rate of Return				
Total Intanglibe Plant	26,239,075	11,203,872	4,466,267	10,568,936
Total Production Plant	740,735,723	740,735,723	0	0
Total Transmission Plant	295,283,980	0	295,283,980	0
Total Distribution Plant	698,757,399	0	0	698,757,399
Total General Plant	48,474,712	10,600,221	11,244,331	26,630,160
Total Electric Plant In-Service	1,809,490,889	762,539,816	310,994,579	735,956,494
1 599.				
LESS. Total Depreciation and Americation	620 191 621	281 402 240	100 965 105	226 012 146
	039,101,021	201,403,340	120,805,135	230,913,140
Total Net Plant	1,170,309,268	481,136,476	190,129,444	499,043,348
(Total Electric Plant In-Service) - (Total Depreciation & Amortizat	ion)			
Assets and Other Debits (Comparative Balance S	Sheet)			
Cash Working Capital	29,849,502	19,832,008	2,447,511	7,569,983
Total Utility Plant	119,728,736	44,900,684	17,899,032	56,929,020
Total Other Property and Investments	46,498,833	0	0	46,498,833
Total Current and Accrued Assets	75,443,963	68,647,708	2,018,855	4,777,400
Total Deferred Debits	443,938,853	210,252,910	10,306,674	223,379,269
Total Assets and Other Debits	715,459,887	343,633,311	32,672,072	339,154,504
LESS:				
Liabilities and Other Credits (Comparative Balan	ce Sheet)			
Total Other Noncurrent Liablities	0	0	0	0
Total Current and Accrued Liabilities	50,057,633	50,057,633	0	0
Total Deferred Credtis	535,788,341	34,996,533	3,899,825	496,891,983
Total Liabilities and Other Credits	585,845,974	85,054,166	3,899,825	496,891,983
Total Rate Base	1 299 923 181	1 299 923 181	1 299 923 181	1 299 923 181
(Total Net Plant + Total Assets and Other Dehits - Total Lishilities	and Other Credite	·,200,020,101	1,200,020,101	1,200,020,101
		"/		

Schedule 2: Weighted Average Cost of Long Term Debt

Long Term Debt	1,105,078,874
Interest for Year	93,183,757
Rate of Return	8.43%
(Interest/Long Term Debt)	

Table 7.1			Utility:	AVISTA
Average System Cost (ASC) Cookbook Summary			Date Filed:	7/2/2003
			Year/Quarter:	2002/Q4
				Distribution/
Account Description	Total	Production	Transmission	Other
Scneaule 3: Expenses	070 / / - 0 / ·	070 4 / 7 0 / 1	-	-
I otal Production Expense	276,115,311	276,115,311	0	0
	13,592,302	0	13,592,302	0
Total Distribution Expense	14,320,185	0	0	14,320,185
Total Customer and Sales Expenses	23,375,746	0	0	23,375,746
Total Administration and General Expenses	46,173,337	17,321,619	5,987,786	22,863,931
I otal Operations and Maintenance	373,576,881	293,436,930	19,580,088	60,559,862
Total Depreciation and Amortization	53,677,906	24,812,307	9,064,394	19,801,205
	, ,			, ,
Schedule 3A Items: Taxes				
Taxes Accrued, Prepaid, and Charged During Ye	ar			
Total Federal	5,859,037	3,087,798	897,625	1,873,615
Total State	49,871,419	12,215,733	2,591,720	35,063,966
Total County and Municipal	15,957,107	6,318,154	1,836,691	7,802,262
<u>Total Taxes</u>	71,687,563	21,621,685	5,326,036	44,739,842
Schedule 3B Items: Other Included Items				
Total Disposition of Plant	0	0	0	0
Total Sales from Resale	64,082,272	64,082,272	0	0
Total Other Revenues	55,491,115	17,577,365	18,957,278	18,956,473
Total Other Included Items	119,573,387	81,659,637	18,957,278	18,956,473
Saturdada da Asamana Santana Oracta				
Schedule 4: Average System Costs	270 269 062	259 211 296	15 012 240	106 144 427
Total Operating Expenses	379,300,903	238,211,200	15,013,240	100,144,437
Total Taxes - Total Other Included Items)				
Return from Rate Base	109,613,647	62,375,168	18,458,485	28,779,994
(Total Rate Base * Rate of Return)				
<u>Total Cost</u>	488,982,610	320,586,454	33,471,725	134,924,431
(Total Operating Expenses + Return from Rate Base)				
Total Load (MWh)	ſ	7 508 020		
5% Distribution Losses (MWh)		370 001		
Average System Cost (\$/MWh)		AA 20		
Average System COst (#/WWWII)	l	44.58		

(Total Production and Transmission Costs) / (Total Load + Distribution Losses)

Table 7.1 continued			Utility:	AVISTA
Average System Cost (ASC) Cookbook Summary			Date Filed:	4/30/2004
		-	Year/Quarter:	2003/Q4
				Distribution/
Account Description	Total	Production	Transmission	Other
Schedule 1: Plant Investment / Rate Base / Rate of Return				
Total Intanglibe Plant	26,484,820	12,001,902	4,290,864	10,192,055
Total Production Plant	852,627,548	852,627,548	0	0
Total Transmission Plant	304,827,401	0	304,827,401	0
Total Distribution Plant	724,054,166	0	0	724,054,166
Total General Plant	52,183,500	12,390,123	11,779,717	28,013,660
Total Electric Plant In-Service	1,960,177,435	877,019,573	320,897,982	762,259,881
LESS:				
Total Depreciation and Amortization	686,989,565	305,818,974	128,271,374	252,899,217
Total Net Plant	1,273,187,870	571,200,599	192,626,608	509,360,663
(Total Electric Plant In-Service) - (Total Depreciation & Amortizat	tion)			
Assets and Other Debits (Comparative Balance S	sheet)			
Cash Working Capital	30,803,571	20,321,811	2,600,835	7,880,925
Total Utility Plant	156,734,762	50,946,291	18,214,079	87,574,392
Total Other Property and Investments	55,738,128	0	0	55,738,128
Total Current and Accrued Assets	51,989,612	46,469,555	1,635,431	3,884,626
Total Deferred Debits	438,013,241	213,125,605	9,683,157	215,204,479
Total Assets and Other Debits	733,279,314	330,863,262	32,133,502	370,282,551
LESS:				
Liabilities and Other Credits (Comparative Balane	ce Sheet)			
Total Other Noncurrent Liablities	0	0	0	0
Total Current and Accrued Liabilities	36,057,271	36,057,271	0	0
Total Deferred Credtis	566,645,699	29,741,678	3,882,510	533,021,511
Total Liabilities and Other Credits	602,702,970	65,798,949	3,882,510	533,021,511
Total Rate Base	1,403,764,214	836,264,912	220,877,599	346,621,703
(Total Net Plant +Total Assets and Other Debits - Total Liabilities	and Other Credits	;)		

Schedule 2: Weighted Average Cost of Long Term Debt

Long Term Debt		
Interest for Year		
Rate of Return		
Rate of Return		

1,122,669,487	
82,856,279	
7.38%	

Table 7.1 continued Average System Cost (ASC) Cookbook Summary			Utility: Date Filed: Year/Quarter:	AVISTA 4/30/2004 2003/Q4			
Account Description	Total	Production	Transmission	Distribution/			
	Total	Troduction		other			
Schedule 3: Expenses							
Total Production Expense	329,682,924	329,682,924	0	0			
Total Transmission Expense	14,989,464	0	14,989,464	0			
Total Distribution Expense	16,539,116	0	0	16,539,116			
Total Customer and Sales Expenses	23,555,750	0	0	23,555,750			
Total Administration and General Expenses	47,379,256	18,609,502	5,817,216	22,952,538			
Total Operations and Maintenance	432,146,510	348,292,426	20,806,680	63,047,404			
Total Depreciation and Amortization	57,368,348	28,070,204	9,192,603	20,105,541			
<u>Schedule 3A Items: Taxes</u> Taxes Accrued, Prepaid, and Charged During Year							
Total Federal	3,352,764	3,701,840	999,866	(1,348,942)			
Total State	47,296,247	13,513,859	2,729,452	31,052,936			
Total County and Municipal	15,105,721	6,085,631	1,643,728	7,376,362			
<u>Total Taxes</u>	65,754,732	23,301,330	5,373,045	37,080,357			
Schedule 3B Items: Other Included Items							
Total Disposition of Plant	0	0	0	0			
Total Sales from Resale	80,710,417	80,710,417	0	0			
Total Other Revenues	87,425,855	32,922,947	23,321,135	31,181,774			
Total Other Included Items	168,136,272	113,633,364	23,321,135	31,181,774			
Schedule 4: Average System Costs							
Total Operating Expenses	387,133,318	286,030,597	12,051,193	89,051,528			
(Total O&M + Total Depreciation & Amortization + Total Taxes - Total Other Included Items)							
Return from Rate Base	103,601,889	61,718,787	16,301,410	25,581,692			
(Total Rate Base * Rate of Return)							
Total Cost	490,735,207	347,749,384	28,352,603	114,633,219			
(Total Operating Expenses + Return from Rate Base)							
Total Load (MWh)	Γ	8,041,166					

5% Distribution Losses (MWh)

Average System Cost (\$/MWh)

(Total Production and Transmission Costs) / (Total Load + Distribution Losses)

402,058

44.54

Table 7.1 continued		Utility:	AVISTA	
Average System Cost (ASC) Cookbook Summarv			Date Filed:	4/25/2005
			Year/Quarter:	2004/Q4
				Distribution/
Account Description	Total	Production	Transmission	Other
Schedule 1: Plant Investment / Rate Base / Rate of Return				
Total Intanglibe Plant	27,037,661	11,902,632	4,654,029	10,480,999
Total Production Plant	863,539,966	863,539,966	0	0
Total Transmission Plant	337,651,373	0	337,651,373	0
Total Distribution Plant	760,400,014	0	0	760,400,014
Total General Plant	53,766,005	12,894,175	12,558,274	28,313,556
Total Electric Plant In-Service	2,042,395,019	888,336,774	354,863,676	799,194,569
LESS:				
Total Depreciation and Amortization	715,663,333	316,344,244	134,349,766	264,969,322
<u>Total Net Plant</u>	1,326,731,686	571,992,529	220,513,909	534,225,247
(Total Electric Plant In-Service) - (Total Depreciation & Amortizat	ion)			
Assets and Other Debits (Comparative Balance S	Sheet)			
Cash Working Capital	32,935,455	21,395,630	2,839,136	8,700,689
Total Utility Plant	129,233,967	39,962,528	15,625,684	73,645,755
Total Other Property and Investments	93,007,135	55,824,772	0	37,182,363
Total Current and Accrued Assets	27,952,949	20,281,539	2,358,963	5,312,447
Total Deferred Debits	428,982,406	193,721,137	11,148,765	224,112,504
Total Assets and Other Debits	712,111,912	331,185,606	31,972,548	348,953,759
LESS:				
Liabilities and Other Credits (Comparative Balan	ce Sheet)			
Total Other Noncurrent Liablities	39,971,987	39,971,987	0	0
Total Current and Accrued Liabilities	5,712,950	5,712,950	0	0
Total Deferred Credtis	601,471,693	44,200,658	2,964,602	554,306,433
Total Liabilities and Other Credits	647,156,630	647,156,630	647,156,630	647,156,630
Total Rate Base	1,391,686,968	810,029,447	248,245,958	333,411,563
(Total Net Plant +Total Assets and Other Debits - Total Liabilities and Other Credits)				

Schedule 2: Weighted Average Cost of Long Term Debt

Long Term Debt	1,133,530,068			
Interest for Year	79,197,611			
Rate of Return	6.99%			
(Interest/Long Term Debt)				
Table 7.1 continued Average System Cost (ASC) Coskbook Symmetry			Utility:	AVISTA
---	--	-------------	---------------	---------------
Average System Cost (ASC) Cookbook Summary			Date Filed:	4/25/2005
			real/Quarter:	Distribution/
Account Description	Total	Production	Transmission	Other
	iulai		1013111331011	
Schedule 3: Expenses				
Total Production Expense	364,036,052	364,036,052	0	0
Total Transmission Expense	16,115,328	0	16,115,328	0
Total Distribution Expense	19,108,033	0	0	19,108,033
Total Customer and Sales Expenses	25,629,327	0	0	25,629,327
Total Administration and General Expenses	51,165,545	19,699,628	6,597,762	24,868,155
Total Operations and Maintenance	476,054,285	383,735,680	22,713,090	69,605,515
Total Depreciation and Amortization	57,428,642	28,615,880	9,400,588	19,412,174
				<u> </u>
<u>Schedule 3A Items: Taxes</u>				
Taxes Accrued, Prepaid, and Charged During Ye	ar			
Total Federal	13,919,572	3,143,646	903,563	9,872,363
Total State	46,910,425	13,372,538	2,746,405	30,791,482
Total County and Municipal	16,051,765	6,458,245	1,856,263	7,737,257
<u>Total Taxes</u>	76,881,762	22,974,429	5,506,231	48,401,102
Schedule 3B Items: Other Included Items				
Total Disposition of Plant	0	0	0	0
Total Sales from Resale	89,993,250	89,993,250	0	0
Total Other Revenues	82,389,299	28,407,430	25,957,919	28,023,951
Total Other Included Items	172,382,549	118,400,680	25,957,919	28,023,951
Sala dula di Anamana Suntana Ocata				
Schedule 4: Average System Costs	437 082 140	316 025 310	11 661 990	100 304 840
(Total O&M + Total Depreciation & Amortization +	437,302,140	510,925,510	11,001,990	103,334,040
Total Taxes - Total Other Included Items)				
Return from Rate Base	97,234,547	56,595,232	17,344,478	23,294,838
(Total Rate Base * Rate of Return)				
Total Cost	535,216,687	373,520,542	29,006,467	132,689,678
(Total Operating Expenses + Return from Rate Base)				
Total Load (MWh)]	8,376,616		
5% Distribution Losses (MWh)		418,831		
Average System Cost (\$/MWh)		45.77		
(Tatal Draduation and Transmission Costs) ((Tatal Last 1) District	••••••••••••••••••••••••••••••••••••••			

Table 7.1 continued			Utility:	AVISTA
Average System Cost (ASC) Cookbook Summary			Date Filed:	4/17/2006
		-	Year/Quarter:	2005/Q4
				Distribution/
Account Description	Total	Production	Transmission	Other
Schedule 1: Plant Investment / Rate Base / Rate of Return				
Total Intanglibe Plant	27,115,071	12,474,446	4,663,598	9,977,027
Total Production Plant	988,538,283	988,538,283	0	0
Total Transmission Plant	369,567,144	0	369,567,144	0
Total Distribution Plant	790,630,169	0	0	790,630,169
Total General Plant	60,419,320	16,008,598	14,135,365	30,275,356
Total Electric Plant In-Service	2,236,269,987	1,017,021,327	388,366,107	830,882,552
I FSS [.]				
Total Depreciation and Amortization	761 957 388	340 625 585	143 321 571	278 010 232
Total Boprosidion and Amorazation	101,001,000	040,020,000	140,021,071	210,010,202
Total Net Plant	1,474,312,599	676,395,742	245,044,537	552,872,320
(Total Electric Plant In-Service) - (Total Depreciation & Amortizat	ion)			
Assets and Other Debits (Comparative Balance S	Sheet)			
Cash Working Capital	26,756,301	15,089,003	2,855,729	8,811,569
Total Utility Plant	159,863,306	54,108,289	20,228,499	85,526,517
Total Other Property and Investments	80,432,811	46,731,530	0	33,701,281
Total Current and Accrued Assets	89,017,914	80,513,020	2,709,133	5,795,760
Total Deferred Debits	403,526,254	235,705,916	23,361,156	144,459,182
Total Assets and Other Debits	759,596,586	432,147,758	49,154,518	278,294,309
LESS:				
Liabilities and Other Credits (Comparative Balan	ce Sheet)			
Total Other Noncurrent Liablities	10,044,751	10,044,751	0	0
Total Current and Accrued Liabilities	3,446,699	3,446,699	0	0
Total Deferred Credtis	675,181,617	130,332,756	4,825,347	540,023,514
Total Liabilities and Other Credits	688,673,067	143,824,206	4,825,347	540,023,514
Total Pato Baso	1 545 000 440	064 740 005	200 272 700	201 142 145
Total Nate Dase	1,040,230,118	904,719,295	209,3/3,/08	291,143,115
(Total Net Fight + Total Assets and Other Debits - Total Liabilities	and Other Credits	9/		

Long Term Debt	1,225,824,323
Interest for Year	80,470,939
Rate of Return	6.56%
(Interest/Long Term Debt)	

Table 7.1 continued Average System Cost (ASC) Cookbook Summary			Utility: Date Filed:	AVISTA 4/17/2006
			Year/Quarter:	2005/Q4
	_		_	Distribution/
Account Description	Total	Production	Transmission	Other
Schedule 3: Expenses				
Total Production Expense	452,344,552	452,344,552	0	0
Total Transmission Expense	16,327,683	0	16,327,683	0
Total Distribution Expense	21,239,624	0	0	21,239,624
Total Customer and Sales Expenses	24,680,467	0	0	24,680,467
Total Administration and General Expenses	50,834,871	19,744,261	6,518,151	24,572,458
Total Operations and Maintenance	565,427,197	472,088,813	22,845,834	70,492,549
Total Depreciation and Amortization	64,877,706	33,393,276	10,467,386	21,017,044
Schedule 3A Items: Taxes				
Taxes Accrued, Prepaid, and Charged During Ye	ar			
Total Federal	31,348,483	3,127,687	902,162	27,318,634
Total State	67,483,947	14,516,937	2,840,284	50,126,726
Total County and Municipal	21,349	0	0	21,349
<u>Total Taxes</u>	98,853,779	17,644,624	3,742,445	77,466,709
Schedule 3B Items: Other Included Items				
Total Disposition of Plant		٥	Λ	٥
Total Sales from Resale	221 803 806	221 803 806	0	0
Total Other Revenues	60.058 249	21.021 843	19,457 021	19,579 385
Total Other Included Items	281,862,055	242.825.649	19,457.021	19,579,385
		,0_0,0+0	. 0, 101,021	,010,000
Schedule 4: Average System Costs				
Total Operating Expenses	447,296,627	280,301,065	17,598,645	149,396,917
(Total O&M + Total Depreciation & Amortization + Total Taxes - Total Other Included Items)				
Return from Rate Base	101,439,170	63,330,337	18,996,339	19,112,494
(Total Rate Base * Rate of Return)				
Total Cost	548,735,797	343,631,402	36,594,984	168,509,411
(Total Operating Expenses + Return from Rate Base)				
Total Load (MWh)	Г	8,542 674		
5% Distribution Losses (MWh)		427.134		
Average System Cost (\$/MWh)		42.39		
(Total Production and Transmission Costs) / (Total Load + Distrib	ution Losses)			

Table 7.1 continued		Utility:	AVISTA	
Average System Cost (ASC) Cookbook Summary			Date Filed:	4/18/2007
		-	Year/Quarter:	2006/Q4
				Distribution/
Account Description	Total	Production	Transmission	Other
Schedule 1: Plant Investment / Rate Base / Rate of Return				
Total Intanglibe Plant	19,679,401	8,840,788	3,421,380	7,417,233
Total Production Plant	991,794,149	991,794,149	0	0
Total Transmission Plant	383,823,745	0	383,823,745	0
Total Distribution Plant	832,094,240	0	0	832,094,240
Total General Plant	64,737,335	16,517,699	15,210,483	33,009,153
Total Electric Plant In-Service	2,292,128,870	1,017,152,636	402,455,607	872,520,627
LESS:				
Total Depreciation and Amortization	801,728,444	362,220,710	151,541,818	287,965,916
Total Net Plant	1,490,400,426	654,931,926	250,913,789	584,554,711
(Total Electric Plant In-Service) - (Total Depreciation & Amortizat	ion)			
Assets and Other Debits (Comparative Balance S	Sheet)			
Cash Working Capital	29,680,030	17,456,911	3,282,132	8,940,988
Total Utility Plant	166,858,770	40,781,026	15,782,233	110,295,511
Total Other Property and Investments	56,740,866	25,574,531	0	31,166,335
Total Current and Accrued Assets	33,437,261	22,153,845	3,561,789	7,721,627
Total Deferred Debits	484,199,368	219,974,498	16,615,711	247,609,159
Total Assets and Other Debits	770,916,295	325,940,811	39,241,865	405,733,619
LESS:				
Liabilities and Other Credits (Comparative Balan	ce Sheet)			
Total Other Noncurrent Liablities	15,318,835	15,318,835	0	0
Total Current and Accrued Liabilities	73,478,456	73,478,456	0	0
Total Deferred Credtis	576,833,230	26,498,603	2,965,748	547,368,880
Total Liabilities and Other Credits	665,630,521	115,295,894	2,965,748	547,368,880
Total Bata Basa	4 505 000 000	040 004 500	077 407 400	440 704 044
	1,595,686,200	843,691,533	277,487,430	449,764,914
(Iotal Net Plant + Iotal Assets and Other Debits - Iotal Liabilities and Other Credits)				

Long Term Debt	1,116,000,333
Interest for Year	85,054,979
Rate of Return	7.62%
(Interest/Long Term Debt)	

Table 7.1 continuedAverage System Cost (ASC) Cookbook Summary			Utility: Date Filed: Year/Quarter	AVISTA 4/18/2007 2006/04
				Distribution/
Account Description	Total	Production	Transmission	Other
Schedule 3: Expenses				
Total Production Expense	431,008,791	431,008,791	0	0
Total Transmission Expense	19,547,280	0	19,547,280	0
Total Distribution Expense	22,569,058	0	0	22,569,058
Total Customer and Sales Expenses	25,860,122	0	0	25,860,122
Total Administration and General Expenses	49,517,622	19,709,124	6,709,778	23,098,720
Total Operations and Maintenance	548,502,873	450,717,915	26,257,058	71,527,900
Total Depreciation and Amortization	67,390,752	34,645,027	11,018,514	21,727,211
Schedule 3A Items: Taxes				
Taxes Accrued, Prepaid, and Charged During Ye	ar			
Total Federal	55,538,224	3,163,380	939,446	51,435,398
Total State	76,261,914	13,368,840	2,668,025	60,225,049
Total County and Municipal	11,907	0	0	11,907
<u>Total Taxes</u>	131,812,045	16,532,220	3,607,471	111,672,354
Schedule 3B Items: Other Included Items				
Total Disposition of Plant	0	0	0	0
Total Sales from Resale	175,572,595	175,572,595	0	0
Total Other Revenues	66,996,908	23,573,156	20,750,730	22,673,022
Total Other Included Items	242,569,503	199,145,751	20,750,730	22,673,022
Schedule 4: Average System Costs				
Total Operating Expenses	505,136,167	302,749,412	20,132,312	182,254,443
(Total O&M + Total Depreciation & Amortization + Total Taxes - Total Other Included Items)				
Return from Rate Base	121,613,813	65,665,753	21,770,501	34,177,559
(Total Rate Base * Rate of Return)				
Total Cost	626,749,980	368,415,165	41,902,813	216,432,002
(Total Operating Expenses + Return from Rate Base)				
Total Load (MWh)]	8,787,002		
5% Distribution Losses (MWh)		439,350		
Average System Cost (\$/MWh)		44.47		
(Total Production and Transmission Costs) / (Total Load + Distrib	ution Losses)			

Table 7.2			Utility:	IDAHO POWER	
Average System Cost (ASC) Cookbook Summary			Date Filed:	4/30/2003	
		-	Year/Quarter:	2002/Q4	
				Distribution/	
Account Description	Total	Production	Transmission	Other	
Schedule 1: Plant Investment / Rate Base / Rate of Return					
Total Intanglibe Plant	67,128,967	34,103,199	11,545,521	21,480,248	
Total Production Plant	1,433,626,812	1,433,626,812	0	0	
Total Transmission Plant	485,349,425	0	485,349,425	0	
Total Distribution Plant	902,984,488	0	0	902,984,488	
Total General Plant	198,329,401	73,175,605	44,187,178	80,966,618	
Total Electric Plant In-Service	3,087,419,093	1,540,905,616	541,082,123	1,005,431,354	
LESS:					
Total Depreciation and Amortization	1,294,961,078	707,757,601	203,077,737	384,125,740	
Total Net Plant	1,792,458,015	833,148,015	338,004,386	621,305,614	
(Total Electric Plant In-Service) - (Total Depreciation & Amortizat	ion)				
Assets and Other Debits (Comparative Balance S	Sheet)				
Cash Working Capital	46,996,594	31,992,751	3,473,191	11,530,652	
Total Utility Plant	94,362,283	731,829	401,610	93,228,843	
Total Other Property and Investments	26,881	0	0	26,881	
Total Current and Accrued Assets	61,219,932	34,517,003	9,335,111	17,367,818	
Total Deferred Debits	650,062,474	237,551,964	18,699,819	393,810,690	
Total Assets and Other Debits	852,668,164	304,793,548	31,909,732	515,964,884	
LESS:					
Liabilities and Other Credits (Comparative Balan	ce Sheet)				
Total Other Noncurrent Liablities	0	0	0	0	
Total Current and Accrued Liabilities	91,235	91,235	0	0	
Total Deferred Credtis	800,417,308	28,419,087	7,716,847	764,281,374	
Total Liabilities and Other Credits	800,508,543	28,510,322	7,716,847	764,281,374	
I otal Kate Base	1,844,617,636	1,109,431,240	362,197,272	372,989,124	
(Total Net Plant +Total Assets and Other Debits - Total Liabilities and Other Credits)					

Long Term Debt	953,229,728
Interest for Year	51,127,384
Rate of Return	5.36%
(Interest/Long Term Debt)	

Table 7.2		Utility: IDAHO POWER		
Average System Cost (ASC) Cookbook Summary			Date Filed:	4/30/2003
			Year/Quarter:	2002/Q4
				Distribution/
Account Description	Total	Production	Transmission	Other
Schedule 3: Expenses				
Total Production Expense	475,199,888	475,199,888	0	0
Total Transmission Expense	15,459,670	0	15,459,670	0
Total Distribution Expense	41,943,849	0	0	41,943,849
Total Customer and Sales Expenses	25,011,421	0	0	25,011,421
Total Administration and General Expenses	63,330,753	25,714,948	12,325,860	25,289,945
Total Operations and Maintenance	620,945,581	500,914,836	27,785,530	92,245,215
Total Depreciation and Amortization	93,712,973	44,431,707	14,167,874	35,113,392
<u>Schedule 3A Items: Taxes</u>				
Taxes Accrued, Prepaid, and Charged During Ye	ar			
Total Federal	(16,894,561)	3,724,860	1,702,500	(22,321,922)
Total State	24,166,382	9,233,138	2,517,786	12,415,459
Total County and Municipal				
<u>Total Taxes</u>	7,271,821	12,957,998	4,220,286	(9,906,463)
Schedule 3B Items: Other Included Items	rr		r	
Total Disposition of Plant	12,328	6,153	2,161	4,015
Total Sales from Resale	55,031,087	55,031,087	0	0
Total Other Revenues	39,981,570	508,484	23,288,535	16,184,551
Total Other Included Items	95,024,985	55,545,724	23,290,696	16,188,566
Schedule 4: Average System Costs	r			
Total Operating Expenses	626,905,390	502,758,818	22,882,994	101,263,578
(Total O&M + Total Depreciation & Amortization + Total Taxes - Total Other Included Items)				
Return from Rate Base	98,937,823	59,505,401	19,426,796	20,005,627
(Total Rate Base * Rate of Return)				
Total Cost	725,843,213	562,264,219	42,309,790	121,269,205
(Total Operating Expenses + Return from Rate Base)				
Total Load (MWh)		12,894,068		
5% Distribution Losses (MWh)		644,703		
Average System Cost (\$/MWh)		44.66		
(Total Production and Transmission Costs) / (Total Load + Distribution	ution Losses)			

Table 7.2			Utility:	IDAHO POWER
Average System Cost (ASC) Cookbook Summary			Date Filed:	4/30/2004
		-	Year/Quarter:	2003/Q4
				Distribution/
Account Description	Total	Production	Transmission	Other
Schedule 1: Plant Investment / Rate Base / Rate of Return				
Total Intanglibe Plant	71,794,683	35,617,292	12,880,486	23,296,905
Total Production Plant	1,456,953,896	1,456,953,896	0	0
Total Transmission Plant	526,886,598	0	526,886,598	0
Total Distribution Plant	952,978,561	0	0	952,978,561
Total General Plant	212,069,129	77,874,151	48,267,847	85,927,131
Total Electric Plant In-Service	3,220,682,867	1,570,445,340	588,034,930	1,062,202,597
LESS:				
Total Depreciation and Amortization	1,239,604,536	616,549,083	210,519,937	412,535,516
<u>Total Net Plant</u>	1,981,078,331	953,896,257	377,514,993	649,667,081
(Total Electric Plant In-Service) - (Total Depreciation & Amortizat	ion)			
Assets and Other Debits (Comparative Balance S	Sheet)			
Cash Working Capital	36,198,855	20,140,483	4,061,606	11,996,766
Total Utility Plant	98,069,626	755,002	437,381	96,877,243
Total Other Property and Investments	14,225	0	0	14,225
Total Current and Accrued Assets	52,818,063	29,341,401	8,358,558	15,118,104
Total Deferred Debits	616,257,810	174,381,203	20,675,260	421,201,347
Total Assets and Other Debits	803,358,579	224,618,089	33,532,804	545,207,686
LESS:				
Liabilities and Other Credits (Comparative Balan	ce Sheet)			
Total Other Noncurrent Liablities	0	0	0	0
Total Current and Accrued Liabilities	0	0	0	0
Total Deferred Credtis	1,867,932,822	101,228,014	34,306,972	1,732,397,837
Total Liabilities and Other Credits	1,867,932,822	101,228,014	34,306,972	1,732,397,837
Total Rate Base	916,504,088	1,077,286,332	376,740,826	(537,523,071)
(Total Net Plant +Total Assets and Other Debits - Total Liabilities	and Other Credits	;)		

Long Term Debt	933,150,015
Interest for Year	54,645,483
Rate of Return	5.86%
(Interest/Long Term Debt)	

Table 7.2			Utility:	IDAHO POWER
Average System Cost (ASC) Cookbook Summary			Date Filed:	4/30/2004
		-	Year/Quarter:	2003/Q4
				Distribution/
Account Description	Total	Production	Transmission	Other
<u>Schedule 3: Expenses</u>				
Total Production Expense	385,970,436	385,970,436	0	0
Total Transmission Expense	19,512,743	0	19,512,743	0
Total Distribution Expense	44,043,908	0	0	44,043,908
Total Customer and Sales Expenses	25,939,434	0	0	25,939,434
Total Administration and General Expenses	65,001,923	26,031,032	12,980,105	25,990,786
Total Operations and Maintenance	540,468,444	412,001,468	32,492,848	95,974,128
Total Depresiation and Amortization	07 700 000		45 004 045	27 002 042
Total Depreciation and Amortization	97,760,033	45,575,475	15,091,615	37,092,942
Schedule 3A Items: Taxes				
Taxes Accrued Prenaid and Charged During Ye	ar			
Total Federal	99 392 740	3 633 002	1 692 396	94 067 342
Total State	26 616 074	9 234 093	2 721 506	14 660 475
Total County and Municipal	20,010,014	0,204,000	2,721,000	14,000,470
	126 008 814	12 867 095	4 413 902	108 727 817
	120,000,014	12,007,000	+,+10,00Z	100,727,017
Schedule 3B Items: Other Included Items				
Total Disposition of Plant	20,012	9,758	3,654	6,600
Total Sales from Resale	71,572,857	71,572,857	0	0
Total Other Revenues	39,354,512	147,715	24,427,485	14,779,312
Total Other Included Items	110,947,381	71,730,330	24,431,138	14,785,912
Schedule 4: Average System Costs				
Total Operating Expenses	653,289,910	398,713,708	27,567,227	227,008,976
(Total O&M + Total Depreciation & Amortization + Total Taxes - Total Other Included Items)				
Return from Rate Base	53,670,694	63,086,139	22,062,031	(31,477,477)
(Total Rate Base * Rate of Return)				
Total Cost	706,960,604	461,799,847	49,629,257	195,531,499
(Total Operating Expenses + Return from Rate Base)				•
	-		l	
Total Load (MWh)		12,980,031		
5% Distribution Losses (MWh)		649,002		
Average System Cost (\$/MWh)		37.52		

Table 7.2			Utility:	IDAHO POWER	
Average System Cost (ASC) Cookbook Summary			Date Filed:	4/18/2006	
			Year/Quarter:	2004/Q4	
				Distribution/	
Account Description	Total	Production	Transmission	Other	
Schedule 1: Plant Investment / Rate Base / Rate of Return					
Total Intanglibe Plant	76,754,564	37,491,726	14,169,638	25,093,200	
Total Production Plant	1,482,517,098	1,482,517,098	0	0	
Total Transmission Plant	560,303,124	0	560,303,124	0	
Total Distribution Plant	992,248,198	0	0	992,248,198	
Total General Plant	213,447,249	72,401,297	46,755,724	94,290,228	
Total Electric Plant In-Service	3,325,270,233	1,592,410,121	621,228,486	1,111,631,626	
LESS: Total Depresention and Amortization	4 240 424 554	057 454 000	222.000.040	405 000 007	
Total Depreciation and Amortization	1,316,124,554	657,454,906	223,066,040	435,603,607	
Total Net Plant	2,009,145,679	934,955,215	398,162,446	676,028,018	
(Total Electric Plant In-Service) - (Total Depreciation & Amortizat	ion)				
Assets and Other Debits (Comparative Balance S	Sheet)				
Cash Working Capital	35,353,677	16,872,929	4,514,997	13,965,750	
Total Utility Plant	153,832,980	832,996	486,578	152,513,406	
Total Other Property and Investments	32,458,340	0	0	32,458,340	
Total Current and Accrued Assets	61,051,812	33,166,075	10,063,735	17,822,002	
Total Deferred Debits	617,804,386	136,834,000	19,971,781	460,998,605	
Total Assets and Other Debits	900,501,195	900,501,195	900,501,195	900,501,195	
LESS:					
Liabilities and Other Credits (Comparative Balan	ce Sheet)				
Total Other Noncurrent Liablities	0	0	0	0	
Total Current and Accrued Liabilities	445	445	0	0	
Total Deferred Credtis	961,026,762	113,036,668	35,214,359	812,775,735	
Total Liabilities and Other Credits	961,027,207	113,037,113	35,214,359	812,775,735	
Total Rate Base	1,948,619,667	1,009,624,103	397,985,178	541,010,386	
(Total Net Plant +Total Assets and Other Debits - Total Liabilities	and Other Credits	;)			

Long Term Debt	987,045,000
Interest for Year	50,317,585
Rate of Return	5.10%
(Interest/Long Term Debt)	

Table 7.2			Utility:	IDAHO POWER
Average System Cost (ASC) Cookbook Summary			Date Filed:	4/18/2006
		-	Year/Quarter:	2004/Q4
				Distribution/
Account Description	Total	Production	Transmission	Other
Schedule 3: Expenses				
Total Production Expense	407,579,274	407,579,274	0	0
Total Transmission Expense	23,835,089	0	23,835,089	0
Total Distribution Expense	39,349,285	0	0	39,349,285
Total Customer and Sales Expenses	25,843,019	0	0	25,843,019
Total Administration and General Expenses	85,126,373	26,307,787	12,284,890	46,533,695
Total Operations and Maintenance	581,733,040	433,887,061	36,119,979	111,725,999
Total Depreciation and Amortization	101,037,621	47,308,408	17,521,822	36,207,392
Schedule 3A Items: Taxes				
Taxes Accrued, Prepaid, and Charged During Ye	ear			
Total Federal	41,150,426	2,818,967	1,267,183	37,064,275
Total State	22,970,647	8,824,407	2,700,405	11,445,836
Total County and Municipal				
<u>Total Taxes</u>	64,121,073	11,643,374	3,967,588	48,510,111
Schedule 3B Items: Other Included Items				
Total Disposition of Plant	(2.071)	(992)	(387)	(692)
Total Sales from Resale	121.147.646	121.147.646	0	0
Total Other Revenues	42.724.578	2.018.555	23.523.292	17.182.731
Total Other Included Items	163.870.153	123,165,209	23.522.905	17.182.039
		-, -,	- , - ,	, , , ,
Schedule 4: Average System Costs				
Total Operating Expenses	583,021,581	369,673,634	34,086,484	179,261,463
(Total O&M + Total Depreciation & Amortization + Total Taxes - Total Other Included Items)				
Return from Rate Base	99,336,743	51,468,623	20,288,490	27,579,630
(Total Rate Base * Rate of Return)	<u> </u>			
Total Cost	682,358,324	421,142,257	54,374,975	206,841,093
(Total Operating Expenses + Return from Rate Base)				
	-			
Total Load (MWh)		13,239,589		
5% Distribution Losses (MWh)		661,979		
Average System Cost (\$/MWh)		34.21		
(Table Draduction and Transmission Octob) ((Table Leads) Distrib				

Table 7.2			Utility:	IDAHO POWER
Average System Cost (ASC) Cookbook Summary			Date Filed:	4/18/2006
		-	Year/Quarter:	2005/Q4
				Distribution/
Account Description	Total	Production	Transmission	Other
Schedule 1: Plant Investment / Rate Base / Rate of Return				
Total Intanglibe Plant	69,742,756	34,169,047	12,687,771	22,885,939
Total Production Plant	1,563,008,126	1,563,008,126	0	0
Total Transmission Plant	580,381,676	0	580,381,676	0
Total Distribution Plant	1,046,880,491	0	0	1,046,880,491
Total General Plant	217,508,189	78,295,357	49,809,896	89,402,937
Total Electric Plant In-Service	3,477,521,238	1,675,472,529	642,879,342	1,159,169,367
LESS:				
Total Depreciation and Amortization	1,364,640,116	690,005,169	226,645,040	447,989,907
Total Net Plant	2,112,881,122	985,467,361	416,234,302	711,179,459
(Total Electric Plant In-Service) - (Total Depreciation & Amortizat	ion)			
Assets and Other Debits (Comparative Balance S	Sheet)			
Cash Working Capital	29,917,143	13,386,874	4,659,211	11,871,058
Total Utility Plant	152,266,070	969,388	528,704	150,767,978
Total Other Property and Investments	1,025,159	0	0	1,025,159
Total Current and Accrued Assets	59,722,279	35,247,240	8,729,303	15,745,736
Total Deferred Debits	629,637,669	123,945,998	22,167,559	483,524,112
Total Assets and Other Debits	872,568,320	173,549,500	36,084,777	662,934,044
LESS:				
Liabilities and Other Credits (Comparative Balan	ce Sheet)			
Total Other Noncurrent Liablities	0	0	0	0
Total Current and Accrued Liabilities	0	0	0	0
Total Deferred Credtis	1,042,495,122	180,434,287	45,427,024	816,633,811
Total Liabilities and Other Credits	1,042,495,122	180,434,287	45,427,024	816,633,811
Total Rate Base	1.942.954.320	978.582.574	406.892.055	557,479,691
(Total Net Plant +Total Assets and Other Debits - Total Liabilities	and Other Credits	;)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,

Long Term Debt	987,045,000
Interest for Year	53,339,531
Rate of Return	5.40%
(Interest/Long Term Debt)	

Table 7.2			Utility: IDAHO POWER	
Average System Cost (ASC) Cookbook Summary			Date Filed:	4/18/2006
		-	Year/Quarter:	2005/Q4
				Distribution/
Account Description	Total	Production	Transmission	Other
Schedule 3: Expenses				
Total Production Expense	397,057,412	397,057,412	0	0
Total Transmission Expense	21,989,736	0	21,989,736	0
Total Distribution Expense	38,324,600	0	0	38,324,600
Total Customer and Sales Expenses	25,714,779	0	0	25,714,779
Total Administration and General Expenses	81,724,444	35,511,407	15,283,951	30,929,086
Total Operations and Maintenance	564,810,971	432,568,819	37,273,687	94,968,465
Total Depreciation and Amortization	101,507,467	48,014,326	17,647,331	35,845,811
Schedule 3A Items: Taxes				
Taxes Accrued, Prepaid, and Charged During Ye	ear			
Total Federal	50,071,224	4,349,191	1,841,872	43,880,160
Total State	23,629,680	9,168,398	2,720,003	11,741,279
Total County and Municipal				
<u>Total Taxes</u>	73,700,904	13,517,590	4,561,875	55,621,439
Schedule 3B Items: Other Included Items				
Total Disposition of Plant	591	285	109	197
Total Sales from Resale	142 794 426	142 794 426	0	0
Total Other Revenues	38 611 625	199 361	21 275 041	17 137 223
Total Other Included Items	181 406 642	142 994 072	21 275 150	17,137,420
<u> </u>	,	,	, 0,	,,
Schedule 4: Average System Costs				
Total Operating Expenses	558,612,700	351,106,662	38,207,743	169,298,295
(Total O&M + Total Depreciation & Amortization + Total Taxes - Total Other Included Items)				
Return from Rate Base	104 996 502	52 882 225	21 988 290	30 125 987
(Total Rate Base * Rate of Return)	101,000,001	01,001,110	,000,200	00,120,001
Total Cost	663,609,202	403.988.887	60,196,033	199,424,282
(Total Operating Expenses + Return from Rate Base)		,,,,		
Total Load (MWh)]	13,288,812		
5% Distribution Losses (MWh)		664,441		
Average System Cost (\$/MWh)		33.27		
(Tatal Braduction and Transmission Coate) ((Tatal Load & Distrib	ution (cocco)			

Table 7.2			Utility:	IDAHO POWER			
Average System Cost (ASC) Cookbook Summary			Date Filed:	4/18/2007			
			Year/Quarter:	2006/Q4			
				Distribution/			
Account Description	Total	Production	Transmission	Other			
Schedule 1: Plant Investment / Rate Base / Rate of Return							
Total Intanglibe Plant	72,094,030	34,827,487	13,271,332	23,995,211			
Total Production Plant	1,592,790,118	1,592,790,118	0	0			
Total Transmission Plant	606,947,191	0	606,947,191	0			
Total Distribution Plant	1,097,389,958	0	0	1,097,389,958			
Total General Plant	214,927,062	74,534,385	50,471,800	89,920,876			
Total Electric Plant In-Service	3,584,148,359	1,702,151,991	670,690,323	1,211,306,046			
LESS:							
Total Depreciation and Amortization	1,406,209,952	710,134,157	236,761,039	459,314,756			
<u>Total Net Plant</u>	2,177,938,407	992,017,834	433,929,284	751,991,290			
(Total Electric Plant In-Service) - (Total Depreciation & Amortizat	tion)						
Assets and Other Debits (Comparative Balance	Sheet)						
Cash Working Capital	29.153.644	11.278.671	5.218.293	12.656.680			
Total Utility Plant	212.449.340	902.907	517.233	211.029.201			
Total Other Property and Investments	3.696	0	0	3.696			
Total Current and Accrued Assets	63 204 062	38 376 477	8 841 580	15 986 005			
Total Deferred Debits	645 699 285	109 499 915	31 905 429	504 293 941			
Total Assets and Other Debits	950.510.027	160.057.970	46.482.534	743.969.523			
			- 1 - 1				
LESS:							
Liabilities and Other Credits (Comparative Balan	ice Sheet)						
Total Other Noncurrent Liablities	0	0	0	0			
Total Current and Accrued Liabilities	1,462,637	1,462,637	0	0			
Total Deferred Credtis	953,195,185	106,425,268	32,400,117	814,369,800			
Total Liabilities and Other Credits	954,657,822	107,887,905	32,400,117	814,369,800			
Total Rate Base	2,173,790,612	1,044,187,898	448,011,701	681,591,013			
(Total Net Plant +Total Assets and Other Debits - Total Liabilities and Other Credits)							
Schedule 2: Weighted Average Cost of Long Ter	rm Debt			Schedule 2: Weighted Average Cost of Long Term Debt			

Long Term Debt	987,045,000
Interest for Year	53,744,453
Rate of Return	5.44%
(Interest/Long Term Debt)	

Table 7.2			Utility:	IDAHO POWER
Average System Cost (ASC) Cookbook Summary			Date Filed:	4/18/2007
		-	Year/Quarter:	2006/Q4
				Distribution/
Account Description	Total	Production	Transmission	Other
Schedule 3: Expenses				
Total Production Expense	450,334,589	450,263,162	0	71,427
Total Transmission Expense	23,669,858	0	23,669,858	0
Total Distribution Expense	41,984,481	0	0	41,984,481
Total Customer and Sales Expenses	28,971,362	0	0	28,971,362
Total Administration and General Expenses	86,726,893	38,424,236	18,076,487	30,226,170
Total Operations and Maintenance	631,687,183	488,687,398	41,746,345	101,253,440
Total Depreciation and Amortization	99,893,071	47,413,976	17,164,994	35,314,101
<u>Schedule 3A Items: Taxes</u>				
Taxes Accrued, Prepaid, and Charged During Ye	ar			
Total Federal	84,018,621	4,528,019	2,069,554	77,421,048
Total State	29,462,670	8,604,662	2,627,440	18,230,568
Total County and Municipal				
Total Taxes	113,481,291	13,132,680	4,696,994	95,651,617
Schedule 3B Items: Other Included Items				
Total Disposition of Plant	(46,144)	(21,914)	(8,635)	(15,595)
Total Sales from Resale	260,717,491	260,717,491	0	0
Total Other Revenues	34,737,531	141,344	18,216,051	16,380,135
Total Other Included Items	295,408,878	260,836,921	18,207,416	16,364,540
Schedule 4: Average System Costs				
Total Operating Expenses	549,652,667	288,397,133	45,400,916	215,854,617
Total O&M + Total Depreciation & Amortization + Total Taxes - Total Other Included Items)				
Return from Rate Base	118,362,575	56,855,875	24,394,170	37,112,529
(Total Rate Base * Rate of Return)				
Total Cost	668,015,242	345,253,009	69,795,087	252,967,146
(Total Operating Expenses + Return from Rate Base)				
-	r			
I otal Load (MWh)		13,939,314		
5% Distribution Losses (MWh)		696,966		
Average System Cost (\$/MWh)	l	28.36		

Table 7.6			Utility:	Puget (PSE)	
Average System Cost (ASC) Cookbook Summary			Date Filed:	4/30/2003	
		-	Year/Quarter:	2002/Q4	
				Distribution/	
Account Description	Total	Production	Transmission	Other	
Schedule 1: Plant Investment / Rate Base / Rate of Return					
Total Intanglibe Plant	20,548,638	5,885,668	1,452,323	13,210,647	
Total Production Plant	1,113,740,453	1,113,740,453	0	0	
Total Transmission Plant	274,822,052	0	274,822,052	0	
Total Distribution Plant	2,499,840,829	0	0	2,499,840,829	
Total General Plant	154,610,099	37,879,739	9,940,248	106,790,112	
Total Electric Plant In-Service	4,063,562,071	1,157,505,860	286,214,623	2,619,841,588	
1 566					
Total Depreciation and Amortization	1 840 732 065	650 000 710	112 800 046	1 077 022 300	
	1,040,732,003	030,909,719	112,000,040	1,077,022,300	
Total Net Plant	2,222,830,006	506,596,140	173,414,577	1,542,819,288	
(Total Electric Plant In-Service) - (Total Depreciation & Amortizat	ion)				
Assets and Other Debits (Comparative Balance S	Sheet)				
Cash Working Capital	53,563,866	28,048,872	5,523,039	19,991,955	
Total Utility Plant	647,245,440	217,778,197	34,522,898	394,944,346	
Total Other Property and Investments	41,526,680	0	0	41,526,680	
Total Current and Accrued Assets	61,064,660	35,751,634	2,507,179	22,805,846	
Total Deferred Debits	763,270,926	268,991,883	9,151,842	485,127,201	
Total Assets and Other Debits	1,566,671,572	550,570,585	51,704,958	964,396,028	
LESS:					
Liabilities and Other Credits (Comparative Balan	ce Sheet)				
Total Other Noncurrent Liablities	0	0	0	0	
Total Current and Accrued Liabilities	2,410,030	2,410,030	0	0	
Total Deferred Credtis	1,043,066,464	59,825,139	5,661,048	977,580,278	
Total Liabilities and Other Credits	1,045,476,494	62,235,169	5,661,048	977,580,278	
Total Rate Base	2,744,025,084	994,931,557	219,458,488	1,529,635,039	
(Total Net Plant +Total Assets and Other Debits - Total Liabilities	and Other Credits	;)			

Long Term Debt	2,093,860,000
Interest for Year	182,204,172
Rate of Return	8.70%
(Interest/Long Term Debt)	

Table 7.6			Utility:	Puget (PSE)	
Average System Cost (ASC) Cookbook Summary			Date Filed:	4/30/2003	
			Year/Quarter:	2002/Q4	
		•		Distribution/	
Account Description	Total	Production	Transmission	Other	
Schedule 3: Expenses					
Total Production Expense	836,177,740	836,177,740	0	0	
Total Transmission Expense	41,545,182	0	41,545,182	0	
Total Distribution Expense	59,968,030	0	0	59,968,030	
Total Customer and Sales Expenses	60,008,880	0	0	60,008,880	
Total Administration and General Expenses	54,657,778	12,059,916	2,639,129	39,958,733	
Total Operations and Maintenance	1,052,357,610	848,237,656	44,184,311	159,935,643	
Total Depreciation and Amortization	141,257,098	42,663,445	9,119,231	89,474,422	
<u>Schedule 3A Items: Taxes</u>					
Taxes Accrued, Prepaid, and Charged During Ye	ar				
Total Federal	(82,580,914)	2,673,184	543,922	(85,798,020)	
Total State	193,737,869	18,409,649	2,316,720	173,011,500	
Total County and Municipal	0	0	0	0	
Total Taxes	111,156,955	21,082,833	2,860,642	87,213,480	
Schedule 3B Items: Other Included Items	· · · · · · · · · · · · · · · · · · ·	1			
Total Disposition of Plant	206,177	58,730	14,522	132,926	
Total Sales from Resale	88,682,767	88,682,767	0	0	
Total Other Revenues	16,373,824	(8,319,276)	22,043,806	2,649,294	
Total Other Included Items	105,262,768	80,422,221	22,058,328	2,782,219	
Schedule 4: Average System Costs					
Total Operating Expenses	1,199,508,895	831,561,713	34,105,857	333,841,326	
(Total O&M + Total Depreciation & Amortization + Total Taxes - Total Other Included Items)					
Return from Rate Base	238,780,443	86,577,269	19,096,908	133,106,266	
(Total Rate Base * Rate of Return)					
Total Cost	1,438,289,338	918,138,982	53,202,765	466,947,591	
(Total Operating Expenses + Return from Rate Base)					
· · · · · · · · · · · · · · · · · · ·					
Total Load (MWh)		19,253,824			
5% Distribution Losses (MWh)		962,691			
Average System Cost (\$/MWh)		48.05			
(Total Production and Transmission Costs) / (Total Load + Distrib	ution Losses)				

Table 7.6			Utility:	Puget (PSE)		
Average System Cost (ASC) Cookbook Summary			Date Filed:	4/30/2004		
		-	Year/Quarter:	2003/Q4		
				Distribution/		
Account Description	Total	Production	Transmission	Other		
Schedule 1: Plant Investment / Rate Base / Rate of Return						
Total Intanglibe Plant	19,184,270	5,506,954	1,336,483	12,340,833		
Total Production Plant	1,131,938,765	1,131,938,765	0	0		
Total Transmission Plant	274,710,175	0	274,710,175	0		
Total Distribution Plant	2,536,623,123	0	0	2,536,623,123		
Total General Plant	137,448,837	35,622,513	8,642,675	93,183,650		
Total Electric Plant In-Service	4,099,905,170	1,173,068,232	284,689,332	2,642,147,606		
1 599.						
LESS: Total Depreciation and Amortization	1 015 402 206	604 752 456	110 040 070	1 102 600 078		
Total Depreciation and Amortization	1,915,493,306	094,753,450	110,040,072	1,102,090,978		
Total Net Plant	2,184,411,864	478,314,776	166,640,460	1,539,456,628		
(Total Electric Plant In-Service) - (Total Depreciation & Amortizat	ion)					
Assets and Other Debits (Comparative Balance S	Sheet)					
Cash Working Capital	57,358,978	29,937,126	5,809,698	21,612,154		
Total Utility Plant	682,178,288	228,219,892	36,488,136	417,470,260		
Total Other Property and Investments	44,942,191	0	0	44,942,191		
Total Current and Accrued Assets	62,551,079	38,172,343	2,382,175	21,996,561		
Total Deferred Debits	838,126,507	334,444,116	11,189,225	492,493,166		
Total Assets and Other Debits	1,685,157,043	630,773,477	55,869,234	998,514,332		
LESS:						
Liabilities and Other Credits (Comparative Balan	ce Sheet)					
Total Other Noncurrent Liablities	0	0	0	0		
Total Current and Accrued Liabilities	3,635,722	3,635,722	0	0		
Total Deferred Credtis	1,018,122,910	36,649,840	5,685,253	975,787,817		
Total Liabilities and Other Credits	1,021,758,632	40,285,562	5,685,253	975,787,817		
Total Rate Base	2,847,810,275	1,068,802,691	216,824,441	1,562,183,143		
(Total Net Plant +Total Assets and Other Debits - Total Liabilities	(Total Net Plant +Total Assets and Other Debits - Total Liabilities and Other Credits)					

Long Term Debt	2,335,157,709
Interest for Year	170,690,378
Rate of Return	7.31%
(Interest/Long Term Debt)	

Table 7.6			Utility:	Puget (PSE)
Average System Cost (ASC) Cookbook Summary			Date Filed:	4/30/2004
			Year/Quarter:	2003/Q4
				Distribution/
Account Description	Total	Production	Transmission	Other
Schedule 3: Expenses				
Total Production Expense	896,684,728	896,684,728	0	0
Total Transmission Expense	43,495,781	0	43,495,781	0
Total Distribution Expense	57,740,065	0	0	57,740,065
Total Customer and Sales Expenses	71,401,564	0	0	71,401,564
Total Administration and General Expenses	61,067,257	14,329,848	2,981,805	43,755,604
Total Operations and Maintenance	1,130,389,395	911,014,576	46,477,586	172,897,233
Total Depreciation and Amortization	144,031,071	45,199,107	8,819,904	90,012,060
Schedule 3A Items: Taxes				
Taxes Accrued, Prepaid, and Charged During Ye	ear			
Total Federal	25,653,888	2,899,665	545,796	22,208,428
Total State	191,500,792	24,267,242	2,339,709	164,893,841
Total County and Municipal	0	0	0	0
Total Taxes	217,154,680	27,166,907	2,885,504	187,102,269
Schodulo 3P Itoms: Other Included Itoms				
Schedule 3D Items, Other Included Items	(4 724 208)	(1 254 591)	(228,740)	(2.050.076)
Total Disposition of Flant	(4,734,296)	(1,354,361)	(328,740)	(3,050,970)
	25 046 295	2 052 462	0 009 194	24 704 729
Total Other Included Itoms	35,940,365	2,053,463	9,096,164	24,794,730
	223,000,797	192,575,592	0,709,444	21,743,701
Schedule 4: Average System Costs				
Total Operating Expenses	1,268,486,349	790,804,998	49,413,550	428,267,801
(Total O&M + Total Depreciation & Amortization +				
Total Taxes - Total Other Included Items)				
Return from Rate Base	208,163,162	78,125,060	15,848,971	114,189,132
(Total Rate Base * Rate of Return)				<u> </u>
Total Cost	1,476,649,511	868,930,058	65,262,520	542,456,933
(Total Operating Expenses + Return from Rate Base)				
· · - · /				
Total Load (MWh)]	19,591,637		
5% Distribution Losses (MWh)		979,582		
Average System Cost (\$/MWh)		45.41		
(Total Production and Transmission Costs) / (Total Load + Distrib	ution Losses)			

Table 7.6			Utility:	Puget (PSE)
Average System Cost (ASC) Cookbook Summary			Date Filed:	4/25/2005
			Year/Quarter:	2004/Q4
				Distribution/
Account Description	Total	Production	Transmission	Other
Schedule 1: Plant Investment / Rate Base / Rate of Return				
Total Intanglibe Plant	28,335,684	7,994,030	2,016,408	18,325,246
Total Production Plant	1,143,775,811	1,143,775,811	0	0
Total Transmission Plant	288,505,193	0	288,505,193	0
Total Distribution Plant	2,621,953,457	0	0	2,621,953,457
Total General Plant	135,019,392	34,233,870	8,508,741	92,276,781
Total Electric Plant In-Service	4,217,589,537	1,186,003,710	299,030,342	2,732,555,485
1 566.				
Total Depreciation and Amortization	2 006 378 000	715 882 011	127 761 1/7	1 162 734 851
	2,000,370,009	110,002,011	121,101,147	1,102,734,031
Total Net Plant	2,211,211.528	470,121.699	171,269.196	1,569,820.633
(Total Electric Plant In-Service) - (Total Depreciation & Amortiza	tion)	,	,200,.00	,,,,,,,
· · · · · · · · · · · · · · · · · · ·	,			
Assets and Other Debits (Comparative Balance	Sheet)			
Cash Working Capital	57,357,955	31,122,459	5,921,318	20,314,178
Total Utility Plant	728,052,157	236,666,385	40,054,402	451,331,370
Total Other Property and Investments	62,016,981	13,765,107	0	48,251,874
Total Current and Accrued Assets	55,511,431	29,114,342	2,616,666	23,780,423
Total Deferred Debits	848,132,126	392,538,494	11,133,586	444,460,047
Total Assets and Other Debits	1,751,070,650	703,206,787	59,725,971	988,137,892
LESS:				
Liabilities and Other Credits (Comparative Balar	ice Sheet)			
Total Other Noncurrent Liablities	249,455	249,455	0	0
Total Current and Accrued Liabilities	19,260,915	19,260,915	0	0
Total Deferred Credtis	1,062,210,581	38,563,659	5,275,158	1,018,371,764
Total Liabilities and Other Credits	1,081,720,951	58,074,029	5,275,158	1,018,371,764
Total Rate Base	2,880,561,227	1,115,254,457	225,720,009	1,539,586,761
(Total Net Plant +Total Assets and Other Debits - Total Liabilities	and Other Credits	5)		
Schedule 2: Weighted Average Cost of Long Term Debt				

Long Term Debt	2,377,499,400
Interest for Year	161,737,171
Rate of Return	6.80%

(Interest/Long Term Debt)

Table 7.6			Utility:	Puget (PSE)
Average System Cost (ASC) Cookbook Summary			Date Filed:	4/25/2005
			Year/Quarter:	2004/Q4
				Distribution/
Account Description	Total	Production	Transmission	Other
Schedule 3: Expenses				
Total Production Expense	867,778,875	867,778,875	0	0
Total Transmission Expense	44,632,927	0	44,632,927	0
Total Distribution Expense	61,075,209	0	0	61,075,209
Total Customer and Sales Expenses	57,029,385	0	0	57,029,385
Total Administration and General Expenses	60,537,482	13,391,035	2,737,614	44,408,833
Total Operations and Maintenance	1,091,053,878	881,169,910	47,370,541	162,513,427
Iotal Depreciation and Amortization	147,343,645	45,667,518	9,102,078	92,574,049
Schodula 24 Komer Texas				
Schedule 3A items: Taxes	~			
Taxes Accrued, Prepaid, and Charged During Te	ar 0 700 745	0 770 000	504 500	0 504 004
Total Federal	9,796,715	2,770,899	504,592	6,521,224
Total State	202,120,572	19,547,932	2,459,701	180,112,939
	044.047.007	00.010.001	0	100 004 400
Total Taxes	211,917,287	22,318,831	2,964,293	180,034,103
Schedule 3B Items: Other Included Items				
Total Disposition of Plant	(4,734,298)	(1.331.304)	(335,665)	(3.067.328)
Total Sales from Resale	115.356.097	115.356.097	0	0
Total Other Revenues	47,584,376	3,619,535	12,057,799	31,907,042
Total Other Included Items	158,206,175	117,644,328	11,722,133	28,839,714
Schedule 4: Average System Costs				
Total Operating Expenses	1,292,108,635	831,511,931	47,714,779	412,881,925
(Total O&M + Total Depreciation & Amortization + Total Taxes - Total Other Included Items)				
Return from Rate Base	195,959,597	75,868,831	15,355,342	104,735,424
(Total Rate Base * Rate of Return)				
Total Cost	1,488,068,232	907,380,762	63,070,120	517,617,349
(Total Operating Expenses + Return from Rate Base)				
· · · · · · · · · · · · · · · · · · ·				
Total Load (MWh)]	19,876,790		
5% Distribution Losses (MWh)		993,840		
Average System Cost (\$/MWh)		46.50		
(Total Production and Transmission Costs) / (Total Load + Distrib	ution Losses)			

Table 7.6		Utility:	Puget (PSE)	
Average System Cost (ASC) Cookbook Summary			Date Filed:	4/18/2006
		-	Year/Quarter:	2005/Q4
				Distribution/
Account Description	Total	Production	Transmission	Other
Schedule 1: Plant Investment / Rate Base / Rate of Return				
Total Intanglibe Plant	30,282,492	9,132,015	2,040,437	19,110,040
Total Production Plant	1,319,444,433	1,319,444,433	0	0
Total Transmission Plant	294,813,676	0	294,813,676	0
Total Distribution Plant	2,761,125,181	0	0	2,761,125,181
Total General Plant	136,430,064	38,040,948	8,308,853	90,080,263
Total Electric Plant In-Service	4,542,095,846	1,366,617,396	305,162,965	2,870,315,484
LESS:				
Total Depreciation and Amortization	2,105,742,831	762,788,528	133,207,295	1,209,747,009
Total Net Plant	2,436,353,015	603,828,869	171,955,671	1,660,568,475
(Total Electric Plant In-Service) - (Total Depreciation & Amortizat	ion)			
Assets and Other Debits (Comparative Balance S	Sheet)			
Cash Working Capital	58,101,129	29,752,748	6,869,835	21,478,545
Total Utility Plant	867,504,480	263,750,542	41,532,476	562,221,462
Total Other Property and Investments	80,807,501	28,464,159	0	52,343,342
Total Current and Accrued Assets	129,090,210	97,000,997	3,095,723	28,993,490
Total Deferred Debits	936,128,076	422,953,494	21,366,252	491,808,330
Total Assets and Other Debits	2,071,631,396	841,921,941	72,864,285	1,156,845,170
LESS:				
Liabilities and Other Credits (Comparative Balan	ce Sheet)			
Total Other Noncurrent Liablities	0	0	0	0
Total Current and Accrued Liabilities	9,771,867	9,771,867	0	0
Total Deferred Credtis	1,181,457,175	59,353,069	6,631,045	1,115,473,061
Total Liabilities and Other Credits	1,191,229,042	69,124,936	6,631,045	1,115,473,061
Total Rate Base	3,316,755,369	1,376,625,874	238,188,911	1,701,940,584
(Total Net Plant +Total Assets and Other Debits - Total Liabilities	and Other Credits	;)		

Long Term Debt	2,503,999,400
Interest for Year	162,147,926
Rate of Return	6.48%
(Interest/Long Term Debt)	

Table 7.6			Utility:	Puget (PSE)				
Average System Cost (ASC) Cookbook Summary			Date Filed:	4/18/2006				
			Year/Quarter:	2005/Q4				
		•		Distribution/				
Account Description	Total	Production	Transmission	Other				
Schedule 3: Expenses								
Total Production Expense	1,012,054,130	1,012,054,130	0	0				
Total Transmission Expense	52,111,661	0	52,111,661	0				
Total Distribution Expense	61,087,500	0	0	61,087,500				
Total Customer and Sales Expenses	62,543,873	0	0	62,543,873				
Total Administration and General Expenses	67,441,589	16,397,580	2,847,019	48,196,990				
Total Operations and Maintenance	1,255,238,753	1,028,451,710	54,958,680	171,828,363				
Total Depreciation and Amortization	152,347,107	48,334,893	9,218,561	94,793,653				
<u>Schedule 3A Items: Taxes</u>								
Taxes Accrued, Prepaid, and Charged During Ye	ar							
Total Federal	138,720,821	3,447,190	536,908	134,736,723				
Total State	220,509,586	20,747,744	2,449,256	197,312,586				
Total County and Municipal	0	0	0	0				
<u>Total Taxes</u>	359,230,407	24,194,934	2,986,164	332,049,309				
<u>Schedule 3B Items: Other Included Items</u>								
Total Disposition of Plant	(992,876)	(298,735)	(66,707)	(627,434)				
Total Sales from Resale	177,304,684	177,304,684	0	0				
Total Other Revenues	64,487,306	11,333,810	5,394,178	47,759,318				
Total Other Included Items	240,799,114	188,339,759	5,327,471	47,131,884				
Schedule 4: Average System Costs								
Total Operating Expenses	1,526,017,153	912,641,778	61,835,934	551,539,441				
(Total O&M + Total Depreciation & Amortization + Total Taxes - Total Other Included Items)								
Return from Rate Base	214,778,408	89,144,203	15,424,060	110,210,145				
(Total Rate Base * Rate of Return)								
Total Cost	1,740,795,561	1,001,785,981	77,259,995	661,749,585				
(Total Operating Expenses + Return from Rate Base)								
Total Load (MWh)		20,465,557						
5% Distribution Losses (MWh)		1,023,278						
Average System Cost (\$/MWh)		50.21						
(Total Production and Transmission Costs) / (Total Load + Distrib	ution Losses)			(Total Production and Transmission Costs) / (Total Load + Distribution Losses)				

Table 7.6			Utility:	Puget (PSE)	
Average System Cost (ASC) Cookbook Summary			Date Filed:	4/18/2007	
			Year/Quarter:	2006/Q4	
				Distribution/	
Account Description	Total	Production	Transmission	Other	
Schedule 1: Plant Investment / Rate Base / Rate of Return					
Total Intanglibe Plant	29,525,752	10,232,574	1,982,321	17,310,857	
Total Production Plant	1,709,677,644	1,709,677,644	0	0	
Total Transmission Plant	331,209,903	0	331,209,903	0	
Total Distribution Plant	2,892,330,528	0	0	2,892,330,528	
Total General Plant	137,244,959	44,403,353	8,437,458	84,404,148	
Total Electric Plant In-Service	5,099,988,786	1,764,313,571	341,629,682	2,994,045,533	
LESS:					
Total Depreciation and Amortization	2.218.809.904	833.161.676	142.128.036	1.243.520.192	
<u> </u>	_,,,,,		,	.,,,	
Total Net Plant	2,881,178,882	931,151,895	199,501,646	1,750,525,341	
(Total Electric Plant In-Service) - (Total Depreciation & Amortizat	ion)				
Assets and Other Debits (Comparative Balance S	Sheet)				
Cash Working Capital	64,283,240	33,494,782	7,631,995	23,156,462	
Total Utility Plant	887,975,267	307,248,849	44,436,548	536,289,869	
Total Other Property and Investments	6,934,092	6,934,092	0	0	
Total Current and Accrued Assets	76,520,443	42,451,428	3,500,497	30,568,517	
Total Deferred Debits	1,136,646,117	547,567,933	18,841,199	570,236,985	
Total Assets and Other Debits	2,172,359,159	937,697,085	74,410,239	1,160,251,834	
LESS:					
Liabilities and Other Credits (Comparative Balan	ce Sheet)				
Total Other Noncurrent Liablities	0	0	0	0	
Total Current and Accrued Liabilities	71,010,055	71,010,055	0	0	
Total Deferred Credtis	1,178,055,547	55,672,768	5,253,624	1,117,129,154	
Total Liabilities and Other Credits	1,249,065,602	126,682,823	5,253,624	1,117,129,154	
Total Rate Base	3,804,472,439	1,742,166,157	268,658,261	1,793,648,021	
(Total Net Plant +Total Assets and Other Debits - Total Liabilities and Other Credits)					

Long Term Debt	2,772,999,400
Interest for Year	167,347,092
Rate of Return	6.03%
(Interest/Long Term Debt)	

Table 7.6				Puget (PSE)				
Average System Cost (ASC) Cookbook Summary				4/18/2007				
	Year/Quarter:	2006/Q4						
		-		Distribution/				
Account Description	Total	Production	Transmission	Other				
Schedule 3: Expenses								
Total Production Expense	1,144,649,016	1,144,649,016	0	0				
Total Transmission Expense	57,969,332	0	57,969,332	0				
Total Distribution Expense	65,438,100	0	0	65,438,100				
Total Customer and Sales Expenses	71,732,129	0	0	71,732,129				
Total Administration and General Expenses	70,097,636	18,929,539	3,086,629	48,081,469				
Total Operations and Maintenance	1,409,886,213	1,163,578,555	61,055,961	185,251,698				
Total Depreciation and Amortization	167,698,558	59,253,464	9,749,014	98,696,079				
<u>Schedule 3A Items: Taxes</u>								
Taxes Accrued, Prepaid, and Charged During Ye	ar							
Total Federal	137,284,356	3,542,995	535,549	133,205,812				
Total State	252,301,606	21,062,677	2,182,120	229,056,810				
Total County and Municipal	0	0	0	0				
Total Taxes	389,585,962	24,605,672	2,717,669	362,262,622				
<u>Schedule 3B Items: Other Included Items</u>								
Total Disposition of Plant	(592,824)	(205,084)	(39,711)	(348,029)				
Total Sales from Resale	202,397,803	202,397,803	0	0				
Total Other Revenues	55,575,474	6,782,726	12,367,733	36,425,015				
Total Other Included Items	257,380,453	208,975,445	12,328,022	36,076,986				
Schedule 4: Average System Costs								
Total Operating Expenses	1,709,790,280	1,038,462,246	61,194,621	610,133,413				
(Total O&M + Total Depreciation & Amortization + Total Taxes - Total Other Included Items)								
Return from Rate Base	229,595,217	105,137,578	16,213,195	108,244,445				
(Total Rate Base * Rate of Return)								
Total Cost	1,939,385,497	1,143,599,824	77,407,816	718,377,857				
(Total Operating Expenses + Return from Rate Base)								
	-							
Total Load (MWh)		21,091,533						
5% Distribution Losses (MWh)		1,054,577						
Average System Cost (\$/MWh)		55.13						
(Total Production and Transmission Costs) / (Total Load + Distribution Losses)								

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PART TWO: 2007-2008 LOOKBACK

- Section 8: FY 2007-2008 Introduction
- Section 9: Wholesale Power Rate Development Study, FY 2007-2008
- Section 10: Section 7(b)(2) Rate Test Study, FY 2007-2008
- Section 11: Backcast of IOU ASCs, FY 2007-2008

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8. **FY 2007-2008 INTRODUCTION**

Part Two of the Lookback Study presents BPA's proposal to reform the first two years of its WP-07 rates to be consistent with the Court's recent decisions. BPA believes the basis for the Court's remand of BPA's WP-02 rates would equally apply to the WP-07 rates if BPA did not reform them at this time. BPA's WP-07 rates continued the WP-02 treatment of REP Settlement costs that the Court found improper. To calculate the improperly allocated amounts, BPA must determine the proper amounts to be allocated to preference customers. BPA believes that the proper amounts can be calculated only after determining the appropriate PF Exchange rate for the period. Because the PF Exchange rate determined in the WP-07 rate proceeding was so intertwined with assumptions regarding the REP Settlement Agreement, BPA proposes that the WP-07 PF Exchange must be recalculated.

Part Two sets forth the determination of the PF Exchange rate after removing the effects of the REP settlements. To do so, BPA looks back to 2006 when the final 2007 rates were being determined and excises the REP settlement assumptions from the rate calculations and replaces them with assumptions that conform to an REP consistent with sections 5(c) and 7(b) of the Northwest Power Act. At this time, the only changed condition regards the decision made about the inclusion of the Mid-Columbia resources in the 7(b)(2)(D) resource stack in the WP-02 re-determination. The rate model, as it existed at the time of the Final Proposal in July 2006, was modified to remove these resources and the rates were recomputed to achieve the final PF Exchange rate used in this Lookback Study.

In addition to the PF Exchange rate, the ASCs for each IOU must be determined. Because the REP settlements had attempted to settle disputes regarding various aspects of the REP, ASCs were not filed during the FY 2007-2008 lookback period. BPA therefore has incorporated FERC

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Form 1 data into the requirements of the 1984 ASC Methodology and estimated the annual ASCs
 for each IOU.

9. WHOLESALE POWER RATE DEVELOPMENT STUDY, FY 2007-2008

9.1 Average System Cost and Exchange Load Forecast for 2007-2008

This section discusses the correction of errors in the area of data inputs, functionalization codes, and the load forecast of total retail load and REP loads of the region's IOUs.

A new forecast of 2007-2008 ASCs have been determined as part of Lookback process. The
WP-07 Final Proposal forecast of the 2007-2008 ASCs was revised, as well as the load forecasts
for Contract System Load and REP loads. The ASC forecasts and the REP loads are used in the
determination of the 2007-2008 PF Exchange rate in this Supplemental Proposal.

Development of the 2007-2013 ASC forecasts is a two-step process. First, base year ASCs are developed for the six IOUs. The base year ASCs for each IOU were developed using 2004 FERC Form 1 filings. Data from the utilities' FERC Form 1s were entered into the Cookbook Model to determine Contract System Costs. The data were analyzed and functionalized in accordance with the 1984 ASCM, much as would have been done in a formal ASC review proceeding.

Second, the Contract System Costs from the 2004 base year ASCs were escalated to forecast
Contract System Costs for 2007-2008 plus the four subsequent years for purposes of the section
7(b)(2) rate test. These prospective ASCs were forecast using the ASC Forecast Model.
The same ASC Forecast Model was used in the WP-07 Final Proposal and the Supplemental
Proposal. The model was discussed in the Final WP-07 WPRDS, WP-07-FS-BPA-05,
Sections 2.19.5 through 2.19.7.

1

9.1.1 Data Correction for the 2004 Base Year ASC Determination

The revisions to the WP-07 Final Proposal ASC forecasts for 2007-2008 were limited error corrections in four areas: (1) data entry errors; (2) PacifiCorp's state allocation factors; (3) functionalization codes; and (4) Contract System Load and REP load forecasts.

9.1.1.1 Input Data Corrections in the 2004 Base Year ASC Calculation

Data errors were corrected by using the electronic download and transfer to populate the ASC Cookbook. This provided the FERC Form 1 data for each of the IOUs. The ASC Cookbook was revised to include a template that is designed to facilitate the transfer of data from the FERC electronic system. The corrections to the forecast did not include changes to assumptions, or functionalization that were made and discussed in the Supplemental WPRDS, WP-07-E-BPA-49, Section 8.

9.1.1.2 Correction of Errors to the PacifiCorp State Allocation Factors

Errors were corrected in PacifiCorp's 2004 base year ASC that the result of erroneous state allocation factors. The Jurisdictional Cost Allocation Protocol (JCAP) is the procedure developed by PacifiCorp, its state commissions and other interested parties to allocate the nondirectly assignable revenues, expenses and plant to PacifiCorp's jurisdictions. It is a listing of the allocation factors for various items in the FERC Form 1 and other items included in state commission rate orders.

The allocation factors determine how assets, liabilities, costs and revenues are to be allocated among the multiple states for purposes of calculating PacifiCorp's revenue requirement and setting retail rates. The allocation factors are also used in the preparation of the annual or semiannual results of operations filings. For example, the allocation factors would be used to allocate the capital and operating costs of the Jim Bridger generation plant among the various states. PacifiCorp provided an electronic file containing the JCAP allocation factors. This electronic

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file was used in coordination with PacifiCorp's 2002 Oregon Jurisdiction Results of Operation filing.

The allocation factors in the 2002 Results of Operation filing were matched to line items in PacifiCorp's 2004 base year ASC cookbook. The allocation factors were then applied to the line items in the Cookbook. In addition, specific state related costs were allocated using the PacifiCorp's 2002 Results of Operation filing to develop percentage allocations. These direct allocations included depreciation plant and expenses, taxes and deferred assets that had a sub-account descriptions that indicated a direct allocation.

9.1.1.3 Corrections of Functionalization Code Errors

Functionalization codes are the percentage factors that are applied to revenues or costs in the ASC Cookbook Model. The factor assigns the revenues or costs to production, transmission, or distribution, or to combinations thereof.

9.1.1.3.1 ASC Cookbook Model

The first correction was to assign the correct functionalization code to each line item in the ASC
Cookbook model. Some of the functionalization codes were not consistent with the 1984
ASCM. The corrected functionalization codes were consistently assigned to each of the IOU
Cookbook models.

9.1.1.3.2 Correction of Regulatory Asset Amortization

Regulatory assets are deferrals of costs or revenues that have been incurred by a utility but have not been recovered in rates. Examples of such assets include deferred power costs and pension benefits. In the WP-07 Final Proposal, regulatory assets were functionalized based on the nature of the asset. For example, a regulatory asset related to deferred recovery of purchase power costs would have been functionalized to production. In addition, regulatory assets were assumed to be amortized over a short period of time.

In the WP-07 Final Proposal, amortization costs were included for selected regulatory assets. After reviewing the FERC Form 1 Depreciation and Amortization expense schedules, it was noted there was no indication that regulatory assets were separately amortized in any of the depreciation schedules. This error was corrected by removing the regulatory amortization from the calculation of the 2004 IOU base year ASCs.

9.1.1.4 2004 Base Year ASC Correction

Data and functionalization codes were corrected to calculate the revised base year ASCs for the IOUs. Table 9.1 shows the WP-07 Final Proposal 2004 base year ASCs and the Supplemental Proposal 2004 base year ASCs for each of the IOUs. Tables for each IOU are available that show the calculation of the Supplemental Proposal 2004 base year ASC calculation, the WP-07 Final Proposal 2004 base year ASC calculation, and an explanation of the error corrections. *See* Lookback Documentation, WP-E-BPA-44A, Section 9.1.

17 18 19	TABLE 9.1 Comparison of Supplemental Proposal 2004 Base Year to Final Proposal 2004 Base Year							
20		Supplement	tal Proposal	WP-07 Fin	WP-07 Final Proposal			
21 22		ASC <u>(\$/MWh)</u>	Exch. Load (<u>MWh)</u>	ASC <u>(\$/MWh)</u>	Exch. Load (<u>MWh)</u>			
23	Avista	43.13	3,510,227	43.01	3,510,227			
24	Idaho Power	35.39	6,660,452	38.60	6,135,452			
25	NorthWestern Energy	56.30	836,111	58.08	859,453			
26	PacifiCorp (regional)	37.79	8,767,857	40.15	10,058,325			
27	Portland General	44.80	7,716,910	47.32	7,633,624			
28	Puget Sound	44.73	11,066,787	48.41	10,058,203			

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9.1.1.5 Load Forecast Corrections

In the WP-07 Final Proposal, it was incorrectly assumed that internal BPA-generated forecasts of total retail load for the IOUs did not include distribution losses. The 1984 ASCM specifies that Contract System Load includes distribution losses. Therefore, total retail load forecasts were increased by a 5 percent distribution loss factor to determine Contract System Load. It was subsequently determined that the total retail load forecasts included a 7 percent distribution loss factor; thus the WP-07 Final Proposal, in fact, overstated Contract System Load by using a 12.4 percent loss factor.

For this Supplemental Proposal, the load forecast was corrected by the following:

- First, the total retail load forecast was multiplied by 93 percent. This restated the load forecast to the end-use level.
- Then, the 5 percent distribution loss factor was applied to increase the loads for use as Contract System Load.

Table 9.2 restates the ASCs and now includes the Contract System Load forecasts for the WP-07Final Proposal and the Supplemental Proposal.

1 2 3	TABLE 9.2 Comparison of Supplemental Proposal 2004 Base Year to Final Proposal 2004 Base Year								
4			Supplemental Proposal		WP-07 Final Proposal				
5 6			ASC <u>(\$/MWh)</u>	CSL <u>(MWh)</u>	ASC <u>(\$/MWh)</u>	CSL (<u>MWh</u>)			
7 8 9 10 11 12		Avista Idaho Power NorthWestern Energy PacifiCorp (regional) Portland General Puget Sound	43.13 35.39 56.30 37.79 44.80 44.73	8,795,447 13,901,568 6,862,353 21,479,607 18,652,345 20,870,630	43.01 38.60 58.08 40.15 47.32 48.41	8,795,447 13,901,568 6,862,353 22,561,484 18,652,345 20,870,630			
13									
14	9.1.2	2007-2013 ASC Forec	easts						
15	Table 9.3 and 9.4 below show the 2007-2008 ASCs that were used in the WP-07 Final Proposal								
16	as well as the revised 2007-2013 ASCs for the IOUs.								
17 18 19		Comparison of S to Fin	Supplement nal Proposa	TABLE 9.3 tal Proposal 200' ll 2007-2008 Exc	7-2008 Excha hange Loads	nge Loads			
20			Supplemental Proposal		WP	WP-07 Final Proposal			
21 22			2007 <u>(MWh)</u>	2008 <u>(MWh)</u>	200 (MW	7 2 7 <u>h) (N</u>	2008 <u>⁄IWh)</u>		
23 24 25 26 27 28 29	I I I I I I I	Avista Idaho Power NorthWestern Energy PacifiCorp (regional) Portland General Puget Sound	3,824,02 7,218,34 961,97 9,463,01 8,286,38 11,746,83	9 4,085,388 5 7,234,428 2 982,688 1 10,644,572 4 9,242,122 8 11,189,178	3,897 7,380 961 9,579 8,377 11,894	2,357 4,1 2,466 7,2 ,972 1,0 2,971 10,7 2,545 9,2 2,349 11,2	184,196 401,546 010,998 776,134 484,296 215,422		
29									
1 2		Revised 2	TABLE 9.5.1 2004-2013 ASC H	Forecasts					
--------	------	------------------------	--------------------------------	------------------------	------------------------------				
3		Av	ista	Idaho I	Power				
4 5		ASC <u>(\$/MWh)</u>	Exch. Load (<u>MWh)</u>	ASC <u>(\$/MWh)</u>	Exch. Load (<u>MWh</u>)				
6	2004	43.13	3,510,227	35.39	6,660,452				
7	2005	43.03	3,590,509	35.24	6,538,585				
8	2006	44.06	3,756,579	36.93	7,038,389				
9	2007	45.37	3,824,029	38.26	7,218,346				
0	2008	47.02	3,897,357	39.61	7,380,466				
1	2009	48.00	3,981,477	40.57	7,543,106				
2	2010	48.95	4.064.974	41.59	7,707,308				
3	2011	50.06	4.146.629	42.71	7.884.371				
4	2012	51.31	4.218.112	43.82	8.030.291				
5	2013	52.58	4,263,887	44.85	8,099,305				
6									
17			TABLE 9.5.2						
8		Revised 2	2004-2013 ASC I	Forecasts					
9		NorthV	Vestern	Pacifi	Corp				
20		ASC	Exch. Load	ASC	Exch. Load				
21		<u>(\$/MWh)</u>	<u>(MWh)</u>	<u>(\$/MWh)</u>	<u>(MWh)</u>				
22	2004	56.30	836,111	37.79	8,767,757				
23	2005	53.86	847,092	32.53	8,960,693				
24	2006	54.95	898.218	33.95	9.251.568				
25	2007	56.50	951.068	35.61	9.463.011				
26	2008	59.18	961,972	37.45	9.579.971				
27	2009	60.53	965.929	38.29	9.658.348				
28	2010	61.73	974.699	39.05	9.762.851				
29	2011	63.08	982,866	39.94	9,875,253				

64.39

65.76

994,162

999,297

10,033,223

10,188,763

40.98

42.04

1 2			Revised 2	TABLE 9.5. 004-2013 AS	3 C Forecas	ts	
3 4 5			Portland General ASC Exch. Load (\$/MWh) (MWh)		(Puget ASC <u>\$/MWh)</u>	Sound Exch. Load (<u>MWh)</u>
6 7 8 9 10 11 12 13 14 15 16	20 20 20 20 20 20 20 20 20 20 20 20	004 005 006 007 008 009 010 011 012 013	44.80 44.19 45.46 47.55 50.10 51.13 51.87 52.84 54.14 55.49	7,716,910 7,766,126 8,049,271 8,286,384 8,377,545 8,469,639 8,562,004 8,651,356 8,788,009 8,868,995		44.73 45.62 46.61 47.58 48.60 49.53 50.51 51.65 52.89 54.16	11,066,787 11,382,320 11,674,554 11,746,838 11,894,349 12,057,336 12,214,852 12,365,385 12,477,488 12,586,358
17	9.2 Cost Allo	cation and l	Rate Desig	n Implement	ation		
18	9.2.1 Ratemak	ing Sequenc	e				
19	The ratemaking s	equence used	d in the FY	2007-2008 L	ookback is	the same	e as was used in the
20	WP-07 Final Pro	posal except	that the Su	bscription Stra	ategy secti	on is no l	onger necessary.
21	The FY 2007-200)8 Lookback	ratemakin	g includes a C	OSA and a	a series of	f Rate Design Step
22	adjustments using	g the same R	AM2007 n	nodel used in t	the WP-07	Final Pro	posal. This model
23	provides a detern	nination of ra	tes for the	FY 2007-2008	8 time peri	od. In an	additional table,
24	developed for thi	s Lookback S	Study, the I	PF Exchange r	rate is then	used to c	calculate the level of
25	IOU REP benefit	s for FY 200	7 and FY 2	2008.			
26							
27	BPA's WP-07 re	formed ratem	haking met	hodology inclu	udes a CO	SA, a seri	ies of Rate Design St

BPA's WP-07 reformed ratemaking methodology includes a COSA, a series of Rate Design Step
adjustments, and a Slice Product Separation Step. The COSA assigns responsibility for BPA's
generation revenue requirement to the various classes of service in accordance with generally
accepted ratemaking principles and in compliance with statutory directives governing BPA's
ratemaking. The Rate Design Step adjustments to the allocated costs derived in the COSA are
necessary to ensure that BPA recovers its test period revenue requirement while following its

statutory rate directives. The Slice Product Separation Step separates out the PF Slice product
firm loads, allocated costs, and allocated revenue credits from the overall non-Slice PF loads,
allocated costs, and allocated revenue credits. This ratemaking sequence is programmed into a
spreadsheet model, RAM2007, for purposes of calculating BPA's requirement power rates.

9.2.2 Cost of Service Analysis (COSA)

The COSA allocates the test period generation revenue requirement to BPA customer classes
determined in the Final Revenue Requirement Study, WP-07-FS-BPA-02, without revisions.
The COSA apportions or "allocates" the test period generation revenue requirement among
classes of service based on the principles of cost causation. The relative use of resources,
services, or facilities among customer classes is identified and costs are generally allocated to
customer classes in proportion to each class's use. Cost allocation also is based on the priorities
of service from resource pools to rate pools provided in section 7 of the Northwest Power Act.

BPA uses three major ratemaking steps to complete the process of determining BPA's total cost of service for power rates: (1) *functionalization* of costs between generation and transmission to develop the generation revenue requirement; (2) *classification* of costs between demand, energy, and load variance; and (3) *allocation* of costs to classes of service.

In the Lookback for FY 2007-08, the PF Exchange power rate is recalculated using REP costs in place of the REP settlement costs. Functionalization of costs between generation and transmission is performed in conjunction with the development of BPA's total revenue requirements and only those costs assigned to the Power function are included in the revenue requirement. The one exception is for gross exchange resource costs. These costs are so that only the power portion is subject to the power cost rate design steps; the costs functionalized to transmission are then reincorporated after the rate design steps are completed. The remaining

steps to determine BPA's cost of service for wholesale power – classification and allocation of costs - are performed in the COSA portion of the WPRDS. See Lookback Documentation, WP-07-E-BPA-44A, Section 9.2.

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9.2.3 **Power Revenue Requirement**

The Bonneville Project Act, the Flood Control Act of 1944, the Transmission System Act, and the Northwest Power Act provide guidance regarding BPA ratemaking. The Northwest Power Act requires BPA to set rates that are sufficient to recover, in accordance with sound business principles, the cost of acquiring, conserving, and transmitting electric power, including amortization of the Federal investment in the FCRPS over a reasonable period of years, and the other costs and expenses incurred by the Administrator. 16 USC § 839e(a)(1).

The Final Revenue Requirement Study, WP-07-FS-BPA-02, is based on generation revenue and cost estimates for a three-year test period, FY 2007-2009. The revenue requirement from the Revenue Requirement Study is adjusted in the COSA for projected balancing purchase power costs, system augmentation costs, and the gross REP costs functionalized to power. The adjusted annual Power function revenue requirements used for rate calculations are shown in the WPRDS. See Lookback Documentation, WP-07-E-BPA-44A, Tables 9.2.3.1 (COSA 06 FY 2007) through 9.2.3.3 (COSA 06 FY 2009). The functionalization of the gross REP costs is shown in the Lookback Documentation, WP-07-E-BPA-44A, Table 9.2.3.4 (COSA 07). The total adjusted functionalized revenue requirements for the three-year period are shown in the Lookback Documentation, WP-07-E-BPA-44A, Table 9.2.3.5 (COSA 08).

9.2.3.1 Revenue Requirement Study

In compliance with a FERC order, BPA has prepared a power repayment study specifically for the generation function. See U.S. Department of Energy – Bonneville Power Admin., 26 FERC ¶ 61,096 (January 27, 1984). All costs functionalized to generation are used to develop the generation revenue requirement, which is recovered through FCRPS power rates.

The Final Revenue Requirement Study, WP-07-FS-BPA-02, also includes demonstrations to show that revenue from the proposed rates is adequate to recover all generation related costs of the FCRPS in the rate period and over the repayment period (revised revenue test).

9.2.3.2 Power Purchases in the COSA

Three categories of purchased power are included in the COSA. These are: (1) purchased power; (2) balancing power purchases; and (3) system augmentation. Gross REP costs, while portrayed in section 5(c) of the Northwest Power Act as a purchase of power by BPA, are not included in the categories.

9.2.3.2.1 Purchased Power

The purchased power costs reflect the acquisition of power through renewable energy, wind, geothermal, and competitive acquisition programs. Costs of purchased power are included in the new resources resource pool. *See* Lookback Documentation, WP-07-E-BPA-44A, Tables 9.2.3.1, 9.2.3.2, and 9.2.3.3 (COSA 06 for FY 2007-2009).

9.2.3.2.2 Balancing Power Purchases

The costs of power purchases and storage required to meet firm deficits on a less-than-annual basis are included in the category of balancing power purchases. Projected balancing power purchases are needed to serve firm loads in months other than the spring fish migration period under some water conditions. The value that is used in the revenue requirement is the expected value over 50 water conditions. This balancing power purchase expense estimate is developed in the Risk Analysis Study (using RiskMod) to reflect projected operation of the FCRPS. *See* Final Risk Analysis Study, WP-07-FS-BPA-04. For this Lookback analysis for FY 2007-08, the balancing purchases amounts have not been changed from those in the WP-07 Final Proposal. *See* Final WPRDS Documentation, WP-07-FS-BPA-05A, Section 3.4. Costs of balancing power purchases are characterized as FBS replacements and, as such, are included in – and allocated as – FBS costs. *See* Lookback Documentation, WP-07-E-BPA-44A, Tables 9.2.3.1, 9.2.3.2, and 9.2.3.3 (COSA 06) for FY 2007-2009.

9.2.3.2.3 System Augmentation

BPA also has need to acquire annual amounts of power beyond the inventory represented by the FCRPS and balancing power purchases. These acquisitions are defined as system augmentation and are used to meet customer firm power loads in excess of firm system resources on an annual basis. System augmentation purchases are characterized as FBS replacements and are allocated as FBS costs. For this Lookback analysis for FY 2007-2008, the system augmentation purchases amounts have not been changed from those in the WP-07 Final Proposal. System augmentation costs are shown in the Lookback Documentation, WP-07-E-BPA-44A, Tables 9.2.3.1, 9.2.3.2, and 9.2.3.3 (COSA 06) for FY 2007-2009.

9.2.4 Functionalization of Residential Exchange Program Costs

In the COSA, the gross REP cost is based on exchanging utilities' ASCs and the amount of their exchange loads. ASCs include the resource costs associated with serving an exchanging utility's load. The 1984 ASCM specifies what constitutes resource costs, but simply stated, they include most power costs and certain transmission costs. Since the ASCs include transmission costs, the gross costs of the exchange include transmission costs. Therefore, some of the gross costs of the exchange are functionalized to transmission. The rate design adjustments that follow the COSA in BPA's ratemaking sequence use the results of the COSA on the revenue requirement functionalized to power. The REP cost that is used in the COSA includes energy costs, demand

costs, and transmission costs, which are functionalized to generation so that the gross REP costs are treated the same as other Power function costs as they go through the rate design adjustment process. The functionalization of REP costs is shown in the Lookback Documentation, WP-07-E-BPA-44A, Table 9.2.3.4 (COSA 07).

9.2.5 Classification

Classification in the WPRDS apportions generation costs between the demand, energy, and load variance components of electric power. This classification of the generation revenue requirement is shown in the Lookback Documentation, WP-07-E-BPA-44A, Table 9.2.3.5 (COSA 08).

The classification methodology BPA uses is generally based on the marginal costs of the
components of power and generally accepted ratemaking procedures. However, in the WP-07
Final Proposal, rates were determined based on the Partial Resolution of Issues, making
classification unnecessary for this rate period. *See* Supplemental WPRDS, WP-07-E-BPA-49,
Attachment 1.

9.2.6 Functionalized and Classified Revenue Credits

The revenue credits described here are functionalized to generation and classified to energy. Most of these revenue credits are associated with the operation of FBS resources and have the effect of reducing the FBS resource costs to be recovered by BPA's power rates.

9.2.6.1 Downstream Benefits and Pumping Power Revenues

Downstream benefits and pumping power revenues are payments from the sale of Reserve
Energy, irrigation pumping power, and revenue from owners of projects downstream to the
Corps and Reclamation for benefits received (*i.e.*, additional generation) from the storage

reservoirs owned by the Corps and Reclamation. Reserve energy and irrigation pumping power revenue is earned through the year, and paid at the end of the year directly to the Treasury by the Corps and by Reclamation. These revenues are not subject to revision through BPA's rate processes and hence become a revenue credit. *See* Lookback Documentation,

WP-07-E-BPA-44A, Table 9.2.3.6 (COSA 09).

9.2.6.2 Section 4(h)(10)(C) Credits

Section 4(h)(10)(c) credits are available from the Treasury to compensate BPA for its direct program fish and wildlife expense and capital costs and hydro system operation costs incurred for fish migration attributable to the non-power portions of the hydro projects. These credits are 22 percent of these costs. This revenue credit is an estimate of what BPA would receive on average over a range of 50 different water conditions. The actual credit is determined after each year is complete. The operation costs vary with water conditions. *See* Lookback Documentation, WP-07-E-BPA-44A, Table 9.2.3.6 (COSA 09).

9.2.6.3 Colville Credit

The Colville credit is a Treasury credit BPA receives as a result of a settlement of claims associated with the development of Grand Coulee Dam. The credit is a predetermined amount fixed by legislation. *See* Lookback Documentation, WP-07-E-BPA-44A, Table 9.2.3.6 (COSA 09).

9.2.6.4 Energy Efficiency Revenues

This credit is for reimbursable expenses arising from the activities of BPA's Energy Services Business. *See* Lookback Documentation, WP-07-E-BPA-44A, Table 9.2.3.6 (COSA 09).

9.2.6.5 Miscellaneous Revenues

This credit represents estimated revenues from contract administration, late fees, interest on late payments, and mitigation payments. These fees are not subject to changes in BPA's ratemaking processes. *See* Lookback Documentation, WP-07-E-BPA-44A, Table 9.2.3.6 (COSA 09).

9.2.6.6 Reserve Product Revenues

See Lookback Documentation, WP-07-E-BPA-44A, Table 9.2.3.4 (COSA 09).

9.2.6.7 Green Tag Revenues

Green energy premiums (GEP) result from BPA sales of Environmentally Preferred Power (EPP)
and renewable energy certificates (REC). The revenues depend on actual wind and renewable
project output included in the FCRPS. *See* Lookback Documentation, WP-07-E-BPA-44A,
Table 9.2.3.4 (COSA 09).

9.2.6.8 Power Services Ancillary and Reserve Services Revenues Credits

Power Services, in the course of marketing power, generates transmission-related revenues and credits. The revenues and credits are predominantly revenues associated with providing ancillary and reserve services from the FCRPS. *See* Section 4 of the Final WPRDS,
WP-07-E-BPA-05A. The revenues and credits are classified to energy and are used reduce the FBS resource costs to be recovered by BPA's power rates. *See* Lookback Documentation,
WP-07-E-BPA-44A, Table 9.2.3.6 (COSA 09).

9.2.7 Allocation

Allocation is the apportionment of costs to customer classes. Allocation is performed by
determining the relative sizes of resource pools and rate pools pursuant to the rate directives
contained in section 7 of the Northwest Power Act. Rate pools are groupings of customer classes
(sales or loads) for cost allocation purposes. BPA groups its loads into the "Priority Firm,"

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"Industrial Firm," and "All Other" categories corresponding to sections 7(b), 7(c), and 7(f) of the Northwest Power Act. The resource pools are those identified in the Northwest Power Act as the FBS, REP, and new resources resource pools. Costs associated with each of these respective resource pools are grouped together to facilitate allocation. The sizes of the rate and resource pools are determined from forecast load and resources presented in the Final Load Resource Study, WP-07-FS-BPA-01.

The Northwest Power Act established three rate pools. The 7(b) rate pool includes public body and cooperative (collectively, COUs), and Federal agency sales under section 5(b) of the Northwest Power Act, as well as the sales to utilities participating in the REP established in section 5(c) of the Northwest Power Act. The 7(c) rate pool includes sales to BPA's DSI customers under section 5(d) of the Northwest Power Act. The 7(f) rate pool includes all power BPA sells section 5(f) of the Northwest Power Act. Subsequent to 1985, with the implementation of the directives of section 7(c)(2) of the Northwest Power Act, BPA has had, for all practical purposes, only two rate pools: the 7(b) rate pool and all other loads.

In the Lookback Study, the FBS resource pool consists of the following resources: (1) the FCRPS hydroelectric projects; (2) resources acquired by the Administrator under long-term contracts in force on the effective date of the Northwest Power Act; and (3) replacements for reductions in the capability of the above resource types. Costs expected to be incurred during the rate period for replacement resources were included in the FBS resource pool. *See* Final Revenue Requirement Study Documentation, WP-07-FS-BPA-02A. In addition to long-term resource acquisitions, short-term power purchases are made during the rate period. These short-term power purchases augment the Federal system to achieve load/resource balance on an annual basis as well as balance the Federal system to provide operational flexibility and provide for certain fish mitigation measures on a monthly and daily basis. The costs of such balancing purchases as well as the cost of system augmentation to ensure load/resource balance are considered to be FBS costs and are allocated as such.

9.2.7.1 Power Cost Allocations

The process for allocating power costs begins with an examination of critical period firm loads and resources. A ratemaking load and resource balance for each year of the test period is then constructed from the Final Load Resource Study, WP-07-FS-BPA-01, and other data. From this ratemaking load and resource balance, service to each of the three rate pools from each of the resource pools is determined for the rate test period. Table 9.2.4.1 (ALLOCATE 01) shows the ratemaking energy loads and resources by pools. *See* Lookback Documentation,

WP-07-E-BPA-44A, Table 9.2.4.1 (ALLOCATE 01).

9.2.7.2 Energy Allocation Factors

When service from each resource pool to each class of service has been identified, the amounts of such service are the allocation factors for the costs of the resource pool. Resource pool costs are allocated to classes of service based on the proportions of their identified use of the resource pools to the total size (use) of the resource pool. The annual energy allocation factors for each resource pool are shown in the Lookback Documentation, WP-07-E-BPA-44A, Table 9.2.4.1 (ALLOCATE 01). The Total Usage and Conservation allocation factors are the same and are based on the sum of the FBS, REP, and new resources allocation factors. They are used to allocate costs and rate design adjustments to all firm energy loads. Allocated power costs are shown in the Lookback Documentation, WP-07-E-BPA-44A, Table 9.2.4.2 (ALLOCATE 02).

9.2.7.3 Other Cost Allocations

Costs not directly identifiable with rate pools, resource pools, or transmission costs allocated to PBL are allocated as described in the following sections.

9.2.7.3.1 Conservation Costs

The Northwest Power Act requires BPA to treat cost-effective conservation as an electric power resource in planning to meet the Administrator's obligations to serve loads. 16 U.S.C. § 839a1(a). The "conservation" line item, as seen in the COSA 06 tables (see Lookback Documentation, WP-07-E-BPA-44A, Tables 9.2.3.1, 9.2.3.2, and 9.2.3.3), includes: (1) debt service for BPA's previous resource acquisition activities; (2) BPA's continuing contributions to the region's market transformation efforts; (3) costs associated with BPA's energy efficiency business; (4) costs associated with the Conservation Rate Credit; and (5) a share of the agency's total planned net revenues. The "Energy Efficiency" revenue line item seen in Table 9.2.3.6 (COSA 09) reflects payments provided by other BPA organizations and Federal agencies for the energy efficiency services delivered. See Lookback Documentation, WP-07-E-BPA-44A, Table 9.2.3.6 (COSA 09).

9.2.7.3.2 BPA Program Costs

Some of BPA's program costs are not identified directly with any specific resource pool or customer class. An example is the cost of the ratemaking process. The generation portion of these program costs is determined in the Final Revenue Requirement Study, WP-07-FS-BPA-02. The generation portion appears as BPA program costs. These program costs, as seen in Table 9.2.3.5 (COSA 08) are allocated uniformly to all customer classes based on the total usage allocation factors for energy. See Lookback Documentation, WP-07-E-BPA-44A, Table 9.2.3.5 (COSA 08).

9.2.7.3.3 Planned Net Revenues for Risk

PNRR is the amount of net revenues required from power rates to ensure that cash-flows from proposed rates meet fully BPA's probability standard for repaying PBL's portion of Treasury

payments on time and in full. PNRR are allocated to resource pools that include Federal capital investments. The methodology for allocating these costs is described and illustrated in the Final Revenue Requirement Study Documentation, WP-07-FS-BPA-02A, Section 2.

The PNRR value found in the COSA 06 tables is the result of an iterative process between the RAM2007, the RiskMod, NORM and the ToolKit models. *See* Final Risk Analysis Study, WP-07-FS-BPA-04. The iteration is initiated with a seed value for PNRR in COSA 06 of the RAM2007. The resultant rates are used in RiskMod to produce probability distributions. These distributions are then used in the ToolKit to produce a new PNRR value for new COSA 06 tables. For this FY 2007-2008 Lookback analysis, the PNRR amounts have not been changed from those in the WP-07 Final Proposal and no iterative process was conducted. For further explanation of this iterative process, *see* Doubleday, *et al.*, WP-07-E-BPA-15.

9.2.8 COSA Results

The COSA results are allocated to the test period revenue requirements for power to classes of service served with firm power. Table 9.2.4.2 (ALLOCATE 02) summarizes the allocated generation power revenue requirement and the total allocated revenue requirement recovered from power classes of service. This includes transmission costs allocated to the Power function. *See* Lookback Documentation, WP-07-E-BPA-44A, Table 9.2.4.2 (ALLOCATE 02).

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9.3 Slice of the System (Slice) Product, Slice Revenue Requirement, and Slice Rate

9.3.1 Explanation of Changes

This section reflects changes to the Slice True-Up process and the treatment of certain expenses and revenue credits due to the Slice Mediation Settlement Agreement (Slice Settlement), which was signed and executed by BPA, the Slice customers, and the Northwest Requirements Utilities on November 22, 2006. In addition, this section reflects the impact on the Slice Revenue Requirement that resulted from litigation regarding the REP Settlement Agreements and related amendments along with the LRAs with PacifiCorp and Puget Sound Energy.

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9.3.2 Slice Product Description

The Slice product is a sale of a fixed percentage of the generation output of the FCRPS. It is not a sale or lease of any part of the ownership of, or operational rights to, the FCRPS. The amount of Slice product available to a customer is based upon a Slice customer's annual net firm requirements load, compared to an annual average firm energy load carrying capability of 7,070 aMW, and is shaped to BPA's generation output from the FCRPS. The annual average firm energy load carrying capability of 7,070 aMW was adopted in the WP-02 Final Proposal for the FCRPS, as adjusted by System Obligations and transmission losses. BPA's sale of the Slice product required a commitment by the Slice customer of 10 years, from FY 2002 through FY 2011.

Because the Slice product is calculated as a percentage of the FCRPS generation output, the actual power delivered to the Slice customer varies throughout the year. During certain periods of the year and under certain water conditions, the power delivered exceeds the Slice customer's net firm requirements and may at times exceed the Slice customer's actual firm load. As a consequence, the Slice product entails a sale of both requirements and surplus power products.

9.3.3 Slice Revenue Requirement

Each Slice customer pays a percentage of BPA's costs, rather than a set price per megawatt and
megawatthour. The Slice customer's obligation to pay is equal to the percentage of the FCRPS
generation output that the Slice customer elected to purchase in its 10-year Subscription contract.
The costs that the Slice customers pay a percentage of are referred to collectively as the Slice
Revenue Requirement. The Slice Revenue Requirement is comprised of all of the line items in

BPA's generation revenue requirement, with certain limited exceptions. *See* Table 9.3.1 for a detailed list of the line items and forecast dollar amounts in the Slice Revenue Requirement.

In 2003, BPA engaged in litigation before the Ninth Circuit concerning the appropriate interpretation and implementation of the Slice rate and the Slice Rate Methodology. Northwest Requirements Utilities v. Bonneville Power Administration, Nos. 03-73849, 03-74170, and 04-71311. In that litigation, the Slice customers contended that BPA's Slice True-Up Adjustment Charges for Contract Years 2002 and 2003 were inconsistent with the terms of the Slice contracts, which incorporate language of the Slice rate and Slice Rate Methodology. In July 2006, BPA, the Slice customers, and the Northwest Requirements Utilities agreed on a settlement of the issues and a draft Slice Settlement was submitted to parties' various governing boards, as well as to the U.S. Department of Justice, for review and approval. In addition, BPA released the draft Slice Settlement for public review and comments. BPA received no comments on the draft Slice Settlement. The Slice Settlement (07PB-12273) was approved by the U.S. Department of Justice, and was signed and executed by all parties on November 22, 2006. The Slice Settlement resolved all Slice True-Up disputes for Contract Years 2002-2005, along with previously-disputed substantive issues in a way that will have precedential effect beyond 2005. The Slice Settlement also provides for refunds to Slice customers in the form of credits to their bills and includes a new dispute resolution provision and a Memorandum of Understanding regarding BPA's Debt Optimization Program. In this Supplemental Proposal, BPA is modifying the rate treatment of certain Slice rate and Slice Rate Methodology matters, consistent with the Slice Settlement. See Lee, et al., WP-07-E-BPA-59.

9.3.4 Inclusion and Treatment of Expenses and Revenue Credits

Because BPA is proposing to make changes to the treatment of particular expenses and revenue credits during the middle of the applicable rate period, it is BPA's intent to make adjustments to

the Slice Revenue Requirement and Slice rate on a prospective basis. BPA has made changes to the treatment of particular expenses and revenue credits in the Slice True-Up for FY 2007 and FY 2008, consistent with the Slice Settlement.

The Slice Revenue Requirement includes the same expenses and revenue credits that are included in the Power Services revenue requirement, with certain limited exclusions. In general, there are three types of excluded expenses: (1) power purchases except those associated with the inventory solution; (2) inter-business line transmission costs except those associated with serving BPA System Obligations and GTAs; and (3) PNRR (or its successor risk mitigation tools) and hedging expenses except those hedging expenses associated with the inventory solution.

12 The following paragraphs clarify the rate treatment of particular items in the Slice Revenue 13 Requirement and Actual Slice Revenue Requirement. The Slice Revenue Requirement includes 14 all the expenses and revenue credits that are the basis for calculating the Slice rate for FY 2007-2008. The expenses and revenue credits included in the Slice Revenue Requirement that is the 16 basis for the FY 2007-2008 Slice rate are forecasts for FY 2007-2009 that were determined in the 17 WP-07 Final Proposal. The Actual Slice Revenue Requirement includes the same expense and 18 revenue credit categories as the Slice Revenue Requirement, but is comprised of the final audited 19 actual expenditures and revenues as reflected on BPA's Power Services financial statements, 20 including any adjustments that result from this proceeding. The Actual Slice Revenue Requirement for a given fiscal year is used as the basis for the calculation of the annual Slice 22 True-Up Adjustment Charge for that fiscal year. See Section 9.3.6, for a more detailed 23 description of the Slice True-Up process.

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1 9.3.4.1 Augmentation Expenses

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During the prior rate period (FY 2002-2006), BPA supplemented the capability of the FBS to meet the total load placed on BPA (augmentation purchases). These augmentation power purchases were those needed to meet all load service requests made under BPA's Subscription contracts on a planning basis. Conceptually, augmentation purchases are considered to be separate and distinct from "balancing purchases." "Balancing purchases" refer to those purchases used to replace reduced hydro system flexibility due to increased operating constraints and to those purchases needed to serve BPA's load on an hourly and monthly basis. Slice customers do not pay for BPA's "balancing purchases," as the Slice customers face the risk of reduced hydro system flexibility directly and have the obligation to serve their own loads on an hourly and monthly basis.

Slice customers are required to pay their proportionate share of the net cost of all augmentation expenses. The "net cost" of augmentation refers to the costs associated with the purchase of the augmentation power less the associated revenues from the sale of such augmentation power. Slice customers do not receive any power associated with these augmentation purchases.

In the WP-07 Final Proposal, BPA forecast that there would be augmentation expenses during the FY 2007-2009 rate period. BPA identified three distinct types of augmentation expenses in the FY 2007-2009 rate period: (1) "residual" augmentation expenses; (2) "deferred" augmentation expenses; and (3) other augmentation expenses.

23 "Residual" augmentation expenses, are the expenses associated with augmentation purchases 24 that carried over from the FY 2002-2006 rate period into FY 2007-2009. When BPA purchased power on the market to meet its load obligations for the FY 2002-2006 rate period, some of the purchases extended to the end of the 2006 calendar year, rather than ending at the close of the rate period (September 30, 2006). The average megawatts associated with the residual

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augmentation purchases were needed to meet BPA's load obligation for FY 2007. Slice
customers paid their proportionate share of the "net cost" of these residual augmentation
purchases. For the net cost calculation, BPA assumes that it will purchase 105 aMW of residual
augmentation power for a total of \$49 million in FY 2007. *See* Final WPRDS Documentation,
WP-07-FS-BPA-05A, Table 3.6.2, at 58. This expense ended in FY 2007.

The revenues associated with the sale of the residual augmentation power were estimated, based on the average PF rate for power and multiplied by the amount of power that would be sold, which was 105 aMW in FY 2007. The average PF rate determined in the WP-07 Final Proposal was 27.33 mills per kWh. BPA subtracted the expected revenues from the purchase expense to calculate the net cost of the residual augmentation purchases for FY 2007. The net cost of the residual augmentation purchases for FY 2007 was not subject to the Slice True-Up process.

The second type of augmentation expenses are those referred to as "deferred" augmentation. This category contains those augmentation expenses incurred during the FY 2002-2006 rate period, but the payment of which was deferred to FY 2007-2009 and beyond. The deferred augmentation expenses were associated with payment of a "Reduction of Risk Discount" to Puget Sound Energy and PacifiCorp. 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 2007-2011 Administrator's Record of Decision* (May 25, 2004) (IOU REP Settlement ROD) modified approximately \$200 million in Reduction of Risk Discount payments to Puget Sound Energy and PacifiCorp. Puget Sound Energy and PacifiCorp agreed to forgo collection of the one-half of the Reduction of Risk Discount (\$100 million) and deferred collection of the balance (\$100 million) until the FY 2007-2011 period. With interest payments, this totals to \$115 million of deferred augmentation expenses for FY 2007-2011, which will be recovered through PF rates in amounts of \$23 million per year. *See* Table 9.3.1.

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As the result of a series of recent decisions by the Ninth Circuit regarding the REP settlements, BPA must make modifications to the deferred augmentation expenses. In response to these decisions by the Ninth Circuit, BPA is in the process of revising this expense for FY 2009 in its Supplemental Proposal, but this revision will not affect the Slice Revenue Requirement that is the basis for the FY 2007-2008 Slice rate. In the WP-07 Final Proposal, these estimates were not subject to the annual Slice True-Up, as they were set by contract and were not expected to change. However, due to the invalidation of the REP Settlement Agreements by the Ninth Circuit, the expenses are not being incurred. BPA proposes to make adjustments either through the Slice rate or Slice True-Up process that is commensurate with the adjustments made to non-Slice rates.

The third category of expenses is "other" augmentation expenses. This category includes the expenses associated with augmentation purchases that BPA needed to meet its load obligation during FY 2007-2009. In the WP-07 Final Proposal, BPA forecast the augmentation amounts for FY 2007, FY 2008, and FY 2009 to be 179 aMW, 179 aMW, and 270 aMW, respectively. *See* Final Load Resource Study, WP-07-FS-BPA-01, at 60. Slice customers are obligated to pay their proportionate share of the "net cost" of these augmentation purchases. For theWP-07 Final Proposal, BPA assumed that it would purchase augmentation power in FY 2007 at \$61.90 per MWh, in FY 2008 at \$60.40 per MWh, and in FY 2009 at \$62.10 per MWh. *See* Final WPRDS Documentation, WP-07-FS-BPA-05A, Table 3.6.2, at 60. The revenues associated with the sale of augmentation power were estimated, based on the projected PF rate for power and multiplied by the amount of power that would be sold (179 aMW, 179 aMW, and 270 aMW, respectively for FY 2007, FY 2008, and FY 2009). The projected PF rate was 27.33 mills per kWh. The expected revenues were subtracted from the forecast purchase expense to calculate the net cost of the augmentation purchases for FY 2007-2009 determined in the WP-07 Final Proposal. The net cost of augmentation power for FY 2007-2009 was not subject to the Slice True-Up process.

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9.3.4.2 Conservation Augmentation (ConAug)

ConAug was the conservation component of BPA's inventory solution in the WP-02 rate case. ConAug was a resource acquisition effort to purchase conservation measures to reduce BPA's load obligation.

The annual costs of ConAug were estimated and included in the augmentation expenses for the FY 2002-2006 Slice Revenue Requirement. Since it was not known specifically during the WP-02 rate case how the ConAug program would be implemented, the annual costs were derived as if the load reduction was equivalent to a power purchase. The estimate of ConAug costs was based on the assumption that 20 aMW of ConAug would be purchased each year during the FY 2002-2006 rate period. The cost of this power was estimated to be 28.1 mills/kWh plus 10 percent, or 30.9 mills/kWh and included it as part of the Slice Revenue Requirement.

In the WP-02 rate case, BPA set the ConAug expense as a fixed amount that was not subject to the Slice True-Up. This fixed amount was limited to the first 20 aMW of ConAug acquired each year during the FY 2002-2006 rate period. Slice customers paid their share of the estimated costs of 100 aMW of ConAug during the FY 2002-2006 rate period. If BPA acquired more than 20 aMW during any given year, those costs would be handled through the Load-Based CRAC and included in related charges to both Slice and non-Slice customers.

BPA independently decided to capitalize the costs of actual ConAug acquisitions. As a result there are annual amortization expenses associated with ConAug investments from the FY 2002-2006 rate period that carry over into FY 2007-2009. *See* Final Revenue Requirement Study Documentation, WP-07-FS-BPA-02A, Table 3F, at 51, line 6. These investments are amortized

over the term of the Subscription contracts and are not fully amortized until FY 2011. However, Slice customers will not pay for these ConAug amortization costs in the FY 2007-2009 rate period, because Slice customers paid a forecast of ConAug costs as if they were incurred as annual expenses. Therefore, the amortization will be excluded from the Slice Revenue Requirement and the Actual Slice Revenue Requirement.

9.3.4.3 IOU Residential Exchange Program Settlement Benefits

In the WP-07 Final Proposal, Slice customers were obligated to pay their proportionate share of the REP settlement benefits payments to PNW IOUs during the FY 2007-2009 rate period. As a result of a series of decisions by the Ninth Circuit, the underlying REP Settlement Agreements were determined to be void and, therefore, will no longer be part of the Slice Revenue Requirement.

There were two aspects of the REP settlement payments that were included in the Slice Revenue Requirement determined in the WP-07 Final Proposal: (1) the interest of the balance of the FY 2003 \$55 million deferral for all IOUs not repaid as of September 30, 2006, and (2) REP settlement benefits to all six IOUs applied to the FY 2007-2011 period, specified under their contracts or contract amendments titled Agreement Regarding Payment of Residential Exchange Program Settlement Benefits during FY 2007-2011.

The balance of the \$55 million payment deferral for all IOUs not repaid as of September 30, 2006 was accounted for as an expense in FY 2003, and the Slice customers paid their proportionate share of this expense through the True-Up Adjustment in that year. Therefore the balance still owed on September 30, 2006, was not included as an expense in the Slice Revenue Requirement for purposes of calculating the Slice rate, nor was it accounted for as an expense in

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the Actual Slice Revenue Requirement for the FY 2007-2008 period for purposes of the annual Slice True-Up.

The interest associated with the \$55 million, forecast to be approximately \$1 million annually, was included in the FY 2007-2009 Slice Revenue Requirement determined in the WP-07 Final Proposal for purposes of calculating the Slice rate. The interest also was to be accounted for as an expense in the Actual Slice Revenue Requirement for calculation of the True-Up Adjustment Charge in the FY 2007-2009 period. Because of the decisions by the Ninth Circuit, this expense has been eliminated, and any necessary adjustment for FY 2007 and FY 2008 will be addressed through the Slice True-Up for FY 2008.

The second aspect to the payments to the IOUs was the "IOU REP Settlement benefits to all six IOUs." In May 2004, all six IOUs signed contracts or contract amendments entitled, "Agreement Regarding Payment of Residential Exchange Program Settlement Benefits during FY 2007-2011." These contracts or contract amendments apply to FY 2007-2011, and specify that BPA will provide monetary benefits rather than physical power to each of the six IOUs. The contracts or contract amendments also specify a mark-to-market methodology for determining the amount of the monetary benefits based upon the difference between a market price and the lowest-cost PF rate. *See* Petty, *et al.*, WP-07-E-BPA-11.

The amount of the REP settlement benefits to all six IOUs was not fixed but would change each year depending on the difference between an independent market price forecast and the lowest-cost PF rate (including any CRAC or DDC). In addition to the new methodology, the FY 2007-2011 contracts or contract amendments provide both a floor and a cap for benefit levels. The REP settlement benefits to be paid by BPA during any fiscal year had a floor of \$100 million and a cap set at \$300 million. BPA forecast the benefit amount to be at or near the cap during all

Because of the decisions by the Ninth Circuit, this expense has been eliminated, and any necessary adjustment for FY 2007 and FY 2008 will be addressed through the Slice True-Up for FY 2008.

9.3.4.4 Cost of the Residential Exchange for Public Utilities

Slice customers are responsible for paying their proportionate share of the net costs of the REP for public utilities. The net cost of the REP for public utilities was calculated by subtracting the gross exchange revenues from the gross exchange expenses. *See* Final WPRDS Documentation, WP-07-FS-BPA-05A, Table 3.6.2. An amount of net costs of the REP for public utilities was forecast for each year of the FY 2007-2009 rate period, and is included in the Slice Revenue Requirement. The actual costs of the REP for public utilities in any year will be included in the Actual Slice Revenue Requirement for that year, for purposes of calculating the Slice True-Up.

9.3.5 Bad Debt Expense

The Slice Revenue Requirement contained a line item labeled "Bad Debt Expense." "Bad Debt
Expense" is a line item in Power Service's Statement of Revenues and Expenses. While no
amounts were forecast for bad debt expense for the FY 2007-2009 period, the Actual Slice
Revenue Requirement will contain the actual amount accounted for as bad debt expense, except
for bad debt expense associated with the sale of energy to any customer that purchases
exclusively under the FPS-07 rate schedule, as established in the *Partial Resolution of Issues*.
However, any bad debt expense associated with the sale of energy under both the PF-07 and
FPS-07 or just the PF-07 rate schedule, will be included in the Actual Slice Revenue
Requirement for Slice True-Up purposes. *See* Evans, *et al.*, WP-07-E-BPA-31, Attachment A,

at A-4. Through the annual Slice True-Up, Slice customers paid their proportionate share of the eligible bad debt expenses.

The Slice Settlement contains a provision that addresses the treatment of bad debt related to California Independent System Operator (CAISO) and California Power Exchange (Cal PX). In regards to CAISO and Cal PX bad debt, BPA reversed the True-Up Adjustment charges to Slice customers for the bad debt expense arising out of transactions with the CAISO and Cal PX prior to October 1, 2001. As a result, Slice customers will not receive any future credits for subsequent recovery of any receivables related to amounts previously written off that BPA collects, nor will the Slice customers pay for any future bad debt expense related to write-offs of any outstanding CAISO or Cal PX receivables.

In addition, the Slice Settlement contains a provision that addresses the treatment of bad debt related to DSIs. This provision specifically states that allowances for uncollectible DSI liquidated damages for FY 2002 or prior years will not be included in the Actual Slice Revenue Requirement or Slice True-Up Adjustment Charge. As a result, Slice customers will not receive any future credits for subsequent recovery of any receivables related to amounts previously written off that BPA collects from DSIs.

9.3.5.1 DSI Costs of Service

On June 30, 2005, BPA's Administrator signed the Record of Decision *Service to Direct Service Industrial (DSI) Customers for Fiscal Years 2007-2011* (DSI ROD). In this decision, the Administrator determined that BPA would offer 560 aMW of service benefits to the aluminum smelters, capped at an annual cost of \$59 million, plus 17 aMW of power to Port Townsend Paper Corporation, for the FY 2007-2011 period. See Gustafson, *et al.*, WP-07-E-BPA-17. These costs are included in the Slice Revenue Requirement and were subject to the annual Slice True-Up. Slice customers paid their proportionate share of these costs.

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9.3.5.2 Fish and Wildlife Program Costs

Slice customers are obligated to pay their proportionate share of BPA's direct program costs for fish and wildlife, both BPA's direct program as well as Corps of Engineers and U.S. Bureau of Reclamation costs. Slice customers also experienced their proportionate share of BPA's indirect, or operational, program costs for fish and wildlife directly, through reduced or changed Slice power deliveries.

If BPA's fish and wildlife obligations differed from the forecasts contained in the Slice Revenue Requirement, Slice customers pay their proportionate share of any increase or decrease in fish and wildlife annual expenses through their annual True-Up. Slice customers were affected in real-time for any changes in indirect program costs (*e.g.*, changed operations or increases in spill and flow) for fish and wildlife through changes in their Slice power deliveries.

Slice customers are not subject to either the NMFS FCRPS Biological Opinion (BiOp) (NFB)
Adjustment or the Emergency NFB Surcharge. As already mentioned, Slice customers paid their
proportionate share of any changes in fish and wildlife annual expenses through their annual
True-Up and any indirect program cost changes were experienced through changes in Slice
power deliveries.

9.3.5.3 Slice Implementation Expenses

Slice Implementation Expenses are defined as those costs reasonably incurred by Power Services in any Contract Year (same as BPA's fiscal year) for the sole purpose of implementing the Slice product, and that would not have been incurred had Power Services not sold Slice Output under the Block and Slice Power Sales Agreement. Therefore, if Power Services incurs costs during any Contract Year for the purpose of implementing the Slice product, Power Services will account for these as expenses and will charge 100 percent of these expenses to the Slice customers through the annual Slice True-Up.

The Slice Settlement contains a provision that addresses the treatment of Slice Computer Application Project costs. The Slice Settlement states that, consistent with BPA's Software Capitalization Policy or Personal Property Capitalization Policy, any hardware or software acquired for the Slice Computer Application Project and for implementing the Block/Slice PSA will be capitalized over the shorter of a five-year period or the remainder of the Block/Slice contract term, which ends on September 30, 2011. This represents a change from what was proposed in the WP-07 Final Proposal where all Slice Computer Application Project costs were treated as current expenses, rather than capitalized and recovered over a five-year period.

Projections of Slice Implementation Expenses were not included in the Slice Revenue
Requirement, and therefore, were not included in the Slice rate for FY 2007-2008. Slice
Implementation Expenses in any given Contract Year were accounted for after the audited yearend Actual Slice Revenue Requirement for that Contract Year was available. Slice
Implementation Expenses were charged to Slice customers through the annual Slice True-Up for
that Contract Year.

9.3.5.4 Debt Optimization Program

Through the Debt Optimization program, BPA refinances (extends the maturities of) EN bonds as they come due and repays an equivalent amount of Federal debt. In total, the same amount of debt is repaid that rates were set to recover, but with an emphasis toward repaying Federal debt rather than non-Federal debt. *See* Homenick, *et al.*, WP-07-E-BPA-10, Section 3.

The financial effects from the refinancing and the related additional amortization of Federal debt are properly and fully accounted for in the Actual Slice Revenue Requirement, in accordance with the manner in which they are accounted for in Power Services' statement of revenues and expenses and in the determination of business line financial reserves.

The Debt Optimization program is a BPA debt management policy that affects not only the Slice rate (through the annual True-Up Adjustment Charge), but is a recognized factor of BPA's rate of general application through the implementation of the CRAC. Inclusion of the Debt Optimization program transactions in the annual True-Up Adjustment Charge is recognition of the Slice customers' share of these obligations.

9.3.5.5 Reinvestment of "Green Tag Revenues" in BPA's Renewable Resources **Facilitation and Research and Development**

BPA reinvested what it collectively refers to as "Green Tag revenues" in BPA's renewable resource facilitation and in renewables research and development. These "Green Tag revenues" came from three sources: (1) Green Energy Premium revenues resulting from sales of Environmentally Preferred Power; (2) Green Tag revenues resulting from sales of Renewable Energy Certificates; and (3) revenues from sales of Alternative Renewable Energy to Pre-Subscription power purchasers. BPA did not include the renewables expense associated with the reinvestment of "Green Tag revenues" in the Slice Revenue Requirement nor the Actual Slice Revenue Requirement. See WPRDS, WP-07-E-BPA-49, Attachment A, at A-4, A-5, Partial Resolution of Issues.

9.3.5.6 Minimum Required Net Revenues Calculation

Minimum Required Net Revenues was a component of the annual Generation Revenue

Requirement. Minimum Required Net Revenues also was a component of the Slice Revenue

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Requirement. Minimum Required Net Revenues may be necessary to ensure that revenue 2 requirements are sufficient to cover all cash requirements, including annual amortization of the 3 Federal investment as determined in the power repayment studies and any other cash 4 requirements such as payment of irrigation assistance. See Final Revenue Requirement Study, 5 WP-07-FS-BPA-02, at 20, lines 17-21. BPA determined that the annual amounts for Minimum 6 Required Net Revenue in the Slice Product Costing and True-Up Table should be different than the amounts that appear in the total Generation Revenue Requirement. These differences are 8 appropriate. See Lee, et al., WP-07-E-BPA-35, at 4, lines 21-24. The differences are due to one 9 element that is different between the two Minimum Required Net Revenues calculations. In the 10 total Generation Revenue Requirement, accrual revenues that are included in the revenue forecast must be taken into account. Since these are non-cash revenues, the Minimum Required Net Revenues calculation must adjust cash from current operations to ensure adequate coverage of the annual cash requirements in order to demonstrate full cost recovery for proposed power rates. See Final Revenue Requirement Study, WP-07-FS-BPA-02, at 28. These accrual revenues stem from a settlement in which BPA/Power Services received cash payments that, in the accounting treatment, are recognized as revenues on a straight-line basis over the remainder of the term of the settled contracts. However, these settlements and the associated accrual revenues were not relevant to cost recovery for Slice and do not appear in the calculation of Minimum Required Net Revenues for the Slice Revenue Requirement (which is represented by the Slice Product Costing and True-Up Table). Due to this difference, the Minimum Required Net Revenues in the Slice Product Costing and True-Up Table, was smaller than the Minimum Required Net Revenues in the total Generation Revenue Requirement.

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9.3.6 Slice Rate

The Slice Revenue Requirement was the basis for calculating the base Slice rate. To calculate the Slice rate that was in effect for FY 2007-2008, the total dollar amounts for each fiscal year of the Slice Revenue Requirement were summed and divided by 36 months (the number of months in the three-year rate period FY 2007-2009 for the WP-07 Wholesale Power Rate Final Proposal) and divided by 100 to obtain the base Slice rate per percent of Slice product purchased. *See* Table 9.3.1, line 163. The monthly Slice rate was \$1,877,054 per percent Slice product purchased for FY 2007-2008.

9.3.7 Slice True-Up

Because the Slice rate is calculated as a uniform monthly rate for the rate period and does not take into account the variability of actual costs from year-to-year, BPA will true-up the difference between the expenses and credits in the average Slice Revenue Requirement for the applicable period upon which the Slice rate is based and the actual expenses and credits in the Actual Slice Revenue Requirement for the applicable fiscal year. The Actual Slice Revenue Requirement for the applicable fiscal year is the sum of the final audited expenditures and revenues as reflected on BPA's Power Services financial statements, corresponding to those Power Service expense and revenue categories that are included in the Slice Revenue Requirement. BPA's financial statements contain expenses and credits that are in accordance with GAAP. Any difference between the Actual Slice Revenue Requirement and the average Slice Revenue Requirement is called the Slice True-Up Amount. The Slice Settlement (*see* Section 9.3.3) specifies that BPA's True-Up calculation will be the Actual Slice Revenue Requirement for the applicable fiscal year minus the **average** Slice Revenue Requirement for the applicable fiscal year minus the **average** Slice Revenue Requirement for the applicable fiscal year minus the **average** Slice Revenue Requirement for the applicable rate period.

A positive or negative result from the calculation resulted in an additional charge or credit to the
Slice customer. This additional charge or credit to the Slice customer was known as the Slice
True-Up Adjustment Charge (or Credit). Because of the Slice True-Up Adjustment Charge (or
Credit), Slice customers paid a percentage of BPA's actual costs, regardless of weather,

streamflow, market, or generation output conditions. This assured payment of actual costs
mitigates BPA's financial risks in the event that any of these conditions put adverse financial
pressure on BPA. The Slice customers' payments through their base Slice rate and the annual
True-Up Adjustment Charge mitigates the risk associated with the variability of BPA's expenses
and revenue credits (for those expenses included in the Slice Revenue Requirement). The risks
associated with the variability of generation output and with the uncertainty of market prices for
purchasing or selling power were assumed directly by the Slice customers.



		(\$000e)			
		Audited Actual	FY 2007	FY 2008	FY 2009
1	Operating Expenses	Data	Torecast	Torecast	Torecasi
2	Power System Generation Resources Operating Generation				
4	COLUMBIA GENERATING STATION (WNP-2)		263,669	188,688	242,90
6	CORPS OF ENGINEERS		161,519	165,742	170,40
7	LONG-TERM CONTRACT GENERATING PROJECTS		24,932	25,314	25,75
9	Sub-Lotal Operating Generation Settlement Payment	•	521,774	454,504	516,82
10	COLVILLE GENERATION SETTLEMENT		16,968	17,354	17,74
12	Sub-Total		16,968	17,354	17,74
13	Non-Operating Generation TROJAN DECOMISSIONING		5 400	4 700	3 10
15	WNP-1&3 DECOMISSIONING		200	200	20
16 17	Sub-Total Contracted Power Purchases		5,600	4,900	3,30
18	PNCA HEADWATER BENEFIT		1,714	1,714	1,71
19 20	HEDGING/MITIGATION (omit except for those assoc, with inventory solution DSI MONETIZED POWER SALE	1)	59,000	59,000	59,00
21	OTHER POWER PURCHASES (short term - omit)		C0 744	C0 744	FY 2009 forecast 242,902 77,766 170,407 25,751 516,826 17,749 3,100 200 3,300 1,714 59,000 6,861 301,000 2,114 6,901 1,714 59,000 2,114 10,000 2,114 10,000 1,000 2,114 10,000 1,000
22	Sup-Lotal Augmentation Power Purchases		60,714	60,714	
24	AUGMENTATION POWER PURCHASES (omit - calculated below)				FY 2009 forecast 242,902 27,766 170,407 25,751 516,826 17,749 3,100 200 3,300 1,714 59,000 6,861 301,000 40,835 5,000 1,714 59,000 1,714 59,000 1,714 59,000 1,001 2,114 10,000 1,000 2,114 10,000 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 1,000 1,000 1,000 1,8,75 48,000 0,5,844
20 26	Residential Exchange/IOU Settlement Benefits				
27	PUBLIC RESIDENTIAL EXCHANGE (net costs)		6,762	6,811	FY 2009 fore cast 242,902 77,766 170,407 25,751 516,826 31,007 2007 3,3000 3,300 3,300 3,300 3,300 3,300 3,300 3,300 3,300 3,300 3,300 3,3
29	Renewable Generation (expenses related to reinvestment removed)		30,289	34,719	
30	Generation Conservation		5 000	5 000	5.00
32	ENERGY EFFICIENCY DEVELOPMENT		12,885	12,908	FY 2009 forecast 242,902 777,766 170,407 255,751 516,826 177,749 0 17,749 0 3,100 2,00 3,300 1,714 59,000 40,835 5,000 1,293 60,714 60,714 59,000 1,00
33 34	ENERGY WEB LEGACY (Until 11/1/03 this was included with line 72)		1,000	2.638	
35	MARKET TRANSFORMATION		10,000	10,000	77,766 170,407 25,751 516,826 17,749 0 17,749 3,100 200 3,300 1,714 59,000 60,714 6,861 301,000 40,835 5,000 12,933 1,000 2,114 10,000 1,007,632 0 0 0 0 0 0 0 0 0 0 0 0 0
36 37	INFRASTRUCTURE SUPPORT AND EVALUATION		1,300	1,300	10,000 1,300 1,000 1,000 1,000 34,347 36,000
38	BI-LATERAL CONTRACT ACTIVITY		1,000	1,000	1,00
40	CONSERVATION RATE CREDIT		36,000	36,000	34,347 36,000 1,017,622
41 42	Power System Generation Sub-Total		1,015,019	950,848	1,017,63
43	PBL Transmission Acquisition and Ancillary Services				
44	PBL Transmission Acquisition and Anchiary Services PBL - TRANSMISSION & ANCILLARY SERVICES				
5a Eh	Canadian Entitlement Agreement Transmission Expenses		24,806	25,550	26,99
46	3RD PARTY GTA WHEELING		47,000	47,000	48,00
47 48	PBL - 3RD PARTY TRANS & ANCILLARY SVCS RESERVE & OTHER SERVICES		8 462	8 462	8.46
49	TELEMETERING/EQUIP REPLACEMT		200	200	516,826 17,749 0 17,749 3,100 200 3,300 1,714 59,000 60,714 6,861 301,000 40,835 5,000 12,933 1,000 2,114 10,000 1,300 1,2933 1,000 1,017,632 26,991 1,875 48,000 1,017,632 26,991 1,875 48,000 8,462 200 8,528 0 0 0 5,844 5,844 9,353 5,524 16,745 (5,360) 11,771 16,745 (5,360) 11,771 8,4300 1,714 1,714 1,749 1,749 1,749 1,017 1,749 1,749 1,749 1,749 1,749 1,017 1,017 1,017 1,017 1,017 1,017 1,017 1,017 1,017 1,017 1,000 1,017 1,0
50 51	PBL Trans Acquisition and Ancillary Services Sub-Total		82,243	83,037	85,52
52	Power Non-Generation Operations				
53 54	PBL System Operations EFFICIENCIES PROGRAM (omit TMS expenses)		0	0	-
55	INFORMATION TECHNOLOGY		0	0 5 729	E 04
57	SLICE IMPLEMENTATION (omit - calculated separately)		5,63/	5,730	FY 2009 forecast 242.902 77,768 170,407 25,751 516,826 17,749 0 3,100 1,7,149 0,000 3,300 1,7,149 0,000 3,300 1,7,14 59,000 2,171 6,8,61 30,000 1,001 2,003 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 1,000 1,000 1,8,75 48,000 8,5528 0 0 0 0 11,771 5
58 59	Sub-Total PBL Scheduling		5,637	5,738	fore cast 242,902 77,766 170,407 25,751 516,826 17,749 0 17,749 0 3,100 1,714 59,000 2,933 3,300 1,714 59,000 2,933 5,000 2,933 1,000 2,033 1,000 2,114 10,000 1,000 2,000 <t< td=""></t<>
60	OPERATIONS SCHEDULING		8,758	9,051	26,991 1,875 48,000 8,462 200 85,528 0 0 0 5,844 5,844 9,363 5,521 14,874
61 62	OPERATIONS PLANNING Sub-Total		5,202	5,358	FY 2009 forecast 242,902 77,766 170,407 25,751 516,826 17,749 3,100 2000 3,300 1,714 59,000 40,835 5,000 1,714 59,000 40,835 5,000 1,2933 1,000 40,835 5,000 12,933 1,000 2,114 10,000 2,114 10,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 5,844 5,528 8,5528 0 0 0 0 5,844 5,528 8,5528 0 0 0 0 5,844 5,529 1,000 5,844 5,953 3,0,943 5,521 1,775 4,800 5,521 1,745 5,621 1,745 5,521 1,000 5,844 5,844 5,944 5,953 5,521 1,745
63	PBL Marketing and Business Support				14,01
ы4 i4a	SALES & SUPPORT Contractual exclusion		15,884 (5,360)	16,278 (5,360)	16,74 (5.360
65	PUBLIC COMMUNICATION & TRIBAL LIAISON		10.005	11.050	(1,000
вы 67	STRATEGY, FINANCE & RISK MGMT EXECUTIVE AND ADMINISTRATIVE SERVICES		10,965	11,359	11,77
68	CONSERVATION SUPPORT (EE staff costs)		6,441	6,692	6,95
39 70	Power Non-Generation Operations Sub-Total		48,372	49,955	30,94 51,66
71	Fish and Wildlife/IISE&W/Planning Council				
73	BPA Fish and Wildlife (includes F&W Shared Services)				
74	FISH & WILDLIFE F&W HIGH PRIORITY ACTION PROJECTS		143,000	143,000	143,00
76	Sub-Total		143,000	143,000	143,00
77 78	PBL-USF&W Lower Snake Hatcheries USF&W LOWER SNAKE HATCHERIES		18 600	19.500	20.40
79	PBL - Planning Council		10,000	10,000	20,40
80 81	PLANNING COUNCIL PBL - ENVIRONMENTAL REQUIREMENTS		9,085	9,276	9,46
82	ENVIRONMENTAL REQUIREMENTS		500	500	50
53	Fish and Wildlife/USF&W/Planning Council Sub-Total		1/1.185	172,276	173,36

Table 9.3.1

Table 9.3.1 (continued)Slice Product Costing and True-Up Table

B P A term of terms 10,550 3,0,00 15,375 F ADDICNAL POST-REPENSION 332 37,33 51,735 F ADDICNAL POST-REPENSION 332 37,33 51,735 F ADDICNAL POST-REPENSION 332 37,43 333 F Based Sections 332 37,43 333 F Based Sections 332 37,43 333 F Based Administrative Sections 1400 1400 300 F Based Sections 147,341 100,551 113,200 F Based Sections 147,341 100,551 113,200 F Based Sections 100,320 132,300 113,200 F Based Sections 100,320 132,300 113,200 100,320 F Based Sections 100,320 132,300 100,320 132,300 F Sections 10,320 10,320 10,320 10,320 F Sections 10,320 10,320					
Bit Partner of Support 10.00	84				
68 CASK FRB 0.550 9.00 15,375 69 CASK FRB 0.24 500 51,764 60 CASK FRB 0.24 500 51,764 60 CASK FRB 0.24 500 51,764 60 CASK FRB 524 500 51,764 60 CASK FRB 51,764 61,173 61,173 51,764 60 CASK FRB 51,764 61,173 61,173 51,764 60 CASK FRB 51,764 51,764 51,764 51,764 70 CASK FRB CASK FRB 51,764 51,774 51,764 51,775 51,764 51,775 51,775 51,775 51,775 51,775 51,775 51,775 51,775	85 BPA Internal Support				
97 ACOTIONAL PLOST-RELIENCEDIC CONTINUENDON 19.202 19.203 15.275 90 Control Approach 322 373 51.765 90 The Supply Colon-Shore's Start and Colon Control Control Start and Colon Control Start and Colon Control Start and Colon Control Start and Colon Control Control Start and Colon Control Contro Contro Contro Control Contro Control Control Control Control Co	86 CSRS/FERS				
Organity Support Solutions Started Services Sub-Total Solution So	87 ADDITIONAL POST-RETIREMENT CONTRIBUTION	10,550	9,000	15,375	
Bit Classification and Administrative State S sub Teal 93,237 91,728 91,724 920 TBL Supply Chain Shared Services 920 921 920 921 920 Bit Ob Chit Forum, Egyneme Administry State S sub Teal 61,100 61,100 61,100 61,100 61,100 61,700 61,700 61,700 61,700 61,700 710,100 700 700 710,100 710,000 <td>88 Corporate Support - G&A (excludes direct project support)</td> <td></td> <td></td> <td></td> <td></td>	88 Corporate Support - G&A (excludes direct project support)				
IDI. Supply Calab. Shared Services 388 374 380 IDI. Supply Calab. Shared Services 1400 61.127 67.79 IDI Supply Calab. Shared Services 1400 1400 77.88 77.88 IDI Supply Calab. Shared Service 1400 <td< td=""><td>89 CORPORATE G&A</td><td>50,247</td><td>51,753</td><td>51,764</td><td></td></td<>	89 CORPORATE G&A	50,247	51,753	51,764	
General and Administurker Shub-Teal 61,05 61,12 67,519 Bid both prome frames Adjustments 1,000 1,000 3,000 Bid both prome frames Adjustments 1,000 1,000 210,527 Bid both prome frames Adjustments 1,000 1,050 210,527 Bid both prome frames Adjustments 1,000 1,050 1,052 Bid both prome frames Adjustments 1,000 1,000 1,000 Bid both prome frames Adjustments 1,000	90 TBL Supply Chain - Shared Services	368	374	380	
Paid Debt Expanse 1,800 1,800 3,600 Other Income, Expanse, Advances 1,800 1,800 1,800 1,800 Other Income, Expanse, Advances Debt Sovice 15,800 117,241 165,216 113,322 Income Minister Debt Sovice 15,724 165,216 113,322 113,322 Income Minister Debt Sovice 15,724 165,216 113,322 113,322 Income Minister Debt Sovice 15,724 165,216 113,322 113,323 Sub-Leal 495,335 54,146 55,679 0 0 CONSERVATION DEBT Sovice 1,111 114,426 113,121 113,121 Sub-Leal 52,323 5,166 5,188 118,927 113,323 118,927 Sub-Leal 52,328 7,860 0 0 0 113,121 114,928 113,933 118,927 Sub-Leal 52,328 7,333 18,927 124,924 124,924 124,924 124,924 124,924 124,924 124,924 124,924 124,924	1 General and Administrative/Shared Services Sub-Total	61,165	61.127	67,519	
9 Ball balk Expense 1.000 1.000 9 Balk Expense 1.000 1.000 1.000 9 Table Dalk Expense 1.000 1.000 1.000 9 Table Dalk Expense 1.000 1.000 1.000 9 Table Dalk Expense 1.000 1.000 1.000 9 Despection Delth IMERS France Sub. Table 1.000 1.000 1.000 9 Despection Delth IMERS France Sub. Table 1.000 1.000 1.000 1.000 1.000 1.000 1.000<	32				
0 1.000 1.000 3.000 1000 119 500 119 500 119 500 119 500 1000 119 500 119 500 119 500 119 500 119 500 1000 119 500 119 500 119 500 119 500 119 500 1000 119 500 119 500 119 500 119 500 119 500 1000 119 500 119 500 119 500 119 500 119 500 1000 119 500 119 500 119 500 119 500 119 500 1000 119 500 119 500 119 500 119 500 119 500 1000 119 500 119 500 119 500 119 500 119 500 1000 119 500 119 500 119 500 119 500 119 500 1000 119 500 119 500 119 500 119 500 119 500 1000 119 500 119 500 119 500 119 500 119 500 1000 119 500 119 500 119 500 119 500	3 Bad Debt Exnense				
No. No. No. No. No. Theory Minkwa Lobi Swrite 100 100 100 100 Collulata Generalmic Static UEET SVC 119,850 219,855 219,857 Mich Jost Schwart Lobi Swrite 119,850 217,855 219,857 Mich Jost Schwart Lobi Swrite 119,850 217,855 119,957 Bit Lobi Mich Static Swrite 453,355 543,844 55,079 Construct Statis Schwart Lobi Swrite 68,255 7,888 0 Construct Statis Schwart Lobi Swrite 63,333 6,189 6,189 Construct Statis Schwart Lobi Swrite 11,833 11,833 11,833 Swite Toal 25,427 35,333 15,897 Toal Construct Swite Toal 1599,566 12,992,40 1593,313 Toal Construct Swite Toal 1599,566 12,923 12,834 Toal Construct Swite Toal 1599,566 12,923 12,834 Toal Construct Swite Toal 159,500 173,133 19,907 Toal Construct Swite Toal 159,500 173,133 <	94 Other Income Expanses Adjustments	1 800	1 800	3 600	
Bit Parage Manifest Base Savide Parage Manifest Baset Base Savide Parage Manifest Base Savide	04 Outer Income, Expenses, Aujustments 05 Non Federal Daht Consist	1,000	1,000	5,000	
9 Differ 195.00 277.50 28.77 9 Web-1 Cert SV: 197.941 195.966 195.976 9 Web-3 Cert SV: 157.724 160.022 153.933 9 Web-3 Cert SV: 157.724 160.022 153.933 9 Sub-Fail 80.5 7.88 0 157.724 150.022 153.933 9 Montange Netword Destroic 485.555 \$43.344 355.679 1.89 0 Concept-Wall Structure 485.555 \$43.344 2.198 1.89 0 Concept-Wall Structure 8.305 7.88 0 1.89 0 Concept-Wall Structure 8.33 5.188 1.99 1.89 0 Concept-Wall Structure 8.33 18.82 1.99 1.89 1.99 1.89 1.99 1.89 1.99 1.99 1.99 1.99 1.99 1.99 1.99 1.99 1.99 1.99 1.99 1.99 1.99 1.99 1.99 1.99<	33 Non-regena beb service				
9 CLUDREAL CENTRATION OF STATUCH DEED SVC 110 200 2/0 288 <	96 Energy Northwest Debt Service	105 000	017.050	010 707	
Bit Mathematical Section Hold Mathematical Mathematical Section Hold Mathematical Mathmatematical Mathmatical Mathmatical Mathematical Mathmati	97 CULUMBIA GENERATING STATION DEBT SVC	195,690	217,856	218,767	
9 WW-3 LEET SV: The LEW SV: Provide Structure	98 WNP-1 DEBT SVC	147,941	165,916	163,282	
END FLIPED Det1 END FLIPED TALE SWAP 495.33 51.84 55.879 Image: State of the Structure of the Struct	99 WNP-3 DEBT SVC	151,724	160,092	153,030	
ENLIDGE INTERST ATE SYAP 455.355 513,64 555,07 Sub Load Not Load 89,55 7,288 0 TOURS INTERST ATE SYAP 89,55 7,288 0 CONSERVATION DEETS VIC 89,55 7,288 0 Machine Structure 89,55 7,288 0 Machine Structure 1,511 11,511 11,513 Machine Structure 1,521 2,831 18,928 Machine Structure 1,500,566 1,889,240 1,553,313 Machine Structure 1,500,566 1,289,240 1,553,313 Machine Structure 1,500,566 1,289,240 1,253,313 Machine Magnin Cetal 2,256,577	100 EN RETIRED DEBT				
Sub-Teral 95,353 91,404 95,079 No.T. Exciting Methower beta Service 9,055 7,568 0 No.T. Exciting Methower beta Service 9,055 7,568 0 Start Transport 11,016 11,563 11,571 Number Service 0 1,564 2,168 Start Teral 52,072 25,072 25,073 No.T. Federal Deta Service Sub-Total 52,072 25,072 25,073 No.T. Federal Deta Service Sub-Total 52,072 27,073 12,051 Differ Expenses 1,000,056 1,889,240 12,051 Differ Expenses 1,000,056 1,889,240 12,051 Differ Expenses 10,000 10,000 10,000 10,000 Differ Expenses 10,000 10,000 10,000 10,000 Total Expenses 22,039 22,117 22,259 22,259 Total Expenses 22,030 22,718 22,259 22,259 Total Expenses 22,030 22,717 22,259 22,024 2	101 EN LIBOR INTEREST RATE SWAP				
30 Mon-Energy Network Debt Storke 8,000 7,088 5,000 30 TROAM DEBT Storke 8,000 5,000 1,000 30 COUNTY ATIND DEBT Storke 10,000 1,000 1,000 30 Sub-Total 250,122 26,033 19,927 300 Mon-Energy Networke Sub-Total 250,122 57,019 554,006 300 Mon-Energy Networke Sub-Total 250,122 72,019 754,006 300 Mon-Energy Networke Sub-Total 1500,566 1,889,20 11,200 12,230 310 Depreciation (exclube Conlog anotization) 65,677 100,241 65,777 100,241 65,777 311 Obter Enganse 10,000 100,000 <td< td=""><td>02 Sub-Total</td><td>495,355</td><td>543,864</td><td>535,079</td><td></td></td<>	02 Sub-Total	495,355	543,864	535,079	
040 TROWN DEET SVC 8,055 7,883 0 05 CONNUT FALS DEET SVC 5,233 5,188 5,188 06 CONNUT FALS DEET SVC 1,189 1,197 07 Sub-Faral 52,072 570,197 554,006 08 Sub-Faral 520,782 570,197 554,006 09 Non-Faderal Debt Service Sub-Total 520,782 570,197 554,006 111 Depression fact. ThS5 1,995,566 1,893,240 1,953,313 114 Other Expanse 1,995,567 10,924 65,77 115 Depression fact. ThS5 118,056 121,823 124,524 116 Depression fact. ThS5 118,056 121,823 124,524 117 height and factor (actual antication (actual antication) 363,924 367,975 405,559 117 height and factor (actual antication) 363,924 367,975 405,559 118 Total Expanse 2,204 2,371,115 2,358,972 117 Height and Factor Short Reve 12,331 61,617 40,572 118 Fat	103 Non-Energy Northwest Debt Service				
165 CONSERV-MIDN DEFT SVC 5,203 5,186 5,188 17 MASCO DEFT SVC 11,819 11,663 1,571 18 Most Federal Level Sarvice Sub-Total 12,002 507,007 55,000 101 Most Federal Level Sarvice Sub-Total 12,002 507,007 55,000 110 Total Operating Expenses 1,000,566 18,809,40 11,953,313 111 Total Operating Expenses 1,000,566 18,809,40 11,953,313 112 Total Operating Expenses 1,000,566 18,009 12,029 113 Most Federal Level (MS) 155,057 60,241 66,172 114 Paperatine (motion (MS) 12,259 22,263 10,000 10,000 115 Log Mathingtion Costs 10,000 10,000 10,000 10,000 115 Log Mathingtion Costs 22,280,200 22,715 2,286,372 116 Log Mathingtion Costs 10,000 10,000 10,000 10,000 117 Net Interest Expense 12,280 22,715 2,286,372 118 Log Mathingtion Costs 10,000 10,000 10,000 119 Log Mathingtion Costs 10,000 10,000 10,000 <td< td=""><td>104 TROJAN DEBT SVC</td><td>8,605</td><td>7,888</td><td>C</td><td></td></td<>	104 TROJAN DEBT SVC	8,605	7,888	C	
66 COMUTE FALLS DEFT SVC 0 1,88 11,871 11,871 11,871 67 Sub-Total 22,427 26,333 16,927 7 And-Federal Debt Service Sub-Total 520,722 570,117 155,406 17 Total Operating Expenses 13,900,566 18,89,240 12,823 12,823 18 Other Expenses 11,900,566 18,89,240 12,823 12,833 16,70 12,823 12,823 12,823 12,823 12,833 16,716 2,883,72 6,8,70 16,833 16,716 2,983,72 6,8,70 16,716 2,983,72 6,8,70 16,716 2,983,72 6,8,70 16,716 2,983,77 6,8,70 16,71	05 CONSERVATION DEBT SVC	5,203	5,198	5.188	
WASCO DEBT SVC D 156 2.188 100 Sub-Total 23.072 250.197 25.006 101 Total Operating Expenses 1.989.240 1.989.240 1.957.1 111 Total Operating Expenses 1.989.240 1.957.3.13 1.957.1 112 Total Operating Expenses 1.989.240 1.953.3.13 1.957.1 113 Total Operating Expenses 1.989.240 1.953.3.13 1.957.3.13 114 Other Expenses 1.980.566 1.989.240 1.957.3.13 1.957.2 115 Operating Expenses 1.930.566 1.989.240 1.957.3.13 1.957.2 115 Operating Expenses 1.930.566 2.280.2 2.281.2 2.280.2 1.22.280 1.280.0 1.73.130 1.957.9 4.959.9	106 COWLITZ FALLS DEBT SVC	11 619	11 583	11 571	
Sub_Fail 25,427 26,333 19,327 Non-Faderal Debt Sardes Sub_Total 520,782 570,197 554,066 111 Total Operating Expenses 1,960,566 1,899,240 1,953,313 112 Total Operating Expenses 1,960,566 1,899,240 1,953,313 113 Total Operating Expenses 1,960,566 1,899,240 1,953,313 114 Total Operating Expenses 1,960,566 1,899,240 1,953,313 115 Depreciation (actules ConAug amoritzation) 655,567 60,241 66,122 115 Dotor Expenses 2,263,560 2,277,115 2,298,372 116 LGO 2,228 2,217,115 2,398,872 117 Ancillary and Reares Sancie Rens. Total 73,133 61,970 62,275 117 Cobile and Spokane Settlements 4,800 4,800 4,800 118 Depreseine Sentice Rens. Total 73,133 61,970 62,921 82,921 119 Cobile and Spokane Settlements 4,800 4,800 4,800 <	107 WASCO DEBT SVC		1 664	2 165	
No. Federal Dath Service Sub-Tenal 526,762 570,157 554,066 Inter Expanse 1,990,566 1,899,20 1,953,313 Other Expanse 1,990,566 1,899,20 1,953,313 Other Expanse 1,990,566 1,899,20 1,953,313 Other Expanse 1,990,566 1,899,20 1,25,301 Other Expanse 1,500,00 173,313 161,572 Amotization (scillable Conducts and the second	108 Sub Total	25 427	26 333	18 927	-
Norm Study 5 JULY 191 JULY 191 <thjuly 191<="" th=""> <thjuly 19<="" td=""><td>109 Non Eaderal Debt Service Sub Total</td><td>520 792</td><td>570 107</td><td>554.000</td><td>L</td></thjuly></thjuly>	109 Non Eaderal Debt Service Sub Total	520 792	570 107	554.000	L
1111 Total Operating Expanses 1,900,566 1,809,240 1,533,313 113 Other Expanses 115,068 121,829 124,594 115 Depreciation (scillades CarAug amotization) 65,557 60,241 65,172 116 Amotization (scillades CarAug amotization) 65,557 60,241 65,172 117 Net Interest Expanses 22,268 22,210 22,255 119 LD 2,269,569 2,277,115 2,358,872 119 Expanses 2,269,569 2,277,115 2,358,872 112 Paral Expenses 2,269,569 4,000 4,000 4,000 124 Paral Expenses 12,805 12,908 12,333 3,420 3,420 3,420 3,420 3,420 3,420 3,420 3,420 3,420 3,420 3,420 3,420 3,420 3,420	100 NOI-FEUELAI DEDI SELVICE SUD-10131	520,762	570,197	554,006	L
111 Total Operating Expenses 1,900,566 1,889,240 1,953,113 111 Object Expenses 1,900,566 1,889,240 1,953,113 112 Object Expenses 119,068 121,829 1,24,594 113 Not interest Expense 155,060 173,133 182,940 114 Object Expenses 22,289 22,812 22,853 115 LOC 10,000 10,000 10,000 116 Sub-Total 380,944 397,875 405,569 117 Total Expenses 22,879 22,715 22,358,872 114 Object Expenses 22,876 22,715 22,358,872 115 Devolute and Beame Senders Rives Total 73,131 61,970 62,2715 116 Devolute and Beame Senders Rives Total 73,131 61,970 64,271 117 Colville and Spakines Settlements 4,800 4,800 4,800 118 Colville and Spakines Settlements 1,286 1,283 3,423 119 Colville and Spakines Settlements 4,200 4,500 4,500 110 Modellandous 3,423 3,423 3,423 3,423 110 Modelandous 3,423 3,423 <t< td=""><td>111</td><td></td><td></td><td></td><td></td></t<>	111				
ind Total Operating Expenses 1,900,066 1,897,400 1,953,313 ind Ohrer Expenses 1110,059 124,554 124,554 ind Ohrer Expenses 1110,059 124,554 124,554 ind Ohrer Expense 1110,059 122,823 122,453 ind Dom 22,263 22,612 122,653 ind Ohrer Expense 2,269,550 2,277,115 4,5559 ind Dom 100,00 100,00 100,00 100,00 ind Sub-Frail 2,277,115 4,2558 2,277,115 4,2558 ind Ancillary and Reserve Serice Res. Total 7,3,131 6,970 6,927	111 142 Tatal Oncosting Fouriers	1 000 500	1 000 010	4 050 040	l
111 Other Expenses 1100 1100 0 Other Expenses 1100 1100 124,594 111 Other Expenses 120,281 124,594 112 Amountation Exclusion 155,507 173,33 165,727 113 LDD 110,000 110,000 100,000 100,000 113 LDD 110,000 100,000 100,000 100,000 114 LDD 122,289 22,671 22,658,97 22,671,15 22,558,97 115 Stab-Total 380,594 337,875 405,559 22,715 405,559 115 Acollary and Rearea Service Rest. Total 73,131 61,970 62,715 40,570 116 Acollary and Rearea Service Rest. Total 12,805 12,908 12,933 44,500 45,00	112 Total Operating Expenses	1,900,566	1,889,240	1,953,313	
111 Uther Legenses 118,056 121,029 124,954 115 Depression (stcl. IthS) 118,056 121,029 124,954 116 Amontration (stcluber Conkug amotization) 85,527 80,241 65,172 116 Amontration (stcluber Conkug amotization) 85,527 80,241 65,172 117 Amontration (stcluber Conkug amotization) 100,000 110,000 110,000 118 Josephane Relation Relation Costs 100,000 100,000 100,000 118 Josephane Relation Relation Costs 100,000 100,000 100,000 118 Josephane Relation Relation Costs 2,269,560 2,277,115 2,358,872 118 Devents train Benefits and Pumping Power 8,921 8,921 8,921 8,921 118 Devents train Benefits and Pumping Power 8,924 8,921	113				
116 Depresentation (sexcibles Conkug anonization) 110,056 121,059 124,434 117 Net Interest Expense 163,080 173,139 1162,240 119 LDD Inguion Red Migation Costs 10,000 10,000 10,000 119 LDD Inguion Red Migation Costs 10,000 10,000 10,000 119 LDD Inguion Red Migation Costs 10,000 10,000 10,000 119 LDD Inguion Red Migation Costs 10,000 10,000 10,000 110 LDD Revenue Cedits 2,249,500 2,276,12 2,358,072 120 Deventam Benefits and Pumping Power 8,321	114 Other Expenses				
116 Amontization (excludes ConAug amortization) 55,557 60,241 65,172 118 LD0 12,280 12,212 22,263 119 Ingration Rate Mitigation Costs 10,000 10,000 10,000 30 Sub Total 368,394 307,197 405,559 31 Total Expenses 2,2860 2,217,115 2,358,072 32 Revenue Credits 388,394 307,197 405,559 32 Revenue Credits 2,358,074 8,271 8,271 33 Magna and Beame Sancke Reve. Total 7,313 16,1970 62,715 34 Maccillane and Devenues 4,600 4,600 4,600 34 Apport (Po) 4,200 4,600 4,600 4,600 35 Total Revenue Credits 12,865 12,808 12,233 36 Maccillaneous 3,420 3,420 3,420 37 Total Revenue Credits 116,746 117,265 116,903 38 Mainentation cost 49,005 60,001 146,903 39 Forecast Appendic Rotasta <td>115 Depreciation (excl. TMS)</td> <td>118,058</td> <td>121,829</td> <td>124,594</td> <td></td>	115 Depreciation (excl. TMS)	118,058	121,829	124,594	
117 Net Interest Expranse 163,080 173,193 1162,240 118 LOD 10,000 10,000 10,000 10,000 10,000 119 Ingation Rate Miligation Costs 10,000 10,000 10,000 10,000 10,000 119 Total Expenses 2,269,960 2,277,115 2,358,872 120 Arciclary and Resene Service Ress. Total 73,131 61,970 62,715 121 Dewnstream Bearrise Ress. Total 73,131 61,970 62,715 123 Deventeram Bearrise Ress. Total 73,131 61,970 62,715 124 Arciclary and Pessene Service Ress. Total 73,137 61,970 62,715 125 Deventeram Bearlis and Pumping Power 63,221 63,221 63,221 63,221 125 Energy Efficiency Results 1167,664 176,746 177,725 112,230 3,420 3,420 3,420 3,420 3,420 3,420 3,420 3,420 3,420 112,236 124,503 116,503 116,503 116,503 116,503 116,503 116,503 116,503 116,503	116 Amortization (excludes ConAug amortization)	55,567	60,241	65,172	
1110 LDD 22.28 22.612 22.612 22.631 110 Ingoto Rate Mitigation Cests 386.994 397.975 405.569 121 Total Reserves Service Revs. Total 2.489.960 2.277.115 2.358.872 122 Revenue Cedits 2.489.960 2.277.115 2.358.872 123 Ancilary and Reserve Service Revs. Total 73.131 61.970 62.715 124 Ancilary and Reserve Service Revs. Total 0.9707 6.927 64.970 125 Downstam 0.9270 6.927 64.900 4.900 126 FOCF 12.886 12.908 12.933 3.420 3.420 3.420 130 Miscellaneous 3.420 3.420 3.420 3.420 3.420 131 Total Revenue Cedits 187.664 176.746 177.265 177.265 133 Aurentation Costs 49.005 90.05 166.601 134 Forecast Grees Augmentation Cost 49.005 165.286 166.665 137 Fealoual augmentation cost 49.005 166.565 166.665	117 Net Interest Expense	163,080	173,193	182,940	
Impation Rate Mitigation Costs 10,000 10,000 10,000 Sub-Total 368,994 397,875 405,559 Impation Rate Mitigation Costs 2,289,560 2,277,115 2,398,872 Impation Rate Mitigation Costs 2,289,560 2,277,115 2,398,872 Impation Rate Mitigation Costs 397,875 405,559 62,715 Impation Rate Mitigation Costs 04,707 04,927 04,927 04,927 Impation Rate Mitigation Costs 12,895 12,920 3,420 3,420 Impation Rate Mitigation Costs 12,895 12,920 3,420 3,420 3,420 Impatibility Rate Mitigation Costs 117,864 117,865 117	118 LDD	22,289	22,612	22,853	
202 Sub-Total 338 394 387 275 405.569 212 Total Expenses 2,289,560 2,277,115 2,358,872 212 Ancillary and Reserves Service Revis. Total 73,131 61,970 62,715 213 Ancillary and Reserves Service Revis. Total 73,131 61,970 62,715 214 Ancillary and Reserves Service Revis. Total 73,131 61,970 62,715 215 Downsteam Benefits and Pumping Power 8,521 8,521 8,521 8,521 215 Colvine adoptanea Settlements 4,600 4,600 4,600 4,600 216 Energy Efficiency Revenues 12,885 12,968 12,933 316 Total Revenue Credits 147,664 177,765 317 Total Revenue Credits 49,005 146,003 316 Outer augmentation Costs 49,005 146,003 317 Total Revenue Credits 49,005 146,003 318 Outer augmentation Cost 49,005 146,003 319 Interest 79,203 42,972 66,641 3100 Forecaste	119 Irrigation Rate Mitigation Costs	10,000	10,000	10.000	
121 Total Expenses 2,265,560 2,277,115 2,358,872 123 Revance Credits 8,921	120 Sub-Total	368,994	387,875	405,559	
22 Arcellary and Reserve Service Revs. Total 73,131 61,970 62,715 24 Ancellary and Reserve Service Revs. Total 73,131 61,970 62,715 25 Downstream Benefits and Pumping Power 64,921 63,921 63,921 63,921 26 At(h(10)(c) 40,00 44,800 44,800 44,800 44,800 28 FCCF 12,805 12,906 12,933 3,420 3,420 31 Total Revenue Codits 3,420 3,420 3,420 3,420 31 Total Revenue Codits 187,664 176,716 177,265 31 Total Revenue Codits 49,005 70,005 44,841 31 Total Revenue Codits 49,005 70,005 44,841 32 Total Revenue Codits 49,005 70,005 44,841 33 Hours revenues 179,052 95,001 146,903 34 Processite Minior revenues 179,052 95,001 146,803 35 Uprecial Adjustementation 110,098 179,835 108,286 34 Proceste Gross A	121 Total Expenses	2,269,560	2.277.115	2.358.872	
Provenue Credite Commentation Commentat	122			-,,	
121 Arcillor yant Pesares Series Revs. Total 73.131 61.970 62.715 123 Arcillor yant Pesares Merks and Pumping Power 8.921 8.921 8.921 8.921 8.921 8.921 8.921 8.921 8.921 8.921 8.921 8.921 8.921 9.921	173 Revenue Credite				
14 Animaly air Neseries Series Tetan 17,13 01,970 02,715 25 Downstream Benefits and Pumping Power 04,707 04,827 04,676 26 Moline and Spokane Settlements 4,600 4,820 4,820 26 FCCF 1 04,077 04,827 04,676 27 Colville and Spokane Settlements 4,800 4,800 4,800 28 Energy Efficiency Revenues 12,885 12,908 12,933 30 Miscellaneous 3,420 3,420 3,420 31 Total Revenue Credits 187,664 176,746 177,746 31 Total Revenue Credits 23,024 23,024 23,024 32 Processite flow Revenues 49,005 95,001 146,903 33 Missignemitation cost 49,005 95,001 146,903 34 Hold Revenues 67,933 42,972 64,641 34 Missignemitation cost 49,005 95,001 146,903 36 Missignemitation cost 97,062 95,001 146,903 37	124 Angillery and Deceme Service Date Total	72 121	61.070	60.715	
12 Downstream Detents and Funging Power 0.22 0.321 0.321 0.321 4 Cobile and Spokane Settlements 4.000 4.000 4.000 4.000 FCCF Cobile and Spokane Settlements 12.055 12.033 12.033 Microsoftency Revenues 12.055 12.033 3.420 3.420 Microsoftency Revenues 13.425 3.420 3.420 3.420 Microsoftency Revenues 13.425 3.420 3.420 3.420 Adigmentation Costs 100 Reduction of Risk Discount (includes interest) 23.024 23.024 23.024 23.024 Costs in this box are not subject to True-Up ^{an} 23.024 23.024 23.024 23.024 Tota Revenue Credits 49.005 85.001 146.903 146.903 Minis revenues 67.933 42.972 64.6141 Minis revenues 67.933 42.937 66.530 Minis revenues 77.063 100.986 77.033 105.206 Minis revenues 67.933 42.937 66.539	124 Anchiary and Reserve Service Revs. Total	73,131	01,970	02,710	
12 4(0)(10)(2) Collisiand Spokane Settlements 94,00 4,00 <t< td=""><td>125 Downstream Benefits and Pumping Power</td><td>0,921</td><td>6,921</td><td>0,921</td><td></td></t<>	125 Downstream Benefits and Pumping Power	0,921	6,921	0,921	
12 Colling and Spokane Settlements 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 3,420 <	126 4(h)(10)(c)	04,707	04,927	04,676	
1.9.10 FUCF 12,885 12,983 12,983 130 Miscellaneous 3,420 3,420 3,420 3,420 131 Total Revenue Credits 187,664 176,746 177,265 131 Old Reduction of Nikb Discount (includes interest) 23,024 23,024 23,024 131 Old Reduction of Nikb Discount (includes interest) 23,024 23,024 23,024 131 Did Reduction of Nikb Discount (includes interest) 49,005 80,000 146,903 132 Constrain this box are not subject to Ture Up** 101,008 75,053 42,972 64,641 143 Minisure reveals 67,953 42,972 64,641 116,068 121,823 125,085 144 Internation 101,098 75,053 105,286 146,903 145,903 <t< td=""><td>127 Colville and Spokane Settlements</td><td>4,600</td><td>4,600</td><td>4,600</td><td></td></t<>	127 Colville and Spokane Settlements	4,600	4,600	4,600	
12 Energy Efficiency Revenues 12,885 12,908 12,933 13 Total Revenue Credits 3,420 3,420 3,420 13 Total Revenue Credits 187,664 176,746 177,265 13 Augmentation Costs 23,024 23,024 23,024 23,024 14 D0 Reduction of Risk Discount (includes interest) 23,024 23,024 23,024 23,024 15 Forecasted Gress Augmentation Cost 49,005 95,001 146,003 16 Residual sugmentation cost 67,993 42,972 64,641 16 Humus revenues 67,993 42,972 64,641 17 Visot of Risk Discount (includes interest) 101,998 75,053 105,286 14 Humus revenues 67,993 42,972 64,641 164,641 14 Humus revenues 101,998 75,053 105,286 172,483 185,095 14 Minimum Required Net Revenue calculation 118,058 121,629 124,594 124,594 124,593	128 FCCF				
Miscellaneous 3,420 3,420 3,420 3,420 Total Revenue Credits 187,664 176,746 177,765 Augmentation Costs. 23,024 23,024 23,024 "Costs in this box are not subject to True-Up" 23,024 23,024 23,024 "Residual augmentation Costs 49,005 7 7 7 Residual augmentation cost 97,052 95,001 145,903 145,903 Minus revenues 67,933 42,972 64,641 101,098 7,5053 105,286 Het Cost Payment of Fed Debt for Power 202,331 172,483 185,065 6,590 Minimum Required Net Revenue calculation 110,058 76,332 61,2937 64,6937 Marineum Required Net Revenue calculation 118,058 121,829 124,594 124,594 Minimum Required Net Revenue calculation 118,058 76,332 61,2937 64,5937 Minimum Required Net Revenues 57,939 22,596 31,550 155 Minimum Required Net Revenues 57,939 22,596 31,5	129 Energy Efficiency Revenues	12,885	12,908	12,933	
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IDD Annual Slice Implementation Expenses 5	166 Annual Slice Implementation Expenses				\$ 2,400.0
167 TOTAL ANNUAL SLICE REVENUES	167 TOTAL ANNUAL SLICE REVENUES				\$ 512,083.3

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9.4 Rate Design Step Adjustments

Rate design adjustments are performed sequentially in the order described in the following section.

9.4.1 Secondary and Other Revenue

Secondary and Other Revenue recognizes that BPA collects revenues from certain classes of service to which costs are not allocated and then credits these revenues to classes of service served with firm power. Projected secondary energy sales are the largest source of revenue credits.

9.4.1.1 Secondary Energy Sales

On a resource planning basis and with system augmentation, BPA forecasts sufficient firm resources available to meet firm load obligations under critical water conditions. However, rates are set assuming that better than critical water conditions will occur. For this FY 2007-08 Lookback analysis, the secondary energy sales are assumed to be the same as in the WP-07 Final Proposal. BPA projects, secondary energy sales and revenues using 50 historical water-years as determined in RiskMod. *See* Conger, *et al.*, WP-02-E-BPA-14. The projected secondary energy revenue credits are allocated to firm loads so that BPA does not recover more than its revenue requirement.

The RiskMod model is used to project the level of secondary energy sales and revenues. BPA expects to sell secondary energy that will produce \$1.749 billion in revenues over the three-year test period. *See* Lookback Documentation, WP-07-E-BPA-44A, Table 9.2.5.3 (RDS 11).

9.4.1.2 Other Revenue Credits

BPA sells firm power under FBS contract obligations and in the open market under the FPS rate
schedule. For this FY 2007-2008 Lookback analysis, the other revenue credits are assumed to be

WP-07-E-BPA-44 Page 163 the same as in the WP-07 Final Proposal. For FY 2007-2009, the forecast revenue from these sales is \$555.7 million. *See* Lookback Documentation, WP-07-E-BPA-44A, Table 9.2.5.3 (RDS 11).

9.4.1.3 Allocation of Secondary Revenue Credits

Secondary Revenue credits are functionalized to generation and classified to energy. They are then allocated to loads served with Federal system resources (FBS and new resources). The generation-related revenues are allocated in this manner because they are associated with the use of Federal system resources to serve the firm contract sales and the secondary energy service. *See* Lookback Documentation, WP-07-E-BPA-44A, Table 9.2.5.3 (RDS 11).

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9.4.2 Firm Power Revenue Deficiencies Adjustment

13 BPA sells firm power at contractual rates and in the open market under the FPS rate schedule. 14 Sales of such firm power are not necessarily made at the fully allocated costs of the power. 15 Therefore, either a revenue surplus or a revenue deficiency will result when a comparison is 16 made between the costs allocated to the firm power and the revenues received from the sale of 17 such power. BPA has determined that in the FY 2007-2009 rate period, it will receive 18 \$342.7 million in revenues from the sale of firm power in various PNW and Southwest markets. 19 See Lookback Documentation, WP-07-E-BPA-44A, Table 9.2.5.4 (RDS 17). BPA has allocated 20 \$1.879 billion in generation costs to the firm power sold. BPA has allocated no revenue credits 21 to the firm power sold. Therefore, there is a revenue deficiency of \$1.536 billion over the 22 three-year test period. This revenue deficiency is charged to all firm power (PF, IP, NR) 23 customers. See Lookback Documentation, WP-07-E-BPA-44A, Tables 9.2.5.4 (RDS 17) and 24 Table 9.2.5.5 (RDS 19).

Before the inter-rate-pool rate adjustments are made, an initial allocation to rate pools summary that includes: the COSA results, the allocation of secondary and other revenue credits, the allocation of FPS contract and FBS obligation contract revenue deficiencies is conducted. In addition, to recognize that BPA's Low Density Discount (LDD) and Irrigation Rate Mitigation Product (IRMP) will lower the revenues collected through PF Preference rate sales, an estimate of the lost revenue is added to the costs allocated to the PF rate pool. This initial allocation of costs to the individual rate pools is the starting position for the ensuing rate adjustments. *See* Lookback Documentation, WP-07-E-BPA-44A, Table 9.2.5.5 (RDS 19).

9.4.3 7(c)(2) Adjustment

DSI rates are based on sections 7(c)(1), 7(c)(2), and 7(c)(3) of the Northwest Power Act. Section 7(c)(1)(B) provides that after July 1, 1985, the DSI rates will be set "at a level which the Administrator determines to be equitable in relation to the retail rates charged by the public body and cooperative customers to their industrial consumers in the region." Pursuant to section 7(c)(2), the DSI rates are to be based on BPA's "applicable wholesale rates" to its preference customers plus the "typical margins" included by those customers in their retail industrial rates. Section 7(c)(3) provides that the DSI rates are also to be adjusted to account for the value of power system reserves provided through contractual rights that allow BPA to restrict portions of the DSI load. This adjustment is typically made through a Value of Reserves (VOR) credit. To more accurately reflect the product Power Services may purchase from the DSI customers, the name has been changed to Supplemental Contingency Reserve Adjustment (SCRA). However, for this rate case, BPA is not proposing a uniform SCRA credit to be applied against DSI rates. Please refer to Final WPRDS, WP-07-FS-BPA-05, Appendix B. Thus, the DSI rates are set equal to the applicable wholesale rate, plus the typical margin, subject to the DSI floor rate test and the outcome of the section 7(b)(2) rate test. See Sections 9.3.3.4. and 9.3.3.5.

The applicable wholesale rate is the PF rate (in combination with the NR rate if new NLSLs were projected for the test period) at the DSI load factor. The typical margin is based generally on certain overhead costs that preference customers add to BPA's price of power in setting their retail industrial rates. The methods and calculations used to determine the typical margin are discussed in detail in the Final WPRDS, WP-07-FS-BPA-05, Appendix A. The net margin is 0.573 mills/kWh and has not been changed from the original WP-07 Final Proposal. As previously stated, a zero SCRA credit is being forecast in this rate case. This net margin is added to the seasonal and diurnal PF Energy rates. These adjusted PF Energy rates and the rate for demand are applied to the DSI test period billing determinants to determine the preliminary IP rate.

The section 7(c)(2) adjustment is necessary to account for the difference between the revenues BPA expects to recover from the DSIs at the initial IP rate and the costs allocated to the DSIs. This difference, known as the 7(c)(2) delta, is allocated to non-DSI customers, primarily the PF customers. Because the allocation of the 7(c)(2) delta changes the PF rate upon which the IP rate is based, the entire process is repeated with the revised PF rate from the previous iteration until the size of the 7(c)(2) delta does not change when a successive iteration is performed. This process has been reduced to an algebraic solution. *See* Lookback Documentation, WP-07-E-BPA-44A, Table 9.2.5.6 (RDS 21).

BPA did not sell power under the IP rate schedule for this Lookback period. Therefore, the size of the 7(c)(2) delta for the Lookback period is inconsequential for ratemaking purposes.However, the calculation is shown for continuity of methodology purposes.
The rate test specified in section 7(b)(2) of the Northwest Power Act ensures that BPA's public body, cooperative, and Federal agency customers' firm power rates applied to their requirements loads are no higher than rates calculated using specific assumptions that remove certain effects of the Northwest Power Act. If the section 7(b)(2) rate test triggers, the public body, cooperative, and Federal agency customers are entitled to rate protection. The cost of this rate protection is borne by other purchasers of firm power. In order to make these cost adjustments, the PF rate is bifurcated. The two resulting rates are the PF Preference rate, which receives the rate protection, and PF Exchange rate, which pays, at least in part, the cost of the rate protection.

The Lookback Section 7(b)(2) Rate Test Study, Section 10, indicates the section 7(b)(2) rate test has triggered and the PF rate applicable to BPA's preference customers should be adjusted downward. The amount of downward adjustment needed is implemented through a reduction of the PF Preference rate. Historically, it is at this point in the ratemaking process that BPA makes three adjustments in the rate design sequence to provide this protection to its preference customers and allocate the costs of the rate protection.

First, the PF Preference customer class is given a credit, which reduces its rate by the amount of the protection indicated in the section 7(b)(2) rate test. The 3.5 mills/kWh rate test trigger results in a protection amount of \$643.1 million to PF Preference customers. The cost of providing this protection is allocated to the remaining firm power customers (PF Exchange, IP, and NR). *See* Lookback Documentation, WP-07-E-BPA-44A, Table 9.2.5.9 (RDS 30).

The second adjustment is the 7(b)(2) Industrial Adjustment. The amount of this adjustment is the value of a recalculated 7(c)(2) delta at the lower PF Preference rate. Because there is no IP load forecast for this rate period, the amount of the new 7(c)(2) delta is zero. *See* Lookback Documentation, WP-07-E-BPA-44A, Table 9.2.5.10 (RDS 33).

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WP-07-E-BPA-44 Page 167 In this Lookback analysis, there was no exchanging utility in deemer status. If there had been, a third adjustment would have been necessary to allocate an increase in the gross REP costs resulting from the bifurcation of the PF rate, causing the PF Exchange rate to be higher than the average combined rate before the bifurcation. This process is explained in the Supplemental WPRDS, WP-07-E-BPA-49, Section 3.3.6.

9.4.5 DSI Floor Rate Test

Section 7(c)(2) of the Northwest Power Act requires that the DSI rates in the post-1985 period "shall in no event be less than the rates in effect for the contract year ending June 30, 1985." Accordingly, a floor rate test is performed to determine if the proposed IP rate has been set at a level below the 1985 IP rate (the floor rate). If so, an adjustment is made that raises the IP rate to the floor rate and credits other customers with the increased revenue from the DSIs. If the proposed IP rate has been set at a level above the floor rate, no floor rate adjustment is necessary. Because the Lookback IP rate revenues are greater than the floor rate revenues, no adjustment was necessary to the IP rate. *See* Lookback Documentation, WP-07-E-BPA-44A, Tables 9.2.5.7and 9.2.5.8. With no DSI floor adjustment required, the final Rate Design Step allocations are shown in the Lookback Documentation, WP-07-E-BPA-44A, Table 9.2.5.10 (RDS 33).

9.4.6 Slice Cost Calculation

Slice customers assume the obligation to pay a percentage of BPA's costs, rather than pay a set rate per kilowatt or kilowatthour. The Slice customer's obligation to pay is equal to the percentage of the FCRPS that the Slice customer elects to purchase. The costs considered by the Slice contract are referred to collectively as the Slice Revenue Requirement. The Slice Revenue Requirement is comprised of all of the line items in BPA's Power function revenue requirement identified in this rate case with certain limited exceptions. For the calculation of the cost of the Slice product in dollars per month for each percent of the Federal system, *see* Lookback Documentation, WP-07-E-BPA-44A, Table 9.2.13 (Slice Cost).

9.4.7 **Slice PF Product Separation Step**

In the COSA and Rate Design steps, costs were allocated to the various rate pools, including the PF Preference class of service that contained all firm PF Preference load. The Slice Separation Step separates out the PF Slice product revenues, firm loads, and revenue credits from the overall PF Preference rate pool, leaving the costs that must be covered by the remaining non-Slice PF Preference load through posted PF Preference energy, demand, and load variance charges. See Lookback Documentation, WP-07-E-BPA-44A, Table 9.2.6 (SLICESEP 01).

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9.5 **Rate Analysis Results**

14 In this FY 2007-08 Lookback portion of the Supplemental Proposal, BPA is recalculating the 15 FY 2007-2008 PF Exchange rate using the costs of a traditional REP in place of the costs of the 16 REP settlements. The rate modeling described above resulted in an average PF Preference rate of 25.17 mills/kWh and a PF Exchange rate of 41.33 mills/kWh. This PF Exchange rate, when 18 applied to the backcast ASCs, produced net REP benefits averaging \$239 million per year for 19 FY 2007 and FY 2008. See Table 14.2 in this Study and Lookback Documentation, WP-07-E-BPA-44A, Table 9.2.7, Table 9.2.8, and Table 9.2.9.

10. SECTION 7(b)(2) RATE TEST STUDY, FY 2007-2008

10.1 Introduction

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This section addresses the section 7(b)(2) rate test for FY 2007-2008 Lookback analysis. Recalculations of the section 7(b)(2) rate tests are necessary to determine a base PF Exchange rates to be used in the Lookback Analysis. There are two phases of the 7(b)(2) rate test for the Lookback analysis, the FY 2002-2006 rate test and FY 2007-2009 rate test. The first rate test is discussed in Section 6. The second rate test was conducted using the data available from the WP-07 Final Proposal, with assumption changes made to reflect changed conditions due to removal of the REP settlements. Because FY 2007-2008 are within the FY 2007-2009 rate period covered by the WP-07 Final Proposal, all 7(b)(2) rate calculations in this Lookback analysis were conducted using all three years of the rate period and the ensuing four years, FY 2007-2013.

Much of the discussion of the section 7(b)(2) rate test that is presented in Section 6 is applicable to this section as well. Therefore, this Section 10 is limited to a discussion of the differences between Section 6 and this section of the Lookback Study.

The Lookback Documentation, WP-07-E-BPA-44A, Section 10, contains the documentation of the Excel models and data used to perform the 7(b)(2) rate test. The output of these spreadsheet models is also in the Lookback Documentation, WP-07-E-BPA-44A, Section 10.

10.1.1 Purpose and Organization of Study

This section of the Lookback Study is organized in the same manner as Section 6, but as applied to FY 2007-2008. Because this Study only discusses differences from Section 6, there are no further direct references to tables in Section 10 of the Lookback Documentation

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(WP-07-E-BPA-44A). However, Section 10 of the Lookback Documentation contains all of the appropriate tables that would otherwise be referenced in this Study.

10.1.2 Basis of Study

10.1.2.1 Implementation Methodology

10.1.2.1.1 Implementation Methodology: Reserve Benefits

The financial consultant was Public Financial Management.

10.1.2.1.2 Implementation Methodology: Rate Modeling

The three spreadsheet models have now been combined into one, RAM2007.

RAM2007 calculates annual Program Case rates for this FY 2007-2008 Lookback analysis for the years FY 2007-2009 and the following four years FY 2010-2013. Except for the treatment of Mid-Columbia resources and obsolete conservation resources, which have been removed from the resource stack, the ratemaking methodology of calculating rates for the Program Case of the rate test are identical to those used in calculating the rates in the WP-07 Final Proposal. Data changes between the WP-07 Final Proposal and the FY 2007-2008 Lookback have been limited to different IOU ASCs and exchange load forecasts.

10.2 Methodology

10.2.1.1.1 Rate Design

The net margin is 0.573 mills/kWh in nominal dollars.

10.2.1.1.2 Sales

For the FY 2007-2013 rate test period, no power sales to DSIs are forecast for the Program Case, and thus no DSI loads are added in the 7(b)(2) Case.

10.2.1.1.3 Financing Benefits

The financial advisor's analysis is included in the Final Section 7(b)(2) Rate Test Study, WP-07-FS-BPA-06, Appendix A . It shows that the estimated financing benefit of BPA's participation in resource acquisitions of BPA-sponsored conservation and generation resources by public utilities is 18 basis points lower than the 7(b)(2) Case without BPA backing using 25-year term financing (5.24 percent versus 5.42 percent). The financing benefit of BPA backing for conservation resources in the Program Case would be 17 and 16 basis points lower than the financing costs in the 7(b)(2) Case if financing terms of 20 and 15 years were used. This increases the financing costs for additional resources in the 7(b)(2) Case, thereby increasing the 7(b)(2) Case power cost of the 7(b)(2) Customers. For the Cowlitz Falls Project, the estimated benefit of BPA's participation is 5 basis points between an assumed revenue bond issued with and without a BPA contract for the Project.

10.3 Summary of Results

Results for the two cases are summarized in Tables 10.1 and 10.2 below.

10.3.1 Program Case

The Program Case rate for each year is based on the costs of the resources used to serve the 7(b)(2) Customers. The resource costs are then adjusted as described in Section 9. Table 10.1 below shows the projection of undiscounted nominal Program Case rates.

10.3.2 7(b)(2) Case

The annual amount to be paid by 7(b)(2) Customers for their power needs in the 7(b)(2) Case is based on the cost of FBS resources and the cost of additional resources from the 7(b)(2)(D)stack. These power costs include adjustments for reserves and financing, *i.e.*, the absence of the

reserve benefits and financing benefits implicit in the cost of power in the Program Case. The power costs are then subject to the same cost and revenue adjustment allocations as the Program Case rates. Table 10.2 below shows the projection of undiscounted nominal 7(b)(2) Case rates.

10.3.3 The Rate Test

RAM2007 performs the section 7(b)(2) rate test after it calculates the two sets of test period rates. First, the projected Program Case rates are reduced by the applicable 7(g) costs for each year. The applicable 7(g) costs are described in section 7(b)(2) as "conservation, resource and conservation credits, experimental resources and uncontrollable events." The 7(g) costs quantified for the WP-07 Final Proposal rate test are comprised of BPA's acquired and projected conservation and billing credits, energy efficiency costs, and CRC costs. The projected rates for each year then are discounted to the beginning of FY 2007 using factors based on BPA's projected borrowing rate for each year. Table 10.3 shows BPA's future borrowing rates that were used in the discounting procedure and the corresponding cumulative discount factors. The discounted rates for each case then are averaged over the test period, rounded to one decimal place, and compared (*see* Table 10.4). As shown in Table 10.4, the rate test triggers by 3.5 mills/kWh. Therefore, a rate adjustment, valued at about \$214 million per year, is required.

TABLE 10.1PROGRAM CASE RATES							
	(nominal n	nills/kWh)					
		Applicable					
Fiscal Year	Rate	7(g) Costs	Net Rate				
2007	30.11	1.74	28.37				
2008	30.23	1.72	28.51				
2009	32.15	1.77	30.38				
2010	31.79	1.81	29.98				
2011	33.48	1.78	31.70				
2012	33.28	1.73	31.55				
2013	34.94	1.76	33.18				

TABLE 10.2							
7(b)(2) CASE RATES							
(nominal mills/kWh)							
Fiscal Year 7(b)(2) Rate							
2007	31.68						
2008	22.66						
2009	23.79						
2010	25.11						
2011	25.70						
2012	24.31						
2013	26.02						

TABLE 10.3DISCOUNT FACTORS FOR THE RATE TEST

Fiscal Year	Annual BPA Borrowing Rate	Cumulative Discount Factor
2007	.0667	.9375
2008	.0698	.8763
2009	.0722	.8173
2010	.0752	.7601
2011	.0759	.7065
2012	.0757	.6568
2013	.0755	.6107

TABLE 10.4COMPARISON OF RATES FOR TEST(2002 mills/kWh)

X	Discounted Program	Discounted 7(b)(2)
Fiscal Year	Case Rate	Case Rate
2007	26.60	29.70
2008	24.98	19.86
2009	24.83	19.45
2010	22.79	19.09
2011	22.40	18.16
2012	20.72	15.96
2013	20.26	15.89
Average Rate	23.2	19.7
Difference of Ave	arage Rates 3.	5

11. BACKCAST OF IOU ASCs, FY 2007-2008

11.1 FY 2007 -2008 Backcast Overview

The purpose of this section is to estimate the annual ASC determinations that would have been made had the investor-owned utilities (IOUs) submitted ASC filings with BPA for 2007-2008.
The backcast ASC determinations described in this section generally follows the same construct described in Section 7 for FY 2002-2006.

During FY 2007, no ASC filings were made with BPA and no filings are expected during 2008 for the purpose of establishing an ASC for 2008. Such filings would have been made under an active REP had BPA and the IOUs not executed REP Settlement Agreements. Consequently, BPA must estimate annual ASCs in order to determine what REP payments the IOUs would have received for this period under an active REP. This section of the Lookback Study will describe how these ASC determinations were made and present the results. BPA calculated annual ASCs for Avista, Idaho Power, NorthWestern Energy, PacifiCorp, Portland General Electric, and Puget Sound Energy. Public utilities were not included in this review process for FY 2007-2008.

To estimate these ASCs, BPA completed a detailed financial cost review of each IOU for 2006 and escalated the 2006 costs and loads to 2007 and 2008. The results of this cost review establish an annual "backcast" ASC determination for each utility. This section will focus on the backcast determination for FY 2007-2008 only. *See also* Section 7 of this Study.

11.2 Backcast ASC Determination Process

As described in Section 7, "backcast" is BPA's term for ASCs that BPA believes would have been determined had the REP been operational during the WP-07 rate period. A backcast ASC is based on review and analysis of 2006 FERC Form 1 data. These data were entered into the updated 1984 ASC Cookbook model, as described in Section 7, to establish estimates of the ASCs for each of the IOUs for the WP-07 rate period.

BPA applied the 1984 ASCM to all utilities, with exception of not using the jurisdictional approach as the source for data, *i.e.*, data used before a regulatory commission for ratesetting purposes. Instead, cost, revenue, and load data were obtained from FERC's Uniform System of Accounts (Form No. 1 filings) for each IOU. The FERC Form 1 data populated BPA's ASC Cookbook, an Excel-based computer modeling tool. Once populated with a utility's financial data, the ASC Cookbook separates, or "functionalizes," the total costs and revenues into the production, transmission, and distribution functions, *i.e.*, to functions that may be exchanged (exchangeable costs) and to those that may not be exchanged.

A two-step process was used to estimate the backcast ASCs for 2007 and 2008. First, a "base year" ASC was calculated using the 2006 FERC Form 1 data for each of the IOUs. This base year ASC includes all the changes discussed in Section 7. Second, the ASC Forecast Model was used to escalate the 2006 base year to estimate ASCs for each IOU for 2007 and 2008.

The model is designed to forecast the costs the utility will incur to meet load growth. It forecasts
purchased power, sales for resale, fuel cost and non-fuel/purchase costs (NFPC). The ASC
Forecast Model uses inflation escalators, gas price forecasts, and electric market price forecasts
to escalate base ASC costs. In addition, the ASC Forecast Model estimates the cost of serving
forecast load growth.

11.3 2006 Base Year ASC

To establish the base year ASC, the 2006 backcast ASC was used, as described in Section 7.Table 11.1 below shows the 2006 base year ASCs and exchange load.

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1 2			2	TABI 2006 Base	LE 11.1 Year ASC	Cs			
3 4					ASC <u>(\$/MWh)</u>	Exch (M	n. Load <u>Wh)</u>		
5		Avista	a		44.47	3,7	56,579		
6		Idaho	Power		28.36	7,0.	38,389		
7		North	Western E	Energy	52.62	8	98,218		
8		Pacifi	Corp (reg	ional)	40.91	9,2	51,568		
9		Pacifi	Corp (Ore	eg.)	41.19	6,08	80,289		
10		Pacifi	Corp (Wa	sh.)	38.87	1,8.	38,386		
11		Pacifi	Corp (Idal	ho)	38.59	1,3	32,893		
12		Portla	nd Genera	al	49.72	8,04	49,271		
13		Puget	Sound		55.76	11,6	74,554		
14		-							
15	11.4 Contract	System Lo	ad and E	xchange	Load				
16	Contract System	Load is the	total cons	sumer end	-use load o	of a utility	plus 5 per	cent distri	bution
17	losses. See Section	on 7.4.4. B	PA-gener	ated load	forecasts for	or 2007 ar	nd 2008 wo	ere used fo	or
18	Contract System	Load and e	xchange l	oads. The	Contract S	System Lo	ad forecas	sts are sho	wn in
19	Table 11.2; Table	e 11.3 show	s the exch	ange load	forecasts.				
20 21 22	Table 11.2 Forecast Contract System Loads (gigawatthours)								
23		2006	2007	2008	2009	<u>2010</u>	2011	<u>2012</u>	2013
24	Avista	9,226	9,392	9,572	9,779	9,984	10,184	10,360	10,472
25	Idaho Power	14,636	15,010	15,348	15,684	16,027	16,395	16,699	16,842
26	NorthWestern	7,370	7,432	7,517	7,548	7,617	7,681	7,769	7,809
27	PacifiCorp	22,480	22,714	22,923	23,119	23,326	23,527	23,964	24,269
28	PacifiCorp-OR	14.608	14,608	14.742	14,869	15,002	15,131	15,412	15.608
29	PacifiCorp-WA	4.374	4.519	4.561	4.600	4.640	4.681	4.768	4.828
30	PacifiCorp-ID	3,498	3.587	3.620	3.651	3.684	3.715	3.784	3 832
31	Portland General	19 354	20 404	20 629	20 855	21.082	21 302	21.638	21 838
32	Puget Sound	22 146	20,101	20,029	20,000	23,002	23,302	23,669	23,876
33	- ager sound	,110	22,205	,000	,0,2	-2,1/1	_0,107	-2,009	20,070

1 2 3	Table 11.3 Forecast Exchange Loads (gigawatthours)								
4		2006	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>
5	Avista	3,757	3,824	3,897	3,981	4,065	4,147	4,218	4,264
6	Idaho Power	7,038	7,218	7,390	7,543	7,707	7,884	8,030	8,099
7	NorthWestern	898	951	962	966	975	983	994	999
8	PacifiCorp	9,252	9,287	9,372	9,453	9,537	9,619	9,798	9,923
9	PacifiCorp-OR	6,080	6,054	6,110	6,163	6,218	6,270	6,388	6,469
10	PacifiCorp-WA	1,838	1,879	1,896	1,913	1,930	1,946	1,982	2,008
11	PacifiCorp-ID	1,333	1,353	1,366	1,378	1,390	1,402	1,428	1,446
12	Portland General	8,049	8,286	8,378	8,470	8,562	8,651	8,788	8,869
13 14	Puget Sound	11,675	11,747	11,894	12,057	12,215	12,365	12,477	12,586
15	11.5 Forecast	Contract S	System Co	osts					
16	Contract System (Costs inclu	de NFPC,	fuel costs	, purchase	ed power, a	and sales for	or resale.	
17	The NFPC escalat	te 2006 bas	se year cos	sts by infla	ation. 200	6 base yea	r fuel cost	s are escal	ated
18	either by natural g	gas or, for o	coal, by 0.	5 percent.	Table 11	.4 shows the	he escalati	on rates us	sed in
19	the ASC Forecast	Model. P	urchased p	ower and	sales for r	esale are f	orecast as	described	below.
20									
21 22			Inflatio	Table n Rates ar	e 11.4 1d Price F	Forecasts			
23 24	Inflation Rates		<u>2007</u> 1.91%	<u>2008</u> 2.06%	<u>2009</u> 2.09%	<u>2010</u> 2.30%	<u>2011</u> 2.48%	<u>2012</u> 2.39%	<u>2013</u> 2.35%
25	Electricity Price Fore	cast	58.46	50.87	50.68	51.95	53.25	54.58	55.94
26 27	Gas Price Forecast		6.56	6.37	6.18	5.77	5.51	5.77	6.09
28	11.5.1 Forecast	Purchased	Power						
29	Forecasts of a util	ity's purch	ased powe	er costs are	e a functio	on of histor	rical purch	ases and g	rowth
30	of the utility's tota	al retail loa	d. The A	SC Foreca	st Model a	adds increa	ases in tota	al retail loa	ad to the
31	utility's purchased	d power, pi	riced at ma	arket price	S.				
32									

In the FERC Form 1, utilities separate purchased power by the type and length of the purchase
and also report any adjustments. The ASC Forecast Model distinguishes between long-term and

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short-term purchased power. The FERC Form 1 reports the following categories of purchased power:

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3	Requirements service (RQ) – service that the supplier plans to provide on an ongoing basis
4	(<i>i.e.</i> , the supplier includes project load for this service in its system resource
5	planning). In addition, the reliability of requirement service must be the same as, or
6	second only to, the supplier's service to its own ultimate consumers;
7	Long-term firm service (LF) – service for five years or longer, cannot be interrupted for
8	economic reasons and is intended to remain reliable even under adverse conditions
9	(e.g., the supplier must attempt to buy emergency energy from third parties to
10	maintain deliveries of LF service.)
11	intermediate-term firm service (IF) - the same as LF service expect that "intermediate-
12	term" means longer than one year but less than five years.
13	long-term service from a designated generating unit (LU) – LF service where the
14	availability and reliability of service, aside from transmission constraints, must
15	match the availability and reliability of the designated unit;
16	intermediate-term service from a designated generating unit (IU) – the same as LU service
17	expect that intermediate-term" means longer than one year but less than five years;
18	short-term service (SF) – all services where the duration of each period of commitment for
19	service is one year or less;
20	other services (OS) – services which cannot be placed in the above-defined categories, such
21	as all non-firm service regardless of the length of the contract and service from
22	designated units of less than one year;
23	exchanges of electricity (EX) – transactions involving a balancing of debits and credits for
24	energy, capacity, etc., and any settlements for imbalanced exchanges;
25	not applicable (NA) – PacifiCorp used NA for not applicable: adjustment for inadvertent
26	interchange; and

out of period adjustments (AD) – accounting adjustments or true-ups for service provided in prior reporting years.

Long term purchases include the RQ, LF, LU, IF and IU categories. It was assumed that long term purchases are constant over the forecast period; the forecast for long-term purchased power costs is the base year purchases escalated at the rate of inflation.

Short-term purchases include the OS, SF, AD, NA, and EX categories. The quantity of short-term purchases in the 2006 base year ASC is normalized to equal the average of short-term purchases from 2002-2006 for Avista, Idaho Power, Portland General and Puget Sound.
PacifiCorp's historical quantity of short-term purchases for the 2002-2003 differed substantially from the 2004-2006 purchases. Therefore, the quantity of PacifiCorp short-term purchases was averaged over 2004-2006. NorthWestern's quantity of short-term purchases for the years prior to 2006 was so significantly different from 2006 that the forecast uses the 2006 short-term purchases only.

The averaged short-term purchases are priced at the utility's 2006 average purchase price. The forecast then holds the quantity of short-term wholesale purchases constant through the forecast period and prices them at BPA's forecast market price of electricity for the years 2007-2013.

The forecast is based on the assumption that the utility is in resource balance. Therefore, annual increases in a utility's total retail load are assumed to be served through market purchases at BPA's annual forecast market price of electricity.

11.5.2 Sales for Resale Revenue Credit

In the FERC Form 1, utilities separate sales for resale by the type and length of the sale and also report any adjustments. The ASC Forecast Model distinguishes between long-term and shortterm sales for resale. The FERC Form 1 reports the same categories for sales for resale as for purchased power.

The ASC forecast assumed that the quantity of long term and intermediate term firm sales are constant for 2007-2013 and that sales revenue escalates at the rate of inflation. The quantity of short-term sales in the 2006 base year ASC is normalized to equal the average of short-term sales from 2002-2006 for Avista, Idaho Power, Portland General and Puget Sound. PacifiCorp's historical quantity of short-term sales for the 2002-2003 differ substantially from the 2004-2006 purchases. Therefore, the quantity of PacifiCorp short-term sales was averaged over 2004-2006. NorthWestern's quantity of short-term sales for the years prior to 2006 was so significantly different from 2006 that the forecast uses the 2006 short-term sales only.

The averaged short-term sales are priced at the utility 2006 average sales price. The forecast then holds the quantity of short-term wholesale sales constant through the forecast period and prices them at BPA's forecast market price of electricity for the years 2007-2013.

11.6 Contract System Costs

1	The ASC Forecast Model calculates Contract System Costs as follows:
2	Exchange Cost $_{2007} = \Sigma$ Rate Base Accounts × (1+ escalator _(by account)) × ROR
3	+ Σ Rate Base Accounts × (1+ escalator _(by account))) × Federal Income Tax Factor
4	+ Σ Expense Accounts (by account)) × (1+ escalator (by account)))
5	+ Wholesale Purchase Expense ₂₀₀₇
6	- Wholesale Sales for Resale Revenue Credit ₂₀₀₇
7	+ Cost of Load Growth

11.7 2007 - 2008 Backcast ASCs

The ASC backcasts are calculated by dividing the Contract System Costs by Contract System Load. The 2007-2008 backcast ASCs are shown in Table 11.5. The detailed ASC Forecast Model for each of the IOUs is provided in the Lookback Documentation, WP-07-E-BPA-44A.

2007 and 2008 Backcast ASC Determinations 2007 2008 ASC Exch. Load ASC Exch. Load (\$/MWh) (MWh) <u>(\$/MWh)</u> (MWh) Avista 49.80 48.28 3,824,029 3,897,357 Idaho Power 32.44 7,218,346 32.98 7,380,466 NorthWestern 51.03 974,699 51.98 982,688 9,372,307 PacifiCorp 40.11 9,286,925 41.08 PacifiCorp-OR 40.75 6,054,400 41.73 6,110,062 PacifiCorp-WA 37.18 1,879,097 38.03 1,869,372 PacifiCorp-ID 37.24 38.11 1,353,429 1,365,872 Portland General 49.04 8,469,639 47.49 8,377,545 Puget Sound 53.66 11,746,838 52.69 11,894,349

TABLE 11.5

PART THREE: LOOKBACK RESULTS

- Section 12: Lookback Results Introduction
- Section 13: Actual and Projected Settlement Benefits Paid to IOUs for FY 2002-2008
- Section 14: Residential Exchange Benefits Under the Traditional Residential Exchange Program
- Section 15: Lookback Amounts, Recovery and Disposition

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12. PART THREE – 2002-2008 LOOKBACK

12.1 **Lookback Results Introduction**

Part Three of the Lookback Study presents BPA's proposal to use the results of Part One and Part Two to compute Lookback Amounts. It further presents BPA's proposal on the return of the Lookback Amounts to preference customers.

The Lookback Amount for each IOU is the difference between the amounts paid pursuant to the REP Settlement Agreements and the amount the IOU would have received if it had signed a RPSA and participated in the REP.

Section 13 sets forth the annual amounts that each IOU received pursuant to its REP Settlement Agreement, including any amounts paid pursuant to an LRA.

Section 14 sets forth the annual amounts that each IOU would have received pursuant to an RPSA using the ASCs and PF Exchange rates developed in Parts One and Two.

Section 15 combines the results of Section 13 with the results of Section 14 to compute the Lookback Amount for each IOU, subject to certain provisions regarding deemer balances and LRA payments. Section 15 then discusses BPA's proposed methods of recapturing the Lookback Amounts from the IOUs and returning the amounts to preference customers.

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13. ACTUAL AND PROJECTED SETTLEMENT BENEFITS PAID TO IOUS FOR FY 2002-2008

13.1 Actual Settlement Benefits Paid to the IOUs

BPA paid \$2,130,099,581 in REP settlement benefits to the IOUs from November 2001 (for October 2001) through April 30, 2007 (March 2007 payment was paid in April 2007). The amounts of benefits paid to each IOU are summarized in Tables 13.1.1 through 13.1.7. *See* Lookback Documentation, WP-07-E-BPA-44A. Payments were made for FY 2002-2006 under the REP Settlement Agreements to all IOUs and under the LRAs to Puget Sound Energy and PacifiCorp. Payments made for FY 2007 were made under the 2004 Amendments to the REP Settlement Agreements, which also deferred the Reduction of Risk Discount portion of the LRAs. During the implementation of the REP Settlement Agreements and their Amendments, BPA conducted a Compliance Oversight Function to help ensure that the benefits that BPA paid the IOUs were actually paid to their residential and small farm customers. BPA prepared an annual accounting summary of the actual monthly BPA Power Bill components for each IOU. All cash payments, with the exception of the amounts paid for undertaking conservation efforts, and including the value of the sale of power to Portland General Electric Co., were included in this annual accounting. Adjustments were made until both BPA and the IOU agreed with the results, and each IOU confirmed the accuracy of BPA's accounting summary.

Annual certification statements were prepared by each IOU that summarized the beginning balance in the "balancing account," the amount of benefits received from BPA, the amount that was distributed to eligible residential and small farm customers, and the ending balance in the balancing account for the contract year. The contract year was the same as BPA's fiscal year.

The balancing account reflected the balance owed to residential and small farm consumers whenthe amount of credits distributed during the year was less than the amount of settlement benefits

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received for the year. The balancing account reflects any advances made by the IOU when the amount of settlement benefits paid to residential and small farm consumers exceeded the amount of benefits received from BPA for the year.

In addition, the benefit payments were required to be placed in an interest-bearing account until they were paid to eligible consumers. Some IOUs and their state commissions also allowed interest earned to be retained by the IOU when the level of benefits paid to retail customers exceeded the amount of Settlement benefits received from BPA.

The annual certification statements accounts for the interest owed customers and the interest kept by the IOU, if applicable. The annual certification statements contained the following affirmation statement: "By signing this certification, I affirm that all the information provided in this statement is true and correct to the best of my knowledge and belief." The annual accounting/certification statements for settlement benefits were signed by officers/officials (generally the Chief Financial Officer) of the IOUs.

After the settlement payments were suspended in May 2007, BPA prepared additional accounting summaries of other settlement benefits as follows: (1) the benefits paid to the IOUs for Conservation and Renewable efforts; (2) settlement benefits that were deferred, subsequent repayment of a portion of those deferrals along with accrued interest and the amounts written-off by some IOUs, and the remaining balances owed PacifiCorp and Puget Sound Energy on their deferral balances; and (3) accountings that summarized the "reduction of risk" activity, balances after partial write-downs as of September 30, 2006, accrued interest, payments made during FY 2007, and the remaining balances owed PacifiCorp and Puget Sound Energy for the reduction of risk contract provisions. The accounting statements covering these additional settlement aspects were reviewed and certified by the IOUs and signed by an officer/official of the company subject to the above affirmation statement.

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The summaries of benefits paid to the individual IOUs (Lookback Documentation, 2

WP-07-E-BPA-44A, Tables 13.1.1-13.1.7) include the additional payment information

calculated following the suspension of payments in May, 2007. These tables provide a complete

and accurate accounting of the total settlement benefits paid to each IOU for FY 2002-2007.

6 7 8	Table 13.1REP Settlement Benefits – FY 2002-2006(\$000)							
9 10		<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	Annual <u>Average</u>	
11 12 13 14 15 16 17	Avista Idaho Power NorthWestern Energy PacifiCorp Portland General Electric Puget Sound Energy Total	11,807 14,567 3,105 117,064 59,011 172,779 378,333	8,976 12,041 2,376 109,402 43,620 150,916 327,331	11,903 15,927 3,161 121,318 62,456 179,103 393,868	11,816 15,800 3,135 120,986 87,646 178,614 417,997	11,922 15,949 3,168 120,981 128,305 178,614 458,939	11,285 14,857 2,989 117,950 76,208 172,005 395,294	
18 19	Note that total benefits paid the IOUs for the October 2006 through March 2007 period was							
20 21	\$168.377 million.							
22 23	13.2 Projected Settlement Benefits that Would Have Been Paid to the IOUs for the Remainder of FY 2007 and FY 2008							
24	BPA also prepared a summary of the projected benefits that would have been paid to the IOUs							

for the remainder of FY 2007 and all of FY 2008. These summaries of projected benefits are

26 contained in Tables 13.2.1 through 13.2.7. These projections are used to inform the calculation

27 of Lookback Amounts as outlined in Section 15 of this Study.

Table 13.2 REP Settlement Benefits – FY 2007-2008 (\$000)					
	<u>2007</u>	<u>2008</u>	Annual <u>Average</u>		
Avista	10,561	21,005	21,044		
Idaho Power	15,866	31,578	31,629		
NorthWestern Energy	1,990	3,947	3,958		
PacifiCorp	46,285	92,584	92,579		
Portland General Electric	39,792	78,946	79,159		
Puget Sound Energy	54,155	108,324	108,319		
Total	168,649	336,385	336,689		

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14. RESIDENTIAL EXCHANGE BENEFITS UNDER THE TRADITIONAL RESIDENTIAL EXCHANGE PROGRAM

14.1 Constructing IOU REP Benefits

The Lookback analysis seeks to first answer two questions: (1) what PF Exchange rate levels would have been established for the sale of exchange power to the IOUs; and (2) what ASCs would have been established for the purchase of exchange power from the IOUs? Given the answer to those two questions, a more basic question can be answered, namely, what REP benefits would the IOUs have received in the absence of the REP settlements?

14.2 IOU REP Benefits for FY 2002-2006

The description of how BPA reconstructed the FY 2002-2006 PF Exchange rate for the sale of exchange power is presented in Sections 5.2 and 5.3 of this Study. The description of how BPA constructed the ASCs for the purchase of exchange power is presented in Section 5.1 of this Study. The analysis to determine the amount of REP benefits each IOU would have received during the Lookback period is discussed below. This part of the analysis does not address the issue of deemer account balances, which is addressed in Section 15.

Because BPA's actual revenues collected were sufficient to meet the costs of the FY 2002-2006 period, the level of actual revenues collected is the starting point of the analysis. The actual revenues collected for the rate period are then adjusted by: (1) subtracting the amount of REP Settlement Agreement Benefits paid as expressed in Section 13; (2) subtracting the net cost to BPA of furnishing power to IOUs, included in Section 13; and (3) adding the net REP benefits determined by using the recalculated base PF Exchange rate and the backcast utility ASCs and eligible exchangeable loads, as summarized below. These annual adjusted revenue amounts for each fiscal year are the "Annual Revenue Targets."

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2 If the model projects that revenues from recalculated rates fall short of the Annual Revenue 3 Targets for a year, then the base PF Preference and PF Exchange rates are increased by means of 4 a CRAC percentage increase to both rates. The CRAC increases the revenue and, in turn, 5 decreases the level of net REP benefits until the difference between the net revenues collected 6 and the Annual Revenue Target is zero. The inverse is true if revenues over-collect the Annual 7 Revenue Target. The level of Lookback REP benefits at a CRAC'd PF Exchange rate is solved 8 in the model through an intrinsic goal-seeking function. This process is described more 9 completely in Section 5.5 of this Study and in Brodie, et al., WP-07-E-BPA-58. The forecasted 10 Lookback benefits for FY 2002-2006 are outlined in Table 14.1, which is based on Post-11 Processor output, Documentation Table 5.3.6.

12 13 14	Table 14.1 Lookback REP Benefits – FY 2002-2006 (\$000)						
15 16		<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	Annual <u>Average</u>
17	Avista	14,897	8,812	25,853	12,586	15,721	15,574
18	Idaho Power	0	0	0	0	0	0
19	NorthWestern Energy	5,950	4,216	10,061	7,298	11,081	7,721
20	PAC-Oregon	0	0	17,125	22,100	5,489	8,937
21	PAC-Washington	0	0	0	0	0	0
22	PAC-Idaho	0	0	0	0	0	0
23	Portland General Electric	94,420	38,906	45,504	62,919	75,906	63,531
24	Puget Sound Energy	92,805	44,785	94,813	134,141	180,651	109,439
25	TOTALS	208,072	96,720	193,357	239,044	288,818	205,202

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27 **14.3** IOU REP Benefits for FY 2007-2008

The description of how BPA reconstructed the FY 2007-2008 PF Exchange rate for the sale of
exchange power is presented in Sections 9.2 and 9.3 of this Study. The description of how BPA
constructed the ASCs for the purchase of exchange power is presented in Section 9.1 of this

Study. Once these two pieces are constructed, the analysis to determine the amount of REP benefits each IOU would have received during the Lookback period can be conducted.

Section 9.5 instructs that the annual net IOU REP benefits for FY 2008 and FY 2009 average \$239 million. *See also* Lookback Documentation, WP-07-E-BPA-44A, Table 9.2.7, Table 9.2.8,

and Table 9.2.9. The results are summarized in Table 14.2.

Table 14.2 Lookback REP Benefits – FY 2007-2008 (\$000)

			Annual
	<u>2007</u>	<u>2008</u>	<u>Average</u>
Avista	26,594	33,008	29,801
Idaho Power	0	0	0
NorthWestern Energy	9,223	10,249	9,736
PAC-Oregon	0	2,507	1,254
PAC-Washington	0	1,573	786
PAC-Idaho	0	0	0
Portland General Electric	63,869	51,565	57,717
Puget Sound Energy	<u>144,821</u>	<u>135,110</u>	<u>139,965</u>
Totals	244,507	234,011	239,259

15. LOOKBACK AMOUNTS, RECOVERY AND DISPOSITION

15.1 Introduction

The purpose of this section of this study is to explain, in detail, how BPA arrives at the annual Lookback Amounts for each IOU and how it proposes to recover these amounts from the IOUs and distribute such recovered amounts to the COUs. In addition, it will describe how BPA proposes to establish and return amounts COUs overpaid in rates for FY 2007-2008 that are not included in Lookback Amounts. BPA's proposal is to: (1) determine the amount of overpayments to the IOUs for FY 2002-2008 period; (2) recover the overpayments, to the extent possible, from each IOU; and (3) return the overpayments to COUs.

The calculation of Lookback Amounts requires BPA to quantify the total payments to each IOU under the REP settlements, estimate the total amounts each IOU would have received under the REP in the absence of the REP Settlement Agreements, and to then calculate the appropriate differences.

Determining annual Lookback Amounts for each IOU is not a simple proposition. Several
factors affect the calculations of the Lookback Amounts. These factors include treatment of the
following:



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BPA's proposed treatment of these issues is described in detail in the following sections.

15.2 Determining the IOU Lookback Amounts for FY 2002-2008

To determine each IOU's annual and cumulative Lookback Amount, BPA created an Excelspreadsheet model that takes certain inputs, such as the REP settlement benefits (computed as described in Section 13), the REP benefits (computed as described in Section 14), and deemer account balances (including accrued interest) as of the beginning of FY 2002. In addition, the model uses certain assumptions regarding inflation and interest rates applicable to FY 2002-2008 and post-FY 2009. *See* Table 15.1 for a list of model inputs. This model is hereinafter referred to as the Lookback/Lookforward Model (LBLF Model). Tables included in this Study have been extracted from this model, unless otherwise noted.

Table 15.1Inputs for LBLF Model

1. Inputs to Model

- (a) Settlement and LRA Payments made to IOUs from FY 2002 through the first six months of FY 2007 (referred to as 2007A)
- (b) Settlement Payments that would have been made to IOUs for the last six months of FY 2007 (2007B) and for FY 2008
- (c) Recalculated REP Benefits for FY 2002-2008
- (d) FY 2002-2006 annual inflation rates used to adjust Nominal Lookback amounts to a certain year's current dollars (either 2006, 2007 or 2008);
- (e) Annual average interest rates used to accrue interest on outstanding IOU Deemer Account balances starting in FY 2002
- (f) Deemer Account balances for Avista, Idaho, and NorthWestern Energy, including accrued interest beginning in FY 2002 (PacifiCorp, Puget Sound and Portland General had no Deemer Accounts)
- (g) Whether deemer balances for each utility accrue simple or compound interest. By contract, Avista's deemer balance accrues simple interest; Idaho Power (Idaho) and NorthWestern Energy (NorthWestern) accrue compound interest
- (h) Prospective FY 2009 REP benefits for each IOU, which are then used in conjunction with assumed escalation of REP benefits to forecast REP benefits going forward to fiscal 2028

1	(i) Assumed escalation rate(s) for REP benefits								
2 3 4 5	 (j) Assumed annual average interest rate for years 2010 through 2028 (which is currently set at the daily twenty-year daily average T-bill rate for 2002 through fiscal 2007). This input is used to accrue interest on unpaid Lookback balances starting FY 2010 								
6	(k) Scenario Analysis Inputs								
7 8	(1) Whether or not to adjust the Nominal Lookback Amounts for inflation to the input reference year's dollars								
9 10	(2) The year through which to adjust the Nominal Lookback Amounts for inflation, which can be 2006, 2007 or 2008								
11 12	(3) The amount of the Cap on aggregate IOU REP benefits. Each utility's share of this Cap is proportional to its share of the calculated FY 2009 REP Benefits								
13 14	(4) A minimum percentage of REP benefits allowed each IOU until the computed Lookback Amounts have been amortized								
15	2. Model switches that select scenario parameters								
16 17	 (a) Turn on/off the escalation of the 2002-2006 Lookback Amounts from nominal dollars into 2006, 2007 or 2008 dollars 								
18	(b) Turn on/off the workoff of Deemer Balances during the 2002-2008 time period								
19 20 21 22	 (c) Turn on/off each utility's REP benefit Cap (in 1.k.3 above) to determine the annual set off of its Lookback Amount balance; and turn on the use of the minimum REP benefits to be received 								
23	15.2.1 Treatment of Deemer Accounts								
24	15.2.1.1 Overview of Treatment of Deemer Amounts								
25	BPA's 1981 RPSAs established what was called a "deemer account." In the event that an								
26	exchanging utility's ASC fell below the applicable PF Exchange rate, rather than pay BPA, the								
27	utility would accumulate a balance in a deemer account based on the difference between its ASC								
28	and the PF Exchange rate multiplied by the utility's eligible exchange load. The 1981 RPSA								
29	provided that any obligations incurred under that RPSA would continue until satisfied, even if								
30	the RPSA expired. The RPSA also provided that the utility must repay its deemer balance before								
31	receiving any positive REP benefits. Idaho Power, NorthWestern Energy, and Avista								
32	Corporation all had deemer balances as of October, 2000.								
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BPA proposes that its determination of the amount of REP benefits that would have been provided to an IOU in the absence of the REP Settlement Agreements must account for a utility's deemer balance. Specifically, BPA proposes that any REP benefits that an IOU with a deemer balance would have received will first be used to extinguish its deemer balance before being compared to the REP settlement benefits to establish a Lookback Amount for that IOU. Under BPA's proposal, annual REP benefits that NorthWestern Energy and Avista would have received for FY 2002-2007 must be applied first to their respective deemer balances until they are exhausted. Using this approach, NorthWestern extinguishes its deemer in FY 2005 and Avista in FY 2007. Idaho Power's deemer balance requires a different treatment described below.

15.2.1.2 Calculation of Deemer Balances

Deemer balances are calculated based on the terms and conditions of the 1981 RPSAs and subsequent agreements.

Avista's agreement stated that interest on deemer balances would not compound; therefore, interest is calculated only on the initial deemer balance (or remaining balance thereof) and not on the interest that has accrued. In applying REP benefits to Avista's deemer balances, benefits are first applied against the accumulated interest component of the total deemer balance. Once the interest component is zeroed out, remaining benefits apply against the principal component.

NorthWestern's (formerly Montana Power Company) agreement specified that interest would compound, so the determination of interest on the balances for Lookback purposes is done accordingly. When the agreement specifies compounding of interest, no distinction is needed between the initial deemer principal amount and the interest component.

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Idaho Power's agreement specified that interest would compound.

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The agreements specified the same rate of interest on deemer accounts for all companies. The interest rate is the Federal Reserve Board, H.15 Selected Interest Rates, bank prime loan rate. Interest rates are fixed for each quarter beginning October, January, April, and July. The rates are determined by averaging the prime rates (to hundredths of a percent) for the second, third and fourth months prior to each quarter. For example, the interest rate for the quarter beginning October 2007 would be set equal to the average of the prime rates for August, July, and June 2007.

Tables 15.2 and 15.3 show how REP benefits were applied to deemer balances for Avista and NorthWestern, respectively. Idaho Power's deemer balance is determined outside the LBLF Model using the same monthly calculation approach used to determine its deemer balance prior to October 1, 2001.

15.2.1.3 Individual Utility Results

15.2.1.3.1 Avista Deemer Treatment

Table 15.2 shows how the deemer balance was used to compute REP benefits for Avista. First, Avista's outstanding start-of-year deemer balance is stated on the first line of the table. Next, pre-deemer REP benefits (as discussed in Section 14 of this Study) is shown on the second line of the table. This amount is applied to the outstanding deemer balance until the deemer balance is reduced to zero.

Because Avista's agreement called for a simple interest computation, the pre-deemer REP benefits are applied first to the deemer interest balance and then, if there are any remaining benefits due, to the principal balance. Interest is then computed on the new principal balance, excluding any previously accrued interest. Interest accruals use a mid-year convention.

The result of the application of pre-deemer REP benefits and accrued interest is the end-of-year
deemer balance. Once the deemer balance is paid to zero in FY 2007, Avista begins realizing
REP benefits that can be used to offset REP settlement benefits. Table 15.2 is a summary of the
results of the full calculation, shown in the Lookback Documentation, WP-07-E-BPA-44A,
Table 15.1.

Table 15.2Avista Deemer Treatment(millions of dollars)

	<u>2002</u>	2003	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007A</u>	<u>2007B</u>	<u>2008</u>	<u>Total</u>
SOY Deemer Balance	85.58	72.85	65.79	41.52	30.64	16.46	3.53	0.00	
REP Benefits	14.90	8.81	25.85	12.59	15.72	13.30	13.30	33.01	137.47
Applied to Deemer	14.90	8.81	25.85	12.59	15.72	13.30	3.53	0.00	94.70
Interest Accrued	2.16	1.76	1.58	1.71	1.54	0.37	0.00	0.00	9.12
EOY Deemer Balance	72.85	65.79	41.52	30.64	16.46	3.53	0.00	0.00	
REP Benefits Earned	0.00	0.00	0.00	0.00	0.00	0.00	9.76	33.01	42.77
Interest Rate Applied	5.49%	4.47%	4.02%	5.01%	7.01%	8.21%	8.25%	8.25%	

15.2.1.3.2 NorthWestern Deemer Treatment

Table 15.3 shows how the deemer balance was used to compute REP benefits for NorthWestern Energy. First, NorthWestern's outstanding start-of-year deemer balance is stated on the first line of the table. Next, pre-deemer REP benefits (as discussed in Section 14 of this Study) are shown on the second line of the table. This amount is applied to the outstanding deemer balance until the deemer balance is reduced to zero.

NorthWestern's agreement allowed compound interest. Therefore, the pre-deemer REP benefits
can be applied to the total deemer balance. Interest is then computed on the new principal
balance, using a mid-year convention. The result of the application of pre-deemer REP benefits
and accrued interest is the end-of-year deemer balance. Once the deemer balance is paid to zero
in FY 2005, NorthWestern begins realizing REP benefits that can be used to offset REP
settlement benefits. Table 15.3 is a summary of the results of the full calculation, shown in the
Lookback Documentation, WP-07-E-BPA-44A, Table 15.2.

1 2 3	Table 15.3 NorthWestern Deemer Treatment (millions of dollars)										
4		<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007A</u>	<u>2007B</u>	<u>2008</u>	<u>Total</u>	
5 6 7 8 9 10	SOY Deemer Balance REP Benefits Applied to Deemer Interest Accrued EOY Deemer Balance Benefits Earned	19.52 5.95 5.95 0.91 14.48 0.00	14.48 4.22 4.22 0.55 10.81 0.00	$10.81 \\ 10.06 \\ 10.06 \\ 0.23 \\ 0.98 \\ 0.00$	0.98 7.30 0.98 0.00 0.00 6.31	$\begin{array}{c} 0.00 \\ 11.08 \\ 0.00 \\ 0.00 \\ 0.00 \\ 11.08 \end{array}$	0.00 4.61 0.00 0.00 0.00 4.61	0.00 4.61 0.00 0.00 0.00 4.61	$\begin{array}{c} 0.00 \\ 10.25 \\ 0.00 \\ 0.00 \\ 0.00 \\ 10.25 \end{array}$	58.08 21.21 1.69 36.87	
11 12	Interest Rate Applied	5.49%	4.47%	4.02%	5.01%	7.01%	8.21%	8.25%	8.25%		

15.2.1.3.3 Idaho Deemer Treatment

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In calculating the Lookback Amount for Idaho Power, the results show Idaho Power did not
qualify for REP benefits during FY 2002-2008 due to its low ASC. Therefore, it is assumed that
Idaho Power would not have signed an RPSA in 2000 and that the only change to its deemer
balance during FY 2002-2008 is the continuing accumulation of interest on the deemer balance.
As a result, Idaho Power's Lookback Amount is equal to the REP settlement benefits it received.
Idaho Power's deemer balance as of October 1, 2007, was \$243.66 million.

15.2.2 Recalculated REP Benefits Limited to REP Settlement Payments

A second condition is proposed on the calculation of the amount to be recovered from each IOU for FY 2002-2008. For purposes of calculating the Lookback Amount for each utility, an IOU cannot receive more in REP benefits under an RPSA than it received, or would have received, under the REP settlements. This condition is applied on an annual basis.

15.2.3 Treatment of the Load Reduction Agreements

As described in Bliven, *et al.*, WP-07-E-BPA-52, the LRAs with PacifiCorp and Puget Sound
Energy are contracts wherein BPA bought back power from the two IOUs during FY 2002-2006
to limit BPA's exposure to the high and volatile market prices of the West Coast energy crisis.
Challenges to these Agreements were dismissed by the Ninth Circuit as untimely and moot.

This proposal treats these arrangements as enforceable agreements for purposes of calculating Lookback Amounts. Consequently, the Lookback analysis proposes the following treatment for the LRA payments. First, the LRA payments are included as part of the total calculation of REP settlement benefits paid to PacifiCorp and PSE. Next, PacifiCorp and PSE are allowed to retain the lesser of the total REP Settlement payments received or the recalculated REP benefits the utilities would have received, but not less than the amount of the LRA payments. By taking this approach, BPA's proposal effectively treats the LRA payments to PacificCorp and PSE as "protected" payments that are not subject to recovery through the Lookback.

15.2.4 Treatment of the Reduction of Risk Discount

In *Snohomish*, the Court determined that the Reduction of Risk Discount was actually a part of the REP Settlement Agreements. *See* Bliven, *et al.*, WP-07-E-BPA-52. In the Lookback analysis, the Reduction of Risk Discount payments are treated in the same manner as payments made under the REP Settlement Agreements. Payments that were made, or would have been made, to PacifiCorp and PSE for the Reduction of Risk Discount are not "protected" and are therefore included in the calculation of the settlement benefits.

15.2.5 Results

The rules stated above are applied on an annual basis to calculate the annual Lookback Amounts for each IOU for FY 2002-2008. In the Lookback analysis, the annual Lookback Amounts for FY 2002-2006 are escalated to 2007 dollars in order to adjust for the effects of inflation. *See* Bliven, *et al.*, WP-07-E-BPA-52. Table 15.4 shows the resulting cumulative Lookback Amounts for each IOU, in 2007 dollars for FY 2002-2007.

1 2 3	Table 15.4 Proposed Lookback Amounts (millions of 2007 c)	s for FY 2002-2007 lollars)							
4	Avista	62.14							
5	Idaho Power	96.56							
6	NorthWestern Energy	7.69							
7	PacifiCorp	239.41							
8	Portland General Electric	64.13							
9	Puget Sound Energy	150.55							
0	Total	620.48							
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2	Portland General's amounts in the Lookback analysis i	nclude a valuation of Portland General's							
3	Subscription Agreement power purchases for FY 2006	of \$75,048,885 informally provided to							
4	BPA by Portland General on December 18, 2007. On	February 12, 2008, Portland General							
5	provided BPA with its "official" annual certification st	atement, which included a revised							
6	valuation for this power of \$89,795,329. BPA did not have time to incorporate this revised								
7	information into this Lookback analysis. This revised valuation will be incorporated into BPA's								
8	final Supplemental Proposal. See Section 13 for additional information regarding valuation of								
9	the Portland General Subscription Agreement power purchase.								
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1	In FY 2007, IOUs were paid \$168.4 million in REP set	ttlement benefits prior to suspension of							
2	payments following the Court's May 2007 rulings. Th	e Lookback analysis indicates that							
3	\$185.9 million in REP settlement benefits should have	been provided to the IOUs for FY 2007.							
4	The difference between these amounts, \$17.5 million of	of additional REP benefits for the IOUs, is							
5	reflected in the calculation of the \$620.5 million total I	Lookback Amount shown in Table 15.4.							
6	Therefore, the IOUs, with the exception of Idaho Powe	er, receive the benefit of the \$17.5 million							
7	in the form of reduced Lookback Amounts.								
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Table 15.4 shows cumulative Lookback Amounts for each IOU assuming that BPA offers, and qualifying IOUs sign, Residential Exchange Interim Relief Agreements (Interim Agreements).

If offered and signed, these Interim Agreements would provide interim payments to IOUs for FY 2008. These interim payments are subject to a true-up to the REP benefits IOUs are allowed to keep for FY 2008 determined in this Supplemental Proceeding. The true-up (additional payments by BPA to IOUs or return of a portion the Interim Agreement payments by IOUs to BPA) will be governed by the terms and conditions of the Interim Agreements. The Supplemental Proposal indicates that the amount of FY 2008 REP benefits IOUs are allowed to keep is \$188.9 million.

In the absence of Interim Agreements, no vehicle exists by which to deliver REP benefits to the IOUs in FY 2008. In this instance, or if an IOU does not sign an Interim Agreement, the unpaid REP benefits are proposed to be rolled into the respective utility's Lookback Amount, which reduces the aggregate Lookback Amount by \$188.9 million.

Tables 15.5 through 15.11 summarize the annual and cumulative Lookback calculations for eachIOU. The Total column in these tables is the cumulative Lookback Amount from 2002 through2007B. These tables are extracted from Lookback Documentation, WP-07-E-BPA-44A,Table 15.3. Table 15.3 includes detailed footnotes that describe how line item amounts arecalculated or used to determine Lookback Amounts in a given year.

9 0 1	Table 15.5 Avista Lookback Amount Computation (millions of dollars)										
2		<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007A</u>	<u>2007B</u>	<u>2008</u>	<u>Total</u>	
3	Settlement Payments	11.81	8.98	11.9	11.82	11.92	10.58	0	0	67.01	
4	Unpaid Settlement	0	0	0	0	0	0	10.56	21.01	10.56	
5	REP Benefits	0	0	0	0	0	0	9.76	33.01	9.76	
6	Amount Kept	0	0	0	0	0	0	9.76	21.01	9.76	
78	nominal\$ Lookback	11.81	8.98	11.9	11.82	11.92	10.58	-9.76	-21.01	57.24	
	2007\$ Lookback	13.54	10.08	12.99	12.49	12.22	10.58	-9.76	-21.01	62.14	
1 2		Idal	ho Powe	Ta r Lookba	ble 15.6 ack Amo	unt Con	putation	1			
----------	---------------------	-------------	---------	----------------	---------------------	---------	--------------	--------------	-------------	--------------	
3				(millio	ns of doll	ars)					
4		<u>2002</u>	2003	<u>2004</u>	<u>2005</u>	2006	<u>2007A</u>	<u>2007B</u>	<u>2008</u>	<u>Total</u>	
5	Settlement Payments	14.57	12.04	15.93	15.80	15.95	15.89	0	0	90.18	
6	Unpaid Settlement	0	0	0	0	0	0	15.87	31.58	15.87	
7	REP Benefits	0	0	0	0	0	0	0	0	0	
8	Amount Kept	0	0	0	0	0	0	0	0	0	
9	nominal\$ Amount	14.57	12.04	15.93	15.80	15.95	15.89	0	0	90.18	
10 11	2007\$ Lookback	16.71	13.52	17.39	16.71	16.35	15.89	0	0	96.56	

Table 15.7 NorthWestern Lookback Amount Computation (millions of dollars)

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15		<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007A</u>	<u>2007B</u>	<u>2008</u>	<u>Total</u>
16	Settlement Payments	3.11	2.38	3.16	3.14	3.17	2.00	0	0	16.94
17	Unpaid Settlement	0	0	0	0	0	0	1.99	3.95	1.99
18	REP Benefits	0	0	0	6.31	11.08	4.61	4.61	10.25	26.62
19	Amount Kept	0	0	0	3.14	3.17	2.00	1.99	3.95	10.29
20	nominal\$ Lookback	3.11	2.38	3.16	0	0	0	-1.99	-3.95	6.65
21	2007\$ Lookback	3.56	2.67	3.45	0	0	0	-1.99	-3.95	7.69
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Table 15.8 PacifiCorp Lookback Amount Computation (williams of dollars)

(millions of dollars)

26		<u>2002</u>	2003	<u>2004</u>	2005	<u>2006</u>	<u>2007A</u>	<u>2007B</u>	<u>2008</u>	Total
27 28 29 30 31 32	Settlement Payments Unpaid Settlement REP Benefits Amount Kept nominal\$ Lookback 2007\$ Lookback	37.85 0 79.22 37.85 43.4	26.26 0 83.14 26.26 29.49	37.95 0 17.12 83.37 37.95 41.42	37.85 0 22.1 83.14 37.85 40.02	37.85 0 5.46 83.14 37.85 38.79	46.29 0 0 46.29 46.29	$ \begin{array}{c} 0 \\ 46.29 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{array} $	0 92.58 4.08 4.08 -4.08 -4.08	224.04 46.29 44.68 412 224.04 239.41
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Table 15.9 Portland General Lookback Amount Computation

(millions of dollars)

37		2002	2003	2004	2005	2006	<u>2007A</u>	<u>2007B</u>	2008	Total
38 39	Settlement Payments Unpaid Settlement	59.01 0	43.62 0	62.46 0	87.65 0	113.56 0	39.47 0	0 39.79	0 78.95	405.76 39.79
40	REP Benefits	94.42	38.91	45.50	62.92	75.91	31.93	31.93	51.56	381.52
41	Amount Kept	59.10	38.91	45.50	62.92	75.91	31.93	31.93	51.56	64.13
42	nominal\$ Lookback	0	4.71	16.95	24.73	37.65	7.53	-31.93	-51.56	59.64
43	2007\$ Lookback	0	5.29	18.50	26.14	38.59	7.53	-31.93	-51.56	64.13
44										

1 2 3	Table 15.10 Puget Sound Lookback Amount Computation (millions of dollars)									
4		<u>2002</u>	<u>2003</u>	2004	<u>2005</u>	<u>2006</u>	<u>2007A</u>	<u>2007B</u>	<u>2008</u>	<u>Total</u>
5	Settlement Payments	56.11	28.42	56.27	56.11	56.11	54.15	0	0	307.18
6	Unpaid Settlement	0	0	0	0	0	0	54.15	108.32	54.15
7	REP Benefits	92.80	44.79	94.81	134.14	180.65	72.41	72.41	135.11	692.02
8	Amount Kept	116.67	122.50	122.84	134.14	178.61	54.15	54.15	108.32	783.06
9	nominal\$ Lookback	56.11	28.42	56.27	44.47	0	0	-54.15	-108.32	131.12
10 11	2007\$ Lookback	64.35	31.91	61.42	47.02	0	0	-54.15	-108.32	150.55

Table 15.11 **Composite Lookback Amount Computation** (millions of dollars)

15		2002	2003	2004	2005	<u>2006</u>	<u>2007A</u>	<u>2007B</u>	2008	<u>Total</u>
16	Settlement Payments	182.45	121.69	187.67	212.36	238.56	168.38	0	0	1,111.10
17	Unpaid Settlement	0	0	0	0	0	0	168.65	336.39	168.65
18	REP Benefits	187.22	83.69	157.44	225.47	273.10	108.96	118.72	234.01	1,270.52
19	Amount Kept	254.89	244.54	251.71	283.33	340.82	88.08	97.84	188.92	1,561.23
20	nominal\$ Lookback	123.44	82.79	142.16	134.66	103.37	80.29	-97.84	-188.92	568.87
21	2007\$ Lookback	141.56	92.96	155.17	142.39	105.95	80.29	-97.84	-188.92	620.48
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15.3 **Recovery of IOU Lookback Amounts**

Because the IOUs have already passed through to their residential and small farm customers the payments made under the REP settlements, BPA proposes to recover Lookback Amounts from the IOUs by reducing future REP benefits determined to be otherwise due them. The amount of the reduction in benefits for the relevant rate period will be determined by the Administrator in each rate proceeding. This reduction is achieved by establishing a limit on the REP benefits to be paid each year. Each IOU would receive payments up to its respective REP benefit limit.

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15.3.1 REP Benefit Annual Limit

32 Given that REP benefits are determined, in part, by actual exchange loads as they occur, it is 33 possible for actual REP benefits paid to be less than the REP benefit limit established for the rate 34 period. The reduction in the amounts of REP benefits that would have otherwise been provided, 35 which is equal to the calculated REP benefits capped at the REP benefit limit, shall be the actual 36 amount credited against each IOU's remaining Lookback Amount. This approach allows for

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each IOU's Lookback Amount to be tracked over time. The approach would continue, as needed, each month until each IOU has repaid its total Lookback Amount, including accrued interest. The REP benefit limits proposed for FY 2009 are based on the intent to fully amortize each IOU's Lookback Amount within 20 years or less, with the exception of Idaho Power. The assumptions and proposal for Idaho Power are described in more detail below.

BPA proposes to establish each IOU's REP benefit limit for FY 2009 by proportionally reducing each IOU's FY 2009 REP benefits such that the aggregate payment limit is \$210 million, before consideration of deemer obligations. The FY 2009 pre-limit REP benefits are described in Brodie, et al., WP-07-E-BPA-70 and shown in the Supplemental WPRDS Documentation, WP-07-E-BPA-49A, Table 2.9. The adjustment for deemer obligations reduces the total REP benefits included in proposed FY 2009 rates to \$202.3 million. Table 15.12 summarizes FY 2009 REP benefits, before and after application of REP benefit limits, and the adjustment for deemer obligations. It also shows the expected amount of Lookback obligations remaining at the end of FY 2009, including interest as described below.

Table 15.12 Summary of FY 2009 REP Benefits (millions of dollars)

FY 2009	REP Benefits	REP Benefits	Expected	FY 2010
Pre-Limit	at Limit	at Limit	REP Benefits	Unamortized
REP	before Deemer	after Deemer	applied to	Lookback
Benefits	<u>Adjustment</u>	<u>Adjustment</u>	Lookback	Amount (Est)
27.8	23.3	23.3	4.5	60.7
9.2	7.7	0.0	0.0	101.4
7.6	6.4	6.4	1.2	6.8
50.8	42.7	42.7	8.1	243.1
54.6	45.8	45.8	8.8	58.4
100.2	84.1	84.1	16.1	141.6
250.2	210.0	202.3	38.7	612.0
	FY 2009 Pre-Limit REP <u>Benefits</u> 27.8 9.2 7.6 50.8 54.6 100.2 250.2	FY 2009 REP Benefits at Limit REP before Deemer Benefits Adjustment 27.8 23.3 9.2 7.7 7.6 6.4 50.8 42.7 54.6 45.8 100.2 84.1 250.2 210.0	FY 2009 Pre-Limit REP BenefitsREP Benefits at Limit before DeemerREP Benefits at Limit after DeemerBenefits 27.8Adjustment 23.3Adjustment 23.39.27.70.07.66.46.450.842.742.754.645.845.8100.284.184.1250.2210.0202.3	$\begin{array}{c ccccc} FY\ 2009 & REP\ Benefits \\ Pre-Limit \\ REP \\ before\ Deemer \\ 27.8 \\ 27.8 \\ 23.3 \\ 23.3 \\ 23.3 \\ 23.3 \\ 23.3 \\ 4.5 \\ 9.2 \\ 7.7 \\ 0.0 \\ 0.0 \\ 7.6 \\ 6.4 \\ 6.4 \\ 1.2 \\ 50.8 \\ 42.7 \\ 42.7 \\ 8.1 \\ 54.6 \\ 45.8 \\ 45.8 \\ 100.2 \\ 84.1 \\ 84.1 \\ 16.1 \\ 250.2 \\ 210.0 \\ 202.3 \\ 38.7 \\ \end{array}$

15.3.2 Accrual of Interest

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BPA proposes that remaining Lookback balances should accrue interest. The rate of interest will be determined each rate period. The interest rate proposed for FY 2009 is 5.03 percent. This rate is the average daily 20-year Treasury bill rate for the period starting October 1, 2001, and ending September 30, 2007. In the WP-10 rate proceeding, the unamortized Lookback obligations will be increased by the accrued interest. The procedures used to apply the interest to the unamortized Lookback obligations will be determined in that rate proceeding.

15.3.3 Recovery of the Lookback Amounts: the LBLF Model

Table 15.4 shows the proposed Lookback Amount for each IOU. Table 15.11 shows the expected Lookback Amount for each IOU after FY 2009. Circumstances differ among the 12 utilities, and the calculations of annual Lookback Amounts reflect these differences. Avista, 13 NorthWestern and Idaho Power all had outstanding deemer balances as of October 2001. 14 Calculation of their annual Lookback Amounts therefore reflects the treatment of deemer 15 balances described in Section 15.2.1. All IOUs are subject to the settlement payments cap 16 described in Section 15.2.2, as modified by the treatment of LRA payments described in Section 15.2.3.

The LBLF model, see Section 15.2, includes the capability to look forward in a simplistic manner to assess the potential amortization of each IOU's Lookback Amount through time. The LBLF model can use either an externally produced stream of REP benefits, or it can generate an escalated stream of REP benefits through FY 2028. See Table 15.1, points 1.h through 1.k.

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25 The individual IOU REP benefit limits, combined with two simple assumptions, result in all IOUs, except Idaho Power, amortizing their respective Lookback Amounts within 20 years or less. The first assumption is that each IOU's FY 2009 REP benefit amount will increase by

2.5 percent per year (as a consequence of growth in eligible exchange loads and/or increases in
 IOU ASCs and/or changes in PF Exchange rates, none of which is specifically forecast or
 otherwise modeled). Second, interest accrues on unamortized Lookback balances at the rate of
 5.03 percent per year. Table 15.13 shows the year that Lookback Amounts are fully amortized
 based on the simple assumptions above, with the exception of Idaho Power.

Table 15.13Projected Year Lookback Amountsare Fully Amortized

Avista	2019
Idaho Power	not amortized
NorthWestern Energy	2014
PacifiCorp	2027
Portland General Electronic Electronic Control	ric 2015
Puget Sound Energy	2016

15.3.4 Recovery of the Lookback Amounts: Idaho Power

Idaho Power has a deemer balance at the end of FY 2007 of approximately \$243.7 million. Assuming that Idaho Power executes an RPSA for FY 2009 and beyond, BPA proposes to apply a comparable treatment to Idaho Power's deemer obligation as that used for Avista and Northwestern in determining their Lookback Amounts. That is, BPA will apply any pre-limit REP benefits for FY 2009 as an offset to reduce Idaho Power's deemer balance. For FY 2009, Idaho would receive credit for the full REP benefit, expected to be about \$9.2 million, against their deemer obligation. Only when Idaho Power's deemer balance is extinguished would REP benefits be available to amortize its Lookback Amount and to provide REP benefits are used to first pay down its deemer obligation, under the simple projections outlined above, Idaho Power will not fully amortize its Lookback Amount by 2028. A more rigorous projection of Idaho Power's future conditions, including higher load growth than the other IOUs, could result in a reasonable expectation that Idaho Power might fully amortize its Lookback Amount by 2028. BPA acknowledges that Idaho Power disputes its current deemer balance. BPA further recognizes that Idaho Power has requested that BPA consider the possibility of settling this dispute prior to or concurrent with the offer of a new RPSA. To the extent that BPA engages in such discussions with Idaho Power, it will do so outside this 7(i) proceeding.

15.4 **Return of FY 2002-2006 Overcharges to COUs**

As constructed in this determination, the FY 2002-2006 Lookback Amounts constitute the entirety of the amount of REP settlement costs inappropriately included in the rates to COUs in response to the Golden NW remand. BPA proposes to return Lookback Amounts to the COUs by reducing future REP benefits paid to IOUs. The implementation of REP benefit limits described in Section 15.3.1 results in lower PF Preference rates for FY 2009 and beyond until Lookback Amounts are fully amortized. Specifically for FY 2009, \$202.3 million in REP benefits is included in determination of the FY 2009 PF Preference rate. The lower FY 2009 PF Preference rate results from the application of a portion of the REP Benefits due to reduce Lookback Amounts and the set off of Idaho Power's deemer balance.

The \$40.2 million reduction in REP benefits included in the PF Preference rate is the first installment in returning Lookback Amounts to COUs. Additional installments will be included in future rates. In this way, COUs are being compensated for the amounts they were overcharged due to the REP settlement costs that were inappropriately included in rates for COUs.

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15.5 **Return of FY 2007-2008 Overcharges to COUs**

24 For FY 2007-2008, REP settlement costs have been and continue to be included in preference customer rates. However, BPA suspended settlement payments to the IOUs in May 2007, and will have accumulated \$505 million in unpaid REP settlement costs as cash in its reserves by the end of October 2008 (when the September payment would have been made). Since this cash isin the BPA Fund, return of FY 2007-2008 overcharges to COUs is not contingent on reductionsin future REP benefits paid to IOUs, as is the case for the Lookback Amounts.

BPA proposes to return the amounts that COUs were overcharged in the PF Preference rate for
FY 2007-2008 plus the \$17.5 million owed but not paid to IOUs described in Section 15.2.5 by
providing cash payments (or cash equivalent, under certain circumstances, as described below) to
the COUs in FY 2008 and/or FY 2009. For FY 2007, \$337.0 million in REP settlement costs
were included in the PF Preference rate. *See* Table 13.2 in this Study. The Lookback analysis
has calculated that the total IOU REP benefits for FY 2007 are \$227.7 million. *See* Table 15.11.
After application of the Lookback rules discussed in Sections 15.2.1 and 15.2.2, the REP benefits
IOUs get to keep for FY 2007 are \$185.9 million. BPA proposes to refund the difference
between \$337.0 million and \$185.0 million, or \$151.1 million, to COUs for FY 2007.

In addition, as noted above, \$168.4 million of the \$185.9 million in REP benefits the IOUs get to keep has been paid to IOUs in FY 2007. BPA has included the difference between what IOUs have already been paid and the REP benefits they get to keep, \$17.5 million, in the FY2002-2007 Lookback Amounts. Including the \$17.5 million in the Lookback Amount (as a reduction to what the Lookback Amount would be absent including this amount) returns it to the IOUs, but is not a cash cost to BPA. BPA proposes to include the \$17.5 million as additional cash in the amount paid to COUs rather than retain it in cash reserves. This makes the total amount proposed to be repaid to the COUs for FY 2007 equal \$168.6 million.

For FY 2008, \$336.4 million in REP settlement costs were included in the PF Preference rate.As seen in Table 15.11, BPA proposes that \$188.9 million in REP benefits should be provided to the IOUs. Therefore, BPA proposes to pay COUs the difference between \$188.9 million and

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1	\$336.4 million, or \$147.5 million, as a return of their overcharg	ges for FY	2008. The total
2	amount to be returned to COUs for FY 2007-2008 is therefore	\$316.1 mil	lion.
3			
4	BPA proposes the following methodology to determine the non	-Slice and	Slice portions of the
5	\$316.1 million. First, the \$316.1 million is divided between no	on-Slice an	d Slice purchasers on a
6	77.3722 percent / 22.6278 percent basis. This results in a non-s	Slice amou	int of \$244.6 million
7	and a Slice amount of \$71.5 million. For clarity and consistence	ey with the	proposed Standstill
8	Agreements that BPA may offer, these amounts are hereafter re	eferred to a	s the Non-Slice
9	Definitive Payment Amount and the Slice Definitive Payment	Amount, re	espectively.
10 11 12	Table 15.14 Definitive Payment Amount (millions of dollars)	S	
13	FY 2007 Overcharge	151.10	
14	FY 2007 Lookback Set Off	17.55	
15	FY 2008 Overcharge	147.46	
16	Total	316.11	
17	Non-Slice Definitive Payment Amount	244.58	77.3722% of Total
18 19	Slice Definitive Payment Amount	71.53	22.6278% of Total
20	Generally speaking, BPA proposes to determine the amount ret	urned to ea	ach COU on the
21	customer's share of FY 2007 Priority Firm revenue including P	PF Slice, Pl	F HLH Energy,
22	PF LLH Energy, PF Demand, PF Load Variance, Irrigation Rat	te Mitigati	on Product,
23	Conservation Incentive, Conservation Rate Credit and Low De	nsity Disco	ount, but excluding any
24	FY 2007 Slice True-up amounts. These shares are calculated fi	rom the res	spective final (or
25	revised final, if applicable) amounts each COU was billed for F	FY 2007. H	Because of the
26	differences between the Slice product and its applicable rate an	d the Non-	Slice products and their
27	applicable rates, the amounts returned to each customer are bas	ed on sepa	rate calculations for
28	Slice and Non-Slice components. The manner in which the Sli	ce and Nor	n-Slice amounts are
29	returned also differs because of the Slice True-Up.		

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BPA proposes that individual Customer Payment Amounts be calculated by applying percentages to the Non-Slice Definitive Payment Amount and the Slice Definitive Payment Amount. For each customer, its non-Slice percentage is equal to the ratio of BPA's FY 2007 PF non-Slice revenues from each such customer to total non-Slice PF revenues, both of which would include Block purchases by Slice customers. For each Slice customer, its Slice percentage is equal to the ratio of the FY 2007 PF Slice revenues from each such customer to total Slice revenues, excluding any FY 2007 Annual Slice True-Up amounts. The individual customer non-Slice and Slice revenues, percentages and Customer Payment Amounts are provided in Table 15.15, Customer Payment Amounts, below.

For COUs that sign Standstill Agreements, Customer Payment Amounts would be provided according to the terms and conditions of those agreements. For COUs that have not entered into Standstill Agreements, BPA proposes that Customer Payment Amounts would be provided as follows. The non-Slice Customer Payment Amounts, plus interest as specified below, would be provided in a lump sum payment by electronic funds transfer (EFT) as soon as practicable after FERC interim approval of the final Supplemental Proposal. The Slice Customer Payment Amounts, plus interest, would be accounted for through the Slice True-Up for FY 2008.

BPA proposes that interest would be added to the Customer Payment Amounts for COUs that
have not entered into Standstill Agreements as follows. For the non-Slice Customer Definitive
Payment Amounts, interest will be simple interest computed on the non-Slice Standstill Payment
Amount in Table 15.15. Interest would accrue from the date of the first Standstill Payment made
under any Standstill Agreement, until the date of the payment by EFT of the non-Slice Customer
Definitive Payment Amount. For the Slice Customer, Definitive Payment Amount in Table 15.14.

Interest would accrue from the date of the first Standstill Payment made under any Standstill Agreement, through September 30, 2008.

The interest rate applicable to the Customer Definitive Payment Amounts would be the
six-month annual rate of interest posted under the title "Daily Treasury Yield Curve Rates" as
published on the U.S. Department of Treasury web site at 3:30 pm Eastern Prevailing Time on
date of the first Standstill Payment. This interest rate is available at the following website:
www.treasury.gov/offices/domestic-finance/debt-management/interest-rate/yield.shtml

1			Table 1	5.15.1			
2		Cust	mer Payn	ient Amour	nte		
23		Cust	(dolla		115		
3			(uona	115)			
4		Defin	itive Paymen	t Amount	Stan	dstill Payment	Amount
5		Non-Slice	Slice	<u>Total</u>	Non-Slice	Slice	<u>Total</u>
6	Albion City of	17 366	0	17 366	11 273	0	11 273
7	Alder Mutual	21 249	0 0	21 249	13 794	0	13 794
8	Ashland City of	980 190	Ő	980,190	636 275	Ő	636 275
9	Asotin County PUD #1	26 312	0 0	26 312	17 080	Ő	17 080
10	Bandon City of	366 787	Ő	366 787	238 094	Ő	238 094
11	Benton County PUD #1	4.272.687	5.627.058	9.899.745	2.773.546	3.652.715	6.426.261
12	Benton REA	2,568,343	0	2.568.343	1.667.199	0	1.667.199
13	Big Bend Elec Coop	2.082.403	0	2.082.403	1.351.759	0	1.351.759
14	Big Horn County Electric Coop	0	0	0	0	0	0
15	Blachly Lane Elec Coop	0	213,211	213,211	0	138,402	138,402
16	Blaine, City of	397,797	0	397,797	258,223	0	258,223
17	Bonners Ferry, City of	255,564	0	255,564	165,896	0	165,896
18	Burley, City of	636,361	0	636,361	413,084	0	413,084
19	Canby, City of	926,390	0	926,390	601,351	0	601,351
20	Cascade Locks, City of	117,677	0	117,677	76,388	0	76,388
21	Central Electric Coop	0	744,468	744,468	0	483,260	483,260
22	Central Lincoln PUD	6,796,296	0	6,796,296	4,411,707	0	4,411,707
23	Cent. Montana Elec Power Coop	0	0	0	0	0	0
24	Centralia, City of	1,089,004	0	1,089,004	706,910	0	706,910
25	Cheney, City of	683,209	0	683,209	443,494	0	443,494
26	Chewelah, City of	134,222	0	134,222	87,128	0	87,128
27	Clallam County PUD #1	3,514,579	0	3,514,579	2,281,433	0	2,281,433
28	Clark County PUD #1	19,151,534	0	19,151,534	12,431,914	0	12,431,914
29	Clatskanie PUD	1,813,602	3,111,670	4,925,272	1,177,271	2,019,891	3,197,162
30	Clearwater Power	0	266,569	266,569	0	173,039	173,039
31	Columbia Basin Elec Coop	466,170	0	466,170	302,607	0	302,607
32	Columbia Power Coop	129,329	0	129,329	83,952	0	83,952
33	Columbia REA	1,171,137	0	1,171,137	760,225	0	760,225
34	Columbia River PUD	2,791,895	0	2,791,895	1,812,314	0	1,812,314
35	Consolidated Irrigation Dist #19	9,983	0	9,983	6,480	0	6,480
36	Consumers Power	0	470,639	470,639	0	305,508	305,508
37	Coos Curry Elec Coop	0	430,181	430,181	0	279,245	279,245
38	Coulee Dam, City of	103,327	0	103,327	67,073	0	67,073
39	Cowlitz County PUD #1	22,587,827	0	22,587,827	14,662,528	0	14,662,528
40	Declo, City of	16,396	0	16,396	10,643	0	10,643
41	Douglas County PUD #1	0	0	0	0	127.1(0	127.1(0
42 42	Douglas Electric Cooperative	0	211,297	211,297	0 75 210	13/,160	13/,160
43	Drain, City of East End Mutual Electric	110,010	0	110,010	/5,310	0	/5,310
44 15	East End Mutual Electric	101,313	0	101,515	03,700	0	102 594
45 16	Ellensburg City of	1 1 2 1 0 5 0	0	1 1 2 1 0 5 0	102,384	0	102,384
40	Eleburg, City Of Eleburgt Mutual D & I	1,121,039	0	1,121,039	121,111	0	121,111
	Emmusi Mutual F & L Emerald County PUD	1,304,904	0	1,304,904	970,924 1 580 554	0	970,924 1 580 554
<u>40</u>	Energy Northwest	2,737,004	0	122 075	1,500,554	0	1,200,234
50	Fugene Water & Flectric	5 330 067	7 760 170	13 090 237	3 459 978	5 037 391	8 497 319
51	Eugene mulei & Elecule	2,220,007	1,100,110	10,070,207	5,159,920	5,057,571	0,177,517
~ 1	1						

1 2 3		Custo	Table 15 omer Paym (dolla	5.15.2 nent Amoun nrs)	ıts		
4 5		Defin Non-Slice	itive Payment Slice	t Amount Total	Stand Non-Slice	still Payment A	Amount Total
6 E	Coinchild AED	242.057	0	242.057	222.041		222.041
0 F 7 F	Call Diver Elec Coop	342,057	227.078	342,057	222,041	154.480	222,041
/ Г 8 Е	Fair Kiver Elec Coop	21 435	237,978	237,978	13 014	134,460	134,460
0 F	Serry County PLID #1	21,433	0	21,433	13,914 228 /18	0	228 /18
10 F	Slathead Elec Coop	7 683 772	0	7 683 772	4 987 798	0	4 987 798
10 I 11 F	Forest Grove City of	1 227 459	0	1 227 459	796 786	0	796 786
12 F	Franklin County PUD #1	1,227,459	2 504 281	4 440 079	1 256 593	1 625 614	2 882 207
13 - 6	Hacier Elec Coop	1,955,790	2,304,201	1,110,079	1,230,375	1,025,014	2,002,207
14 G	Grant County PUD #2	8 246 183	0	8 246 183	5 352 879	0	5 352 879
15 G	Gravs Harbor PUD #1	2.384.859	3.725.961	6.110.820	1.548.093	2.418.648	3.966.741
16 н	Harney Elec Coop	809.325	0	809.325	525,360	0	525.360
17 н	Iermiston, City of	594,044	0	594,044	385,614	0	385,614
18 H	leyburn, City of	206,771	0	206,771	134,222	0	134,222
19 н	Hood River Elec Coop	610,674	0	610,674	396,409	0	396,409
20 Io	daho County L & P	257,940	0	257,940	167,437	0	167,437
21 Io	daho Falls, City of	1,327,649	2,210,822	3,538,471	861,822	1,435,120	2,296,942
22 Ir	nland P & L	4,291,713	0	4,291,713	2,785,897	0	2,785,897
23 к	Kittitas County PUD #1	355,825	0	355,825	230,978	0	230,978
24 К	Clickitat County PUD #1	1,412,231	0	1,412,231	916,727	0	916,727
25 к	Kootenai Electric Coop	2,201,892	0	2,201,892	1,429,323	0	1,429,323
26 L	Lakeview L & P (WA)	1,549,956	0	1,549,956	1,006,129	0	1,006,129
27 L	Lane County Elec Coop	0	306,799	306,799	0	199,154	199,154
28 L	Lewis County PUD #1	4,917,950	0	4,917,950	3,192,409	0	3,192,409
29 L	Lincoln Elec Coop	0	0	0	0	0	0
30 L	Lost River Elec Coop	0	79,617	79,617	0	51,682	51,682
31 L	Lower Valley P & L	3,251,811	0	3,251,811	2,110,861	0	2,110,861
32 N	Aason County PUD #1	389,390	0	389,390	252,766	0	252,766
33 N	Aason County PUD #3	3,595,310	0	3,595,310	2,333,838	0	2,333,838
34 N	AcCleary, City of	197,229	0	197,229	128,028	0	128,028
33 N 26 N	AcMinnville, City of	4,5/4,406	0	4,574,406	2,969,403	0	2,969,403
30 N	Aldstate Elec Coop	1,959,658	0	1,959,658	1,272,081	0	1,272,081
3/ N 28 N	Allton Freewater, City of	464,250	0	464,250	301,360	0	301,360
30 N	Ainidaka City of	343,943	0	545,945 4 852	224,303	0	224,303
$\frac{39}{40}$ N	Aission Valley	4,833	0	4,655	5,150	0	5,150
$\frac{40}{41}$ N	Aissoula Elec Coop	0	0	0	0	0	0
$\frac{1}{42}$ N	Modern Elec Coop	1 249 573	0	1 249 573	811 141	0	811 141
$\frac{42}{43}$ N	Monmouth City of	378 339	0	378 339	245 593	0	245 593
44 N	Jespelem Valley Elec Coon	237 153	0	237 153	153 944	0	153 944
45 N	Jorthern Lights	257,155	208 055	208 055	0	135 056	135,056
46 N	Northern Wasco County PUD	2 607 498	200,000	2 607 498	1 692 616	0	1 692 616
47 C	Thop Mutual Light Company	443.451	Ő	443.451	287.859	Ő	287.859
48 O	Okanogan County Elec Coop	0	59.065	59.065	0	38.341	38.341
49 Ö	Okanogan County PUD #1	1,007.970	1,579.250	2,587.220	654.308	1,025,145	1,679,453
50 O	Drcas P & L	1,111,619	0	1,111,619	721,590	0	721,590
51 O	Dregon Trail Coop	3,551,075	0	3,551,075	2,305,124	0	2,305,124
49 0 50 0 51 0 52 0	Dreas P & L Dregon Trail Coop	1,007,970 1,111,619 3,551,075	1,579,250 0 0	2,587,220 1,111,619 3,551,075	654,308 721,590 2,305,124	1,025,145 0 0	1,6 7 2,3

1			T 11 1	E 1 E 2			
1		Cust	Table 1	5.15.3	• + a		
2 2		Cusi	omer Payn (doll	nent Amour	115		
5			(uon	ais)			
4		Defin	nitive Paymer	it Amount	Stand	dstill Payment	Amount
3		Non-Slice	Slice	Total	Non-Slice	Slice	Total
6	Pacific County PUD #2	1,710,648	0	1,710,648	1,110,440	0	1,110,440
7	Parkland L & W	665,472	0	665,472	431,981	0	431,981
8	Pend Oreille County PUD #1	73,736	1,218,170	1,291,906	47,865	790,756	838,621
9	Peninsula Light Company	3,165,561	0	3,165,561	2,054,874	0	2,054,874
10	Plummer, City of	1/9,7/3	0 9 206 019	1/9,7/3	116,696	5 227 200	116,696
11 12	PNGC Port Angeles City of	8,660,423	8,206,918	16,867,341	5,621,776	5,327,390	2 404 000
12	Port of Seattle	5,704,782	0	5,704,782	2,404,900	0	2,404,900
13	PSNS (Bremerton)	1 292 493	0	1 292 493	497,809	0	497,809 839.001
15	Raft River Elec Coon	1,272,475	127 984	127 984	037,001	83 079	83 079
16	Ravalli County Elec Coop	0	127,901	127,901	0	00,079	05,079
17	Richland. City of	4.527.221	ů 0	4.527.221	2.938.774	ů 0	2,938,774
18	Riverside Elec Coop	91,713	0	91,713	59,534	0	59,534
19	Rupert, City of	410,400	0	410,400	266,405	0	266,405
20	Salem Elec Coop	1,854,687	0	1,854,687	1,203,941	0	1,203,941
21	Salmon River Elec Coop	0	254,413	254,413	0	165,148	165,148
22	Seattle City Light	11,832,408	14,888,526	26,720,934	7,680,820	9,664,650	17,345,470
23	Skamania County PUD #1	721,478	0	721,478	468,336	0	468,336
24	Snohomish County PUD #1	15,849,197	15,926,157	31,775,354	10,288,254	10,338,211	20,626,465
25	Soda Springs, City of	129,242	0	129,242	83,896	0	83,896
20	Southern MI G&I	0	0	0	0	0	159.550
$\frac{27}{28}$	Southside Elec Lines	244,202	0	244,202	138,339	0	158,559
20	Springheid Utility Board Steilacoom, Town of	4,349,488	0	4,349,488	2,935,228	0	2,935,228
$\frac{2}{30}$	Sumas Town of	162 404	0	162 404	105 422	0	105 422
31	Surprise Valley Elec Coop	632,044	0	632,044	410 281	0	410 281
32	Tacoma Public Utilities	19.964.888	Ő	19.964.888	12.959.889	Ő	12.959.889
33	Tanner Elec Coop	382,779	0	382,779	248,475	0	248,475
34	Tillamook PUD #1	2,419,683	0	2,419,683	1,570,699	0	1,570,699
35	Troy, City of	0	0	0	0	0	0
36	U.S. DOE Albany	21,106	0	21,106	13,701	0	13,701
37	U.S.N. Everett (Jim Creek)	67,489	0	67,489	43,809	0	43,809
38	U.S. N. Bangor	914,628	0	914,628	593,716	0	593,716
39	Umatilla Elec Coop	0	1,061,642	1,061,642	0	689,148	689,148
40	Umpqua Indian Utility Coop	114,593	0	114,593	74,387	0	74,387
41	United Electric Coop	914,449	0	914,449	593,600	0	593,600
42 42	USBIA Wapato	/5,093	0	/5,093	48,745	0	48,745
$\frac{43}{\Lambda\Lambda}$	Vera Irrigation District	905,955	0	903,933	023,730 801 434	0	023,730 801 434
45	Vigilante Elec Coon	1,234,020	0	1,234,020	001,454	0	001,434
46	Wahkiakum County PLID #1	226 103	0	226 103	146 771	0	146 771
47	Wasco Elec Coop	513 219	ů 0	513 219	333 148	0 0	333 148
48	Weiser. City of	136.699	ů 0	136.699	88.736	ů 0	88.736
49	Wells Rural Elec Coop	3,848,314	0	3,848.314	2,498.072	0	2,498.072
50	West Oregon Elec Coop	0	98,614	98,614	0	64,014	64,014
51	Whatcom County PUD #1	1,022,695	0	1,022,695	663,866	0	663,866
52	Yakama Power	186,998	0	186,998	121,387	0	121,387
53	Grand TOTAL	244,583,915	71,529,515	316,113,430	158,767,754	46,432,246	205,200,000
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