

2012 BPA Final Rate Proposal

**Power Revenue Requirement
Study Documentation**

July 2011

BP-12-FS-BPA-02A



Revenue Requirement Documentation

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COMMONLY USED ACRONYMS AND SHORT FORMS

AGC	Automatic Generation Control
ALF	Agency Load Forecast (computer model)
aMW	average megawatt(s)
AMNR	Accumulated Modified Net Revenues
ANR	Accumulated Net Revenues
ASC	Average System Cost
BiOp	Biological Opinion
BPA	Bonneville Power Administration
Btu	British thermal unit
CDD	cooling degree day(s)
CDQ	Contract Demand Quantity
CGS	Columbia Generating Station
CHWM	Contract High Water Mark
Commission	Federal Energy Regulatory Commission
COSA	Cost of Service Analysis
COU	consumer-owned utility
Corps or USACE	U.S. Army Corps of Engineers
Council	Northwest Power and Conservation Council
CRAC	Cost Recovery Adjustment Clause
CSP	Customer System Peak
CT	combustion turbine
CY	calendar year (January through December)
DDC	Dividend Distribution Clause
<i>dec</i>	decrease, decrement, or decremental
DERBS	Dispatchable Energy Resource Balancing Service
DFS	Diurnal Flattening Service
DOE	Department of Energy
DSI	direct-service industrial customer or direct-service industry
DSO	Dispatcher Standing Order
EIA	Energy Information Administration
EIS	Environmental Impact Statement
EN	Energy Northwest, Inc.
EPP	Environmentally Preferred Power
ESA	Endangered Species Act
e-Tag	electronic interchange transaction information
FBS	Federal base system
FCRPS	Federal Columbia River Power System
FCRTS	Federal Columbia River Transmission System
FELCC	firm energy load carrying capability
FORS	Forced Outage Reserve Service
FPS	Firm Power Products and Services (rate)
FY	fiscal year (October through September)
GARD	Generation and Reserves Dispatch (computer model)

GRSPs	General Rate Schedule Provisions
GTA	General Transfer Agreement
GWh	gigawatthour
HDD	heating degree day(s)
HLH	Heavy Load Hour(s)
HOSS	Hourly Operating and Scheduling Simulator (computer model)
HYDSIM	Hydro Simulation (computer model)
ICE	IntercontinentalExchange
<i>inc</i>	increase, increment, or incremental
IOU	investor-owned utility
IP	Industrial Firm Power (rate)
IPR	Integrated Program Review
IRD	Irrigation Rate Discount
JOE	Joint Operating Entity
kW	kilowatt (1000 watts)
kWh	kilowatthour
LDD	Low Density Discount
LLH	Light Load Hour(s)
LRA	Load Reduction Agreement
Maf	million acre-feet
Mid-C	Mid-Columbia
MMBtu	million British thermal units
MNR	Modified Net Revenues
MRNR	Minimum Required Net Revenue
MW	megawatt (1 million watts)
MWh	megawatthour
NEPA	National Environmental Policy Act
NERC	North American Electric Reliability Corporation
NFB	National Marine Fisheries Service (NMFS) Federal Columbia River Power System (FCRPS) Biological Opinion (BiOp)
NLSL	New Large Single Load
NMFS	National Marine Fisheries Service
NOAA Fisheries	National Oceanographic and Atmospheric Administration Fisheries
NORM	Non-Operating Risk Model (computer model)
Northwest Power Act	Pacific Northwest Electric Power Planning and Conservation Act
NPV	net present value
NR	New Resource Firm Power (rate)
NT	Network Transmission
NTSA	Non-Treaty Storage Agreement
NUG	non-utility generation
NWPP	Northwest Power Pool
OATT	Open Access Transmission Tariff
O&M	operation and maintenance
OMB	Office of Management and Budget

OY	operating year (August through July)
PF	Priority Firm Power (rate)
PFp	Priority Firm Public (rate)
PFx	Priority Firm Exchange (rate)
PNCA	Pacific Northwest Coordination Agreement
PNRR	Planned Net Revenues for Risk
PNW	Pacific Northwest
POD	Point of Delivery
POI	Point of Integration or Point of Interconnection
POM	Point of Metering
POR	Point of Receipt
Project Act	Bonneville Project Act
PRS	Power Rates Study
PS	BPA Power Services
PSW	Pacific Southwest
PTP	Point to Point Transmission (rate)
PUD	public or people's utility district
RAM	Rate Analysis Model (computer model)
RAS	Remedial Action Scheme
RD	Regional Dialogue
REC	Renewable Energy Certificate
Reclamation or USBR	U.S. Bureau of Reclamation
REP	Residential Exchange Program
RevSim	Revenue Simulation Model (component of RiskMod)
RFA	Revenue Forecast Application (database)
RHWM	Rate Period High Water Mark
RiskMod	Risk Analysis Model (computer model)
RiskSim	Risk Simulation Model (component of RiskMod)
ROD	Record of Decision
RPSA	Residential Purchase and Sale Agreement
RR	Resource Replacement (rate)
RSS	Resource Support Services
RT1SC	RHWM Tier 1 System Capability
RTO	Regional Transmission Operator
SCADA	Supervisory Control and Data Acquisition
SCS	Secondary Crediting Service
Slice	Slice of the System (product)
T1SFCO	Tier 1 System Firm Critical Output
TCMS	Transmission Curtailment Management Service
TOCA	Tier 1 Cost Allocator
TPP	Treasury Payment Probability
Transmission System Act	Federal Columbia River Transmission System Act
TRL	Total Retail Load
TRM	Tiered Rate Methodology
TS	BPA Transmission Services
TSS	Transmission Scheduling Service

UAI	Unauthorized Increase
ULS	Unanticipated Load Service
USACE or Corps	U.S. Army Corps of Engineers
USBR or Reclamation	U.S. Bureau of Reclamation
USFWS	U.S. Fish and Wildlife Service
VERBS	Variable Energy Resources Balancing Service (rate)
VOR	Value of Reserves
WECC	Western Electricity Coordinating Council (formerly WSCC)
WIT	Wind Integration Team
WSPP	Western Systems Power Pool

1. GENERATION REVENUE REQUIREMENTS

1.1 Introduction

This chapter documents how Bonneville Power Administration's (BPA) annual generation revenue requirements are determined. Two tables are presented for each year of the rate period. On the first table, revenue requirements for FY 2012-2013 (the rate period) are projected in an income statement format. The second table, a statement of annual cash flows, determines the minimum required net revenues and presents the annual cash flows available for risk mitigation.

1.2 Income Statement

Below is a line-by-line description of the components in the Table 1A, Income Statement

Power System Generation Resources (Line 2). This category encompasses the costs associated with power generated by Federal hydroelectric facilities operated by the COE and Reclamation and power obtained through contracts for non-Federal resources and through energy conservation. This category includes lines 3 through 11, described below. *See* Documentation, BP-12-E-BPA-02A, Chapter 3.

Operating Generation (Line 3). This category includes the operations and maintenance expenses associated with power-producing resources including the CGS, Reclamation, and COE, and the annual expenses associated with long-term contract generating projects. *Id.*

Operating Generation Settlement Payments (Line 4). A settlement agreement between the Confederated Tribes of the Colville Reservation and the United States was signed in 2004 concerning the construction of Grand Coulee Dam. The Settlement Act (Public Law 103-436) ratifying the settlement agreement authorizes BPA to make annual payments to the Tribes for the use of tribal lands for power production at the Columbia Basin project. *Id.*

Non-Operating Generation (Line 5). This category includes the decommissioning costs of the Trojan nuclear plant and the unfinished WNP-1 and WNP-3 nuclear plants. *Id.*

Contracted Power Purchases (Line 6). This category includes short-term (balancing) power purchases and hedging/mitigation. *Id.*

Augmentation Power Purchases (Line 7). This category includes augmentation power purchases and the PNCA headwater benefit. Augmentation power purchase costs reflect the energy that BPA purchases in order to satisfy its obligation to meet the load requirements for public utilities. The PNCA headwater benefit refers to the costs associated with benefits BPA receives from storage projects in Canada. *Id.*

Exchanges and Settlements (Line 8). This category represents the benefits for qualifying public utilities and IOUs that were determined as part of the Residential Exchange settlement. This category also includes the program's staffing and support costs.. *Id.*

Renewable Generation (Line 9). This category reflects the operating expenses of several generating projects fueled by renewable energy resources, such as wind, geothermal, methane gas, solar, and “fish-friendly small hydro projects.” *Id.*

Generation Conservation (Line 10). This category includes the cost of conservation programs including Marketing Development, which are reimbursable contracts with equal and offsetting revenues; Market Transformation; Legacy Conservation programs; Technology Leadership; and Low-Income Weatherization. *Id.*

Conservation and Renewable Discount (Line 11). This category includes credits paid to qualifying BPA customers that have taken action to achieve cost-effective conservation and renewable resource development in the region. These credits have been discontinued. *Id.*

Transmission Acquisition and Ancillary Services (Line 12). This category includes the annual expenses associated with Power Services’ Transmission Acquisition program. It represents costs associated with services necessary to deliver energy from resources to markets or loads. This includes transmission, ancillary services, and real power losses, as purchased from BPA's Transmission Services business unit (TS) or non-Federal entities; TS embedded costs for the facilities that integrate power from COE and Reclamation projects onto the transmission system; and metering and communication requirements. *Id.*

Power Non-Generation Operations (Line 13). This category reflects Power Services’ internal costs associated with supporting the power function. It includes the costs of activities such as generation oversight, weather and stream flow forecasting, system operations planning, schedule planning, pre-scheduling, after-the-fact accounting of power transactions, power billing, customer account executives and customer service support staff, development and administration of power sales contracts, PS strategy development, PS financial reporting, analysis and budgeting, risk management, and PS human resources management. *Id.*

F&W/Environmental Requirements (Line 14). BPA funds projects designed to protect, mitigate and enhance fish and wildlife affected by the FCRPS in a manner consistent with the NPCC Columbia River Basin Fish and Wildlife Program, and to implement commitments made pursuant to Biological Opinions (BiOps) issued by NOAA Fisheries and the U.S. Fish and Wildlife Service regarding species listed under the Endangered Species Act. 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 fish and wildlife mitigation consistent with the NPCC Fish and Wildlife Program as well BiOps issued by the NOAA Fisheries for listed salmon and steelhead and the U.S. Fish and Wildlife Service for listed bull trout and sturgeon. *Id.*

General and Administrative/Shared Services (Line 15). This category represents the allocated portion of BPA’s Corporate General and Administrative costs, which are allocated to the business lines. Major functions besides the Executive Office are Corporate Communication, Finance, Diversity, and Safety. This category includes costs for the Civil Service Retirement System (CSRS) expense; information technology services; infrastructure and maintenance; building rent, maintenance and security; mail services; personnel services; library and printing

services; internal training; purchasing; and furniture. CSRS reflects the costs for the unfunded liability of the Civil Service Retirement and Disability Fund, the Employees Health Benefit Fund, and the Employees Life Insurance Fund. *Id.*

Other Income, Expenses, and Adjustments (Line 16). This category would include costs for items that do not fit in any other category.

Non-Federal Debt Service (Line 17). This category consists of third-party debt service or payment costs associated with capitalized contracts and other long-term, fixed contractual obligations. Debt service costs associated with EN projects (WNP-1, CGS, and WNP-3) make up the majority of these costs. *Id.*, Chapter 8

Depreciation (Line 18). 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 (LSRCP)) plant, including assets for fish and wildlife recovery, is depreciated by the straight-line method of calculation, using the composite service life of all projects, 75 years. Capital equipment (office furniture and fixtures, data processing hardware and software, and communications equipment) is also depreciated by the straight-line method using the average service lives for the particular categories of capital investment. *Id.*, Chapter 4.

Amortization (Line 19). Amortization is the annual capital recovery expense associated with non-revenue-producing assets. Conservation investments are amortized over four different periods, only three of which are active in the rate period, as described in Chapter 3. Legacy conservation investments prior to the FY 2002-2006 rate period are amortized using a straight-line, 20-year life. Conservation Augmentation investments in the FY 2002-2006 period are amortized using a declining life method, with all amortization being complete in FY 2011. Conservation Acquisition investments beginning in FY 2007 are amortized using a straight-line, five-year life. Investments beginning in FY 2011 are amortized using a straight-line, twelve-year life. *Id.*

Total Operating Expenses (Line 20). Total Operating Expenses is the sum of the above expenses (Lines 2 through 19).

Interest on Appropriated Funds (Line 23). Interest on Appropriated Funds includes interest on COE and Reclamation appropriations, as calculated in the generation repayment studies. *Id.*, Chapters 4 and 6. *Id.*, Chapter 3.

Capitalization Adjustment (Line 24). 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 contra-expense. *Id.*

Interest on Bonds Issued to U.S. Treasury (Line 25). Interest on long-term debt includes interest on bonds that BPA issues to the U.S. Treasury to fund investments in capital equipment, conservation, and 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). The interest expense is calculated in the generation repayment studies. Any payments of call premiums for bonds projected to be amortized are included in this line. *Id.*

Amortization of Capitalized Bond Premiums (Line 26). When a bond issued to the U.S. Treasury is refinanced, any call premium resulting from early retirement of the original bond is capitalized and included in the principal of the new bond. The capitalized call premium is then amortized over the term of the new bond. The annual amortization is a non-cash component of interest expense. *Id.*

Allowance for Funds Used During Construction (AFUDC) (Line 27). AFUDC is a credit against interest costs on long-term debt (Line 20). This reduction to gross interest 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, and BPA capital equipment. *Id.*

Interest Credit (Line 28). An interest income credit is also computed on the projected year-end cash balance in the BPA fund attributable to Power Services that carries over into the next year. 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. Interest income is credited against bond interest. *Id.*, Chapter 5.

Net Interest Expense (Line 29). Net Interest Expense is computed as the sum of Interest on Appropriated Funds (Line 23), Capitalization Adjustment (Line 24), Interest on Bonds Issued to U.S. Treasury (Line 25), Amortization of Capitalized Bond Premiums (Line 26), AFUDC (Line 27), and Interest Credit (Line 28).

Total Expenses (Line 30). Total Expenses are the sum of Total Operating Expenses (Line 20) and Net Interest Expense (Line 29).

Minimum Required Net Revenues (Line 31). MRNR, an input from Line 2 of the Statement of Cash Flows (Table 1B), may be necessary to cover cash requirements in excess of accrued expenses.

Planned Net Revenues for Risk (PNRR) (Line 32). PNRR are the amount of net revenues to be included in rates for financial risk mitigation. PNRR, 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 2012-2013, as discussed in the Power Risk and Market Price Study, BP-12-FS-BPA-03.

Total Planned Net Revenues (Line 33). Total Planned Net Revenues is the sum of Minimum Required Net Revenues (Line 31) and PNRR (Line 32).

Total Revenue Requirement (Line 30). Total Revenue Requirement is the sum of Total Expenses (Line 31) and Total Planned Net Revenues (Line 33).

1.3 Statement of Cash Flows

Below is a line-by-line description of each of the components in the Table 1B, Statement of Cash Flows.

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. MRNR may be necessary so that the cash provided from operating activities will be sufficient to cover the planned amortization and irrigation assistance payments without causing the Annual Increase (Decrease) in Cash (Line 21) to be negative. The MRNR amount determined in the Statement of Cash Flows is incorporated in the Income Statement (Line 31).

Depreciation and Amortization (Line 4). Depreciation and Amortization are from the Income Statement (Table 1A), lines 18 and 19 respectively. They are included in computing Cash Provided By Operating Activities (Line 8) because they are non-cash expenses of the FCRPS.

Amortization of Capitalized Bond Premiums (Line 5). Amortization of capitalized bond premiums is from the Income Statement (Table 1A, line 26). It is included in computing Cash Provided By Operating Activities (Line 8) because it is a non-cash expense of the FCRPS.

Capitalization Adjustment (Line 6). Capitalization Adjustment is from the Income Statement (Table 1A, Line 24). It is a non-cash contra-expense.

Accrual Revenues (Line 7). Accrual revenues are associated with settlement agreements reached in prior periods. The annual accrual revenues, which are part of the total revenues recovering the FCRPS revenue requirement, are included here as a non-cash adjustment to cash from current operations. .

Cash Provided By Operating Activities (Line 8). Cash Provided By Current Operations, the sum of Lines 2, 4, 5, 6, and 7, is available for the year to satisfy cash requirements.

Investment in Federal Utility Plant (Including AFUDC) (Line 11). Investment in Utility Plant represents the annual increase in additions to appropriated plant-in-service and to capital expenditures for COE, Reclamation, and BPA construction work-in-progress funded by bonds.

Investment in Conservation (Line 12). Investment in Conservation represents the annual increase in capital expenditures associated with Conservation programs.

Investment in Fish and Wildlife (Line 13). Investment in Fish and Wildlife represents the annual increase in BPA's capital expenditures to fund projects for the protection, mitigation, and

enhancement of fish and wildlife affected by the FCRPS in a manner consistent with the NPCC's Columbia River Basin Fish and Wildlife Program and the BiOp issued by NMFS and USFWS.

Cash Used for Investment Activities (Line 14). Cash Used for Investment Activities is the sum of Lines 11, 12, and 13.

Increase in Treasury Borrowings (Line 16). This category 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. *Id.*, Chapter 7.

Repayment of Treasury Borrowings (Line 17). This is BPA's planned repayment of outstanding bonds issued by BPA to the U.S. Treasury as determined in the generation repayment studies. *Id.*, Chapter 6.

Increase in Federal Construction Appropriations (Line 18). Increase in Congressional Capital Appropriations represents congressional appropriations projected to be received during the year for COE and Reclamation capital projects. *Id.*, Chapter 4.

Repayment of Federal Construction Appropriations (Line 19). Repayment of Capital Appropriations represents projected amortization of outstanding COE and Reclamation appropriations as determined in the generation repayment studies. *Id.*, Chapter 6.

Payment of Irrigation Assistance (Line 20). Payment of Irrigation Assistance represents the payment of appropriated capital construction costs of Reclamation irrigation facilities that have been determined to be beyond the ability of the irrigators to pay and allocated to generation revenues for repayment. *Id.*, Chapter 9.

Cash Provided by Borrowing and Appropriations (Line 21). Cash Provided by Borrowing and Appropriations is the sum of Lines 16 through 20. This is the net cash-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.

Annual Increase (Decrease) in Cash (Line 22). Annual Increase (Decrease) in Cash is the sum of Lines 7, 14, and 21 and reflects the annual net cash-flow from current operations and investing and financing activities. Revenue requirements are set to meet all projected annual cash-flow requirements, as included on the Statement of Cash Flows. A decrease shown in this line would indicate that annual revenues would be insufficient to cover the year's cash requirements. In such cases, Minimum Required Net Revenues are included to offset such decrease.

Planned Net Revenues for Risk (PNRR) (Line 23). PNRR reflects the amounts included in revenue requirements to meet BPA's risk mitigation objectives from Table 1A, Line 32.

Total Annual Increase (Decrease) in Cash (Line 24). Total Annual Increase (Decrease) in Cash is the sum of Lines 22 and 23. It is the total annual cash that is projected to be available to add to BPA's cash reserves.

Table 1A

**GENERATION REVENUE REQUIREMENT
INCOME STATEMENT
(\$000s)**

	<u>A</u>	<u>B</u>
	2012	2013
1 OPERATING EXPENSES		
2 POWER SYSTEM GENERATION RESOURCES		
3 OPERATING GENERATION	652,117	707,368
4 OPERATING GENERATION SETTLEMENT PAYMENT	21,928	22,148
5 NON-OPERATING GENERATION	1,938	1,948
6 CONTRACTED POWER PURCHASES	102,254	98,755
7 AUGMENTATION POWER PURCHASES	0	66,150
8 EXCHANGES & SETTLEMENTS	1,446	885
9 RENEWABLE GENERATION	40,667	41,456
10 GENERATION CONSERVATION	46,950	47,850
11 CONSERVATION AND RENEWABLE DISCOUNT	0	0
12 PS TRANSMISSION ACQUISITION AND ANCILLARY SERVICES	81,393	83,126
13 POWER NON-GENERATION OPERATIONS	160,516	157,184
14 F&W/USF&W/PLANNING COUNCIL/ENVIRONMENTAL REQUIREMENTS	276,610	281,944
15 GENERAL AND ADMINISTRATIVE/SHARED SERVICES	68,978	70,483
16 OTHER INCOME, EXPENSES AND ADJUSTMENTS	0	0
17 NON-FEDERAL DEBT SERVICE	570,970	541,586
18 DEPRECIATION	122,169	127,560
19 AMORTIZATION	81,029	86,767
20 TOTAL OPERATING EXPENSES	2,228,966	2,335,209
21 INTEREST EXPENSE:		
22 INTEREST		
23 APPROPRIATED FUNDS	221,866	222,715
24 CAPITALIZATION ADJUSTMENT	(45,937)	(45,937)
25 BONDS ISSUED TO U.S. TREASURY	57,681	74,830
26 AMORTIZATION OF CAPITALIZED BOND PREMIUMS	185	185
27 ALLOWANCE FOR FUNDS USED DURING CONSTRUCTION	(12,511)	(13,592)
28 INTEREST CREDIT	(12,481)	(16,654)
29 NET INTEREST EXPENSE	208,802	221,546
30 TOTAL EXPENSES	2,437,768	2,556,756
31 MINIMUM REQUIRED NET REVENUES 1/	40,260	16,571
32 PLANNED NET REVENUES FOR RISK		
33 PLANNED NET REVENUES, TOTAL (31+32)	40,260	16,571
34 TOTAL REVENUE REQUIREMENT	2,478,028	2,573,327

1/ SEE NOTE ON TABLE 1B

Table 1B

**GENERATION REVENUE REQUIREMENT
STATEMENT OF CASH FLOWS
(\$000s)**

	<u>A</u>	<u>B</u>
	2012	2013
1 CASH FROM OPERATING ACTIVITIES		
2 MINIMUM REQUIRED NET REVENUES 1/	40,260	16,571
3 NON-CASH ITEMS:		
4 DEPRECIATION AND AMORTIZATION	203,198	214,327
5 AMORTIZATION OF CAPITALIZED BOND PREMIUMS	185	185
6 CAPITALIZATION ADJUSTMENT	(45,937)	(45,937)
7 ACCRUAL REVENUES	(3,524)	(3,524)
8 CASH PROVIDED BY OPERATING ACTIVITIES	194,182	181,622
9 CASH USED FOR INVESTMENT ACTIVITIES:		
10 INVESTMENT IN:		
11 FEDERAL UTILITY PLANT (INCLUDING AFUDC)	(357,948)	(402,939)
12 CONSERVATION	(104,000)	(111,000)
13 FISH & WILDLIFE	(50,000)	(50,000)
14 CASH USED FOR INVESTMENT ACTIVITIES	(511,948)	(563,939)
15 CASH FROM AND (USED FOR) FINANCING ACTIVITIES		
16 INCREASE IN TREASURY BORROWINGS	408,669	447,466
17 REPAYMENT OF TREASURY BORROWINGS	(140,000)	(122,800)
18 INCREASE IN FEDERAL CONSTRUCTION APPROPRIATIONS	103,279	116,473
19 REPAYMENT OF FEDERAL CONSTRUCTION APPROPRIATIONS	(53,000)	0
20 PAYMENT OF IRRIGATION ASSISTANCE	(1,182)	(58,822)
21 CASH USED FOR FINANCING ACTIVITIES	317,766	382,317
22 ANNUAL INCREASE (DECREASE) IN CASH	0	0
23 PLANNED NET REVENUES FOR RISK	0	0
24 TOTAL ANNUAL INCREASE (DECREASE) IN CASH	0	0

1/ Line 21 must be greater than or equal to zero to indicate that cash cost recovery requirements are being achieved. If not, net revenues (MRNR) are added so that net cash flows for the year (Line 21) are zero.

2. COST ANALYSES

2.1 Introduction

This chapter documents the development of the costs necessary for ratemaking from the annual generation revenue requirements. For Cost of Service Analysis (COSA), net interest expense and planned net revenues (all years of both the program and 7(b)(2) cases) are assigned to each Federal Columbia River Power System (FCRPS) resource pool according to the necessary level of detail. The interbusiness unit embedded costs, generation inputs to ancillary services, synchronous condensing and COE and Reclamation transmission, are developed from the COSA data.

Data development for the COSA and interbusiness unit embedded costs are derived from the annual costs identified in Table 1A - Generation Income Statement. For the COSA, net interest expenses and planned net revenues, which are first split between Federal hydro projects and the remainder of generation by the use of equivalent annual costs (defined below). The generation portions are then divided between Fish & Wildlife, Conservation and BPA generation programs based on average net investment. These allocations, in turn, form the basis for the association of net interest expenses and MRNR with the interbusiness unit embedded costs.

2.2 Annual Capital-Related Cost Components of COSA Resource Pools

Equivalent Annual Costs

Equivalent annual costs are used to prorate net interest expense and planned net revenues between Federal Hydro and the remainder of generation. They compensate for the differences in Federal Hydro of a 75-year service life, but a 50-year repayment period, whereas the other capital areas have the same service lives and repayment periods. Consequently, net investment, the typical allocator, is distorted for Hydro. Equivalent annual costs are calculated as levelized principal and interest payments (mortgage basis) using gross plant investment and projected additions. A weighted average interest rate is used for the historical plant and projected interest rates are used for additions. The prorating is based on the sum of all calculated proxy-payments for COE and Reclamation (Federal Hydro), and BPA plant, BPA fish and wildlife investment and all BPA conservation investments (all other generation). The non-Hydro portion is then allocated based on average net plant investment.

2.3 Interbusiness Unit Embedded Costs

Generation Inputs to Ancillary Services

Operating Reserves

All Federal Hydro Projects in the BPA Balancing Authority (excludes Boise, Minidoka-Palisades, Green Springs and Lost Creek)

- O&M: sum of generation O&M for each hydro project, including Colville payment (associated with Columbia Basin), less F&W related O&M at projects.

- Depreciation: depreciation expense associated with generation investments at each hydro project.
- Net Interest Expense/MRNR: suballocation from Hydro in the COSA Itemized Revenue Requirement table based on generation net plant investment from Federal hydro projects in the BPA balancing authority. MRNR is determined from the Revenue Requirement Income Statement as a ratio of MRNR to Planned Net Revenues, Total and is applied to the suballocation from Hydro.
- Fish & Wildlife O&M: sum of BPA direct program, US F&W Service (Lower Snake River Compensation Plan) F&W portion of O&M at individual COE projects and 1/2 of the Planning Council budget
- Amortization/Depreciation: annual write-down of F&W investments from BPA direct program, Lower Snake River Compensation Plan (LSRCP), and CRFM.
- Net Interest Expense/MRNR: suballocation from COSA table Hydro line based on net plant investment from LSRCP and CRFM plus amounts in COSA table Fish & Wildlife line. . MRNR is determined from the Revenue Requirement Income Statement as a ratio of MRNR to Planned Net Revenues, Total and is applied to the suballocation from Hydro and to the F&W COSA allocations.
- A&G Expense: generation revenue requirement O&M for Power Marketing, Power Scheduling, Generation Oversight, (one-half of) Planning Council budget, and BPA Administrative and Support Services.
- Revenue Credits: offsetting revenues associated with funding for BPA F&W program (4h10C credit associated with Direct Program expense and capital expenditure) and annual Colville settlement payments (Colville payment Treasury credit).

Regulation

- All components identical to operating reserves except that data associated with the top 10 COE/Reclamation hydro plants (Columbia Basin, Bonneville, John Day, The Dalles, Chief Joseph, Ice Harbor, Lower Granite, Lower Monumental, Little Goose, and McNary) is used instead of all COE/Reclamation projects in the BPA balancing authority.

Synchronous Condensing

Synchronous Condensing: Capital-related Annual Costs are from identified investment in synchronous condensers: depreciation expense is calculated directly; suballocation of interest and MRNR from Federal Hydro in COSA, based on ratio of synchronous condenser net investment to total COE/Reclamation net plant investment. MRNR is determined from the Revenue Requirement Income Statement as a ratio of MRNR to Planned Net Revenues, Total and is applied to the suballocation from Hydro.

COE and Reclamation Transmission

- O&M: sum of transmission O&M for each project with transmission facilities, as identified in Chapter 3, Functionalization of COE and Reclamation O&M.
- Depreciation: depreciation expense associated with transmission investments at each project, as identified in Chapter 4.
- Net Interest Expense/MRNR: suballocation from Hydro in the COSA Itemized Revenue Requirement table based on transmission net plant investment, as identified in Chapter 4. MRNR is determined from the Revenue Requirement Income Statement as a ratio of MRNR to Planned Net Revenues, Total and is applied to the suballocation from Hydro.

2.4 Allocation of Interest Credit

The interest credit is a component in the calculation of net interest, offsetting interest accrued on outstanding Treasury bonds and appropriations. The credit is allocated between the two cost pools. The Composite cost pool receives an interest credit based on \$495.6 million in reserves, the amount of reserves attributed to Power at the end of FY 2001, with adjustments. The amount of reserves has been adjusted for receipts/payments related to pre-2002 transactions that have not been distributed to Slice customers.

The Non-Slice cost pool receives a credit that is the difference between the amount allocated to the Composite cost pool and the total annual credit calculated in the generation revenue requirement. The Non-Slice allocation may be negative or positive depending on the relationship between the Composite cost pool allocation and the total annual credit.

Table 2A

**Generation Revenue Requirements by Resource Pool
PROGRAM CASE
(\$000s)**

FY 2012	A	B	C		D	E	F
	<u>Investment Base</u>	<u>Net Interest</u>	<u>Net Revenues</u>		<u>COE/USBR</u>	<u>All Other</u>	<u>Total Generation</u>
1. GENERATION COSTS							
2. FEDERAL BASE SYSTEM				Equivalent Annual Costs	562,921	119,676	682,597
3. HYDRO		172,194	33,201	Percent	82%	18%	100%
4. FISH AND WILDLIFE	168,886	17,980	3,467				
5. TROJAN				Net Interest Expense	172,194	36,608	208,802
6. WNP #1							
7. CGS				Planned Net Revenues	33,201	7,059	40,260
8. WNP #3							
9. SYSTEM AUGMENTATION							
10. BALANCING POWER PURCHASES							
11. TOTAL FEDERAL BASE SYSTEM	168,886	190,174	36,668				
12. NEW RESOURCES							
13. IDAHO FALLS							
14. COWLITZ FALLS							
15. OTHER LONG-TERM POWER PURCHASES							
16. TOTAL NEW RESOURCES							
17. RESIDENTIAL EXCHANGE							
18. CONSERVATION	165,642	17,634	3,400				
19. OTHER GENERATION COSTS							
20. BPA PROGRAMS	9,341	994	192				
21. WNP #3 PLANT							
22. TOTAL OTHER GENERATION COSTS	9,341	994	192				
23. TOTAL GENERATION COSTS	343,869	208,802	40,260				
24. TRANSMISSION COSTS							
25. TBL TRANSMISSION/ANCILLARY SERVICES							
26. 3RD PARTY TRANS/ANCILLARY SERVICES							
27. GENERAL TRANSFER AGREEMENTS							
28. TOTAL TRANSMISSION COSTS							
29. TOTAL PBL REVENUE REQUIREMENT		208,802	40,260				

Table 2A

**Generation Revenue Requirements by Resource Pool
PROGRAM CASE
(\$000s)**

FY 2013

	A	B	C		D	E	F
	<u>Investment Base</u>	<u>Net Interest</u>	<u>Net Revenues</u>		<u>Hydro</u>	<u>All Other</u>	<u>Total Generation</u>
1. GENERATION COSTS							
2. FEDERAL BASE SYSTEM				Equivalent Annual Costs	593,700	128,917	722,617
3. HYDRO		199,296	9,495	Percent	82%	18%	100%
4. FISH AND WILDLIFE	209,766	21,186	1,009				
5. TROJAN				Net Interest Expense	199,296	43,275	242,571
6. WNP #1							
7. CGS				Planned Net Revenues	9,495	2,062	11,557
8. WNP #3							
9. SYSTEM AUGMENTATION							
10. BALANCING POWER PURCHASES							
11. TOTAL FEDERAL BASE SYSTEM	209,766	220,482	10,504				
12. NEW RESOURCES							
13. IDAHO FALLS							
14. COWLITZ FALLS							
15. OTHER LONG-TERM POWER PURCHASES							
16. TOTAL NEW RESOURCES							
17. RESIDENTIAL EXCHANGE							
18. CONSERVATION	176,310	17,808	849				
19. OTHER GENERATION COSTS							
20. BPA PROGRAMS	42,384	4,281	204				
21. WNP #3 PLANT							
22. TOTAL OTHER GENERATION COSTS	42,384	4,281	204				
23. TOTAL GENERATION COSTS	428,460	242,571	11,557				
24. TRANSMISSION COSTS							
25. TBL TRANSMISSION/ANCILLARY SERVICES							
26. 3RD PARTY TRANS/ANCILLARY SERVICES							
27. GENERAL TRANSFER AGREEMENTS							
28. TOTAL TRANSMISSION COSTS							
29. TOTAL PBL REVENUE REQUIREMENT		242,571	11,557				

Table 2B

**Equivalent Annual Costs
(\$000s)**

	A	B	C	D	E	F	G
	AVG LIFE	COMP PLANT 9/30/2012	WT AV INT RATE	2012 EQ ANN COSTS	COMP PLANT 9/30/2013	WT AV INT RATE	2013 EQ ANN COSTS
1 Corps of Engineers/Bureau of Reclamation	50	9,090,632	5.93%	\$571,121	9,442,860	5.94%	\$593,700
2 BPA F&W							
3 PBL General Plant	15	405,036	5.12%	\$39,329	433,041	4.99%	\$41,700
4 CONSERVATION	6	133,558	3.68%	\$14,538	153,884	4.02%	\$16,758
5 Sub-Total	13	641,324	0	65,709	649,468	0	70,459
				119,575			128,917
	WTD LIFE	INV. BASE AS OF 9/30/2012	ANNUAL DEPR/AMORT	AVG LIFE	INV. BASE AS OF 9/30/2013	ANNUAL DEPR/AMORT	AVG LIFE
6 OFFICE FURNITURE & FIXTURES							
7 DATA PROCESSING EQUIPMENT							
8 DATA PROCESSING SOFTWARE							
9 TOTAL GENERAL PLANT - PBL CONSERVATION	12	133,558	11,696	12	153,884	13,166	11
10 LEGACY							
11 CONAUG							
12 CONSERVATION ACQUISITION							
13 TOTAL CONSERVATION	13	641,324	48,446	12	649,468	52,411	11

Table 2C

Functionalization of COE/Reclamation O&M
(\$000s)

	A	B	C	D	E	F
	Average Investment <u>2012</u>	<u>Percent</u>	O&M <u>2012</u>	Average Investment <u>2013</u>	<u>Percent</u>	O&M <u>2013</u>
1 BOISE						
2 GENERATION		100.00%	5,974		100.00%	6,396
3 COLUMBIA BASIN						
4 GENERATION	1,438,666	95.95%	81,909	1,585,774	96.32%	88,032
5 TRANSMISSION	60,655	4.05%	3,453	60,655	3.68%	3,367
6 TOTAL	1,499,321	100.00%	85,362	1,646,429	100.00%	91,399
7 GREEN SPRINGS						
8 GENERATION		100.00%	936		100.00%	1,002
9 HUNGRY HORSE						
10 GENERATION	138,707	98.55%	5,700	139,953	98.56%	6,104
11 TRANSMISSION	2,041	1.45%	84	2,041	1.44%	89
12 TOTAL	140,748	100.00%	5,784	141,994	100.00%	6,193
13 MINIDOKA-PALISADES						
14 GENERATION	112,843	98.51%	9,082	113,523	98.52%	9,733
15 TRANSMISSION	1,711	1.49%	1,275	1,711	1.48%	1,357
16 TOTAL	114,554	100.00%	10,357	115,234	100.00%	11,090
17 YAKIMA						
18 GENERATION		100.00%	3,558		100.00%	3,810
19 GENERATION 1/			129,087			137,225
20 TRANSMISSION			4,812			4,813
21 TOTAL USBR			133,899			142,038
1/ INCLUDES COLVILLE PAYMENT OF			21,928			22,148
22 BONNEVILLE						
23 GENERATION	1,147,271	99.74%	26,522	1,163,704	99.74%	27,409
24 TRANSMISSION	3,000	0.26%	69	3,000	0.26%	71
25 TOTAL	1,150,271	100.00%	26,591	1,166,704	100.00%	27,480
26 OTHER PROJECTS						
27 CORPS - GENERATION ONLY			182,109			188,220
28 USF&W (LSRCP)			28,800			29,900
29 GENERATION			237,431			245,529
30 TRANSMISSION			69			71
31 TOTAL CORPS			237,500			245,600

Table 2D

**Allocation of Total O&M to Projects for COE and Reclamation
(\$000s)**

	A	B	C	D	E	F
	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>AVERAGE</u>	<u>FY 2012</u>	<u>FY 2013</u>
1 BOISE	4,216	4,358	3,736	4,103	5,974	6,396
2 COLUMBIA BASIN	52,103	59,728	64,080	58,637	85,362	91,399
3 GREEN SPRINGS	510	581	837	643	936	1,002
4 HUNGRY HORSE	3,665	3,976	4,278	3,973	5,784	6,193
5 MINIDOKA	7,235	6,939	7,170	7,115	10,357	11,090
6 YAKIMA	2,760	2,185	2,388	<u>2,444</u>	<u>3,558</u>	<u>3,810</u>
7 Total Reclamation				76,915	111,972	119,891
8 ALBENI FALLS	4,772	5,000	5,074	4,949	5,676	5,866
9 BONNEVILLE	20,475	21,211	27,862	23,183	26,591	27,480
10 CHIEF JOSEPH	21,299	22,785	19,270	21,118	24,221	25,034
11 COUGAR	859	1,134	2,467	1,487	1,705	1,762
12 DETROIT	7,000	7,431	5,518	6,650	7,627	7,883
13 DWORSHAK	9,569	10,672	13,103	11,115	12,748	13,176
14 GREEN-PETER	3,388	4,831	4,523	4,247	4,872	5,035
15 HILLS CREEK	763	1,000	898	887	1,017	1,051
16 ICE HARBOR	8,536	7,838	8,090	8,155	9,353	9,667
17 JOHN DAY	16,888	19,737	19,478	18,701	21,449	22,169
18 LIBBY	6,613	7,112	7,617	7,114	8,159	8,433
19 LITTLE GOOSE	7,622	7,457	7,782	7,620	8,740	9,033
20 LOOKOUT POINT	4,974	5,600	6,914	5,829	6,686	6,910
21 LOST CREEK	1,888	1,844	2,025	1,919	2,201	2,275
22 LOWER GRANITE	10,346	11,603	12,066	11,338	13,005	13,441
23 LOWER MONUMENTAL	8,102	8,072	8,118	8,097	9,287	9,599
24 MCNARY	28,963	16,510	20,424	21,966	25,194	26,039
25 THE DALLIES	15,679	18,560	18,516	<u>17,585</u>	<u>20,169</u>	<u>20,846</u>
26 Total COE				181,959	208,700	215,700

Table 2E

**Regulation
Power Revenue Requirement for
Big Ten Hydroelectric Projects and F&W
(\$000s)**

	<u>A</u>	<u>B</u>	<u>C</u>
	<u>2012</u>	<u>2013</u>	<u>Average</u>
1 Big 10 Dams			
2 O&M	223,103	231,060	227,081
3 Depreciation	75,547	78,519	77,033
4 Net Interest	100,563	108,051	104,307
5 Minimum Required Net Revenues	17,692	6,364	12,028
6 Planned Net Revenues for Risk	-	-	-
7 Subtotal	416,905	423,994	420,449
8			
9 Fish & Wildlife 1/			
10 O&M	290,881	299,235	295,058
11 Amortization/Depreciation	41,439	44,305	42,872
12 Net Interest	48,997	54,957	51,977
13 Minimum Required Net Revenues	8,620	3,236	5,928
14 Planned Net Revenues for Risk	-	-	-
15 Subtotal	389,937	401,732	395,835
16			
17 A&G Expense 1/ 2/	122,964	125,269	124,117
18			
19 Total Revenue Requirement	929,807	950,995	940,401
20 Revenue Credits:			
21 4h10C (non-operations) 1/	58,321	59,131	58,726
22 Colville payment Treas. Credit	4,600	4,600	4600
23 Net Revenue Requirement	866,886	887,264	877075
24			
25 Capacity Factor for Big Ten Projects	0.91		
26			
27 1/ Scaled from total of these elements by line 19.			
28			
29 2/ Power Marketing Sales & Support, Power Scheduling, Generation Oversight, Corporate Expense and 1/2 Planning Council			

Table 2E

**Regulation
Power Revenue Requirement for
Big Ten Hydroelectric Projects and F&W
(\$000s)**

	A	B
	<u>2012</u>	<u>2013</u>
30 Big 10 average net plant	3,508,556	3,720,345
31 Total COE/BOR av net plt	6,007,710	6,251,635
32 Percent of total	58.40%	59.51%
33		
34 O&M by project		
35 Columbia Basin	103,837	110,180
36 Bonneville	26,522	27,409
37 John Day	21,449	22,169
38 The Dalles	20,169	20,846
39 Chief Joseph	24,221	25,034
40 Ice Harbor	9,353	9,667
41 Lower Granite	13,005	13,441
42 Lower Monumental	9,287	9,599
43 Little Goose	8,740	9,033
44 McNary	25,194	26,039
45 Total O&M	261,777	273,417

Table 2F

**Operating Reserves
Power Revenue Requirement for
All Hydroelectric Projects and F&W
(\$000s)**

	A	B
	<u>2012</u>	<u>2013</u>
1 All Hydro Projects 1/		
2 O&M	271,429	281,386
3 Depreciation	92,859	96,183
4 Net Interest	131,488	136,377
5 Minimum Required Net Revenues	23,133	8,032
6 Planned Net Revenues For Risk	-	-
7 Total Revenue Requirement	518,909	521,978
8		
9 Fish & Wildlife 2/		
10 O&M	310,060	318,965
11 Amortization/Depreciation	44,171	47,226
12 Net Interest	52,228	58,580
13 Minimum Required Net Revenues	9,189	3,449
14 Planned Net Revenues For Risk	-	-
15 Subtotal	415,647	428,220
16		
17 A&G Expense 2/ 3/	131,072	133,529
18		
19 Total Revenue Requirement	1,065,629	1,083,727
20 Revenue Credits		
21 4h10C (non-operations) 2/	62,166	63,030
22 Colville payment Treasury Credit	4,600	4,600
23 Net Revenue Requirement	998,862	1,016,097
Capacity Factor for Projects in BA	0.97	
24 Net Interest	172,194	181,568
25 Minimum Required Net Revenues	30,295	10,693
26 Total Hydro Net Plant	0	0
27 Operating Reserves Projects' Net Plant	6007710	6251635
28		
29 2011 Net Plant		
29 2012 Net Plant	5,556,408	
30 2013 Net Plant	5,868,464	
31 Operating Reserves Net Plant	6,035,098	
32 percent of total	4,587,490	4,695,641
	76%	75%

1/ Excludes Boise, Minidoka-Palisades, Green Springs (USBR) and Lost Creek (COE).

2/ Scaled from total of these elements by line 22.

3/ Power Marketing Sales & Support, Power Scheduling, Generation Oversight, Corporate Expense and 1/2 Planning Council

Table 2G

**Synchronous Condensers
Net Plant Calculation
(\$000s)**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
			Plant-in-Service		Accumulated Depreciation													
	Life	Project	1999	Annual Deprec	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
1	75.0	John Day	3,956	53	53	106	159	212	265	318	371	424	477	530	583	636	689	742
2	75.0	The Dalles	<u>3,753</u>	<u>50</u>	<u>50</u>	<u>100</u>	<u>150</u>	<u>200</u>	<u>250</u>	<u>300</u>	<u>350</u>	<u>400</u>	<u>450</u>	<u>500</u>	<u>550</u>	<u>600</u>	<u>650</u>	<u>700</u>
3			7,709	103	103	206	309	412	515	618	721	824	927	1,030	1,133	1,236	1,339	1,442
4			Net Plant Investment		7,606	7,503	7,400	7,297	7,194	7,091	6,988	6,885	6,782	6,679	6,576	6,473	6,370	6,267

Table 2H

**Determination of Synchronous Condensor Annual Costs
(\$000s)**

	A	B
	<u>2012</u>	<u>2013</u>
1 Synchronous Condensers Net Plant	6,370	6,267
2 Total Corps/Bureau Average Net Plant	6,007,710	6,251,635
3 percent	0.106%	0.100%
4 Corps/Bureau Net Interest	172,194	181,568
5 Sync Cond Net Interest	183	182
6 Corps/Bureau MRNR	30,295	10,693
7 Sync Cond MRNR	32	11
8 Sync Cond Depreciation	103	103
9 Total Sync Cond Costs	318	296

Table 2I

COE/BOR Transmission Costs
(\$000s)

	A	B	C	D	E	F	G	H	I
	<u>Total FY 2012</u>	<u>Network</u>	<u>Utility Delivery</u>	<u>Total FY 2013</u>	<u>Network</u>	<u>Utility Delivery</u>	<u>Annual Average Total</u>	<u>Annual Average Network</u>	<u>Annual Average Utility Delivery</u>
1 O&M	4,881	4,541	340	4,884	4,526	358	4,883	4,534	349
2 Depreciation	859	884	15	899	884	15	899	884	15
3 Interest Expense	1,257	1,235	22	1,248	1,226	22	1,253	1,231	22
4 MRNR	221	217	4	74	73	1	148	145	3
5 Total COE/BOR Trans Costs	7,218	6,877	381	7,105	6,709	396	7,183	6,794	389
6 Average Net Transmission Plant	43,869	43,091	779	42,970	42,207	763			
7 Total Hydro Projects Average Net Plant	6,007,710			6,251,635					
8 percent Transmission	0.73%			0.69%					
9 Revenue Requirement MRNR	36,736			13,047					
10 Revenue Requirement Total PNR	36,736			13,047					
11 percent MRNR	100%			100%					
12 Revenue Requirement PNRR	-			-					
13 percent PNRR	0%			0%					

Table 2J

**Corps/Bureau Transmission Plant, Investment, & Depreciation
(\$000s)**

		A	B	C	D	E	F	G	H
		<u>2012</u>	<u>2012</u>	<u>2012</u>	<u>2012</u>	<u>2013</u>	<u>2013</u>	<u>2013</u>	<u>2013</u>
		<u>GROSS</u>	<u>DEPREC</u>	<u>O&M</u>	<u>AVG NET</u>	<u>GROSS</u>	<u>DEPREC</u>	<u>O&M</u>	<u>AVG NET</u>
		<u>PLANT</u>	<u>EXP</u>		<u>PLANT</u>	<u>PLANT</u>	<u>EXP</u>		<u>PLANT</u>
1 Bureau of Reclamation									
2 COLUMBIA BASIN									
3	Network	59,890	799	3,410	38,999	59,890	799	3,325	38,200
4	Delivery	764	10	43	497	764	10	42	486
5	TOTAL	60,654	809	3,453	39,497	60,654	809	3,367	38,688
6 HUNGRY HORSE									
7	Network	2,041	27	84	1,131	2,041	27	89	1,104
8 MINIDOKA-PALISADES									
9	Network	1,313	18	978	931	1,313	18	1,041	913
10	Delivery	398	5	297	282	398	5	316	277
11	TOTAL	1,711	23	1,275	1,213	1,711	23	1,357	1,190
12 Corps of Engineers									
13 BONNEVILLE									
14	Network	3,000	40	69	2,030	3,000	40	71	1,990
15 TOTAL TRANSMISSION									
16	Network	66,244	884	4,541	43,091	66,244	884	4,526	42,207
17	Delivery	1,162	15	340	779	1,162	15	358	763
18	TOTAL	67,406	899	4,881	43,870	67,406	899	4,884	42,970

Table 2K

**Total F&W and A&G Costs
(\$000s)**

	A	B
	<u>2012</u>	<u>2013</u>
1 Fish & Wildlife	319,649	328,829
2 Amortization/Depreciation	47,544	51,003
4 Net Interest	60,437	68,397
5 Minimum Required Net Revenues	9,852	3,258
6 Planned Net Revenues for Risk	-	-
7 Subtotal	437,482	451,487
8 A&G Expense 1/	136,440	138,677
9 Revenue Credits:		
10 4h10C (non-operations)	64,089	64,979

1/ Power Marketing Sales & Support, Power Scheduling, Generation Oversight, Corporate Expense and 1/2 Planning Council

Table 2L

**Allocation of Interest Earned on the Bonneville Fund
(\$000s)**

	A	B
	<u>2012</u>	<u>2013</u>
1 Starting Reserve Balance	495,600	496,404
2 Adjustments for pre-2002 Transactions	804	-
3 Other Adjustments	<u>-</u>	<u>-</u>
4 Total Reserves for Composite Cost Pool (Line 1 + Line 2 + Line 3)	496,404	496,404
5 Interest rate	2.24%	3.60%
6 Composite Pool interest credit (Line 4 X Line 5)	(11,119)	(17,871)
7 Total interest credit from Rev Req	(12,481)	(16,654)
8 Non-Slice Pool interest credit (Line 7 - Line 6)	(1,362)	1,216

3. GENERATION EXPENSES

3.1 Introduction

This chapter compiles the expenses that are the basis for cost recovery in determination of generation revenue requirements for the rate approval period and the outyears.

3.2 Expenses

Table 3A displays the expenses used in the revenue requirement income statement and statement of cash flows of the Study. Revenue Requirement Study, BP-12-FS-BPA-02, Tables 4 and 5.

Table 3B displays the expense statement used in the revised revenue test in the Study. *Id.*, Tables 6 through 11. Table 3B includes expenses that are revised as a result of the rate development process such as Transmission Acquisition and Ancillary Services. *Id.*, Figure 1.

O&M program expenses are from the Integrated Program Review with revisions. *Id.* Federal Projects Depreciation calculations are found in Chapter 4 of this document. Interest expense is summarized here from the results of the annual generation repayment studies. The calculation of AFUDC is also shown in this chapter.

Debt service for Energy Northwest (EN) projects are based on the tables found in Chapter 8, Capitalized Contract Obligations, of this document.

COE and Reclamation O&M must be functionalized between generation and the transmission component that will be included in transmission rates.

Depreciation expense, calculated using the straight-line method, is functionalized according to the associated investment used in the calculations as identified in Chapter 4 of this document.

Interest expense is calculated in the repayment studies for generation using the generation capital appropriations and BPA revenue bonds issued to Treasury at individual interest rates.

Generation AFUDC is associated with BPA's direct funding of COE and Reclamation power-related capital projects.

Table 3A

Power Services Program Spending Levels
(\$000s)

		Rate Period	
		A	B
		FY 2012	FY 2013
1	Power System Generation Resources		
2	Operating Generation		
3	COLUMBIA GENERATING STATION	306,366	345,945
4	BUREAU OF RECLAMATION	111,972	119,891
5	CORPS OF ENGINEERS	208,700	215,700
6	LONG-TERM CONTRACT GENERATING PROJECTS	<u>25,079</u>	<u>25,832</u>
7	Sub-Total	<u>652,117</u>	<u>707,368</u>
8	Operating Generation Settlements and Other Payments		
9	COLVILLE GENERATION SETTLEMENT	21,928	22,148
10	SPOKANE LEGISLATION PAYMENT	<u>0</u>	<u>0</u>
11	Sub-Total	<u>21,928</u>	<u>22,148</u>
12	Non-Operating Generation		
13	TROJAN DECOMMISSIONING	1,500	1,500
14	WNP-1&3 DECOMMISSIONING	<u>438</u>	<u>448</u>
15	Sub-Total	<u>1,938</u>	<u>1,948</u>
16	Gross Contracted Power Purchases (excluding bookout adjustments) <Note 1		
17	DSI MONETIZED POWER SALES	0	0
18	PNCA HEADWATER BENEFITS	2,452	2,704
19	HEDGING/MITIGATION	43,073	43,073
20	OTHER POWER PURCHASES - (e.g. Short-Term)	<u>56,729</u>	<u>52,978</u>
21	Sub-Total	<u>102,254</u>	<u>98,755</u>
22	Bookout Adjustments to Contracted Power Purchases <Note 1	0	0
23	Augmentation Power Purchases (includes IOU Load Reduc. and Buy Backs)	0	0
24	AUGMENTATION POWER PURCHASES	0	66,150
25	CONSERVATION AUGMENTATION	<u>0</u>	<u>0</u>
26	Sub-Total	<u>0</u>	<u>66,150</u>
27	Exchanges & Settlements		
28	RESIDENTIAL EXCHANGE PROGRAM <Note 4	1,446	885
29	OTHER SETTLEMENTS	<u>0</u>	<u>0</u>
30	Sub-Total	<u>1,446</u>	<u>885</u>
31	Renewable Generation		
32	CONTRA-EXPENSE FOR GEP REVENUES	(2,625)	(2,625)
33	RENEWABLES	<u>37,670</u>	<u>38,142</u>
34	Sub-Total	<u>35,045</u>	<u>35,517</u>
35	Generation Conservation		
36	GENERATION CONSERVATION R&D	0	0
37	DSM TECHNOLOGY	0	0
38	CONSERVATION ACQUISITION	15,950	15,950
39	LOW INCOME WEATHERIZATION & TRIBAL	5,000	5,000
40	ENERGY EFFICIENCY DEVELOPMENT	11,500	11,500
41	LEGACY	1,000	900
42	MARKET TRANSFORMATION	<u>13,500</u>	<u>14,500</u>
43	Sub-Total	<u>46,950</u>	<u>47,850</u>
44	Conservation Rate Credit (CRC)	0	0
45	Power System Generation Sub-Total	860,233	979,735

Table 3A

Power Services Program Spending Levels
(\$000s)

		Rate Period	
		A	B
		FY 2012	FY 2013
46			
47	Power Non-Generation Operations		
48	Power Services System Operations		
49	EFFICIENCIES PROGRAM	0	0
50	INFORMATION TECHNOLOGY	7,143	7,316
51	GENERATION PROJECT COORDINATION	5,895	5,919
52	SLICE IMPLEMENTATION	<u>2,322</u>	<u>2,394</u>
53	Sub-Total	15,360	15,629
54	Power Services Scheduling		
55	OPERATIONS SCHEDULING	10,041	10,010
56	OPERATIONS PLANNING	<u>6,744</u>	<u>6,709</u>
57	Sub-Total	16,785	16,719
58	Power Services Marketing and Business Support		
59	POWER R&D	5,622	5,939
60	SALES & SUPPORT	19,745	20,130
61	PUBLIC COMMUNICATION & TRIBAL LIAISON	0	0
62	STRATEGY, FINANCE & RISK MGMT	16,469	17,412
63	EXECUTIVE AND ADMINISTRATIVE SERVICES	3,480	3,550
64	CONSERVATION SUPPORT	<u>9,555</u>	<u>9,686</u>
65	Sub-Total	54,870	56,717
66	Power Non-Generation Operations Sub-Total	87,014	89,065
67			
68	Power Services Transmission Acquisition and Ancillary Services		
69	PBL Transmission Acquisition and Ancillary Services		
70	POWER SERVICES TRANSMISSION & ANCILLARY SERVICES	92,946	89,030
71	3RD PARTY GTA WHEELING	52,263	52,891
72	POWER SERVICES - 3RD PARTY TRANS & ANCILLARY SVCS	2,221	2,244
73	GENERATION INTEGRATION	13,035	12,968
74	TELEMETERING/EQUIP REPLACEMT	<u>50</u>	<u>51</u>
75	Power Srvcs Trans Acquisition and Ancillary Services Sub-Total	160,516	157,184
76			
77	Fish and Wildlife/USF&W/Planning Council/Environmental Req		
78	BPA Fish and Wildlife (includes F&W Shared Services)		
79	Fish & Wildlife	237,394	241,384
80	USF&W Lower Snake Hatcheries	28,800	29,900
81	Planning Council	10,114	10,355
82	Environmental Requirements	<u>302</u>	<u>305</u>
83	Fish and Wildlife/USF&W/Planning Council Sub-Total	276,610	281,944
84			
85	BPA Internal Support		
86	Additional Post-Retirement Contribution	17,243	17,821
87	Agency Services G&A (excludes direct project support)	51,735	52,662
88	Shared Services (includes Supply Chain & excludes direct project support)	<u>0</u>	<u>0</u>
89	BPA Internal Support Sub-Total	68,978	70,483
90			

Table 3A

Power Services Program Spending Levels
(\$000s)

		Rate Period	
		A	B
		FY 2012	FY 2013
91	Bad Debt Expense	0	0
92	Other Income, Expenses, Adjustments	0	0
93	Non-Federal Debt Service		
94	Energy Northwest Debt Service		
95	COLUMBIA GENERATING STATION DEBT SVC	115,553	100,172
96	WNP-1 DEBT SVC	282,802	249,288
97	WNP-3 DEBT SVC	156,299	175,817
98	EN RETIRED DEBT	0	0
99	EN LIBOR INTEREST RATE SWAP	0	0
100	Sub-Total	554,654	525,277
101	Non-Energy Northwest Debt Service		
102	TROJAN DEBT SVC	0	0
103	CONSERVATION DEBT SVC	2,379	2,377
104	COWLITZ FALLS DEBT SVC	11,715	11,709
105	NORTHERN WASCO DEBT SVC	2,223	2,224
106	Sub-Total	<u>16,316</u>	<u>16,309</u>
107	Non-Federal Debt Service Sub-Total	570,970	541,586
108			
109			
110	Disaggregation of Selected Expenses From Revenue Requirement to RAM Cost Table		
111	RENEWABLES (line 33)	<u>37,670</u>	<u>38,142</u>
112	Tier 1 Augmentation Resource (i.e. Klondike III)	10,000	9,997
113	Renewable Generation (excl. Klondike III)	27,670	28,145
114			
115	POWER R&D (line 59)	<u>5,622</u>	<u>5,939</u>
116	Renewables R&D	5,622	5,939
117	PBL System Operations R&D	0	0
119	PBL Scheduling R&E	0	0
120			
121	POWER SERVICES TRANSMISSION & ANCILLARY SERVICES (line 70)	<u>92,946</u>	<u>89,031</u>
122	Transmission & Ancillary Services	61,239	57,324
123	Transmission & Ancillary Services (sys. oblig.)	31,707	31,707
124			
125	GENERATION INTEGRATION / WIT (line 73)	<u>13,035</u>	<u>12,968</u>
126	Generation Integration	8,865	8,709
127	Wind Integration Team (Transmission)	4,170	4,259
128			

Table 3B

**Power Services Program Spending Levels for Revenue Test
(\$000s)**

	A	B
	FY 2010	FY 2011
1 Power System Generation Resources		
2 Operating Generation		
3 COLUMBIA GENERATING STATION	306,366	345,945
4 BUREAU OF RECLAMATION	111,972	119,891
5 CORPS OF ENGINEERS	208,700	215,700
6 LONG-TERM CONTRACT GENERATING PROJECTS	<u>25,079</u>	<u>25,832</u>
7 Sub-Total	652,117	707,368
8 Operating Generation Settlements and Other Payments		
9 COLVILLE GENERATION SETTLEMENT	21,928	22,148
10 SPOKANE LEGISLATION PAYMENT	<u>0</u>	<u>0</u>
11 Sub-Total	21,928	22,148
12 Non-Operating Generation		
13 TROJAN DECOMMISSIONING	1,500	1,500
14 WNP-1&3 DECOMMISSIONING	<u>438</u>	<u>448</u>
15 Sub-Total	1,938	1,948
16 Gross Contracted Power Purchases (excluding bookout adjustments)		
17 DSI MONETIZED POWER SALES	0	0
18 PNCA HEADWATER BENEFITS	2,452	2,704
19 HEDGING/MITIGATION	43,073	43,073
20 OTHER POWER PURCHASES - (e.g. Short-Term)	<u>56,729</u>	<u>52,978</u>
21 Sub-Total	102,254	98,755
22 Bookout Adjustments to Contracted Power Purchases <Note 1	0	0
23 Augmentation Power Purchases (includes IOU Load Reduc. and Buy Backs)	0	0
24 AUGMENTATION POWER PURCHASES	0	66,150
25 CONSERVATION AUGMENTATION	<u>0</u>	<u>0</u>
26 Sub-Total	0	66,150
27 Exchanges & Settlements		
28 RESIDENTIAL EXCHANGE PROGRAM	1,446	885
29 OTHER SETTLEMENTS	<u>278,099</u>	<u>278,298</u>
30 Sub-Total	279,545	279,183
31 Renewable Generation		
33 CONTRA-EXPENSE FOR GEP REVENUES	(2,625)	(2,625)
34 RENEWABLES	<u>37,670</u>	<u>38,142</u>
35 Sub-Total	35,045	35,517
36 Generation Conservation		
37 GENERATION CONSERVATION R&D	0	0
38 DSM TECHNOLOGY	0	0
39 CONSERVATION ACQUISITION	15,950	15,950
40 LOW INCOME WEATHERIZATION & TRIBAL	5,000	5,000
41 ENERGY EFFICIENCY DEVELOPMENT	11,500	11,500
42 LEGACY	1,000	900
43 MARKET TRANSFORMATION	<u>13,500</u>	<u>14,500</u>
44 Sub-Total	46,950	47,850
45 Conservation Rate Credit (CRC)	<u>0</u>	<u>0</u>
46 Power System Generation Sub-Total	1,139,778	1,258,918

Table 3B

Power Services Program Spending Levels for Revenue Test
(\$000s)

	A	B
	FY 2010	FY 2011
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Table 3B

Power Services Program Spending Levels for Revenue Test
(\$000s)

	A	B
	FY 2010	FY 2011
87 BPA Internal Support		
88 Additional Post-Retirement Contribution	17,243	17,821
89 Agency Services G&A (excludes direct project support)	51,735	52,662
90 Shared Services (includes Supply Chain & excludes direct project support)	<u>0</u>	<u>0</u>
91 BPA Internal Support Sub-Total	68,978	70,483
92		
93 Bad Debt Expense	0	0
94 Other Income, Expenses, Adjustments	0	0
95 Non-Federal Debt Service		
96 Energy Northwest Debt Service		
97 COLUMBIA GENERATING STATION DEBT SVC	115,553	100,172
98 WNP-1 DEBT SVC	282,802	249,288
99 WNP-3 DEBT SVC	156,299	175,817
100 EN RETIRED DEBT	0	0
101 EN LIBOR INTEREST RATE SWAP	<u>0</u>	<u>0</u>
102 Sub-Total	554,654	525,277
103 Non-Energy Northwest Debt Service		
104 TROJAN DEBT SVC	0	0
105 CONSERVATION DEBT SVC	2,379	2,377
106 COWLITZ FALLS DEBT SVC	11,715	11,709
107 NORTHERN WASCO DEBT SVC	<u>2,223</u>	<u>2,224</u>
108 Sub-Total	<u>16,316</u>	<u>16,309</u>
109 Non-Federal Debt Service Sub-Total	570,970	541,586

Table 3C

**Summary of Generation Current Repayment Study Data
(\$000s)**

	A	B
	<u>2012</u>	<u>2013</u>
1 INTEREST EXPENSE (GROSS)		
2 CORPS	161,907	162,756
3 RECLAMATION	43,437	43,437
4 LOWER SNAKE RIVER COMPENSATION PLAN	<u>16,521</u>	<u>16,521</u>
5 TOTAL APPROPRIATIONS	221,866	222,715
6 BONDS ISSUED TO TREASURY	<u>57,681</u>	<u>74,830</u>
7 TOTAL INTEREST EXPENSE	279,546	297,545
8 PLANNED AMORTIZATION		
9 CORPS	53,000	0
10 BUREAU	0	-
11 LOWER SNAKE RIVER COMPENSATION PLAN	<u>-</u>	<u>-</u>
12 TOTAL APPROPRIATIONS	53,000	0
13 LONG-TERM DEBT	<u>140,000</u>	<u>122,800</u>
14 TOTAL GENERATION AMORTIZATION	193,000	122,800
15 IRRIGATION ASSISTANCE	<u>1,182</u>	<u>58,822</u>
16 TOTAL AMORTIZATION/IRRIGATION	194,182	181,622

Table 3D

**Federal Projects Depreciation Summary
(\$000s)**

	<u>A</u>	<u>B</u>
	2012	2013
1 BPA (PBL + CORP GP)	12,391	13,043
2 Corps 1/ 2/	85,565	88,285
3 Bureau	<u>24,213</u>	<u>26,232</u>
4 Total Depreciation	122,169	127,560
5 Amortization of Legacy Conservation	20,948	17,408
6 Amortization of ConAug	-	-
7 Amortization of Conservation Acquisitions	28,131	35,636
8 Amortization of CRFM Intangible Investment	6,094	6,094
9 Amortization of Fish & Wildlife	<u>25,856</u>	<u>27,629</u>
10 Total Amortization	81,029	86,767
11 Total Federal Projects Depreciation	203,198	214,327

1/ excludes depreciation from investments
paid for by BPA-TS

23

23

2/ Includes US Fish & Wildlife

3,166

3,166

Table 3E
Separation of Residential Exchange Program Support Costs
from Power Non-Generating Operations
(\$000s)

	A	B
	<u>2012</u>	<u>2013</u>
1 Strategy, Finance, & Risk Mgmt	17,907	18,289
2 Residential Exchange Program Support portion	<u>1,438</u>	<u>877</u>
3 Net to Power Non-Generating Operations	16,469	17,412
4 Executive & Administrative Svc	3,488	3,558
5 Residential Exchange Program Support portion	<u>8</u>	<u>8</u>
6 Net to Power Non-Generating Operations	3,480	3,550
7 Residential Exchange Program Support	1,446	885
8 Strategy, Finance, & Risk Mgmt (to Pwr NonGen Ops)	16,469	17,412
9 Executive & Administrative Svc (to Pwr NonGen Ops)	3,480	3,550

Table 3F

**Power Services Regulatory Assets
(\$000s)**

	A	B
	<u>FY 2012</u>	<u>FY 2013</u>
1 Terminated Nuclear Facilities	292,292	286,005
2 REP Refunds	76,537	76,537
3 Columbia River Fish Mitigation amortization	6,094	6,094
4 Conservation Measures		
5 Additions	104,000	111,000
6 Amortization	10,261	17,501
7 Direct Service Industries' benefit 1/	-	-
8 Fish and Wildlife Measures		
9 Additions	50,000	50,000
10 Amortization	25,856	27,629
11 Settlements	21,928	22,148
12 FECA 2/	-	-
13 Sponsored Conservation	2,110	2,212
14 Trojan Decommissioning/Restoration	1,500	1,500
15 Terminated Hydro Facilities	1,141	1,200
16 Capitalized Bond Premiums	185	185

1/ This is now modeled in the rate case as a power sale with offsetting augmentation purchases if needed.

2/ Not specifically broken out in expenses

4. FCRPS GENERATION INVESTMENT BASE

4.1 Introduction

This chapter documents the development of the FCRPS generation investment base by year for the rate approval period and the outyears. The investment data are the source of depreciation calculations and provide certain inputs to the generation repayment studies. It is also the basis for allocations of net interest expense and planned net revenues in the development of the COSA tables and the generation inputs to ancillary services.

4.2 Methodology

The FCRPS plant investment information is separately compiled for the COE, Reclamation, and BPA, including BPA conservation and fish and wildlife investments. BPA generation (general) plant investment consists of office furniture and fixtures and data processing software and hardware associated with the Power Business Line, including the Energy Efficiency Group. Historical investment data are taken from the supporting documents of FCRPS financial statements. All plant investment is depreciated and intangible plant is amortized using the straight-line method.

For BPA facilities, forecasted depreciation expense is calculated consistent with the group concept methodology used for plant accounting records. For general plant categories, average service lives incorporate an adjustment for salvage applicable to the individual groups. Both historical investment and forecasted additions are depreciated according to their adjusted group life.

BPA conservation investments use four different amortization schedules depending on when the investment occurred. Only three of these schedules are active during the rate period. Legacy investments, made before 2002, are amortized over 20 years. Conservation augmentation investments, made from 2002 through 2006, use a declining 10 year schedule ending in 2011. Conservation acquisition investments, made after 2006 through 2010, are amortized over 5 years. Conservation acquisition investments made after 2011 are amortized over 12 years.

BPA fish and wildlife investments are amortized over 15 years.

COE and Reclamation investments are depreciated according to the weighted-average service lives of the individual projects.

Projected investments and projected depreciation expenses are accumulated with historical amounts to provide projected cumulative investments and accumulated depreciation for each forecasted year.

The investment base is calculated for each year of the rate period and outyears as an annual average.

Table 4A

**FCRPS Investment Base
FY 2012
(\$000s)**

	A	B	C
	BALANCE-AS-OF		AVERAGE
	<u>9/30/2011</u>	<u>9/30/2012</u>	<u>2012</u>
1 CORPS OF ENGINEERS			
2 COMPLETED PLANT			
3 HYDROELECTRIC GEN	6,802,178	7,047,148	6,924,663
4 TRANSMISSION	3,000	3,000	3,000
5 TOTAL COMPLETED PLANT	6,805,178	7,050,148	6,927,663
6 ACCUMULATED DEPRECIATION			
7 HYDROELECTRIC GEN	2,091,108	2,182,750	2,136,929
8 TRANSMISSION	950	990	970
9 TOTAL ACCUMULATED DEPRECIATION	2,092,058	2,183,740	2,137,899
10 NET COMPLETED PLANT			
11 HYDROELECTRIC GEN	4,711,070	4,864,398	4,787,734
12 TRANSMISSION	2,050	2,010	2,030
13 TOTAL NET COMPLETED PLANT	4,713,120	4,866,408	4,789,764
14 BUREAU OF RECLAMATION			
15 COMPLETED PLANT			
16 HYDROELECTRIC GEN	1,657,599	1,845,553	1,751,576
17 TRANSMISSION	64,407	64,407	64,407
18 TOTAL COMPLETED PLANT	1,722,006	1,909,960	1,815,983
19 ACCUMULATED DEPRECIATION			
20 HYDROELECTRIC GEN	563,792	587,146	575,469
21 TRANSMISSION	22,138	22,997	22,568
22 TOTAL ACCUM DEPRECIATION	585,930	610,143	598,037
23 NET COMPLETED PLANT			
24 HYDROELECTRIC GEN	1,093,807	1,258,407	1,176,107
25 TRANSMISSION	42,269	41,410	41,839
26 TOTAL NET COMPLETED PLANT	1,136,076	1,299,817	1,217,946
27 CONSERVATION			
28 CUMULATIVE INVESTMENT	707,690	644,491	676,091
29 ACCUM PREPAID EXPENSE	516,340	398,220	457,280
30 NET CONSERVATION	191,350	246,271	218,811
31 FISH AND WILDLIFE			
32 CUMULATIVE INVESTMENT	379,253	401,189	390,221
33 ACCUM PREPAID EXPENSE	138,889	136,681	137,785
34 NET FISH AND WILDLIFE	240,364	264,508	252,436
35 BPA PLANT (PBL)			
36 CUMULATIVE INVESTMENT	67,137	87,489	77,313
37 ACCUMULATED DEPRECIATION	32,643	45,034	38,839
38 NET BPA PLANT INVESTMENT	34,494	42,455	38,474
39 TOTAL NET PLANT INVESTMENT	6,315,404	6,719,460	6,517,431

Table 4B

FCRPS Investment Base
 FY 2013
 (\$000s)

	A	B	C
	BALANCE-AS-OF		AVERAGE
	<u>9/30/2012</u>	<u>9/30/2013</u>	<u>2013</u>
1 CORPS OF ENGINEERS			
2 COMPLETED PLANT			
3 HYDROELECTRIC GEN	7,047,148	7,223,700	7,135,424
4 TRANSMISSION	3,000	3,000	3,000
5 TOTAL COMPLETED PLANT	7,050,148	7,226,700	7,138,424
6 ACCUMULATED DEPRECIATION			
7 HYDROELECTRIC GEN	2,182,750	2,277,112	2,229,931
8 TRANSMISSION	990	1,030	1,010
9 TOTAL ACCUMULATED DEPRECIATION	2,183,740	2,278,142	2,230,941
10 NET COMPLETED PLANT			
11 HYDROELECTRIC GEN	4,864,398	4,946,588	4,905,493
12 TRANSMISSION	2,010	1,970	1,990
13 TOTAL NET COMPLETED PLANT	4,866,408	4,948,558	4,907,483
14 BUREAU OF RECLAMATION			
15 COMPLETED PLANT			
16 HYDROELECTRIC GEN	1,845,553	1,960,457	1,903,005
17 TRANSMISSION	64,407	64,407	64,407
18 TOTAL COMPLETED PLANT	1,909,960	2,024,864	1,967,412
19 ACCUMULATED DEPRECIATION			
20 HYDROELECTRIC GEN	587,146	612,519	599,833
21 TRANSMISSION	22,997	23,856	23,427
22 TOTAL ACCUM DEPRECIATION	610,143	636,375	623,260
23 NET COMPLETED PLANT			
24 HYDROELECTRIC GEN	1,258,407	1,347,938	1,303,172
25 TRANSMISSION	41,410	40,551	40,980
26 TOTAL NET COMPLETED PLANT	1,299,817	1,388,489	1,344,152
27 CONSERVATION			
28 CUMULATIVE INVESTMENT	644,491	652,635	648,563
29 ACCUM PREPAID EXPENSE	398,220	348,408	373,314
30 NET CONSERVATION	246,271	304,227	275,249
31 FISH AND WILDLIFE			
32 CUMULATIVE INVESTMENT	401,189	429,194	415,191
33 ACCUM PREPAID EXPENSE	136,681	142,314	139,497
34 NET FISH AND WILDLIFE	264,508	286,880	275,694
35 BPA PLANT (PBL)			
36 CUMULATIVE INVESTMENT	87,489	106,738	97,114
37 ACCUMULATED DEPRECIATION	45,034	58,077	51,556
38 NET BPA PLANT INVESTMENT	42,455	48,661	45,558
39 TOTAL NET PLANT INVESTMENT	6,719,460	6,976,815	6,848,136

Table 4C

**FCRPS Investment Base
FY 2014
(\$000s)**

	A	B	C
	BALANCE-AS-OF		AVERAGE
	<u>9/30/2013</u>	<u>9/30/2014</u>	<u>2014</u>
1 CORPS OF ENGINEERS			
2 COMPLETED PLANT			
3 HYDROELECTRIC GEN	7,223,700	7,433,663	7,328,681
4 TRANSMISSION	3,000	3,000	3,000
5 TOTAL COMPLETED PLANT	7,226,700	7,436,663	7,331,681
6 ACCUMULATED DEPRECIATION			
7 HYDROELECTRIC GEN	2,277,112	2,374,462	2,325,787
8 TRANSMISSION	1,030	1,070	1,050
9 TOTAL ACCUMULATED DEPRECIATION	2,278,142	2,375,532	2,326,837
10 NET COMPLETED PLANT			
11 HYDROELECTRIC GEN	4,946,588	5,059,201	5,002,894
12 TRANSMISSION	1,970	1,930	1,950
13 TOTAL NET COMPLETED PLANT	4,948,558	5,061,131	5,004,844
14 BUREAU OF RECLAMATION			
15 COMPLETED PLANT			
16 HYDROELECTRIC GEN	1,960,457	2,032,957	1,996,707
17 TRANSMISSION	64,407	64,407	64,407
18 TOTAL COMPLETED PLANT	2,024,864	2,097,364	2,061,114
19 ACCUMULATED DEPRECIATION			
20 HYDROELECTRIC GEN	612,519	639,142	625,831
21 TRANSMISSION	23,856	24,715	24,286
22 TOTAL ACCUM DEPRECIATION	636,375	663,857	650,117
23 NET COMPLETED PLANT			
24 HYDROELECTRIC GEN	1,347,938	1,393,815	1,370,876
25 TRANSMISSION	40,551	39,692	40,121
26 TOTAL NET COMPLETED PLANT	1,388,489	1,433,507	1,410,997
27 CONSERVATION			
28 CUMULATIVE INVESTMENT	652,635	645,842	649,239
29 ACCUM PREPAID EXPENSE	348,408	281,257	314,833
30 NET CONSERVATION	304,227	364,585	334,406
31 FISH AND WILDLIFE			
32 CUMULATIVE INVESTMENT	429,194	464,446	446,820
33 ACCUM PREPAID EXPENSE	142,314	157,060	149,687
34 NET FISH AND WILDLIFE	286,880	307,386	297,133
35 BPA PLANT (PBL)			
36 CUMULATIVE INVESTMENT	106,738	125,823	116,281
37 ACCUMULATED DEPRECIATION	58,077	73,356	65,717
38 NET BPA PLANT INVESTMENT	48,661	52,467	50,564
39 TOTAL NET PLANT INVESTMENT	6,976,815	7,219,076	7,097,944

Table 4D

**FCRPS Investment Base
FY 2015
(\$000s)**

	A	B	C
	BALANCE-AS-OF		AVERAGE
	<u>9/30/2014</u>	<u>9/30/2015</u>	<u>2015</u>
1 CORPS OF ENGINEERS			
2 COMPLETED PLANT			
3 HYDROELECTRIC GEN	7,433,663	7,760,899	7,597,281
4 TRANSMISSION	3,000	3,000	3,000
5 TOTAL COMPLETED PLANT	7,436,663	7,763,899	7,600,281
6 ACCUMULATED DEPRECIATION			
7 HYDROELECTRIC GEN	2,374,462	2,474,744	2,424,603
8 TRANSMISSION	1,070	1,110	1,090
9 TOTAL ACCUMULATED DEPRECIATION	2,375,532	2,475,854	2,425,693
10 NET COMPLETED PLANT			
11 HYDROELECTRIC GEN	5,059,201	5,286,155	5,172,678
12 TRANSMISSION	1,930	1,890	1,910
13 TOTAL NET COMPLETED PLANT	5,061,131	5,288,045	5,174,588
14 BUREAU OF RECLAMATION			
15 COMPLETED PLANT			
16 HYDROELECTRIC GEN	2,032,957	2,087,393	2,060,175
17 TRANSMISSION	64,407	64,407	64,407
18 TOTAL COMPLETED PLANT	2,097,364	2,151,800	2,124,582
19 ACCUMULATED DEPRECIATION			
20 HYDROELECTRIC GEN	639,142	666,611	652,877
21 TRANSMISSION	24,715	25,574	25,145
22 TOTAL ACCUM DEPRECIATION	663,857	692,185	678,022
23 NET COMPLETED PLANT			
24 HYDROELECTRIC GEN	1,393,815	1,420,782	1,407,298
25 TRANSMISSION	39,692	38,833	39,262
26 TOTAL NET COMPLETED PLANT	1,433,507	1,459,615	1,446,560
27 CONSERVATION			
28 CUMULATIVE INVESTMENT	645,842	701,624	673,733
29 ACCUM PREPAID EXPENSE	281,257	248,753	265,005
30 NET CONSERVATION	364,585	452,871	408,728
31 FISH AND WILDLIFE			
32 CUMULATIVE INVESTMENT	464,446	500,548	482,497
33 ACCUM PREPAID EXPENSE	157,060	175,215	166,138
34 NET FISH AND WILDLIFE	307,386	325,333	316,359
35 BPA PLANT (PBL)			
36 CUMULATIVE INVESTMENT	125,823	144,427	135,125
37 ACCUMULATED DEPRECIATION	73,356	90,872	82,114
38 NET BPA PLANT INVESTMENT	52,467	53,555	53,011
39 TOTAL NET PLANT INVESTMENT	7,219,076	7,579,419	7,399,246

Table 4E

**FCRPS Investment Base
FY 2016
(\$000s)**

	A	B	C
	BALANCE-AS-OF		AVERAGE
	<u>9/30/2015</u>	<u>9/30/2016</u>	<u>2016</u>
1 CORPS OF ENGINEERS			
2 COMPLETED PLANT			
3 HYDROELECTRIC GEN	7,760,899	7,946,396	7,853,647
4 TRANSMISSION	3,000	3,000	3,000
5 TOTAL COMPLETED PLANT	7,763,899	7,949,396	7,856,647
6 ACCUMULATED DEPRECIATION			
7 HYDROELECTRIC GEN	2,474,744	2,578,476	2,526,610
8 TRANSMISSION	1,110	1,150	1,130
9 TOTAL ACCUMULATED DEPRECIATION	2,475,854	2,579,626	2,527,740
10 NET COMPLETED PLANT			
11 HYDROELECTRIC GEN	5,286,155	5,367,920	5,327,037
12 TRANSMISSION	1,890	1,850	1,870
13 TOTAL NET COMPLETED PLANT	5,288,045	5,369,770	5,328,907
14 BUREAU OF RECLAMATION			
15 COMPLETED PLANT			
16 HYDROELECTRIC GEN	2,087,393	2,139,995	2,113,694
17 TRANSMISSION	64,407	64,407	64,407
18 TOTAL COMPLETED PLANT	2,151,800	2,204,402	2,178,101
19 ACCUMULATED DEPRECIATION			
20 HYDROELECTRIC GEN	666,611	694,794	680,703
21 TRANSMISSION	25,574	26,433	26,004
22 TOTAL ACCUM DEPRECIATION	692,185	721,227	706,707
23 NET COMPLETED PLANT			
24 HYDROELECTRIC GEN	1,420,782	1,445,201	1,432,991
25 TRANSMISSION	38,833	37,974	38,403
26 TOTAL NET COMPLETED PLANT	1,459,615	1,483,175	1,471,394
27 CONSERVATION			
28 CUMULATIVE INVESTMENT	701,624	737,000	719,312
29 ACCUM PREPAID EXPENSE	248,753	158,046	203,400
30 NET CONSERVATION	452,871	578,954	515,912
31 FISH AND WILDLIFE			
32 CUMULATIVE INVESTMENT	500,548	534,055	517,301
33 ACCUM PREPAID EXPENSE	175,215	193,786	184,501
34 NET FISH AND WILDLIFE	325,333	340,269	332,800
35 BPA PLANT (PBL)			
36 CUMULATIVE INVESTMENT	144,427	154,141	149,284
37 ACCUMULATED DEPRECIATION	90,872	99,665	95,269
38 NET BPA PLANT INVESTMENT	53,555	54,476	54,015
39 TOTAL NET PLANT INVESTMENT	7,579,419	7,826,644	7,703,028

Table 4F

FCRPS Investment Base
FY 2017
(\$000s)

	A	B	C
	BALANCE-AS-OF		AVERAGE
	9/30/2016	9/30/2017	2017
1 CORPS OF ENGINEERS			
2 COMPLETED PLANT			
3 HYDROELECTRIC GEN	7,946,396	8,177,223	8,061,809
4 GEN INTEGRATION	3,000	3,000	3,000
5 TOTAL COMPLETED PLANT	7,949,396	8,180,223	8,064,809
6 ACCUMULATED DEPRECIATION			
7 HYDROELECTRIC GEN	2,578,476	2,684,986	2,631,731
8 GEN INTEGRATION	1,150	1,190	1,170
9 TOTAL ACCUMULATED DEPRECIATION	2,579,626	2,686,176	2,632,901
10 NET COMPLETED PLANT			
11 HYDROELECTRIC GEN	5,367,920	5,492,237	5,430,078
12 GEN INTEGRATION	1,850	1,810	1,830
13 TOTAL NET COMPLETED PLANT	5,369,770	5,494,047	5,431,908
14 BUREAU OF RECLAMATION			
15 COMPLETED PLANT			
16 HYDROELECTRIC GEN	2,139,995	2,168,816	2,154,406
17 GEN INTEGRATION	64,407	64,407	64,407
18 TOTAL COMPLETED PLANT	2,204,402	2,233,223	2,218,813
19 ACCUMULATED DEPRECIATION			
20 HYDROELECTRIC GEN	694,794	723,519	709,157
21 GEN INTEGRATION	26,433	27,292	26,863
22 TOTAL ACCUM DEPRECIATION	721,227	750,811	736,020
23 NET COMPLETED PLANT			
24 HYDROELECTRIC GEN	1,445,201	1,445,297	1,445,249
25 GEN INTEGRATION	37,974	37,115	37,544
26 TOTAL NET COMPLETED PLANT	1,483,175	1,482,412	1,482,793
27 CONSERVATION			
28 CUMULATIVE INVESTMENT	737,000	847,000	792,000
29 ACCUM PREPAID EXPENSE	158,046	227,380	192,713
30 NET CONSERVATION	578,954	619,620	599,287
31 FISH AND WILDLIFE			
32 CUMULATIVE INVESTMENT	534,055	577,953	556,004
33 ACCUM PREPAID EXPENSE	193,786	225,000	209,393
34 NET FISH AND WILDLIFE	340,269	352,953	346,611
35 BPA PLANT (PBL)			
36 CUMULATIVE INVESTMENT	154,141	173,679	163,910
37 ACCUMULATED DEPRECIATION	99,665	117,403	108,534
38 NET BPA PLANT INVESTMENT	54,476	56,276	55,376
39 TOTAL NET PLANT INVESTMENT	7,826,644	8,005,308	7,915,975

Power General Plant Investments (Including Corporate Allocation)
(\$000s)

Table 4G

FERC ACCOUNT 391.1 OFFICE FURNITURE AND FIXTURES
ASL, Remaining Life, Annual Percent=5.18% 9.9% as of FY 2006

	A	B	C	D	E	F	G	H
	<u>FY</u>	<u>INVEST</u>	<u>FIRST YEAR</u>	<u>FULL YEAR</u>	<u>ANNUAL DEPR</u>	<u>ACCUM DEPR</u>	<u>CUMUL INVEST</u>	<u>NET INVEST</u>
1	2011	-	-	-	95	1,240	1,909	669
2	2012	-	-	-	95	1,335	1,909	574
3	2013	-	-	-	95	1,430	1,909	479
4	2014	-	-	-	95	1,525	1,909	384
5	2015	-	-	-	95	1,620	1,909	289
6	2016	-	-	-	95	1,715	1,909	194
7	2017	-	-	-	95	1,810	1,909	99

Table 4H

FERC ACCOUNT 391.2 DATA PROCESSING EQUIPMENT
ASL, Remaining Life, Annual Percent=20% 18.07% as of FY 2006

	A	B	C	D	E	F	G	H
	<u>FY</u>	<u>INVEST</u>	<u>FIRST YEAR</u>	<u>FULL YEAR</u>	<u>ANNUAL DEPR</u>	<u>ACCUM DEPR</u>	<u>CUMUL INVEST</u>	<u>NET INVEST</u>
1	2011	-	-	-	1,871	7,610	9,356	1,746
2	2012	-	-	-	1,746	9,356	9,356	-
3	2013	-	-	-	-	9,356	9,356	-
4	2014	-	-	-	-	9,356	9,356	-
5	2015	-	-	-	-	9,356	9,356	-
6	2016	-	-	-	-	-	-	-
7	2017	-	-	-	-	-	-	-

**Power General Plant Investments (Including Corporate Allocation)
(\$000s)**

Table 4I

**FERC ACCOUNT 391.3 DATA PROCESSING SOFTWARE
18.33% as of FY 2006**

	A	B	C	D	E	F	G	H
	FY	INVEST	FIRST YEAR	FULL YEAR	ANNUAL DEPR	ACCUM DEPR	CUMUL INVEST	NET INVEST
1	2011	22,745	2,085	4,169	7,486	23,246	54,968	31,722
2	2012	20,352	1,866	3,731	10,496	33,742	75,320	41,578
3	2013	19,249	1,764	3,528	12,894	46,636	94,569	47,933
4	2014	19,085	1,749	3,498	15,130	61,766	113,654	51,888
5	2015	18,604	1,705	3,410	17,367	79,133	132,258	53,125
6	2016	19,070	1,748	3,496	18,000	97,133	151,328	54,195
7	2017	19,538	1,791	3,581	17,589	114,722	170,866	56,144

Table 4J

**FERC ACCOUNT 397 COMMUNICATION EQUIPMENT
ASL, Remaining Life, Annual Percent=6.02%**

	A	B	C	D	E	F	G	H
	FY	INVEST	FIRST YEAR	FULL YEAR	ANNUAL DEPR	ACCUM DEPR	CUMUL INVEST	NET INVEST
1	2011	-	-	-	54	547	904	357
2	2012	-	-	-	54	601	904	303
3	2013	-	-	-	54	655	904	249
4	2014	-	-	-	54	709	904	195
5	2015	-	-	-	54	763	904	141
6	2016	-	-	-	54	817	904	87
7	2017	-	-	-	54	871	904	33

Table 4K

SUMMARY - PBL GENERAL PLANT

	A	B	C	D	E
	FY	ANNUAL DEPR	ACCUM DEPR	CUMUL INVEST	NET INVEST
1	2011	9,506	32,643	67,137	34,494
2	2012	12,391	45,034	87,489	42,455
3	2013	13,043	58,077	106,738	48,661
4	2014	15,279	73,356	125,823	52,467
5	2015	17,516	90,872	144,427	53,555
6	2016	18,149	99,665	154,141	54,476
7	2017	17,738	117,403	173,679	56,276

Table 4L

**BPA FISH & WILDLIFE INVESTMENT
(\$000s)**

	A	B	C	D	E	F	G	H
	<u>FY</u>	<u>INVEST</u>	<u>FIRST YEAR</u>	<u>FULL YEAR</u>	<u>ANNUAL AMORT</u>	<u>ACCUM AMORT</u>	<u>CUMUL INVEST</u>	<u>NET INVEST</u>
1	2011	90,500	3,017	6,033	23,600	138,889	379,253	240,364
2	2012	50,000	1,667	3,333	25,856	136,681	401,189	264,508
3	2013	50,000	1,667	3,333	27,629	142,314	429,194	286,880
4	2014	50,000	1,667	3,333	29,494	157,060	464,446	307,386
5	2015	50,000	1,667	3,333	32,054	175,215	500,548	325,333
6	2016	50,000	1,667	3,333	35,063	193,786	534,055	340,269
7	2017	50,000	1,667	3,333	37,316	225,000	577,953	352,953

Table 4M

**BPA LEGACY CONSERVATION INVESTMENT
(\$000s)**

	A	B	C	D	E	F	G	H
	<u>FY</u>	<u>INVEST</u>	<u>FIRST YEAR</u>	<u>FULL YEAR</u>	<u>ANNUAL AMORT</u>	<u>ACCUM AMORT</u>	<u>CUMUL INVEST</u>	<u>NET INVEST</u>
1	2011	-	-	-	23,439	372,555	434,490	61,935
2	2012	-	-	-	20,948	331,352	372,339	40,987
3	2013	-	-	-	17,408	252,043	275,622	23,579
4	2014	-	-	-	13,930	150,943	160,592	9,649
5	2015	-	-	-	9,649	88,164	88,164	-
6	2016	-	-	-	-	-	-	-
7	2017	-	-	-	-	-	-	-

Table 4N

**BPA CONSERVATION AUGMENTATION INVESTMENT
(\$000s)**

	A	B	C	D	E	F	G	H
	<u>FY</u>	<u>INVEST</u>	<u>FIRST YEAR</u>	<u>FULL YEAR</u>	<u>ANNUAL AMORT</u>	<u>ACCUM AMORT</u>	<u>CUMUL INVEST</u>	<u>NET INVEST</u>
1	2011	-	-	-	13,335	105,048	105,048	-
2	2012	-	-	-	-	-	-	-
3	2013	-	-	-	-	-	-	-
4	2014	-	-	-	-	-	-	-
5	2015	-	-	-	-	-	-	-
6	2016	-	-	-	-	-	-	-
7	2017	-	-	-	-	-	-	-

Table 4O

BPA CONSERVATION ACQUISITIONS INVESTMENT
5-year Life (2007-2010 investments)
(\$000s)

	A	B	C	D	E	F	G	H
	<u>FY</u>	<u>INVEST</u>	<u>FIRST YEAR</u>	<u>FULL YEAR</u>	<u>ANNUAL AMORT</u>	<u>ACCUM AMORT</u>	<u>CUMUL INVEST</u>	<u>NET INVEST</u>
1	2011		-	-	17,631	35,403	88,152	52,749
2	2012		-	-	17,130	52,533	88,152	35,619
3	2013		-	-	15,677	62,071	82,013	19,942
4	2014		-	-	13,253	66,561	73,250	6,689
5	2015		-	-	6,689	56,460	56,460	-
6	2016		-	-	-	-	-	-
7	2017		-	-	-	-	-	-

Table 4P

BPA CONSERVATION ACQUISITIONS INVESTMENT
12-year Life (post-2011 investments)
(\$000s)

	A	B	C	D	E	F	G	H
	<u>FY</u>	<u>INVEST</u>	<u>FIRST YEAR</u>	<u>FULL YEAR</u>	<u>ANNUAL AMORT</u>	<u>ACCUM AMORT</u>	<u>CUMUL INVEST</u>	<u>NET INVEST</u>
1	2011	80,000	3,334	6,667	3,334	3,334	80,000	76,666
2	2012	104,000	4,334	8,667	11,001	14,335	184,000	169,665
3	2013	111,000	4,625	9,250	19,959	34,294	295,000	260,706
4	2014	117,000	4,875	9,750	29,459	63,753	412,000	348,247
5	2015	145,000	6,042	12,083	40,376	104,129	557,000	452,871
6	2016	180,000	7,500	15,000	53,917	158,046	737,000	578,954
7	2017	190,000	7,917	15,833	69,334	227,380	927,000	699,620
8	2018	190,000	7,917	15,833	85,167	312,547	1,117,000	804,453
9	2019	190,000	7,917	15,833	101,000	413,547	1,307,000	893,453
10	2020	190,000	7,917	15,833	116,833	530,380	1,497,000	966,620
11	2021	190,000	7,917	15,833	132,666	663,046	1,687,000	1,023,954
12	2022	190,000	7,917	15,833	148,499	811,545	1,877,000	1,065,455
13	2023	190,000	7,917	15,833	160,994	972,539	2,067,000	1,094,461
14	2024	190,000	7,917	15,833	169,160	1,138,365	2,177,000	1,038,635
15	2025	190,000	7,917	15,833	176,039	1,303,403	2,263,000	959,597
16	2026	190,000	7,917	15,833	182,372	1,465,816	2,342,000	876,184
17	2027	190,000	7,917	15,833	187,292	1,623,649	2,415,000	791,351
18	2028	190,000	7,917	15,833	189,580	1,772,853	2,460,000	687,147

Table 4Q

Bureau of Reclamation: Investment and Depreciation
(\$000s)

	A	B	C	D	E	F	G	H	I
1									
2									
3		INVESTMENT	2011	DEPR	ACCUM	INVESTMENT	2012	DEPR	ACCUM
4		<u>9/30/10</u>	<u>ADDTNS</u>	<u>EXP</u>	<u>DEPR</u>	<u>9/30/11</u>	<u>ADDTNS</u>	<u>EXP</u>	<u>DEPR</u>
5	BOISE								
6	GENERATION	29,088	295	390	9,815	29,383	1,865	404	10,219
7	COLUMBIA BASIN								
8	GENERATION	1,333,382	13,991	17,872	456,327	1,347,373	182,586	19,182	475,509
9	TRANSMISSION /DELIVER	60,655		809	20,754	60,655		809	21,563
10	TOTAL	1,394,037	13,991	18,681	477,081	1,408,028	182,586	19,991	497,072
11	GREEN SPRINGS								
12	GENERATION	10,821	4,285	173	8,560	15,106	50	202	8,762
13	HUNGRY HORSE								
14	GENERATION	131,400	6,235	1,794	53,672	137,635	2,143	1,849	55,521
15	TRANSMISSION /DELIVER	2,041		27	897	2,041		27	924
16	TOTAL	133,441	6,235	1,821	54,569	139,676	2,143	1,876	56,445
17	MINIDOKA-PALISADES								
18	GENERATION	112,113	100	1,496	31,624	112,213	1,260	1,505	33,129
19	TRANSMISSION /DELIVER	1,711		23	487	1,711		23	510
20	TOTAL	113,824	100	1,519	32,111	113,924	1,260	1,528	33,639
21	YAKIMA								
22	GENERATION	13,184	2,705	194	3,794	15,889	50	212	4,006
23									
24	TOTAL USBR	1,694,395	27,611	22,778	585,930	1,722,006	187,954	24,213	610,143
25									
26	GENERATION	1,629,988		21,919	563,792	1,657,599		23,354	587,146
27	TRANSMISSION	64,407		859	22,138	64,407		859	22,997
28	TOTAL	1,694,395		22,778	585,930	1,722,006		24,213	610,143

Table 4Q

Bureau of Reclamation: Investment and Depreciation
(\$000s)

	A	J	K	L	M	N	O	P	Q
1									
2									
3		INVESTMENT	2013	DEPR	ACCUM	INVESTMENT	2014	DEPR	ACCUM
4		<u>9/30/12</u>	<u>ADDTNS</u>	<u>EXP</u>	<u>DEPR</u>	<u>9/30/13</u>	<u>ADDTNS</u>	<u>EXP</u>	<u>DEPR</u>
5	BOISE								
6	GENERATION	31,248	125	417	10,636	31,373	129	419	11,055
7	COLUMBIA BASIN								
8	GENERATION	1,529,959	111,630	21,144	496,653	1,641,589	71,801	22,367	519,020
9	TRANSMISSION /DELIVER	60,655		809	22,372	60,655		809	23,181
10	TOTAL	1,590,614	111,630	21,953	519,025	1,702,244	71,801	23,176	542,201
11	GREEN SPRINGS								
12	GENERATION	15,156	50	202	8,964	15,206	52	203	9,167
13	HUNGRY HORSE								
14	GENERATION	139,778	350	1,866	57,387	140,128	362	1,871	59,258
15	TRANSMISSION /DELIVER	2,041		27	951	2,041		27	978
16	TOTAL	141,819	350	1,893	58,338	142,169	362	1,898	60,236
17	MINIDOKA-PALISADES								
18	GENERATION	113,473	100	1,514	34,643	113,573	104	1,515	36,158
19	TRANSMISSION /DELIVER	1,711		23	533	1,711		23	556
20	TOTAL	115,184	100	1,537	35,176	115,284	104	1,538	36,714
21	YAKIMA								
22	GENERATION	15,939	2,649	230	4,236	18,588	52	248	4,484
23									
24	TOTAL USBR	1,909,960	114,904	26,232	636,375	2,024,864	72,500	27,482	663,857
25									
26	GENERATION	1,845,553		25,373	612,519	1,960,457		26,623	639,142
27	TRANSMISSION	64,407		859	23,856	64,407		859	24,715
28	TOTAL	1,909,960		26,232	636,375	2,024,864		27,482	663,857

Table 4Q

Bureau of Reclamation: Investment and Depreciation
(\$000s)

	A	R	S	T	U	V	W	X	Y
1									
2									
3		INVESTMENT	2015	DEPR	ACCUM	INVESTMENT	2016	DEPR	ACCUM
4		<u>9/30/14</u>	<u>ADDTNS</u>	<u>EXP</u>	<u>DEPR</u>	<u>9/30/15</u>	<u>ADDTNS</u>	<u>EXP</u>	<u>DEPR</u>
5	BOISE								
6	GENERATION	31,502	134	421	11,476	31,636	3,035	442	11,918
7	COLUMBIA BASIN								
8	GENERATION	1,713,390	50,967	23,185	542,205	1,764,357	48,958	23,851	566,056
9	TRANSMISSION /DELIVER	60,655		809	23,990	60,655		809	24,799
10	TOTAL	1,774,045	50,967	23,994	566,195	1,825,012	48,958	24,660	590,855
11	GREEN SPRINGS								
12	GENERATION	15,258	54	204	9,371	15,312	55	205	9,576
13	HUNGRY HORSE								
14	GENERATION	140,490	3,120	1,894	61,152	143,610	388	1,917	63,069
15	TRANSMISSION /DELIVER	2,041		27	1,005	2,041		27	1,032
16	TOTAL	142,531	3,120	1,921	62,157	145,651	388	1,944	64,101
17	MINIDOKA-PALISADES								
18	GENERATION	113,677	107	1,516	37,674	113,784	111	1,518	39,192
19	TRANSMISSION /DELIVER	1,711		23	579	1,711		23	602
20	TOTAL	115,388	107	1,539	38,253	115,495	111	1,541	39,794
21	YAKIMA								
22	GENERATION	18,640	54	249	4,733	18,694	55	250	4,983
23									
24	TOTAL USBR	2,097,364	54,436	28,328	692,185	2,151,800	52,602	29,042	721,227
25									
26	GENERATION	2,032,957		27,469	666,611	2,087,393		28,183	694,794
27	TRANSMISSION	64,407		859	25,574	64,407		859	26,433
28	TOTAL	2,097,364		28,328	692,185	2,151,800		29,042	721,227

Table 4Q

Bureau of Reclamation: Investment and Depreciation
(\$000s)

	A	Z	AA	AB	AC	AD
1						
2						
3		INVESTMENT	2017	DEPR	ACCUM	INVESTMENT
4		9/30/16	ADDTNS	EXP	DEPR	9/30/17
5	BOISE					
6	GENERATION	34,671	143	463	12,381	34,814
7	COLUMBIA BASIN					
8	GENERATION	1,813,315	6,446	24,221	590,277	1,819,761
9	TRANSMISSION /DELIVER	60,655		809	25,608	60,655
10	TOTAL	1,873,970	6,446	25,030	615,885	1,880,416
11	GREEN SPRINGS					
12	GENERATION	15,367	57	205	9,781	15,424
13	HUNGRY HORSE					
14	GENERATION	143,998	402	1,923	64,992	144,400
15	TRANSMISSION /DELIVER	2,041		27	1,059	2,041
16	TOTAL	146,039	402	1,950	66,051	146,441
17	MINIDOKA-PALISADES					
18	GENERATION	113,895	21,716	1,663	40,855	135,611
19	TRANSMISSION /DELIVER	1,711		23	625	1,711
20	TOTAL	115,606	21,716	1,686	41,480	137,322
21	YAKIMA					
22	GENERATION	18,749	57	250	5,233	18,806
23						
24	TOTAL USBR	2,204,402	28,821	29,584	750,811	2,233,223
25						
26	GENERATION	2,139,995		28,725	723,519	2,168,816
27	TRANSMISSION	64,407		859	27,292	64,407
28	TOTAL	2,204,402		29,584	750,811	2,233,223

Table 4R

Corps of Engineers: Investment and Depreciation
(\$000s)

	A	B	C	D	E	F	G	H	I	J
1										
2			INVESTMENT	2011	DEPR	ACCUM	INVESTMENT	2012	DEPR	ACCUM
3			<u>9/30/10</u>	<u>ADDTNS</u>	<u>EXP</u>	<u>DEPR</u>	<u>9/30/11</u>	<u>ADDTNS</u>	<u>EXP</u>	<u>DEPR</u>
4		BONNEVILLE								
5		GENERATION	1,053,355	81,546	14,588	334,136	1,134,901	24,740	15,297	349,433
6		TRANSMISSION	3,000		40	950	3,000		40	990
7		TOTAL	1,056,355	81,546	14,628	335,086	1,137,901	24,740	15,337	350,423
8		OTHER PROJECTS								
9		(GENERATION ONLY)								
10		ALBENI FALLS	48,959	5,188	687	21,519	54,147	2,588	739	22,258
11		CHIEF JOSEPH	617,276	1,939	8,243	269,348	619,215	13,154	8,344	277,692
12		COUGAR	85,246	166	1,138	9,631	85,412	2,549	1,156	10,787
13		DETROIT-BIG CLIFF	64,399	8,947	918	25,208	73,346	28,045	1,165	26,373
14		DWORSHAK	305,423	10,152	4,140	102,025	315,575	307	4,210	106,235
15		GREEN PETER-FOSTER	56,804	2,287	773	21,786	59,091	359	790	22,576
16		HILLS CREEK	21,249	4,539	314	11,334	25,788	144	345	11,679
17		ICE HARBOR	173,874	7,492	2,368	74,492	181,366	7,610	2,469	76,961
18		JOHN DAY	523,889	905	6,991	204,249	524,794	17,297	7,113	211,362
19		LIBBY	441,018	3,090	5,901	141,194	444,108	3,487	5,945	147,139
20		LITTLE GOOSE	225,028	4,676	3,032	94,485	229,704	1,544	3,073	97,558
21		LOOKOUT POINT-DEXTER	62,066	1,065	835	38,745	63,131	2,856	861	39,606
22		LOST CREEK	28,620	161	383	10,788	28,781	179	385	11,173
23		LOWER GRANITE	373,565	20,185	5,115	124,616	393,750	7,437	5,300	129,916
24		LOWER MONUMENTAL	255,185	6,677	3,447	104,175	261,862	9,423	3,554	107,729
25		MCNARY	359,040	14,056	4,881	182,656	373,096	3,836	5,000	187,656
26		THE DALLES	416,142	41,895	5,828	190,321	458,037	16,135	6,215	196,536
27		LOWER SNAKE F&W	242,683		3,236	4,963	242,683		3,236	8,199
28		COLUMBIA R. FISH BYPASS	1,027,556	205,834	13,701	125,437	1,233,390	103,279	16,445	141,882
29		TOTAL OTHER	5,328,022	339,255	71,931	1,756,972	5,667,277	220,231	76,345	1,833,317
30										
31		TOTAL CORPS	6,384,377	420,801	86,559	2,092,058	6,805,178	244,971	91,682	2,183,740
32										
33		GENERATION	6,381,377		86,519	2,091,108	6,802,178		91,642	2,182,750
34		TRANSMISSION	3,000		40	950	3,000		40	990
35		TOTAL	6,384,377		86,559	2,092,058	6,805,178		91,682	2,183,740
36										
37		1/ Includes FAS 71 Intangible Asset	457,019		6,094	26,201	457,019		6,094	32,295
38										
39			<u>Gross Plant</u>	<u>Net Plant</u>		<u>Acc Dep</u>	<u>Gross Plant</u>	<u>Net Plant</u>		<u>Acc Dep</u>
40		COE portion of Big 10	3,997,354	2,473,369		1,578,478	4,176,724	2,598,246		1,634,843
41		F&W portion	1,270,239	1,156,776		130,400	1,476,073	1,345,673		150,081

Table 4R

Corps of Engineers: Investment and Depreciation
 (\$000s)

	A	B	K	L	M	N	O	P	Q	R
1										
2			INVESTMENT	2013	DEPR	ACCUM	INVESTMENT	2014	DEPR	ACCUM
3			<u>9/30/12</u>	<u>ADDTNS</u>	<u>EXP</u>	<u>DEPR</u>	<u>9/30/13</u>	<u>ADDTNS</u>	<u>EXP</u>	<u>DEPR</u>
4		BONNEVILLE								
5		GENERATION	1,159,641	8,125	15,516	364,949	1,167,766	17,074	15,684	380,633
6		TRANSMISSION	3,000		40	1,030	3,000		40	1,070
7		TOTAL	1,162,641	8,125	15,556	365,979	1,170,766	17,074	15,724	381,703
8		OTHER PROJECTS								
9		(GENERATION ONLY)								
10		ALBENI FALLS	56,735	5,764	795	23,053	62,499	6,142	874	23,927
11		CHIEF JOSEPH	632,369	4,372	8,461	286,153	636,740	105,805	9,195	295,348
12		COUGAR	87,961	177	1,174	11,961	88,138	184	1,176	13,137
13		DETROIT-BIG CLIFF	101,391	193	1,353	27,726	101,584	200	1,356	29,082
14		DWORSHAK	315,882	299	4,214	110,449	316,182	310	4,218	114,667
15		GREEN PETER-FOSTER	59,451	347	795	23,371	59,798	359	800	24,171
16		HILLS CREEK	25,932	136	347	12,026	26,068	141	349	12,375
17		ICE HARBOR	188,976	3,013	2,540	79,501	191,989	786	2,565	82,066
18		JOHN DAY	542,091	2,899	7,247	218,609	544,990	6,049	7,307	225,916
19		LIBBY	447,595	214	5,969	153,108	447,809	221	5,972	159,080
20		LITTLE GOOSE	231,248	2,943	3,103	100,661	234,191	7,037	3,169	103,830
21		LOOKOUT POINT-DEXTER	65,988	225	881	40,487	66,213	233	884	41,371
22		LOST CREEK	28,961	2,254	401	11,574	31,215	179	417	11,991
23		LOWER GRANITE	401,187	3,995	5,376	135,292	405,182	4,093	5,430	140,722
24		LOWER MONUMENTAL	271,284	4,092	3,644	111,373	275,376	4,014	3,698	115,071
25		MCNARY	376,932	1,460	5,035	192,691	378,392	1,511	5,055	197,746
26		THE DALLES	474,173	19,569	6,453	202,989	493,742	1,039	6,590	209,579
27		LOWER SNAKE F&W	242,683		3,236	11,435	242,683		3,236	14,671
28		COLUMBIA R. FISH BYPASS	1,336,669	116,473	17,822	159,704	1,453,142	54,588	19,375	179,079
29		TOTAL OTHER	5,887,507	168,426	78,846	1,912,163	6,055,934	192,889	81,666	1,993,829
30										
31		TOTAL CORPS	7,050,148	176,551	94,402	2,278,142	7,226,700	209,963	97,390	2,375,532
32										
33		GENERATION	7,047,148		94,362	2,277,112	7,223,700		97,350	2,374,462
34		TRANSMISSION	3,000		40	1,030	3,000		40	1,070
35		TOTAL	7,050,148		94,402	2,278,142	7,226,700		97,390	2,375,532
36										
37		1/ Includes FAS 71 Intangible Asset	457,019		6,094	38,389	457,019		6,094	44,483
38										
39			<u>Gross Plant</u>	<u>Net Plant</u>		<u>Acc Dep</u>	<u>Gross Plant</u>	<u>Net Plant</u>		<u>Acc Dep</u>
40		COE portion of Big 10	4,277,901	2,643,058		1,692,218	4,328,369	2,636,151		1,750,911
41		F&W portion	1,579,352	1,429,271		171,139	1,695,825	1,524,686		193,750

Table 4R

Corps of Engineers: Investment and Depreciation
(\$000s)

	A	B	S	T	U	V	W	X	Y	Z
1										
2			INVESTMENT	2015	DEPR	ACCUM	INVESTMENT	2016	DEPR	ACCUM
3			<u>9/30/14</u>	<u>ADDTNS</u>	<u>EXP</u>	<u>DEPR</u>	<u>9/30/15</u>	<u>ADDTNS</u>	<u>EXP</u>	<u>DEPR</u>
4		BONNEVILLE								
5		GENERATION	1,184,840	4,885	15,830	396,463	1,189,725	20,681	16,001	412,464
6		TRANSMISSION	3,000		40	1,110	3,000		40	1,150
7		TOTAL	1,187,840	4,885	15,870	397,573	1,192,725	20,681	16,041	413,614
8		OTHER PROJECTS								
9		(GENERATION ONLY)								
10		ALBENI FALLS	68,641	246	917	24,844	68,887	254	920	25,764
11		CHIEF JOSEPH	742,545	1,077	9,908	305,256	743,623	1,115	9,922	315,178
12		COUGAR	88,322	190	1,179	14,316	88,512	197	1,181	15,497
13		DETROIT-BIG CLIFF	101,784	207	1,358	30,440	101,991	214	1,361	31,801
14		DWORSHAK	316,491	321	4,222	118,889	316,812	332	4,226	123,115
15		GREEN PETER-FOSTER	60,157	2,524	819	24,990	62,681	385	838	25,828
16		HILLS CREEK	26,210	25,310	518	12,893	51,520	151	688	13,581
17		ICE HARBOR	192,775	814	2,576	84,642	193,589	842	2,587	87,229
18		JOHN DAY	551,039	1,038	7,354	233,270	552,077	1,074	7,368	240,638
19		LIBBY	448,031	229	5,975	165,055	448,260	237	5,978	171,033
20		LITTLE GOOSE	241,227	713	3,221	107,051	241,940	738	3,231	110,282
21		LOOKOUT POINT-DEXTER	66,446	36,343	1,128	42,499	102,788	250	1,372	43,871
22		LOST CREEK	31,394	185	420	12,411	31,579	192	422	12,833
23		LOWER GRANITE	409,275	850	5,463	146,185	410,125	880	5,474	151,659
24		LOWER MONUMENTAL	279,389	758	3,730	118,801	280,147	784	3,741	122,542
25		MCNARY	379,904	98,312	5,721	203,467	478,215	8,894	6,435	209,902
26		THE DALLES	494,781	1,075	6,604	216,183	495,855	1,112	6,619	222,802
27		LOWER SNAKE F&W	242,683		3,236	17,907	242,683		3,236	21,143
28		COLUMBIA R. FISH BYPASS	1,507,730	152,160	20,103	199,182	1,659,890	147,165	22,132	221,314
29		TOTAL OTHER	6,248,823	322,351	84,452	2,078,281	6,571,174	164,816	87,731	2,166,012
30										
31		TOTAL CORPS	7,436,663	327,236	100,322	2,475,854	7,763,899	185,497	103,772	2,579,626
32										
33		GENERATION	7,433,663		100,282	2,474,744	7,760,899		103,732	2,578,476
34		TRANSMISSION	3,000		40	1,110	3,000		40	1,150
35		TOTAL	7,436,663		100,322	2,475,854	7,763,899		103,772	2,579,626
36										
37		1/ Includes FAS 71 Intangible Asset	457,019		6,094	50,577	457,019		6,094	56,671
38										
39			<u>Gross Plant</u>	<u>Net Plant</u>		<u>Acc Dep</u>	<u>Gross Plant</u>	<u>Net Plant</u>		<u>Acc Dep</u>
40		COE portion of Big 10	4,475,775	2,724,864		1,811,318	4,585,297	2,773,979		1,872,696
41		F&W portion	1,750,413	1,556,663		217,089	1,902,573	1,685,484		242,457

Table 4R

**Corps of Engineers: Investment and Depreciation
(\$000s)**

	A	B	AA	AB	AC	AD	AE	AF
1								
2			INVESTMENT	2017	DEPR	ACCUM	INVESTMENT	
3			<u>9/30/16</u>	<u>ADDTNS</u>	<u>EXP</u>	<u>DEPR</u>	<u>9/30/17</u>	
4		BONNEVILLE						
5		GENERATION	1,210,406	1,602	16,149	428,613	1,212,008	
6		TRANSMISSION	3,000		40	1,190	3,000	
7		TOTAL	1,213,406	1,602	16,189	429,803	1,215,008	
8		OTHER PROJECTS						
9		(GENERATION ONLY)						
10		ALBENI FALLS	69,141	3,018	942	26,706	72,159	
11		CHIEF JOSEPH	744,738	66,966	10,376	325,554	811,703	
12		COUGAR	88,709	204	1,184	16,681	88,912	
13		DETROIT-BIG CLIFF	102,205	221	1,364	33,165	102,426	
14		DWORSHAK	317,144	344	4,231	127,346	317,488	
15		GREEN PETER-FOSTER	63,065	398	844	26,672	63,464	
16		HILLS CREEK	51,671	156	690	14,271	51,827	
17		ICE HARBOR	194,431	872	2,598	89,827	195,302	
18		JOHN DAY	553,151	1,112	7,383	248,021	554,263	
19		LIBBY	448,497	3,000	6,000	177,033	451,497	
20		LITTLE GOOSE	242,678	763	3,241	113,523	243,441	
21		LOOKOUT POINT-DEXTER	103,038	258	1,376	45,247	103,296	
22		LOST CREEK	31,771	198	425	13,258	31,969	
23		LOWER GRANITE	411,005	911	5,486	157,145	411,916	
24		LOWER MONUMENTAL	280,931	812	3,751	126,293	281,743	
25		MCNARY	487,109	1,676	6,506	216,408	488,785	
26		THE DALLES	496,968	1,151	6,634	229,436	498,119	
27		LOWER SNAKE F&W	242,683		3,236	24,379	242,683	
28		COLUMBIA R. FISH BYPASS	1,807,055	147,165	24,094	245,408	1,954,220	
29		TOTAL OTHER	6,735,990	229,225	90,361	2,256,373	6,965,215	
30								
31		TOTAL CORPS	7,949,396	230,827	106,550	2,686,176	8,180,223	
32								
33		GENERATION	7,946,396		106,510	2,684,986	8,177,223	
34		TRANSMISSION	3,000		40	1,190	3,000	
35		TOTAL	7,949,396		106,550	2,686,176	8,180,223	
36								
37		1/ Includes FAS 71 Intangible Asset	457,019		6,094	62,765	457,019	
38								
39			<u>Gross Plant</u>	<u>Net Plant</u>		<u>Acc Dep</u>	<u>Gross Plant</u>	<u>Net Plant</u>
40		COE portion of Big 10	4,621,417	2,748,721		1,934,820	4,697,281	2,762,461
41		F&W portion	2,049,738	1,807,281		269,787	2,196,903	1,927,116

5. PROJECTED CASH BALANCES / INTEREST CREDITS

5.1 Introduction

This chapter documents the projection of the generation interest income (credited to interest expense) to be earned during the rate approval period and the outyears on BPA's projected cash balances and on funds attributable to generation to be returned to Treasury at year-end.

5.2 Interest credits on projected cash balances

The internal cash flows from revenue requirements are added to the ending rate period cash balances and averaged. The projected interest earnings rate, the projected weighted average interest rate on outstanding bonds from the end of the previous year, is multiplied by the average cash balance to determine the annual interest income. The resulting interest income is applied as a credit against interest expense in the generation revenue requirements.

5.3 Interest income (repayment program calculation)

The interest income rates listed in this chapter are calculated and used in repayment studies to determine an interest income credit on funds collected during each year for year-end payment of amortization and interest on COE and Reclamation appropriations and bonds BPA issued to Treasury. The repayment program assumes that cash accumulates at a uniform rate throughout the year, except for interest paid on bonds issued to Treasury at mid-year.

TABLE 5A
Interest Income from Projected Cash Balances
Generation Revenue Requirement
(\$000s)

	A	B
	<u>2012</u>	<u>2013</u>
1 Annual Cash Surplus/(Deficit)	-	-
2 SOY Cash Balance 1/	211,000	211,000
3 EOY Cash Balance	211,000	211,000
4 Average Cash Balance	211,000	211,000
5 Interest Income Rate	2.24%	3.60%
6 Repayment Study Interest Income	7,755	9,058
7 Annual Interest Income	12,481	16,654
1/ Deferred Borrowing	32,000	

Table 5B
Interest Income from Projected Cash Balances
Generation Current Revenue Test
(\$000s)

	A	B
	<u>2012</u>	<u>2013</u>
1 Annual Cash Surplus/(Deficit)	(65,767)	(123,401)
2 Adjustments (GEP)	(2,625)	(2,625)
3 SOY Cash Balance 1/	211,000	142,608
4 EOY Cash Balance	142,608	16,582
5 Average Cash Balance	176,804	79,595
6 Interest Income Rate	2.24%	3.60%
7 Repayment Study Interest Income	7,755	9,058
8 Annual Interest Income	11,715	11,923
9 credit for end of prior year	4,726	5,556
10 in-year cash flow (rep study)	7,755	9,058
11 total credit for first interation	12,481	14,614

Table 5C
Interest Income from Projected Cash Balances
Generation Revised Revenue Test
(\$000s)

	A	B
	<u>2012</u>	<u>2013</u>
1 Annual Cash Surplus/(Deficit)	15,367	(17,203)
2 Adjustments (GEP)	(2,625)	(2,625)
3 SOY Cash Balance 1/	211,000	223,742
4 EOY Cash Balance	223,742	203,914
5 Average Cash Balance	217,371	213,828
6 Interest Income Rate	2.24%	3.60%
7 Repayment Study Interest Income	7,755	9,058
8 Annual Interest Income	12,624	16,756
9 credit for end of prior year	4,726	8,509
10 in-year cash flow (rep study)	7,755	9,058
11 total credit for first interation	12,481	17,567

6. INTEREST RATES FOR TREASURY SOURCES OF CAPITAL AND PRICE DEFLATORS

6.1 Introduction

Interest rates on bonds issued by BPA to Treasury and interest rates for COE and Reclamation appropriations are used in development of repayment studies and projections of Federal interest expense in revenue requirements. Price deflators are used for developing spending levels in revenue requirements.

6.2 Source of Forecasts

To project interest rates on bonds issued to Treasury, BPA uses Treasury yield curve forecasts provided by the Global Insights Group (GI). GI is also the source of price deflators that BPA treats as escalators for purposes of developing spending levels. GI develops the price deflators taking into account projections of Gross Domestic Product (GDP). The GDP consists of the sum of consumption, investment, government purchases and net exports, excluding transfers to foreigners.

6.3 Interest Rate Projections

Projected interest rates for BPA bonds issued to Treasury are based on GI's yield curve projections of Treasury market rates, plus a markup of up to 150 basis points depending on the length of time to maturity. The markup estimate reflects an interagency agreement that Treasury price BPA bonds at a level comparable to securities (bonds) issued by U.S. government corporations. The markup estimate reflects the average basis point markup on recent intermediate and long-term bonds issued by BPA. As noted in the attached transmittal memo documenting the interest rates in this revenue requirement study, for the FY 2012-2013 period the 30-year rate reflects a markup of 190 and 150 basis points respectively.

Interest rates on projected capital investments funded by appropriations are also based on GI's projections of Treasury yield curves. The yield curves used for appropriations do not include the basis point markup.

6.4 Deflators

The current and cumulative price deflator used to escalate midyear dollars are derived from the fiscal and calendar year price deflators provided by GI. They are calculated as follows:

$$[(FY1/100) \times 0.5] + 1 = \text{Cumulative Price Deflator}_1$$

The fiscal year GDP price deflator for the current year is divided by one hundred and multiplied by one half. The result, when added to one, yields the cumulative price deflator for the first year.

$$[1 + (FYt/100)] \times \text{Cumulative Price Deflator}_{-1} = \text{Cumulative Price Deflator}_t, \text{ when } t > 1$$

The fiscal year GDP price deflator for a future year is divided by one hundred and added to one. The result, when multiplied by the cumulative price deflator from the previous year, yields the cumulative price deflator for the each successive year.

To the extent deflators are used in developing the FY 2012-2013 spending levels they are based on the price deflators from the Third Quarter 2010 GI forecast.

memorandum

DATE: **DEC 20 2010**

REPLY TO
ATTN OF: FTC-2

SUBJECT: FY 2011 Common Agency Assumptions

to: See Attached "cc:" List

Please see the attached BPA borrowing rate and inflation assumptions for the period FY 2011 through 2040.

These forecasts provide an internally consistent basis for BPA decisions regarding: debt management, budget formulation, and other financial analyses, as well as capital budgeting, and strategic planning efforts. The FY 2011 forecast is summarized in the following tables:

- Table 1: 30-year Treasury Borrowing Rate
- Table 2: 30-year Rate Comparison (FY 2011 vs. FY 2010 Forecast)
- Table 3: 20-year Treasury Borrowing Rate
- Table 4: 15-year Treasury Borrowing Rate
- Table 5: Appropriation Term Rates
- Table 6: BPA Treasury Term Rates
- Table 7: Third-party taxable Term Rates
- Table 8: Third-party tax-exempt Term Rates
- Table 9: FERC (Prime Rate)
- Table 10: LIBOR 3-Month Rate
- Table 11: Projected change in the GDP price deflator
- Table 12: Summary of equivalent cumulative discount rates

BPA's 30-year Treasury borrowing rate is projected to be 50 basis points (bp) less than the FY 2010 forecast in 2011. The FY 2011 inflation rate projection is essentially the same as the FY 2010 forecast. Inflation is only 0.14 percentage points lower than the FY 2010 forecast in 2011.

Borrowing Rate Forecast Methodology

The FY 2011 forecast is based on the Global Insight (GI) Third Quarter September 2010 Long-Term Economic Outlook.

Table 1 illustrates the components of BPA's Treasury borrowing rate forecast. GI calendar year (CY) projections of 30-year Treasury bond yields are shown in Column A. BPA fiscal year projections are shown in Column B. Column C reflects BPA's Treasury borrowing rate.

BPA borrowing rates from the U.S. Treasury reflect a mark-up over the Treasury yield curve. The markup is based upon the Government Agency borrowing rate spread over the Treasury

yield curve, and where appropriate, an adder for call option premiums embedded in BPA Treasury borrowings.

Beyond FY 2011, BPA's Treasury borrowing rate spread over the U.S. Treasury yield curve is projected to generally narrow.

BPA Borrowing Forecasts

The FY 2011 forecast begins in an environment of recovery from financial crisis of historical proportions. Major uncertainties surrounding BPA borrowing rate projections now focus on the pace of economic recovery.

The Agency FY 2011 outlook suggests that BPA borrowing rates will increase significantly in 2012 and 2013 as they converge to a long-term equilibrium in 2016.

The borrowing rate on FCRPS Appropriations over a 2-year term is projected to increase 2.97 percentage points, from a prescribed rate of 0.65 percent in FY 2011 to 3.62 percent in 2013. The Appropriation borrowing rate over a 10-year term is projected to increase 1.80 percentage points from 2.74 percent in FY 2011 to 4.54 percent in 2013. Note: Appropriation borrowing rates in FY 2011 are set by the U.S. Treasury at the beginning of the fiscal year and do not reflect the full extent of decline reflected in other sources of financing.

The 10-year rate on BPA's Treasury borrowing is expected to increase 1.37 percentage points from 3.80 percent in FY 2011 to 5.17 percent in FY 2013. The Third-party taxable 10-year rate is expected to increase 1.90 percentage points from 4.16 percent to 6.06 percent in 2013, and the Third-party tax-exempt 10-year rate increases 1.38 percentage points from 3.04 percent to 4.42 percent in FY 2013. Beyond 2015, BPA borrowing rates reflect a long-term equilibrium rate.

The FY 2011 forecast includes borrowing rates based on the Prime rate and a short-term LIBOR. The Prime rate increases 2.90 percentage points over the next three years from 3.29 percent in FY 2011 to 6.19 percent in FY 2013. LIBOR rates are projected to increase 3.14 percentage points from 0.78 percent in FY 2011 to 3.92 percent in FY 2013.

The FY 2011 outlook expects rates across the yield curve to remain low through FY 2011. This expectation reflects a lower trajectory for interest rates than was assumed in FY 2010.

Inflation Forecast

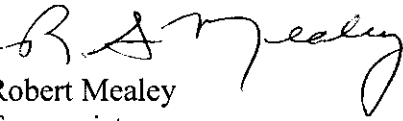
BPA inflation assumptions reflect projected changes in the U.S. Gross Domestic Product (GDP) Price Deflator. The GDP Price Deflator is the broadest measure of inflation in the U.S. economy. GDP reflects the value of all goods and services produced by domestic and foreign capital and labor within the United States. Major components of GDP include: total consumption, investment, government purchases, and net exports. The real GDP calculations reflect both the changing mix of the components in GDP and the relative price changes in these components.

This index assumes a base year of 2005. The projected change in the GDP price deflator and comparison with the FY 2010 inflation forecast is summarized in Table 11. Column A shows the projected trend in GDP inflation rates between 2011-2040 on a calendar year basis and in column B by BPA fiscal year. Column C provides the cumulative price index projections. The forecast expresses fiscal year dollar values as mid-year dollar values.

The GI September 2010 Base Case forecast assumes inflation will remain subdued over the long-term. Slower growth and greater slack in the economy reduces inflationary pressures.

Inflationary pressures remain relatively stable throughout the forecast period. Inflation slows to a 1.15 percent annual rate in FY 2011. The pace of inflation increases to 1.36 percent in FY 2012 compared to an FY 2010 estimate of 1.49 percent. Inflation reaches an annual rate of 1.84 percent in FY 2015 and remains relatively steady. The FY 2011 inflation outlook is essentially the same as the FY 2010 outlook. Within its historical context, inflation is expected to remain low (See Table 11).

If you have questions or suggestions concerning the FY 2011 Agency borrowing rate and inflation forecasts, please contact Robert Mealey at (503) 230-5389. Also, please forward this to the appropriate people in your group. Your assistance in identifying addressees for future forecasts is appreciated.


Robert Mealey
Economist

Attachments

Table 1
30 YEAR TREASURY YIELDS
FY 2011 FORECAST OF BPA TREASURY BORROWING RATES

Calendar/Fiscal Years 2011 - 2040

<u>YEAR</u>	(A) BOND RATE 1/ Calendar Year	(B) BOND RATE Fiscal Year	(C) BPA RATE 2/ Fiscal Year
2011	4.02	4.07	5.97
2012	4.67	4.51	6.01
2013	5.08	4.98	6.28
2014	5.57	5.45	6.85
2015	6.03	5.91	6.87
2016	6.03	6.03	6.99
2017	6.03	6.03	6.99
2018	6.03	6.03	6.99
2019	6.03	6.03	6.99
2020	6.03	6.03	6.99
2021	6.03	6.03	6.99
2022	6.03	6.03	6.99
2023	6.03	6.03	6.99
2024	6.03	6.03	6.99
2025	6.03	6.03	6.99
2026	6.03	6.03	6.99
2027	6.03	6.03	6.99
2028	6.03	6.03	6.99
2029	6.03	6.03	6.99
2030	6.03	6.03	6.99
2031	6.03	6.03	6.99
2032	6.03	6.03	6.99
2033	6.03	6.03	6.99
2034	6.03	6.03	6.99
2035	6.03	6.03	6.99
2036	6.03	6.03	6.99
2037	6.03	6.03	6.99
2038	6.03	6.03	6.99
2039	6.03	6.03	6.99
2040	6.03	6.03	6.99

1/ BPA Forecast FY 2011; Global Insight CY 2010.Q3 long-term outlook.
 The U.S. Economy: 30-Year Forecast, September 2010 Forecast, Base Case

2/ Column C = Column B + U.S. Treasury borrowing markup.

Table 2
FORECAST COMPARISON - 30 YEAR TREASURY YIELDS
 BPA FY 2011 vs. BPA FY 2010

Fiscal Years 2011 - 2040

<u>YEAR</u>	(A) FY 2011 FORECAST <u>BPA RATE 1/</u>	(B) FY 2010 FORECAST <u>BPA RATE 2/</u>	(C) DIFFERENCE <u>(A-B)</u>
2011	5.97	6.47	-0.50
2012	6.01	6.49	-0.49
2013	6.28	6.63	-0.36
2014	6.85	6.93	-0.08
2015	6.87	6.94	-0.07
2016	6.99	6.84	0.15
2017	6.99	6.84	0.15
2018	6.99	6.84	0.15
2019	6.99	6.84	0.15
2020	6.99	6.84	0.15
2021	6.99	6.84	0.15
2022	6.99	6.84	0.15
2023	6.99	6.84	0.15
2024	6.99	6.84	0.15
2025	6.99	6.84	0.15
2026	6.99	6.84	0.15
2027	6.99	6.84	0.15
2028	6.99	6.84	0.15
2029	6.99	6.84	0.15
2030	6.99	6.84	0.15
2031	6.99	6.84	0.15
2032	6.99	6.84	0.15
2033	6.99	6.84	0.15
2034	6.99	6.84	0.15
2035	6.99	6.84	0.15
2036	6.99	6.84	0.15
2037	6.99	6.84	0.15
2038	6.99	6.84	0.15
2039	6.99	6.84	0.15
2040	6.99	6.84	0.15

1/ BPA Forecast FY 2011; Global Insight CY 2010.Q3 long-term outlook.
 The U.S. Economy: 30-Year Focus, September 2010 Forecast, Base Case

2/ BPA Forecast FY 2010; Global Insight CY 2009.Q4 long-term outlook.
 The U.S. Economy: 30-Year Focus

Table 3
20 YEAR TREASURY YIELDS
FY 2011 FORECAST OF BPA TREASURY BORROWING RATES

Calendar/Fiscal Years 2011 - 2040

<u>YEAR</u>	(A)	(B)	(C)
	<u>BOND RATE 1/</u> <u>Calendar Year</u>	<u>BOND RATE</u> <u>Fiscal Year</u>	<u>BPA RATE</u> <u>Fiscal Year</u>
2011	3.57	3.62	4.88
2012	4.40	4.19	5.26
2013	4.88	4.76	5.73
2014	5.38	5.26	6.16
2015	5.85	5.73	6.41
2016	5.85	5.85	6.53
2017	5.85	5.85	6.53
2018	5.85	5.85	6.53
2019	5.85	5.85	6.53
2020	5.85	5.85	6.53
2021	5.85	5.85	6.53
2022	5.85	5.85	6.53
2023	5.85	5.85	6.53
2024	5.85	5.85	6.53
2025	5.85	5.85	6.53
2026	5.85	5.85	6.53
2027	5.85	5.85	6.53
2028	5.85	5.85	6.53
2029	5.85	5.85	6.53
2030	5.85	5.85	6.53
2031	5.85	5.85	6.53
2032	5.85	5.85	6.53
2033	5.85	5.85	6.53
2034	5.85	5.85	6.53
2035	5.85	5.85	6.53
2036	5.85	5.85	6.53
2037	5.85	5.85	6.53
2038	5.85	5.85	6.53
2039	5.85	5.85	6.53
2040	5.85	5.85	6.53

1/ BPA Forecast FY 2011; Global Insight CY 2010.Q3 long-term outlook.
 The U.S. Economy: 30-Year Focus, September 2010 Forecast, Base Case

2/ Column C = Column B + U.S. Treasury borrowing markup.

Table 4
15 YEAR TREASURY YIELDS
FY 2011 FORECAST OF BPA TREASURY BORROWING RATES

Calendar/Fiscal Years 2011 - 2040

YEAR	(A)	(B)	(C)
	BOND RATE 1/ Calendar Year	BOND RATE Fiscal Year	BPA RATE Fiscal Year
2011	3.35	3.39	4.34
2012	4.26	4.04	4.88
2013	4.78	4.65	5.45
2014	5.29	5.16	5.81
2015	5.76	5.65	6.19
2016	5.76	5.76	6.30
2017	5.76	5.76	6.30
2018	5.76	5.76	6.30
2019	5.76	5.76	6.30
2020	5.76	5.76	6.30
2021	5.76	5.76	6.30
2022	5.76	5.76	6.30
2023	5.76	5.76	6.30
2024	5.76	5.76	6.30
2025	5.76	5.76	6.30
2026	5.76	5.76	6.30
2027	5.76	5.76	6.30
2028	5.76	5.76	6.30
2029	5.76	5.76	6.30
2030	5.76	5.76	6.30
2031	5.76	5.76	6.30
2032	5.76	5.76	6.30
2033	5.76	5.76	6.30
2034	5.76	5.76	6.30
2035	5.76	5.76	6.30
2036	5.76	5.76	6.30
2037	5.76	5.76	6.30
2038	5.76	5.76	6.30
2039	5.76	5.76	6.30
2040	5.76	5.76	6.30

1/ BPA Forecast FY 2011; Global Insight CY 2010.Q3 long-term outlook.
 The U.S. Economy: 30-Year Focus, September 2010 Forecast, Base Case

Table 5
BPA FY 2011 APPROPRIATION BORROWING RATE FORECAST 1/

BPA Fiscal Years 2011 - 2040

MATURITY

Year	1 Year	2 Year	3 Year	4 Year	5 Year	6 Year	7 Year	8 Year	9 Year	10 Year	11 Year	12 Year	13 Year	14 Year	15 Year	16 Year	17 Year	18 Year
2011 2/	0.40	0.65	0.96	1.28	1.63	1.93	2.23	2.45	2.59	2.74	2.86	2.98	3.07	3.13	3.24	3.25	3.38	3.38
2012	2.12	2.37	2.63	2.89	3.15	3.29	3.44	3.59	3.73	3.88	3.91	3.94	3.97	4.00	4.04	4.07	4.10	4.13
2013	3.42	3.62	3.79	3.96	4.13	4.21	4.29	4.38	4.46	4.54	4.56	4.59	4.61	4.63	4.65	4.67	4.69	4.72
2014	4.16	4.33	4.46	4.60	4.73	4.80	4.86	4.93	5.00	5.07	5.09	5.11	5.13	5.14	5.16	5.18	5.20	5.22
2015	4.71	4.88	5.00	5.11	5.22	5.29	5.36	5.42	5.49	5.56	5.57	5.59	5.61	5.63	5.65	5.66	5.68	5.70
2016	4.85	5.02	5.13	5.24	5.35	5.41	5.48	5.54	5.61	5.68	5.69	5.71	5.73	5.75	5.76	5.78	5.80	5.82
2017	4.85	5.02	5.13	5.24	5.35	5.41	5.48	5.54	5.61	5.68	5.69	5.71	5.73	5.75	5.76	5.78	5.80	5.82
2018	4.85	5.02	5.13	5.24	5.35	5.41	5.48	5.54	5.61	5.68	5.69	5.71	5.73	5.75	5.76	5.78	5.80	5.82
2019	4.85	5.02	5.13	5.24	5.35	5.41	5.48	5.54	5.61	5.68	5.69	5.71	5.73	5.75	5.76	5.78	5.80	5.82
2020	4.85	5.02	5.13	5.24	5.35	5.41	5.48	5.54	5.61	5.68	5.69	5.71	5.73	5.75	5.76	5.78	5.80	5.82
2021	4.85	5.02	5.13	5.24	5.35	5.41	5.48	5.54	5.61	5.68	5.69	5.71	5.73	5.75	5.76	5.78	5.80	5.82
2022	4.85	5.02	5.13	5.24	5.35	5.41	5.48	5.54	5.61	5.68	5.69	5.71	5.73	5.75	5.76	5.78	5.80	5.82
2023	4.85	5.02	5.13	5.24	5.35	5.41	5.48	5.54	5.61	5.68	5.69	5.71	5.73	5.75	5.76	5.78	5.80	5.82
2024	4.85	5.02	5.13	5.24	5.35	5.41	5.48	5.54	5.61	5.68	5.69	5.71	5.73	5.75	5.76	5.78	5.80	5.82
2025	4.85	5.02	5.13	5.24	5.35	5.41	5.48	5.54	5.61	5.68	5.69	5.71	5.73	5.75	5.76	5.78	5.80	5.82
2026	4.85	5.02	5.13	5.24	5.35	5.41	5.48	5.54	5.61	5.68	5.69	5.71	5.73	5.75	5.76	5.78	5.80	5.82
2027	4.85	5.02	5.13	5.24	5.35	5.41	5.48	5.54	5.61	5.68	5.69	5.71	5.73	5.75	5.76	5.78	5.80	5.82
2028	4.85	5.02	5.13	5.24	5.35	5.41	5.48	5.54	5.61	5.68	5.69	5.71	5.73	5.75	5.76	5.78	5.80	5.82
2029	4.85	5.02	5.13	5.24	5.35	5.41	5.48	5.54	5.61	5.68	5.69	5.71	5.73	5.75	5.76	5.78	5.80	5.82
2030	4.85	5.02	5.13	5.24	5.35	5.41	5.48	5.54	5.61	5.68	5.69	5.71	5.73	5.75	5.76	5.78	5.80	5.82
2031	4.85	5.02	5.13	5.24	5.35	5.41	5.48	5.54	5.61	5.68	5.69	5.71	5.73	5.75	5.76	5.78	5.80	5.82
2032	4.85	5.02	5.13	5.24	5.35	5.41	5.48	5.54	5.61	5.68	5.69	5.71	5.73	5.75	5.76	5.78	5.80	5.82
2033	4.85	5.02	5.13	5.24	5.35	5.41	5.48	5.54	5.61	5.68	5.69	5.71	5.73	5.75	5.76	5.78	5.80	5.82
2034	4.85	5.02	5.13	5.24	5.35	5.41	5.48	5.54	5.61	5.68	5.69	5.71	5.73	5.75	5.76	5.78	5.80	5.82
2035	4.85	5.02	5.13	5.24	5.35	5.41	5.48	5.54	5.61	5.68	5.69	5.71	5.73	5.75	5.76	5.78	5.80	5.82
2036	4.85	5.02	5.13	5.24	5.35	5.41	5.48	5.54	5.61	5.68	5.69	5.71	5.73	5.75	5.76	5.78	5.80	5.82
2037	4.85	5.02	5.13	5.24	5.35	5.41	5.48	5.54	5.61	5.68	5.69	5.71	5.73	5.75	5.76	5.78	5.80	5.82
2038	4.85	5.02	5.13	5.24	5.35	5.41	5.48	5.54	5.61	5.68	5.69	5.71	5.73	5.75	5.76	5.78	5.80	5.82
2039	4.85	5.02	5.13	5.24	5.35	5.41	5.48	5.54	5.61	5.68	5.69	5.71	5.73	5.75	5.76	5.78	5.80	5.82
2040	4.85	5.02	5.13	5.24	5.35	5.41	5.48	5.54	5.61	5.68	5.69	5.71	5.73	5.75	5.76	5.78	5.80	5.82

1/ Global Insight: The U.S. Economy: 30-Year Focus, September 2010 Forecast, Base Case

2/ FY 2011 Appropriation rates are determined in accordance with BPA Appropriations Refinancing Act, 16 U.S.C. 838l enacted on April 26, 1996, and are independent of the Global Insight Treasury Yield forecasts.

19 Year	20 Year	21 Year	22 Year	23 Year	24 Year	25 Year	26 Year	27 Year	28 Year	29 Year	30 Year	50 Year	Year 2011 2/
3.46	3.50	3.50	3.53	3.63	3.63	3.63	3.67	3.75	3.75	3.75	3.75	3.75	2012
4.16	4.19	4.22	4.26	4.29	4.32	4.35	4.38	4.41	4.44	4.48	4.51	4.51	2012
4.74	4.76	4.78	4.80	4.83	4.85	4.87	4.89	4.91	4.93	4.96	4.98	4.98	2013
5.24	5.26	5.28	5.30	5.31	5.33	5.35	5.37	5.39	5.41	5.43	5.45	5.45	2014
5.72	5.73	5.75	5.77	5.79	5.81	5.82	5.84	5.86	5.88	5.89	5.91	5.91	2015
5.83	5.85	5.87	5.89	5.90	5.92	5.94	5.96	5.97	5.99	6.01	6.03	6.03	2016
5.83	5.85	5.87	5.89	5.90	5.92	5.94	5.96	5.97	5.99	6.01	6.03	6.03	2017
5.83	5.85	5.87	5.89	5.90	5.92	5.94	5.96	5.97	5.99	6.01	6.03	6.03	2018
5.83	5.85	5.87	5.89	5.90	5.92	5.94	5.96	5.97	5.99	6.01	6.03	6.03	2019
5.83	5.85	5.87	5.89	5.90	5.92	5.94	5.96	5.97	5.99	6.01	6.03	6.03	2020
5.83	5.85	5.87	5.89	5.90	5.92	5.94	5.96	5.97	5.99	6.01	6.03	6.03	2021
5.83	5.85	5.87	5.89	5.90	5.92	5.94	5.96	5.97	5.99	6.01	6.03	6.03	2022
5.83	5.85	5.87	5.89	5.90	5.92	5.94	5.96	5.97	5.99	6.01	6.03	6.03	2023
5.83	5.85	5.87	5.89	5.90	5.92	5.94	5.96	5.97	5.99	6.01	6.03	6.03	2024
5.83	5.85	5.87	5.89	5.90	5.92	5.94	5.96	5.97	5.99	6.01	6.03	6.03	2025
5.83	5.85	5.87	5.89	5.90	5.92	5.94	5.96	5.97	5.99	6.01	6.03	6.03	2026
5.83	5.85	5.87	5.89	5.90	5.92	5.94	5.96	5.97	5.99	6.01	6.03	6.03	2027
5.83	5.85	5.87	5.89	5.90	5.92	5.94	5.96	5.97	5.99	6.01	6.03	6.03	2028
5.83	5.85	5.87	5.89	5.90	5.92	5.94	5.96	5.97	5.99	6.01	6.03	6.03	2029
5.83	5.85	5.87	5.89	5.90	5.92	5.94	5.96	5.97	5.99	6.01	6.03	6.03	2030
5.83	5.85	5.87	5.89	5.90	5.92	5.94	5.96	5.97	5.99	6.01	6.03	6.03	2031
5.83	5.85	5.87	5.89	5.90	5.92	5.94	5.96	5.97	5.99	6.01	6.03	6.03	2032
5.83	5.85	5.87	5.89	5.90	5.92	5.94	5.96	5.97	5.99	6.01	6.03	6.03	2033
5.83	5.85	5.87	5.89	5.90	5.92	5.94	5.96	5.97	5.99	6.01	6.03	6.03	2034
5.83	5.85	5.87	5.89	5.90	5.92	5.94	5.96	5.97	5.99	6.01	6.03	6.03	2035
5.83	5.85	5.87	5.89	5.90	5.92	5.94	5.96	5.97	5.99	6.01	6.03	6.03	2036
5.83	5.85	5.87	5.89	5.90	5.92	5.94	5.96	5.97	5.99	6.01	6.03	6.03	2037
5.83	5.85	5.87	5.89	5.90	5.92	5.94	5.96	5.97	5.99	6.01	6.03	6.03	2038
5.83	5.85	5.87	5.89	5.90	5.92	5.94	5.96	5.97	5.99	6.01	6.03	6.03	2039
5.83	5.85	5.87	5.89	5.90	5.92	5.94	5.96	5.97	5.99	6.01	6.03	6.03	2040

Table 6
BPA FY 2011 TREASURY BORROWING YIELD CURVE FORECAST 1/

BPA Fiscal Years 2011 - 2040

MATURITY

Year	1 Year	2 Year	3 Year	4 Year	5 Year	6 Year	7 Year	8 Year	9 Year	10 Year	11 Year	12 Year	13 Year	14 Year	15 Year	16 Year	17 Year	18 Year
2011	0.96	1.34	1.76	2.18	2.60	2.85	3.10	3.34	3.59	3.80	3.91	4.02	4.12	4.23	4.34	4.45	4.56	4.67
2012	2.52	2.82	3.12	3.43	3.73	3.89	4.05	4.22	4.38	4.51	4.58	4.66	4.73	4.81	4.88	4.96	5.03	5.11
2013	3.82	4.07	4.29	4.50	4.71	4.81	4.91	5.01	5.11	5.17	5.23	5.28	5.34	5.39	5.45	5.50	5.56	5.61
2014	4.44	4.54	4.70	4.85	5.01	5.12	5.22	5.33	5.44	5.47	5.54	5.61	5.68	5.74	5.81	5.88	5.95	6.02
2015	4.99	5.09	5.23	5.37	5.50	5.61	5.72	5.82	5.93	5.96	6.00	6.05	6.09	6.14	6.19	6.23	6.28	6.32
2016	5.13	5.23	5.36	5.49	5.63	5.73	5.84	5.94	6.05	6.08	6.12	6.17	6.21	6.26	6.30	6.35	6.40	6.44
2017	5.13	5.23	5.36	5.49	5.63	5.73	5.84	5.94	6.05	6.08	6.12	6.17	6.21	6.26	6.30	6.35	6.40	6.44
2018	5.13	5.23	5.36	5.49	5.63	5.73	5.84	5.94	6.05	6.08	6.12	6.17	6.21	6.26	6.30	6.35	6.40	6.44
2019	5.13	5.23	5.36	5.49	5.63	5.73	5.84	5.94	6.05	6.08	6.12	6.17	6.21	6.26	6.30	6.35	6.40	6.44
2020	5.13	5.23	5.36	5.49	5.63	5.73	5.84	5.94	6.05	6.08	6.12	6.17	6.21	6.26	6.30	6.35	6.40	6.44
2021	5.13	5.23	5.36	5.49	5.63	5.73	5.84	5.94	6.05	6.08	6.12	6.17	6.21	6.26	6.30	6.35	6.40	6.44
2022	5.13	5.23	5.36	5.49	5.63	5.73	5.84	5.94	6.05	6.08	6.12	6.17	6.21	6.26	6.30	6.35	6.40	6.44
2023	5.13	5.23	5.36	5.49	5.63	5.73	5.84	5.94	6.05	6.08	6.12	6.17	6.21	6.26	6.30	6.35	6.40	6.44
2024	5.13	5.23	5.36	5.49	5.63	5.73	5.84	5.94	6.05	6.08	6.12	6.17	6.21	6.26	6.30	6.35	6.40	6.44
2025	5.13	5.23	5.36	5.49	5.63	5.73	5.84	5.94	6.05	6.08	6.12	6.17	6.21	6.26	6.30	6.35	6.40	6.44
2026	5.13	5.23	5.36	5.49	5.63	5.73	5.84	5.94	6.05	6.08	6.12	6.17	6.21	6.26	6.30	6.35	6.40	6.44
2027	5.13	5.23	5.36	5.49	5.63	5.73	5.84	5.94	6.05	6.08	6.12	6.17	6.21	6.26	6.30	6.35	6.40	6.44
2028	5.13	5.23	5.36	5.49	5.63	5.73	5.84	5.94	6.05	6.08	6.12	6.17	6.21	6.26	6.30	6.35	6.40	6.44
2029	5.13	5.23	5.36	5.49	5.63	5.73	5.84	5.94	6.05	6.08	6.12	6.17	6.21	6.26	6.30	6.35	6.40	6.44
2030	5.13	5.23	5.36	5.49	5.63	5.73	5.84	5.94	6.05	6.08	6.12	6.17	6.21	6.26	6.30	6.35	6.40	6.44
2031	5.13	5.23	5.36	5.49	5.63	5.73	5.84	5.94	6.05	6.08	6.12	6.17	6.21	6.26	6.30	6.35	6.40	6.44
2032	5.13	5.23	5.36	5.49	5.63	5.73	5.84	5.94	6.05	6.08	6.12	6.17	6.21	6.26	6.30	6.35	6.40	6.44
2033	5.13	5.23	5.36	5.49	5.63	5.73	5.84	5.94	6.05	6.08	6.12	6.17	6.21	6.26	6.30	6.35	6.40	6.44
2034	5.13	5.23	5.36	5.49	5.63	5.73	5.84	5.94	6.05	6.08	6.12	6.17	6.21	6.26	6.30	6.35	6.40	6.44
2035	5.13	5.23	5.36	5.49	5.63	5.73	5.84	5.94	6.05	6.08	6.12	6.17	6.21	6.26	6.30	6.35	6.40	6.44
2036	5.13	5.23	5.36	5.49	5.63	5.73	5.84	5.94	6.05	6.08	6.12	6.17	6.21	6.26	6.30	6.35	6.40	6.44
2037	5.13	5.23	5.36	5.49	5.63	5.73	5.84	5.94	6.05	6.08	6.12	6.17	6.21	6.26	6.30	6.35	6.40	6.44
2038	5.13	5.23	5.36	5.49	5.63	5.73	5.84	5.94	6.05	6.08	6.12	6.17	6.21	6.26	6.30	6.35	6.40	6.44
2039	5.13	5.23	5.36	5.49	5.63	5.73	5.84	5.94	6.05	6.08	6.12	6.17	6.21	6.26	6.30	6.35	6.40	6.44
2040	5.13	5.23	5.36	5.49	5.63	5.73	5.84	5.94	6.05	6.08	6.12	6.17	6.21	6.26	6.30	6.35	6.40	6.44

1/ Global Insight: The U.S. Economy: 30-Year Focus, September 2010 Forecast, Base Case

<u>19 Year</u>	<u>20 Year</u>	<u>21 Year</u>	<u>22 Year</u>	<u>23 Year</u>	<u>24 Year</u>	<u>25 Year</u>	<u>26 Year</u>	<u>27 Year</u>	<u>28 Year</u>	<u>29 Year</u>	<u>30 Year</u>	<u>50 Year</u>	<u>Year</u>
4.78	4.86	4.99	5.10	5.21	5.32	5.43	5.53	5.64	5.75	5.86	5.97	5.97	2011
5.18	5.26	5.33	5.41	5.48	5.56	5.63	5.71	5.78	5.86	5.93	6.01	6.01	2012
5.67	5.73	5.78	5.84	5.89	5.95	6.00	6.06	6.11	6.17	6.22	6.28	6.28	2013
6.09	6.16	6.23	6.30	6.36	6.43	6.50	6.57	6.64	6.71	6.78	6.85	6.85	2014
6.37	6.41	6.46	6.51	6.55	6.60	6.64	6.69	6.74	6.78	6.83	6.87	6.87	2015
6.49	6.53	6.58	6.62	6.67	6.71	6.76	6.80	6.85	6.90	6.94	6.99	6.99	2016
6.49	6.53	6.58	6.62	6.67	6.71	6.76	6.80	6.85	6.90	6.94	6.99	6.99	2017
6.49	6.53	6.58	6.62	6.67	6.71	6.76	6.80	6.85	6.90	6.94	6.99	6.99	2018
6.49	6.53	6.58	6.62	6.67	6.71	6.76	6.80	6.85	6.90	6.94	6.99	6.99	2019
6.49	6.53	6.58	6.62	6.67	6.71	6.76	6.80	6.85	6.90	6.94	6.99	6.99	2020
6.49	6.53	6.58	6.62	6.67	6.71	6.76	6.80	6.85	6.90	6.94	6.99	6.99	2021
6.49	6.53	6.58	6.62	6.67	6.71	6.76	6.80	6.85	6.90	6.94	6.99	6.99	2022
6.49	6.53	6.58	6.62	6.67	6.71	6.76	6.80	6.85	6.90	6.94	6.99	6.99	2023
6.49	6.53	6.58	6.62	6.67	6.71	6.76	6.80	6.85	6.90	6.94	6.99	6.99	2024
6.49	6.53	6.58	6.62	6.67	6.71	6.76	6.80	6.85	6.90	6.94	6.99	6.99	2025
6.49	6.53	6.58	6.62	6.67	6.71	6.76	6.80	6.85	6.90	6.94	6.99	6.99	2026
6.49	6.53	6.58	6.62	6.67	6.71	6.76	6.80	6.85	6.90	6.94	6.99	6.99	2027
6.49	6.53	6.58	6.62	6.67	6.71	6.76	6.80	6.85	6.90	6.94	6.99	6.99	2028
6.49	6.53	6.58	6.62	6.67	6.71	6.76	6.80	6.85	6.90	6.94	6.99	6.99	2029
6.49	6.53	6.58	6.62	6.67	6.71	6.76	6.80	6.85	6.90	6.94	6.99	6.99	2030
6.49	6.53	6.58	6.62	6.67	6.71	6.76	6.80	6.85	6.90	6.94	6.99	6.99	2031
6.49	6.53	6.58	6.62	6.67	6.71	6.76	6.80	6.85	6.90	6.94	6.99	6.99	2032
6.49	6.53	6.58	6.62	6.67	6.71	6.76	6.80	6.85	6.90	6.94	6.99	6.99	2033
6.49	6.53	6.58	6.62	6.67	6.71	6.76	6.80	6.85	6.90	6.94	6.99	6.99	2034
6.49	6.53	6.58	6.62	6.67	6.71	6.76	6.80	6.85	6.90	6.94	6.99	6.99	2035
6.49	6.53	6.58	6.62	6.67	6.71	6.76	6.80	6.85	6.90	6.94	6.99	6.99	2036
6.49	6.53	6.58	6.62	6.67	6.71	6.76	6.80	6.85	6.90	6.94	6.99	6.99	2037
6.49	6.53	6.58	6.62	6.67	6.71	6.76	6.80	6.85	6.90	6.94	6.99	6.99	2038
6.49	6.53	6.58	6.62	6.67	6.71	6.76	6.80	6.85	6.90	6.94	6.99	6.99	2039
6.49	6.53	6.58	6.62	6.67	6.71	6.76	6.80	6.85	6.90	6.94	6.99	6.99	2040

Table 7
BPA FY 2011 THIRD-PARTY TAXABLE BORROWING RATE FORECAST 1/

BPA Fiscal Years 2011 - 2040

MATURITY

<u>Year</u>	<u>1 Year</u>	<u>2 Year</u>	<u>3 Year</u>	<u>4 Year</u>	<u>5 Year</u>	<u>6 Year</u>	<u>7 Year</u>	<u>8 Year</u>	<u>9 Year</u>	<u>10 Year</u>	<u>11 Year</u>	<u>12 Year</u>	<u>13 Year</u>	<u>14 Year</u>	<u>15 Year</u>	<u>16 Year</u>	<u>17 Year</u>	<u>18 Year</u>
2011	0.96	1.32	1.79	2.26	2.73	3.01	3.30	3.58	3.87	4.16	4.22	4.27	4.33	4.39	4.45	4.51	4.57	4.63
2012	3.24	3.33	3.65	3.97	4.29	4.47	4.66	4.84	5.02	5.20	5.24	5.29	5.33	5.37	5.42	5.46	5.50	5.55
2013	5.08	4.98	5.18	5.37	5.57	5.72	5.76	5.86	5.96	6.06	6.09	6.12	6.15	6.18	6.21	6.24	6.27	6.30
2014	4.98	5.05	5.24	5.43	5.62	5.72	5.82	5.92	6.02	6.12	6.14	6.17	6.20	6.23	6.26	6.29	6.32	6.35
2015	5.24	5.38	5.57	5.76	5.95	6.05	6.16	6.27	6.37	6.48	6.51	6.54	6.57	6.60	6.62	6.65	6.68	6.71
2016	5.39	5.52	5.71	5.89	6.08	6.19	6.29	6.40	6.51	6.61	6.64	6.67	6.70	6.73	6.76	6.79	6.82	6.85
2017	5.39	5.52	5.71	5.89	6.08	6.19	6.29	6.40	6.51	6.61	6.64	6.67	6.70	6.73	6.76	6.79	6.82	6.85
2018	5.39	5.52	5.71	5.89	6.08	6.19	6.29	6.40	6.51	6.61	6.64	6.67	6.70	6.73	6.76	6.79	6.82	6.85
2019	5.39	5.52	5.71	5.89	6.08	6.19	6.29	6.40	6.51	6.61	6.64	6.67	6.70	6.73	6.76	6.79	6.82	6.85
2020	5.39	5.52	5.71	5.89	6.08	6.19	6.29	6.40	6.51	6.61	6.64	6.67	6.70	6.73	6.76	6.79	6.82	6.85
2021	5.39	5.52	5.71	5.89	6.08	6.19	6.29	6.40	6.51	6.61	6.64	6.67	6.70	6.73	6.76	6.79	6.82	6.85
2022	5.39	5.52	5.71	5.89	6.08	6.19	6.29	6.40	6.51	6.61	6.64	6.67	6.70	6.73	6.76	6.79	6.82	6.85
2023	5.39	5.52	5.71	5.89	6.08	6.19	6.29	6.40	6.51	6.61	6.64	6.67	6.70	6.73	6.76	6.79	6.82	6.85
2024	5.39	5.52	5.71	5.89	6.08	6.19	6.29	6.40	6.51	6.61	6.64	6.67	6.70	6.73	6.76	6.79	6.82	6.85
2025	5.39	5.52	5.71	5.89	6.08	6.19	6.29	6.40	6.51	6.61	6.64	6.67	6.70	6.73	6.76	6.79	6.82	6.85
2026	5.39	5.52	5.71	5.89	6.08	6.19	6.29	6.40	6.51	6.61	6.64	6.67	6.70	6.73	6.76	6.79	6.82	6.85
2027	5.39	5.52	5.71	5.89	6.08	6.19	6.29	6.40	6.51	6.61	6.64	6.67	6.70	6.73	6.76	6.79	6.82	6.85
2028	5.39	5.52	5.71	5.89	6.08	6.19	6.29	6.40	6.51	6.61	6.64	6.67	6.70	6.73	6.76	6.79	6.82	6.85
2029	5.39	5.52	5.71	5.89	6.08	6.19	6.29	6.40	6.51	6.61	6.64	6.67	6.70	6.73	6.76	6.79	6.82	6.85
2030	5.39	5.52	5.71	5.89	6.08	6.19	6.29	6.40	6.51	6.61	6.64	6.67	6.70	6.73	6.76	6.79	6.82	6.85
2031	5.39	5.52	5.71	5.89	6.08	6.19	6.29	6.40	6.51	6.61	6.64	6.67	6.70	6.73	6.76	6.79	6.82	6.85
2032	5.39	5.52	5.71	5.89	6.08	6.19	6.29	6.40	6.51	6.61	6.64	6.67	6.70	6.73	6.76	6.79	6.82	6.85
2033	5.39	5.52	5.71	5.89	6.08	6.19	6.29	6.40	6.51	6.61	6.64	6.67	6.70	6.73	6.76	6.79	6.82	6.85
2034	5.39	5.52	5.71	5.89	6.08	6.19	6.29	6.40	6.51	6.61	6.64	6.67	6.70	6.73	6.76	6.79	6.82	6.85
2035	5.39	5.52	5.71	5.89	6.08	6.19	6.29	6.40	6.51	6.61	6.64	6.67	6.70	6.73	6.76	6.79	6.82	6.85
2036	5.39	5.52	5.71	5.89	6.08	6.19	6.29	6.40	6.51	6.61	6.64	6.67	6.70	6.73	6.76	6.79	6.82	6.85
2037	5.39	5.52	5.71	5.89	6.08	6.19	6.29	6.40	6.51	6.61	6.64	6.67	6.70	6.73	6.76	6.79	6.82	6.85
2038	5.39	5.52	5.71	5.89	6.08	6.19	6.29	6.40	6.51	6.61	6.64	6.67	6.70	6.73	6.76	6.79	6.82	6.85
2040	5.39	5.52	5.71	5.89	6.08	6.19	6.29	6.40	6.51	6.61	6.64	6.67	6.70	6.73	6.76	6.79	6.82	6.85

1/ Global Insight: The U.S. Economy: 30-Year Focus, September 2010 Forecast, Base Case

<u>19 Year</u>	<u>20 Year</u>	<u>21 Year</u>	<u>22 Year</u>	<u>23 Year</u>	<u>24 Year</u>	<u>25 Year</u>	<u>26 Year</u>	<u>27 Year</u>	<u>28 Year</u>	<u>29 Year</u>	<u>30 Year</u>	<u>50 Year</u>	<u>Year</u>
4.69	4.75	4.81	4.87	4.93	4.99	5.04	5.10	5.16	5.22	5.28	5.34	5.34	2011
5.59	5.63	5.67	5.72	5.76	5.80	5.85	5.89	5.93	5.97	6.02	6.06	6.06	2012
6.33	6.37	6.40	6.43	6.46	6.49	6.52	6.55	6.58	6.61	6.64	6.67	6.67	2013
6.38	6.41	6.43	6.46	6.49	6.52	6.55	6.58	6.61	6.64	6.67	6.70	6.70	2014
6.74	6.77	6.80	6.83	6.86	6.88	6.91	6.94	6.97	7.00	7.03	7.06	7.06	2015
6.87	6.90	6.93	6.96	6.99	7.02	7.05	7.08	7.10	7.13	7.16	7.19	7.19	2016
6.87	6.90	6.93	6.96	6.99	7.02	7.05	7.08	7.10	7.13	7.16	7.19	7.19	2017
6.87	6.90	6.93	6.96	6.99	7.02	7.05	7.08	7.10	7.13	7.16	7.19	7.19	2018
6.87	6.90	6.93	6.96	6.99	7.02	7.05	7.08	7.10	7.13	7.16	7.19	7.19	2019
6.87	6.90	6.93	6.96	6.99	7.02	7.05	7.08	7.10	7.13	7.16	7.19	7.19	2020
6.87	6.90	6.93	6.96	6.99	7.02	7.05	7.08	7.10	7.13	7.16	7.19	7.19	2021
6.87	6.90	6.93	6.96	6.99	7.02	7.05	7.08	7.10	7.13	7.16	7.19	7.19	2022
6.87	6.90	6.93	6.96	6.99	7.02	7.05	7.08	7.10	7.13	7.16	7.19	7.19	2023
6.87	6.90	6.93	6.96	6.99	7.02	7.05	7.08	7.10	7.13	7.16	7.19	7.19	2024
6.87	6.90	6.93	6.96	6.99	7.02	7.05	7.08	7.10	7.13	7.16	7.19	7.19	2025
6.87	6.90	6.93	6.96	6.99	7.02	7.05	7.08	7.10	7.13	7.16	7.19	7.19	2026
6.87	6.90	6.93	6.96	6.99	7.02	7.05	7.08	7.10	7.13	7.16	7.19	7.19	2027
6.87	6.90	6.93	6.96	6.99	7.02	7.05	7.08	7.10	7.13	7.16	7.19	7.19	2028
6.87	6.90	6.93	6.96	6.99	7.02	7.05	7.08	7.10	7.13	7.16	7.19	7.19	2029
6.87	6.90	6.93	6.96	6.99	7.02	7.05	7.08	7.10	7.13	7.16	7.19	7.19	2030
6.87	6.90	6.93	6.96	6.99	7.02	7.05	7.08	7.10	7.13	7.16	7.19	7.19	2031
6.87	6.90	6.93	6.96	6.99	7.02	7.05	7.08	7.10	7.13	7.16	7.19	7.19	2032
6.87	6.90	6.93	6.96	6.99	7.02	7.05	7.08	7.10	7.13	7.16	7.19	7.19	2033
6.87	6.90	6.93	6.96	6.99	7.02	7.05	7.08	7.10	7.13	7.16	7.19	7.19	2034
6.87	6.90	6.93	6.96	6.99	7.02	7.05	7.08	7.10	7.13	7.16	7.19	7.19	2035
6.87	6.90	6.93	6.96	6.99	7.02	7.05	7.08	7.10	7.13	7.16	7.19	7.19	2036
6.87	6.90	6.93	6.96	6.99	7.02	7.05	7.08	7.10	7.13	7.16	7.19	7.19	2037
6.87	6.90	6.93	6.96	6.99	7.02	7.05	7.08	7.10	7.13	7.16	7.19	7.19	2038
6.87	6.90	6.93	6.96	6.99	7.02	7.05	7.08	7.10	7.13	7.16	7.19	7.19	2040

Table 8
BPA FY 2011 THIRD-PARTY TAX-EXEMPT BORROWING RATE FORECAST 1/

BPA Fiscal Years 2011 - 2040

MATURITY

Year	1 Year	2 Year	3 Year	4 Year	5 Year	6 Year	7 Year	8 Year	9 Year	10 Year	11 Year	12 Year	13 Year	14 Year	15 Year	16 Year	17 Year	18 Year
2011	0.66	0.92	1.25	1.57	1.89	2.12	2.35	2.58	2.81	3.04	3.09	3.15	3.20	3.25	3.31	3.36	3.41	3.47
2012	2.01	2.22	2.46	2.70	2.94	3.11	3.29	3.46	3.63	3.81	3.85	3.90	3.94	3.99	4.03	4.08	4.12	4.17
2013	3.10	3.28	3.45	3.62	3.79	3.92	4.05	4.17	4.30	4.42	4.46	4.50	4.54	4.57	4.61	4.65	4.69	4.73
2014	3.21	3.38	3.53	3.69	3.84	3.95	4.07	4.18	4.29	4.41	4.44	4.47	4.50	4.53	4.56	4.59	4.62	4.65
2015	3.45	3.62	3.77	3.92	4.07	4.18	4.30	4.41	4.53	4.65	4.67	4.70	4.73	4.76	4.79	4.82	4.85	4.88
2016	3.54	3.71	3.86	4.01	4.16	4.27	4.39	4.51	4.62	4.74	4.77	4.80	4.83	4.86	4.89	4.92	4.94	4.97
2017	3.54	3.71	3.86	4.01	4.16	4.27	4.39	4.51	4.62	4.74	4.77	4.80	4.83	4.86	4.89	4.92	4.94	4.97
2018	3.54	3.71	3.86	4.01	4.16	4.27	4.39	4.51	4.62	4.74	4.77	4.80	4.83	4.86	4.89	4.92	4.94	4.97
2019	3.54	3.71	3.86	4.01	4.16	4.27	4.39	4.51	4.62	4.74	4.77	4.80	4.83	4.86	4.89	4.92	4.94	4.97
2020	3.54	3.71	3.86	4.01	4.16	4.27	4.39	4.51	4.62	4.74	4.77	4.80	4.83	4.86	4.89	4.92	4.94	4.97
2021	3.54	3.71	3.86	4.01	4.16	4.27	4.39	4.51	4.62	4.74	4.77	4.80	4.83	4.86	4.89	4.92	4.94	4.97
2022	3.54	3.71	3.86	4.01	4.16	4.27	4.39	4.51	4.62	4.74	4.77	4.80	4.83	4.86	4.89	4.92	4.94	4.97
2023	3.54	3.71	3.86	4.01	4.16	4.27	4.39	4.51	4.62	4.74	4.77	4.80	4.83	4.86	4.89	4.92	4.94	4.97
2024	3.54	3.71	3.86	4.01	4.16	4.27	4.39	4.51	4.62	4.74	4.77	4.80	4.83	4.86	4.89	4.92	4.94	4.97
2025	3.54	3.71	3.86	4.01	4.16	4.27	4.39	4.51	4.62	4.74	4.77	4.80	4.83	4.86	4.89	4.92	4.94	4.97
2026	3.54	3.71	3.86	4.01	4.16	4.27	4.39	4.51	4.62	4.74	4.77	4.80	4.83	4.86	4.89	4.92	4.94	4.97
2027	3.54	3.71	3.86	4.01	4.16	4.27	4.39	4.51	4.62	4.74	4.77	4.80	4.83	4.86	4.89	4.92	4.94	4.97
2028	3.54	3.71	3.86	4.01	4.16	4.27	4.39	4.51	4.62	4.74	4.77	4.80	4.83	4.86	4.89	4.92	4.94	4.97
2029	3.54	3.71	3.86	4.01	4.16	4.27	4.39	4.51	4.62	4.74	4.77	4.80	4.83	4.86	4.89	4.92	4.94	4.97
2030	3.54	3.71	3.86	4.01	4.16	4.27	4.39	4.51	4.62	4.74	4.77	4.80	4.83	4.86	4.89	4.92	4.94	4.97
2031	3.54	3.71	3.86	4.01	4.16	4.27	4.39	4.51	4.62	4.74	4.77	4.80	4.83	4.86	4.89	4.92	4.94	4.97
2032	3.54	3.71	3.86	4.01	4.16	4.27	4.39	4.51	4.62	4.74	4.77	4.80	4.83	4.86	4.89	4.92	4.94	4.97
2033	3.54	3.71	3.86	4.01	4.16	4.27	4.39	4.51	4.62	4.74	4.77	4.80	4.83	4.86	4.89	4.92	4.94	4.97
2034	3.54	3.71	3.86	4.01	4.16	4.27	4.39	4.51	4.62	4.74	4.77	4.80	4.83	4.86	4.89	4.92	4.94	4.97
2035	3.54	3.71	3.86	4.01	4.16	4.27	4.39	4.51	4.62	4.74	4.77	4.80	4.83	4.86	4.89	4.92	4.94	4.97
2036	3.54	3.71	3.86	4.01	4.16	4.27	4.39	4.51	4.62	4.74	4.77	4.80	4.83	4.86	4.89	4.92	4.94	4.97
2037	3.54	3.71	3.86	4.01	4.16	4.27	4.39	4.51	4.62	4.74	4.77	4.80	4.83	4.86	4.89	4.92	4.94	4.97
2038	3.54	3.71	3.86	4.01	4.16	4.27	4.39	4.51	4.62	4.74	4.77	4.80	4.83	4.86	4.89	4.92	4.94	4.97
2039	3.54	3.71	3.86	4.01	4.16	4.27	4.39	4.51	4.62	4.74	4.77	4.80	4.83	4.86	4.89	4.92	4.94	4.97
2040	3.54	3.71	3.86	4.01	4.16	4.27	4.39	4.51	4.62	4.74	4.77	4.80	4.83	4.86	4.89	4.92	4.94	4.97

1/ Global Insight: The U.S. Economy: 30-Year Focus, September 2010 Forecast, Base Case

<u>19 Year</u>	<u>20 Year</u>	<u>21 Year</u>	<u>22 Year</u>	<u>23 Year</u>	<u>24 Year</u>	<u>25 Year</u>	<u>26 Year</u>	<u>27 Year</u>	<u>28 Year</u>	<u>29 Year</u>	<u>30 Year</u>	<u>50 Year</u>	<u>Year</u>
3.52	3.57	3.63	3.68	3.74	3.79	3.84	3.90	3.95	4.00	4.06	4.11	4.11	2011
4.21	4.26	4.30	4.35	4.39	4.44	4.48	4.53	4.57	4.62	4.66	4.71	4.71	2012
4.76	4.80	4.84	4.88	4.91	4.95	4.99	5.03	5.06	5.10	5.14	5.18	5.18	2013
4.68	4.71	4.74	4.78	4.81	4.84	4.87	4.90	4.93	4.96	4.99	5.02	5.02	2014
4.91	4.94	4.96	4.99	5.02	5.05	5.08	5.11	5.14	5.17	5.20	5.23	5.23	2015
5.00	5.03	5.06	5.09	5.12	5.15	5.18	5.21	5.24	5.26	5.29	5.32	5.32	2016
5.00	5.03	5.06	5.09	5.12	5.15	5.18	5.21	5.24	5.26	5.29	5.32	5.32	2017
5.00	5.03	5.06	5.09	5.12	5.15	5.18	5.21	5.24	5.26	5.29	5.32	5.32	2018
5.00	5.03	5.06	5.09	5.12	5.15	5.18	5.21	5.24	5.26	5.29	5.32	5.32	2019
5.00	5.03	5.06	5.09	5.12	5.15	5.18	5.21	5.24	5.26	5.29	5.32	5.32	2020
5.00	5.03	5.06	5.09	5.12	5.15	5.18	5.21	5.24	5.26	5.29	5.32	5.32	2021
5.00	5.03	5.06	5.09	5.12	5.15	5.18	5.21	5.24	5.26	5.29	5.32	5.32	2022
5.00	5.03	5.06	5.09	5.12	5.15	5.18	5.21	5.24	5.26	5.29	5.32	5.32	2023
5.00	5.03	5.06	5.09	5.12	5.15	5.18	5.21	5.24	5.26	5.29	5.32	5.32	2024
5.00	5.03	5.06	5.09	5.12	5.15	5.18	5.21	5.24	5.26	5.29	5.32	5.32	2025
5.00	5.03	5.06	5.09	5.12	5.15	5.18	5.21	5.24	5.26	5.29	5.32	5.32	2026
5.00	5.03	5.06	5.09	5.12	5.15	5.18	5.21	5.24	5.26	5.29	5.32	5.32	2027
5.00	5.03	5.06	5.09	5.12	5.15	5.18	5.21	5.24	5.26	5.29	5.32	5.32	2028
5.00	5.03	5.06	5.09	5.12	5.15	5.18	5.21	5.24	5.26	5.29	5.32	5.32	2029
5.00	5.03	5.06	5.09	5.12	5.15	5.18	5.21	5.24	5.26	5.29	5.32	5.32	2030
5.00	5.03	5.06	5.09	5.12	5.15	5.18	5.21	5.24	5.26	5.29	5.32	5.32	2031
5.00	5.03	5.06	5.09	5.12	5.15	5.18	5.21	5.24	5.26	5.29	5.32	5.32	2032
5.00	5.03	5.06	5.09	5.12	5.15	5.18	5.21	5.24	5.26	5.29	5.32	5.32	2033
5.00	5.03	5.06	5.09	5.12	5.15	5.18	5.21	5.24	5.26	5.29	5.32	5.32	2034
5.00	5.03	5.06	5.09	5.12	5.15	5.18	5.21	5.24	5.26	5.29	5.32	5.32	2035
5.00	5.03	5.06	5.09	5.12	5.15	5.18	5.21	5.24	5.26	5.29	5.32	5.32	2036
5.00	5.03	5.06	5.09	5.12	5.15	5.18	5.21	5.24	5.26	5.29	5.32	5.32	2037
5.00	5.03	5.06	5.09	5.12	5.15	5.18	5.21	5.24	5.26	5.29	5.32	5.32	2038
5.00	5.03	5.06	5.09	5.12	5.15	5.18	5.21	5.24	5.26	5.29	5.32	5.32	2039
5.00	5.03	5.06	5.09	5.12	5.15	5.18	5.21	5.24	5.26	5.29	5.32	5.32	2040

Table 9
BPA FY 2011 FERC BORROWING RATE (Bank Prime) FORECAST 1/

Calendar/Fiscal Years 2011 - 2040

<u>YEAR</u>	(A)	(B)
	<u>FERC RATE</u> <u>Calendar Year</u>	<u>FERC RATE</u> <u>Fiscal Year</u>
2011	3.31	3.29
2012	5.28	4.79
2013	6.50	6.19
2014	7.13	6.98
2015	7.75	7.60
2016	7.75	7.75
2017	7.75	7.75
2018	7.75	7.75
2019	7.75	7.75
2020	7.75	7.75
2021	7.75	7.75
2022	7.75	7.75
2023	7.75	7.75
2024	7.75	7.75
2025	7.75	7.75
2026	7.75	7.75
2027	7.75	7.75
2028	7.75	7.75
2029	7.75	7.75
2030	7.75	7.75
2031	7.75	7.75
2032	7.75	7.75
2033	7.75	7.75
2034	7.75	7.75
2035	7.75	7.75
2036	7.75	7.75
2037	7.75	7.75
2038	7.75	7.75
2039	7.75	7.75
2040	7.75	7.75

1/ BPA Forecast FY 2011; Global Insight CY 2010.Q3 long-term outlook.
 The U.S. Economy: 30-Year Focus, September 2010 Forecast, Base Case

Table 10
BPA FY 2011 MAY 3-MONTH LIBOR RATE FORECAST 1/

Calendar/Fiscal Years 2011 - 2039

YEAR	(A)	(B)
	3-Mo LIBOR <u>Calendar Year</u>	3-Mo LIBOR <u>Fiscal Year</u>
2011	0.89	0.78
2012	3.10	2.55
2013	4.20	3.92
2014	4.77	4.63
2015	5.28	5.15
2016	5.28	5.28
2017	5.28	5.28
2018	5.28	5.28
2019	5.28	5.28
2020	5.28	5.28
2021	5.28	5.28
2022	5.28	5.28
2023	5.28	5.28
2024	5.28	5.28
2025	5.28	5.28
2026	5.28	5.28
2027	5.28	5.28
2028	5.28	5.28
2029	5.28	5.28
2030	5.28	5.28
2031	5.28	5.28
2032	5.28	5.28
2033	5.28	5.28
2034	5.28	5.28
2035	5.28	5.28
2036	5.28	5.28
2037	5.28	5.28
2038	5.28	5.28
2039	5.28	5.28
2040	5.28	5.28

1/ BPA Forecast FY 2011; Global Insight CY 2010.Q3 long-term outlook.
The U.S. Economy: 30-Year Focus, September 2010 Forecast, Base Case

TABLE 11

COMPARISON OF FY 2011 INFLATION FORECAST COMPONENTS
CALENDAR/FISCAL YEAR FORECASTS BPA 2010 vs. 2009 Q2

BPA Fiscal Years 2011 - 2040

	A	B	C	D	E	F	G
	FY 2011 1/ CALENDAR YEAR GDP PRICE DEFLATOR (%)	FY 2011 1/ FISCAL YEAR GDP PRICE DEFLATOR (%)	FY 2011 2/ FISCAL YEAR CUMULATIVE PRICE DEFLATOR (Base Year 2011)	FY 2010 3/ FISCAL YEAR FY PRICE DEFLATOR (%)	FY 2010 3/ FISCAL YEAR FY CUMULATIVE PRICE DEFLATOR (Base Year 2010)	CHANGE IN THE FY PRICE DEFLATOR (%)	CHANGE IN THE FY CUMULATIVE PRICE DEFLATOR
2011	1.24%	1.15%	1.006	1.38%	1.019	-0.23%	-0.014
2012	1.40%	1.36%	1.019	1.49%	1.035	-0.13%	-0.015
2013	1.65%	1.59%	1.036	1.61%	1.051	-0.02%	-0.016
2014	1.87%	1.82%	1.054	1.73%	1.070	0.09%	-0.015
2015	1.83%	1.84%	1.074	1.72%	1.088	0.12%	-0.014
2016	1.78%	1.79%	1.093	1.72%	1.107	0.08%	-0.013
2017	1.85%	1.83%	1.113	1.75%	1.126	0.08%	-0.013
2018	1.90%	1.89%	1.134	1.78%	1.146	0.11%	-0.012
2019	1.86%	1.87%	1.155	1.73%	1.166	0.14%	-0.010
2020	1.89%	1.88%	1.177	1.70%	1.186	0.18%	-0.009
2021	1.82%	1.84%	1.199	1.72%	1.206	0.12%	-0.007
2022	1.71%	1.74%	1.220	1.70%	1.227	0.04%	-0.007
2023	1.71%	1.71%	1.240	1.69%	1.247	0.03%	-0.007
2024	1.72%	1.72%	1.262	1.69%	1.268	0.03%	-0.006
2025	1.71%	1.71%	1.283	1.69%	1.290	0.03%	-0.006
2026	1.73%	1.72%	1.305	1.70%	1.312	0.02%	-0.006
2027	1.77%	1.76%	1.328	1.72%	1.334	0.04%	-0.006
2028	1.80%	1.80%	1.352	1.71%	1.357	0.08%	-0.005
2029	1.79%	1.79%	1.377	1.75%	1.381	0.05%	-0.004
2030	1.78%	1.78%	1.401	1.75%	1.405	0.03%	-0.004
2031	1.77%	1.77%	1.426	1.75%	1.429	0.02%	-0.003
2032	1.79%	1.79%	1.451	1.72%	1.454	0.06%	-0.003
2033	1.78%	1.78%	1.477	1.70%	1.479	0.08%	-0.001
2034	1.77%	1.77%	1.503	1.71%	1.504	0.06%	-0.001
2035	1.75%	1.75%	1.530	1.72%	1.530	0.03%	0.000
2036	1.77%	1.77%	1.557	1.72%	1.556	0.05%	0.001
2037	1.81%	1.80%	1.585	1.71%	1.583	0.09%	0.002
2038	1.88%	1.86%	1.614	1.72%	1.610	0.15%	0.004
2039	1.82%	1.81%	1.644	1.81%	1.639	0.00%	0.004
2040	1.82%	1.81%	1.673	0.00%	0.000	0.00%	0.000

1/ BPA FY 2011 Forecast; Global Insight CY 2010.Q3 long-term outlook. The U.S. Economy, 30-Year Focus, September 2010 Forecast, Base Case. The U.S. Economy, 30-Year Focus, September 2010 Forecast, Base Case.

2/ Fiscal Year Cumulative Price Deflator escalates to midyear dollars. The first year, 2011, is determined as follows: $1.006 = [(1.15/100)^{-5}] + 1$. An example of subsequent year cumulative growth such as in 2012 is found as: $1.019 = [1 + (1.36/100)] * 1.006$.

3/ BPA Forecast FY 2010; Global Insight CY 2009.Q3 long-term outlook. The U.S. Economy, 30-Year Focus Forecast, Base Case.

TABLE 12

**FY 2011 INFLATION FORECAST COMPARISONS 1/
GROSS DOMESTIC PRODUCT PRICE DEFLATOR INDEXES**

BPA Fiscal Years 2011 - 2040

YEAR	(A) FY 2011 2/ CUMULATIVE PRICE DEFLATOR INDEX (Base Year 2011)	(B) FY 2010 3/ CUMULATIVE PRICE DEFLATOR INDEX (Base Year 2010)	(C) (A - B) DIFFERENCE
2011	1.006	1.019	-0.014
2012	1.019	1.035	-0.015
2013	1.036	1.051	-0.016
2014	1.054	1.070	-0.015
2015	1.074	1.088	-0.014
2016	1.093	1.107	-0.013
2017	1.113	1.126	-0.013
2018	1.134	1.146	-0.012
2019	1.155	1.166	-0.010
2020	1.177	1.186	-0.009
2021	1.199	1.206	-0.007
2022	1.220	1.227	-0.007
2023	1.240	1.247	-0.007
2024	1.262	1.268	-0.006
2025	1.283	1.290	-0.006
2026	1.305	1.312	-0.006
2027	1.328	1.334	-0.006
2028	1.352	1.357	-0.005
2029	1.377	1.381	-0.004
2030	1.401	1.405	-0.004
2031	1.426	1.429	-0.003
2032	1.451	1.454	-0.003
2033	1.477	1.479	-0.001
2034	1.503	1.504	-0.001
2035	1.530	1.530	0.000
2036	1.557	1.556	0.001
2037	1.585	1.583	0.002
2038	1.614	1.610	0.004
2039	1.644	1.639	0.004
2040	1.673		

1/ Fiscal Year Cumulative Price Deflator escalates to midyear dollars. The first year, 2011, is determined as follows: $1.006 = [(1.151/100)^.5] + 1$. An example of subsequent year cumulative growth such as in 2012 is found as $1.019 = [1 + (1.136/100)]^{.5} \cdot 1.006$

2/ BPA FY 2011 Forecast, Global Insight CY 2010.Q3 long-term outlook. The U.S. Economy, 30-Year Focus, September 2010 Forecast, Base Case; The U.S. Economy, 30-Year Focus, September 2010 Forecast, Base Case

3/ BPA Forecast FY 2010; Global Insight CY 2009.Q3 long-term outlook. The U.S. Economy, 30-Year Focus Forecast, Base Case.

7. PROJECTED BONDS ISSUED TO TREASURY

7.1 Introduction

This chapter documents all the bonds that BPA has issued and those it projects it will issue to the U.S. Treasury to finance BPA capital investments and Reclamation/COE investments that will be direct-funded by BPA.

7.2 Issuing Bonds

BPA primarily funds capital outlays by issuing new long-term debt in the form of bonds issued to the U.S. Treasury. BPA issues four types of bonds for PS: Construction, Conservation, Fish and Wildlife/Environment, and Reclamation/COE direct-funded. Construction bonds included in the generation study are the portions of bonds that fund furniture, ADP hardware and software for PS. (Construction bonds are also issued to fund capital expenditures of the Transmission Business Line including ADP hardware and software and furniture.) Conservation bonds are issued to fund the capital portion of BPA's conservation program. Fish and Wildlife bonds are issued to fund the capital portion of BPA's Fish and Wildlife program. Environment bonds are issued to fund work done by the Transmission Business Line and are not included in the generation repayment study. BPA also issues bonds to fund Reclamation/COE generation efficiency and reliability improvements. All bonds projected for issuance have been entered into the generation repayment study.

Reclamation/COE direct funding bonds are entered in the repayment program with a maximum period to maturity of 45 years. Construction bonds are given a maximum repayment period of 6 years, Fish and Wildlife bonds are entered with a period to maturity of 15 years, and Conservation is given a maturity of 12 years consistent with BPA's policy on amortizing conservation investments..

New bonds for the cost evaluation period (FY 2011 - 2013) are based on projected BPA and Reclamation/COE capital program outlays. Maturities reflect the average services lives of the assets. The assignment practices for interest rates are discussed in Chapter 2 of the Study. The interest rates used are in Chapter 6 of this document.

Table 7A
BPA Projected Generation Federal Borrowing
FY 2011 - 2013
(\$000s)

	A	B	C	D	
FY		Interest		Total	
Year	Description	Rate	Term	Borrowing	
1	2011	Reclamation/COE	4.21%	24	20,000
2		Reclamation/COE	5.43%	25	30,000
3		Reclamation/COE	5.53%	26	35,000
4		Reclamation/COE	5.64%	27	30,000
5		Reclamation/COE	5.04%	28	35,000
6		Reclamation/COE	5.00%	29	50,000
7		Conservation	4.02%	12	15,000
8		Conservation	3.93%	12	35,000
9		Conservation	4.05%	12	40,000
10		Construction	2.00%	5	7,000
11		Construction	2.60%	5	7,000
12		Fish and Wildlife	4.44%	15	50,000
13		Fish and Wildlife	4.33%	15	25,000
14		Fish and Wildlife	4.40%	15	<u>15,000</u>
15					394,000
16					
17		A	B	C	D
18	FY		Interest		Total
19	Year	Description	Rate	Term	Borrowing
20	2012	Reclamation/COE	6.01%	45	211,051
21		Conservation	4.66%	12	104,000
22		Construction	3.89%	6	21,399
23		Fish and Wildlife	4.88%	15	<u>50,000</u>
24					386,450
25					
26		A	B	C	D
27	FY		Interest		Total
28	Year	Description	Rate	Term	Borrowing
29	2013	Reclamation/COE	6.28%	45	225,694
30		Conservation	5.28%	12	111,000
31		Construction	4.81%	6	20,326
32		Fish and Wildlife	5.45%	15	<u>50,000</u>
					407,020

8. CAPITALIZED CONTRACTS AND OTHER LONG TERM RESOURCE ACQUISITION OBLIGATIONS

8.1 Introduction

This chapter documents the data on third-party debt service or payment costs associated with capitalized contracts and other long-term, fixed contractual obligations. This chapter does not include replacements for the Columbia Generating Station (CGS). This information is included in Chapter 10 of this document.

8.2 Methodology

To determine debt service streams for EN Nuclear Projects WNP-1, CGS, and WNP-3, BPA uses a commercial municipal bond debt management model, DBC Debt Manager. All base debt service streams shown in Tables 8B through 8D are based on the amount of EN debt outstanding. The debt service streams reflect EN refinancings and all new capital financings to date. After the completion of the final study's repayment study, EN completed an advanced refinancing of outstanding debt which reduced costs in the rate period. Table 8A includes a separate column that shows the effect. This data forms the basis for calculating debt service on the EN projects. See Chapter 3. Debt service streams for other capitalized contracts are derived from such sources as Official Statements, Agency agreements, Agency contracts, and budgetary data.

Debt service for the Northern Wasco project is also included in this chapter. After the bond issuance, BPA decided to cancel its participation in the project. The debt service goes from 1999 to 2025. It was paid from the construction fund until it was exhausted in 2007. Starting in 2008, the repayment study reflects the data on Table 8H.

Table 8A
Capitalized Contract Expense
(\$000s)

	A	B	C	D	E	F	G	H	I	
	Fiscal Year	WNP-1	CGS	WNP-2	EN Refinancing	CARES	Tacoma	Wasco	Cowlitz	Total
1	2012	282,802	116,654	156,299	(1,101)	547	1,831	2,223	11,715	570,970
2	2013	249,288	108,971	175,817	(8,799)	546	1,830	2,224	11,709	541,585
3	2014	247,564	161,447	170,758	(1,106)	-	1,831	2,225	11,713	594,432
4	2015	185,295	193,496	167,211	(1,250)	-	305	2,225	11,711	558,992
5	2016	267,103	89,952	195,988	(2,209)	-	-	2,225	11,706	564,764
6	2017	178,316	103,373	269,611	(2,631)	-	-	2,226	11,714	562,609
7	2018	-	183,268	345,811	32	-	-	2,225	11,712	543,048
8	2019	-	321,764	-	698	-	-	2,223	11,711	336,396
9	2020	-	325,149	-	902	-	-	2,223	11,709	339,983
10	2021	-	331,284	-	673	-	-	2,223	11,710	345,890
11	2022	-	342,297	-	-	-	-	2,224	11,714	356,234
12	2023	-	346,063	-	-	-	-	2,224	12,123	360,410
13	2024	-	272,287	-	-	-	-	2,225	12,121	286,633
14	2025	-	44,852	-	-	-	-	371	-	45,223
15	2026	-	49,040	-	-	-	-	-	-	49,040
16	2027	-	53,764	-	-	-	-	-	-	53,764
17	2028	-	58,498	-	-	-	-	-	-	58,498
18	Total	1,410,367	3,102,159	1,481,495	(14,791)	1,094	5,797	29,285	153,067	3,393,352

Table 8B

Total WNP-1 Net Debt Service

	A	B	C	D
	Fiscal			Total Debt
	Year	Principal	Interest	Service
1	2012	219,768	63,034	282,802
2	2013	197,251	52,037	249,288
3	2014	205,944	41,620	247,564
4	2015	153,874	31,421	185,295
5	2016	239,540	27,562	267,103
6	2017	167,908	10,407	178,316
7	2018	-	-	-
8	2019	-	-	-
9	2020	-	-	-
10	2021	-	-	-
11	2022	-	-	-
12	2023	-	-	-
13	2024	-	-	-
14	2025	-	-	-
15	2026	-	-	-
16	2027	-	-	-
17	2028	-	-	-
18	Total	1,184,285	226,082	1,410,367

Table 8C

**Total CGS Net Debt Service
(\$000s)**

	A	B	C	D
	<u>Fiscal</u>	<u>Principal</u>	<u>Interest</u>	<u>Total Debt</u>
	<u>Year</u>			<u>Service</u>
1	2012	7,358	109,296	116,654
2	2013	34,746	74,225	108,971
3	2014	71,882	89,565	161,447
4	2015	105,199	88,297	193,496
5	2016	5,549	84,402	89,952
6	2017	16,964	86,410	103,373
7	2018	95,636	87,632	183,268
8	2019	236,668	85,095	321,764
9	2020	249,157	75,991	325,149
10	2021	265,164	66,120	331,284
11	2022	286,789	55,507	342,297
12	2023	301,827	44,236	346,063
13	2024	239,820	32,467	272,287
14	2025	22,139	22,714	44,852
15	2026	24,856	24,184	49,040
16	2027	28,087	25,677	53,764
17	2028	<u>31,522</u>	<u>26,976</u>	<u>58,498</u>
18	Total	2,023,364	1,078,795	3,102,159

Table 8D

**Total WNP-3 Net Debt Service
(\$000s)**

A	B	C	D
Fiscal Year	<u>Principal</u>	<u>Interest</u>	<u>Total Debt Service</u>
1 2012	72,524	83,776	156,299
2 2013	88,754	87,063	175,817
3 2014	96,634	74,124	170,758
4 2015	116,080	51,130	167,211
5 2016	146,399	49,588	195,988
6 2017	229,862	39,749	269,611
7 2018	322,652	23,159	345,811
8 2019	-	-	-
9 2020	-	-	-
10 2021	-	-	-
11 2022	-	-	-
12 2023	-	-	-
13 2024	-	-	-
14 2025	-	-	-
15 2026	-	-	-
16 2027	-	-	-
17 2028	-	-	-
18 Total	1,072,905	408,589	1,481,495

Table 8E

**Total Energy Northwest Net Debt Service
(\$000s)**

	A	B	C	D
	Fiscal Year	<u>Principal</u>	<u>Interest</u>	<u>Total Debt Service</u>
1	2012	299,650	256,105	555,755
2	2013	320,751	213,325	534,076
3	2014	374,460	205,310	579,769
4	2015	375,153	170,849	546,002
5	2016	391,489	161,553	553,042
6	2017	414,734	136,565	551,300
7	2018	418,288	110,791	529,079
8	2019	236,668	85,095	321,764
9	2020	249,157	75,991	325,149
10	2021	265,164	66,120	331,284
11	2022	286,789	55,507	342,297
12	2023	301,827	44,236	346,063
13	2024	239,820	32,467	272,287
14	2025	22,139	22,714	44,852
15	2026	24,856	24,184	49,040
16	2027	28,087	25,677	53,764
17	2028	<u>31,522</u>	<u>26,976</u>	<u>58,498</u>
18	Total	4,280,554	1,713,466	5,994,020

Table 8F

Total CARES Net Debt Service
(\$000s)

	A	B	C	D
	<u>Fiscal</u> <u>Year</u>	<u>Principal</u>	<u>Interest</u>	<u>Total Debt</u> <u>Service</u>
1	2012	496	51	547
2	2013	520	26	546
3	2014	-	-	-
4	2015	-	-	-
5	2016	-	-	-
6	2017	-	-	-
7	2018	-	-	-
8	2019	-	-	-
9	2020	-	-	-
10	2021	-	-	-
11	2022	-	-	-
12	2023	-	-	-
13	2024	-	-	-
14	2025	-	-	-
15	2026	-	-	-
16	2027	-	-	-
17	2028	-	-	-
18	Total	1,017	77	1,094

Table 8G

**Total Tacoma Net Debt Service
(\$000s)**

	A	B	C	D
	Fiscal Year	Principal	Interest	Total Debt Service
1	2012	1,613	218	1,831
2	2013	1,692	138	1,830
3	2014	1,776	55	1,831
4	2015	298	7	305
5	2016	-	-	-
6	2017	-	-	-
7	2018	-	-	-
8	2019	-	-	-
9	2020	-	-	-
10	2021	-	-	-
11	2022	-	-	-
12	2023	-	-	-
13	2024	-	-	-
14	2025	-	-	-
15	2026	-	-	-
16	2027	-	-	-
17	2028	-	-	-
18	Total	5,379	417	5,797

Table 8H

**Total N. Wasco Net Debt Service
(\$000s)**

	A	B	C	D
	Fiscal Year	Principal	Interest	Total Debt Service
1	2012	1,141	1,082	2,223
2	2013	1,200	1,024	2,224
3	2014	1,264	961	2,225
4	2015	1,329	896	2,225
5	2016	1,398	826	2,225
6	2017	1,473	754	2,226
7	2018	1,548	677	2,225
8	2019	1,627	597	2,223
9	2020	1,711	512	2,223
10	2021	1,800	423	2,223
11	2022	1,894	330	2,224
12	2023	1,993	231	2,224
13	2024	2,098	127	2,225
14	2025	353	18	371
15	2026	-	-	-
16	2027	-	-	-
17	2028	-	-	-
18	Total	20,828	8,458	29,285

Table 8I

**Total Cowlitz Net Debt Service
(\$000s)**

	A	B	C	D
	Fiscal Year	<u>Principal</u>	<u>Interest</u>	<u>Total Debt Service</u>
1	2012	6,215	5,500	11,715
2	2013	6,520	5,189	11,709
3	2014	6,850	4,863	11,713
4	2015	7,190	4,521	11,711
5	2016	7,545	4,161	11,706
6	2017	7,930	3,784	11,714
7	2018	8,325	3,387	11,712
8	2019	8,740	2,971	11,711
9	2020	9,175	2,534	11,709
10	2021	9,635	2,075	11,710
11	2022	10,120	1,594	11,714
12	2023	11,035	1,088	12,123
13	2024	11,585	536	12,121
14	2025	-	-	-
15	2026	-	-	-
16	2027	-	-	-
17	2028	-	-	-
18	Total	110,865	42,202	153,067

9. IRRIGATION ASSISTANCE

9.1 Introduction

This chapter documents the irrigation construction costs for Federal reclamation projects in the Pacific Northwest that the FCRPS has an obligation to repay. These payments, known as irrigation assistance, have been included in the repayment study.

9.2 Background

In an effort to encourage settlement of the arid and semiarid lands of the Western United States, the 1902 Reclamation Act created the Reclamation to develop water resources for irrigation. The 1902 Reclamation Act provided that irrigators using the reclamation projects had 10 years to repay the construction costs of such projects. Title to the reclamation projects, however, remained with the Federal government even after all construction costs were repaid.

By the 1920s, a 10-year repayment period for irrigators was determined to be economically unrealistic. After several leniency acts and extensions, Congress passed the 1939 Reclamation Act, which changed the repayment period on reclamation projects to 40 years after a 10-year development period. Later revisions and project-specific legislation extended repayment periods for most reclamation projects to 50 years after a 10-year development period. However, the Kennewick project has a 66-year repayment period.

Originally, irrigators were responsible for repaying all project construction costs without interest. However, hydropower is a by-product of many reclamation projects and not all of the power generated is needed for irrigation works. As early as the Town Sites and Power Development Act (April 16, 1906, ch. 1631, 34 Stat. 116) Congress authorized Reclamation to lease surplus power and use the proceeds to repay part of the costs of the reclamation projects.

The concept of power revenues contributing to the repayment of Reclamation's multipurpose projects evolved to the current policy, in which power revenues are used to repay that portion of the project construction costs allocated to irrigation use that are beyond the irrigators' "ability to repay." Moreover, the costs to be repaid by power revenues, known as irrigation assistance, are to be repaid without interest. Reclamation has the responsibility to make the determination of the amount that is beyond the irrigators' "ability to repay" through a farm budget analysis. The results of this analysis are used to establish the irrigators' repayment responsibility. The irrigators, as an irrigation district, and Reclamation formalize this repayment responsibility in irrigation contracts.

9.3 Irrigation Repayment

In the Pacific Northwest, the Third Powerplant, Grand Coulee Dam legislation, P.L. 89-448, authorized repayment of the irrigation assistance costs from net revenues of the entire FCRPS. There are, however, limitations on the FCRPS's repayment responsibility. These limitations were added in amendment to the Third Powerplant, Grand Coulee Dam legislation, P.L. 89-561, and apply to reclamation projects, including projects not previously receiving similar assistance, which are authorized to receive such assistance, for which construction was authorized after September 7, 1966.

The irrigation assistance for such projects is to be paid only from net revenues of the power system. Net revenues are defined as those revenues over and above the amount needed to recover all costs allocated to power, including the cost of acquiring power by purchase or exchange, and previously authorized irrigation assistance. The construction of such projects shall be scheduled so that the repayment of the irrigation assistance associated with such projects from power revenues will not require an increase in BPA's power rates.

The total of all irrigation assistance to be repaid from power revenues shall not average more than \$30 million per year in any period of 20 consecutive years.

Reclamation provides BPA with the irrigation assistance to be repaid from each reclamation project. The current generation repayment study includes information provided in July 2008. Because irrigation assistance costs are repaid without interest and BPA repays highest interest-bearing investment first, irrigation assistance is generally scheduled to be repaid in the last year of the repayment period for each reclamation project.

**Table 9-1: Irrigation Assistance by Project
(\$000s)**

	A	B	C
	Fiscal Year Due	Project	Amount
1	2012	Columbia Basin	1,182
2	2012 Total:		1,182
3	2013	Columbia Basin	58,822
4	2013 Total:		58,822
5	2014	Columbia Basin	52,426
6	2014 Total:		52,426
7	2015	Columbia Basin	51,987
8	2015 Total:		51,987
9	2016	Columbia Basin	60,813
10	2016 Total:		60,813
11	2017	Columbia Basin	49,125
12		Greater Wenatchee	1,071
13		Yakima, Roza	1,081
14	2017 Total:		51,277
15	2018	Columbia Basin	26,051
16		Foster Creek	675
17		Yakima, Roza	582
18	2018 Total:		27,308
19	2019	Columbia Basin	51,264
20		FosterCreek	1,124
21		Michaud Flats	2,081
22		Michaud-Fort Hall	2,081
23		Yaklma,Roza	748
24	2019 Total:		57,298
25	2020	Columbia Basin	22,167
26		Crooked River	2,245
27	2020 Total:		24,412
28	2021	Columbia Basin	10,121
29		Yakima, Roza	2,079
30	2021 Total:		12,200
31	2022	Columbia Basin	13,737
32		Yakima, Rosa	665
33	2022 Total:		14,402
34	2023	Columbia Basin	9,857
35		Rogue River	3,094
36	2023 Total:		12,951
37	2024	Columbia Basin	7,859
38		Greater Weriatchee	1,982
39		Yakima, Kennewick	5,379
40	2024 Total:		15,220
41	2025	Columbia Basin	12,550
42		Crooked River Ext	1,092
43	2025 Total:		13,642
44	2026	Columbia Basin	13,017
45		Greater Wenatchee	912
46		Whitestone Coulee Unit	3,810
47		Yakima, Rosa	3,160
48	2026 Total:		20,899
49	2027	Columbia Basin	3,965
50		Rogue River	2,225
51	2027 Total:		6,190

**Table 9-1: Irrigation Assistance by Project
(\$000s)**

	A	B	C	
	Fiscal Year Due	Project	Amount	Total
52	2028	Columbia Basin	7,055	
53		The Dalles	4,204	
54	2028 Total:			11,259
55	2029	Baker	4,065	
56	2029 Total:			4,065
57	2030	East Greenacres	2,147	
58	2030 Total:			2,147
59	2031	Columbia Basin	10,633	
60	2031 Total:			10,633
61	2033	Rogue River	4,351	
62	2033 Total:			4,351
63	2035	Columbia Basin	7,843	
64	2035 Total:			7,843
65	2036	Manson Unit	16,163	
66		Tualatin	9,107	
67		Whitestone Coulee Unit	3,660	
68	2036 Total:			28,930
69	2037	Columbia Basin	12,193	
70		East Greenacres	4,168	
71	2037 Total:			16,361
72	2039	Tualatin	14,244	
73	2039 Total:			14,244
74	2042	Oroville Tonasket	73,659	
75	2042 Total:			73,659
76	2045	Columbia Basin	11,700	
77	2045 Total:			11,700
78				
79	Grand Total:			666,221

Note: Assistance for Lower Teton, \$40,273, is not included in this list, as it was never completed. Therefore the Administrator has no obligation to recover the cost.

10. REPLACEMENTS PROJECTED AFTER THE COST EVALUATION PERIOD

10.1 Introduction

This chapter documents the process used to develop the capital investments necessary to maintain the existing Federal generating projects at their current operating level during the repayment period. This chapter also includes replacement costs for CGS. Replacement forecasts are included in repayment studies as required by RA 6120.2.

10.2 Methodology

The repayment study incorporates a schedule of Federal investment with the replacements that are expected to occur over the repayment period for existing generation projects. This schedule, expressed in mid-year dollars for each repayment study, FY 2012 and 2013, is based on the amount of investment in the generating projects for the COE and Reclamation through the end of the cost evaluation period.

Replacements are based on data provided by BPA's Federal Hydro Projects group, the organization responsible for managing the capital program that funds Corps and Reclamation powerhouse replacements. They prepare a project-by-project analysis of future funding requirements extending far into the future. The data are adjusted for several factors. First, adjustments are made to remove the effect of gaining efficiencies from replacing old equipment. The BPA Federal Hydro Projects group estimates that 12.5 percent of total costs reflect upgrades for efficiencies. Second, consistent with the capital spending in the IPR process, we have applied a lapse factor, an assumption that a portion of BPA's capital program will be delayed into subsequent rate periods, of 15 percent to further reduce the cost data. Third, replacements exclude the portion of the budget for "small capital," those investments outside of the powerhouses.

We received total annual funding data in 2010 dollars. We relied on data projected through 2018. After that year, the data was held constant to reflect the budgeting intent to hold costs level for the hydro program. The replacements in any given study year reflect the price levels of that study year. Accordingly, we escalated the replacements for each study year to the dollar values of the study year. Then, we reduced the 50-year replacement streams for each repayment study by a total of 32.8 percent—15 percent for the lapse factor, 12.5 percent for the upgrades, and 5.3 percent for the small capital investments.

A schedule of replacement investments for CGS is based on the original investment adjusted by the use of the Handy-Whitman indices for a nuclear power plant. The Handy-Whitman Index is widely used in industry for estimating replacement costs for plant. The result of this calculation was converted into a mortgage-style investment with payments sufficient to retire the replacement cost in 35 years.

Table 10A: Corps/Reclamation Replacments (FY 2012)
(\$000s)

	A	B	C	D
	In Service Date	Current Principal	Interest Rate	Due Date
1	2013	170,434	6.010%	2058
2	2014	168,870	6.010%	2059
3	2015	168,070	6.010%	2060
4	2016	163,341	6.010%	2061
5	2017	165,027	6.010%	2062
6	2018	156,745	6.010%	2063
7	2019	156,676	6.010%	2064
8	2020	156,652	6.010%	2065
9	2021	156,652	6.010%	2066
10	2022	156,652	6.010%	2067
11	2023	156,652	6.010%	2068
12	2024	156,652	6.010%	2069
13	2025	156,652	6.010%	2070
14	2026	156,652	6.010%	2071
15	2027	156,652	6.010%	2072
16	2028	156,652	6.010%	2073
17	2029	156,652	6.010%	2074
18	2030	156,652	6.010%	2075
19	2031	156,652	6.010%	2076
20	2032	156,652	6.010%	2077
21	2033	156,652	6.010%	2078
22	2034	156,652	6.010%	2079
23	2035	156,652	6.010%	2080
24	2036	156,652	6.010%	2081
25	2037	156,652	6.010%	2082
26	2038	156,652	6.010%	2083
27	2039	156,652	6.010%	2084
28	2040	156,652	6.010%	2085
29	2041	156,652	6.010%	2086
30	2042	156,652	6.010%	2087
31	2043	156,652	6.010%	2088
32	2044	156,652	6.010%	2089
33	2045	156,652	6.010%	2090
34	2046	156,652	6.010%	2091
35	2047	156,652	6.010%	2092
36	2048	156,652	6.010%	2093
37	2049	156,652	6.010%	2094
38	2050	156,652	6.010%	2095
39	2051	156,652	6.010%	2096
40	2052	156,652	6.010%	2097
41	2053	156,652	6.010%	2098
42	2054	156,652	6.010%	2099
43	2055	156,652	6.010%	2100
44	2056	156,652	6.010%	2101
45	2057	156,652	6.010%	2102
46	2058	156,652	6.010%	2103
47	2059	156,652	6.010%	2104
48	2060	156,652	6.010%	2105
49	2061	156,652	6.010%	2106
50	2062	156,652	6.010%	2107

Table 10B: Corps/Reclamation Replacements (FY 2013)

	A	B	C	D
	In Service Date	Current Principal	Interest Rate	Due Date
1	2014	171,480	6.280%	2059
2	2015	170,668	6.280%	2060
3	2016	165,866	6.280%	2061
4	2017	167,578	6.280%	2062
5	2018	159,168	6.280%	2063
6	2019	159,097	6.280%	2064
7	2020	159,073	6.280%	2065
8	2021	159,073	6.280%	2066
9	2022	159,073	6.280%	2067
10	2023	159,073	6.280%	2068
11	2024	159,073	6.280%	2069
12	2025	159,073	6.280%	2070
13	2026	159,073	6.280%	2071
14	2027	159,073	6.280%	2072
15	2028	159,073	6.280%	2073
16	2029	159,073	6.280%	2074
17	2030	159,073	6.280%	2075
18	2031	159,073	6.280%	2076
19	2032	159,073	6.280%	2077
20	2033	159,073	6.280%	2078
21	2034	159,073	6.280%	2079
22	2035	159,073	6.280%	2080
23	2036	159,073	6.280%	2081
24	2037	159,073	6.280%	2082
25	2038	159,073	6.280%	2083
26	2039	159,073	6.280%	2084
27	2040	159,073	6.280%	2085
28	2041	159,073	6.280%	2086
29	2042	159,073	6.280%	2087
30	2043	159,073	6.280%	2088
31	2044	159,073	6.280%	2089
32	2045	159,073	6.280%	2090
33	2046	159,073	6.280%	2091
34	2047	159,073	6.280%	2092
35	2048	159,073	6.280%	2093
36	2049	159,073	6.280%	2094
37	2050	159,073	6.280%	2095
38	2051	159,073	6.280%	2096
39	2052	159,073	6.280%	2097
40	2053	159,073	6.280%	2098
41	2054	159,073	6.280%	2099
42	2055	159,073	6.280%	2100
43	2056	159,073	6.280%	2101
44	2057	159,073	6.280%	2102
45	2058	159,073	6.280%	2103
46	2059	159,073	6.280%	2104
47	2060	159,073	6.280%	2105
48	2061	159,073	6.280%	2106
49	2062	159,073	6.280%	2107
50	2063	159,073	6.280%	2108

Table 10C: Columbia Generating Station Replacements**A (\$000s) B**

	Fiscal Year	Total Debt Service
1	2044	122,259,183
2	2045	489,036,093
3	2046	489,035,163
4	2047	489,037,305
5	2048	489,035,140
6	2049	489,035,925
7	2050	489,035,685
8	2051	489,034,793
9	2052	489,035,178
10	2053	489,035,183
11	2054	489,035,958
12	2055	489,036,243
13	2056	489,033,690
14	2057	489,033,615
15	2058	489,034,738
16	2059	489,038,223
17	2060	489,037,463
18	2061	489,037,190
19	2062	489,035,253
20	2063	489,035,403
21	2064	489,036,863
22	2065	489,034,470
23	2066	489,035,073
24	2067	489,036,730
25	2068	489,034,078
26	2069	489,034,648
27	2070	489,034,250
28	2071	489,034,980
29	2072	489,037,210
30	2073	489,035,768
31	2074	489,036,330
32	2075	489,037,128
33	2076	489,035,410
34	2077	489,033,553
35	2078	489,033,548
36	2079	482,331,788
37	2080	346,668,750

11. REPAYMENT STUDY INPUT FILES, FY 2012 STUDY

TABLE 11A: HISTORICAL INVESTMENTS
October 1, 2010 - September 30, 2012 Cost Evaluation period
(\$000s) (FY 2012)

	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
1	Albeni Falls	25,494	-	6.910%	2005	1955	9	-	-
2	Albeni Falls	11	-	6.910%	2005	1956	9	-	-
3	Albeni Falls	10	-	6.910%	2005	1957	9	-	-
4	Albeni Falls	11	-	6.910%	2005	1958	9	-	-
5	Albeni Falls	11	-	6.910%	2005	1959	9	-	-
6	Albeni Falls	10	-	6.910%	2005	1960	9	-	-
7	Albeni Falls	11	-	6.910%	2005	1961	9	-	-
8	Albeni Falls	11	-	6.910%	2005	1962	9	-	-
9	Albeni Falls	10	-	6.910%	2005	1963	9	-	-
10	Albeni Falls	11	-	6.910%	2005	1964	9	-	-
11	Albeni Falls	11	-	6.910%	2005	1965	9	-	-
12	Albeni Falls	10	-	6.910%	2005	1966	9	-	-
13	Albeni Falls	11	-	6.910%	2005	1967	9	-	-
14	Albeni Falls	11	-	6.910%	2005	1968	9	-	-
15	Albeni Falls	10	-	6.910%	2005	1969	9	-	-
16	Albeni Falls	11	-	6.910%	2005	1970	9	-	-
17	Albeni Falls	11	-	6.910%	2005	1971	9	-	-
18	Albeni Falls	10	-	6.910%	2005	1972	9	-	-
19	Albeni Falls	11	-	6.910%	2005	1973	9	-	-
20	Albeni Falls	11	-	6.910%	2005	1974	9	-	-
21	Albeni Falls	10	-	6.910%	2005	1975	9	-	-
22	Albeni Falls	11	-	6.910%	2005	1976	9	-	-
23	Albeni Falls	11	-	6.910%	2005	1977	9	-	-
24	Albeni Falls	10	-	6.910%	2005	1978	9	-	-
25	Albeni Falls	11	-	6.910%	2005	1979	9	-	-
26	Albeni Falls	11	-	6.910%	2005	1980	9	-	-
27	Albeni Falls	10	-	6.910%	2005	1981	9	-	-
28	Albeni Falls	11	-	6.910%	2005	1982	9	-	-
29	Albeni Falls	11	-	6.910%	2005	1983	9	-	-
30	Albeni Falls	7	-	6.910%	2005	1985	9	-	-
31	Albeni Falls	293	-	6.910%	2005	1986	9	-	-
32	Albeni Falls	12	-	6.910%	2005	1987	9	-	-
33	Albeni Falls	15	-	8.888%	2005	1987	9	-	-
34	Albeni Falls	328	-	8.500%	2005	1988	9	-	-
35	Albeni Falls	221	-	9.250%	2005	1989	9	-	-
36	Albeni Falls	1,287	-	8.875%	2005	1990	9	-	-
37	Albeni Falls	43	-	8.750%	2005	1991	9	-	-
38	Albeni Falls	111	-	8.750%	2005	1991	9	-	-
39	Albeni Falls	7	-	8.500%	2005	1992	9	-	-
40	Albeni Falls	106	-	8.500%	2005	1992	9	-	-
41	Albeni Falls	295	-	7.875%	2005	1993	9	-	-
42	Albeni Falls	714	-	7.875%	2005	1993	9	-	-
43	Albeni Falls	61	-	7.125%	2019	1994	9	-	-
44	Albeni Falls	173	-	7.125%	2019	1994	9	-	-
45	Albeni Falls	17	-	7.090%	2010	1995	9	-	-
46	Albeni Falls	51	-	7.890%	2010	1995	9	-	-
47	Albeni Falls	443	443	7.150%	2045	1995	9	-	-
48	Albeni Falls	531	531	7.150%	2045	1995	9	-	-
49	Albeni Falls	1,105	1,105	7.150%	2045	1995	9	-	-
50	Albeni Falls	130	-	7.290%	2016	1996	9	-	-
51	Albeni Falls	431	431	7.150%	2047	1997	9	-	-
52	Albeni Falls	481	481	5.125%	2055	2005	9	-	-
53	Albeni Falls	57	57	4.375%	2059	2009	9	-	-
54	Albeni Falls	42	42	4.250%	2060	2010	9	-	-
55	Boise	1,249	-	3.000%	1962	1912	9	-	-
56	Boise	285	-	3.000%	1962	1912	9	-	-
57	Boise	190	-	3.000%	1976	1926	9	-	-
58	Boise	832	-	3.000%	1976	1926	9	-	-
59	Boise	416	-	3.000%	2000	1950	9	-	-
60	Boise	95	-	3.000%	2000	1950	9	-	-
61	Boise	1,873	-	3.000%	2001	1951	9	-	-
62	Boise	428	-	3.000%	2001	1951	9	-	-
63	Boise	11	-	3.000%	2001	1952	9	-	-
64	Boise	3	-	3.000%	2001	1952	9	-	-
65	Boise	11	-	3.000%	2001	1953	9	-	-
66	Boise	3	-	3.000%	2001	1953	9	-	-
67	Boise	11	-	3.000%	2001	1954	9	-	-
68	Boise	3	-	3.000%	2001	1954	9	-	-
69	Boise	11	-	3.000%	2001	1955	9	-	-

TABLE 11A: HISTORICAL INVESTMENTS
October 1, 2010 - September 30, 2012 Cost Evaluation period
(\$000s) (FY 2012)

	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
70	Boise	3	-	3.000%	2001	1955	9	-	-
71	Boise	11	-	3.000%	2001	1956	9	-	-
72	Boise	3	-	3.000%	2001	1956	9	-	-
73	Boise	11	-	3.000%	2001	1957	9	-	-
74	Boise	3	-	3.000%	2001	1957	9	-	-
75	Boise	11	-	3.000%	2001	1958	9	-	-
76	Boise	3	-	3.000%	2001	1958	9	-	-
77	Boise	11	-	3.000%	2001	1959	9	-	-
78	Boise	3	-	3.000%	2001	1959	9	-	-
79	Boise	11	-	3.000%	2001	1960	9	-	-
80	Boise	3	-	3.000%	2001	1960	9	-	-
81	Boise	11	-	3.000%	2001	1961	9	-	-
82	Boise	3	-	3.000%	2001	1961	9	-	-
83	Boise	11	-	3.000%	2001	1962	9	-	-
84	Boise	3	-	3.000%	2001	1962	9	-	-
85	Boise	11	-	3.000%	2001	1963	9	-	-
86	Boise	3	-	3.000%	2001	1963	9	-	-
87	Boise	11	-	3.000%	2001	1964	9	-	-
88	Boise	3	-	3.000%	2001	1964	9	-	-
89	Boise	11	-	3.000%	2001	1965	9	-	-
90	Boise	3	-	3.000%	2001	1965	9	-	-
91	Boise	11	-	3.000%	2001	1966	9	-	-
92	Boise	3	-	3.000%	2001	1966	9	-	-
93	Boise	11	-	3.000%	2001	1967	9	-	-
94	Boise	3	-	3.000%	2001	1967	9	-	-
95	Boise	11	-	3.000%	2001	1968	9	-	-
96	Boise	3	-	3.000%	2001	1968	9	-	-
97	Boise	11	-	3.000%	2001	1969	9	-	-
98	Boise	3	-	3.000%	2001	1969	9	-	-
99	Boise	11	-	3.000%	2001	1970	9	-	-
100	Boise	3	-	3.000%	2001	1970	9	-	-
101	Boise	11	-	3.000%	2001	1971	9	-	-
102	Boise	3	-	3.000%	2001	1971	9	-	-
103	Boise	11	-	3.000%	2001	1972	9	-	-
104	Boise	3	-	3.000%	2001	1972	9	-	-
105	Boise	11	-	3.000%	2001	1973	9	-	-
106	Boise	3	-	3.000%	2001	1973	9	-	-
107	Boise	11	-	3.000%	2001	1974	9	-	-
108	Boise	3	-	3.000%	2001	1974	9	-	-
109	Boise	11	-	3.000%	2001	1975	9	-	-
110	Boise	3	-	3.000%	2001	1975	9	-	-
111	Boise	11	-	3.000%	2001	1976	9	-	-
112	Boise	3	-	3.000%	2001	1976	9	-	-
113	Boise	11	-	3.000%	2001	1977	9	-	-
114	Boise	3	-	3.000%	2001	1977	9	-	-
115	Boise	11	-	3.000%	2001	1978	9	-	-
116	Boise	3	-	3.000%	2001	1978	9	-	-
117	Boise	11	-	3.000%	2001	1979	9	-	-
118	Boise	3	-	3.000%	2001	1979	9	-	-
119	Boise	18	-	3.000%	2001	1980	9	-	-
120	Boise	4	-	3.000%	2001	1980	9	-	-
121	Boise	8	-	3.000%	2001	1981	9	-	-
122	Boise	2	-	3.000%	2001	1981	9	-	-
123	Boise	1	-	3.000%	2001	1982	9	-	-
124	Boise	1	-	3.000%	2001	1982	9	-	-
125	Boise	1	-	3.000%	2001	1983	9	-	-
126	Boise	1,325	-	10.750%	2001	1984	9	-	-
127	Boise	303	-	10.750%	2001	1984	9	-	-
128	Boise	94	-	6.710%	2001	1986	9	-	-
129	Boise	3	-	8.500%	2001	1988	9	-	-
130	Boise	3,264	-	9.250%	2001	1989	9	-	-
131	Boise	38	-	8.875%	2001	1990	9	-	-
132	Boise	50	-	8.750%	2001	1991	9	-	-
133	Boise	418	-	7.875%	2001	1993	9	-	-
134	Boise	7	-	7.125%	1999	1994	9	-	-
135	Boise	7	-	6.950%	2046	1996	9	-	-
136	Boise	442	442	7.150%	2046	1996	9	-	-
137	Boise	656	656	7.150%	2046	1996	9	-	-
138	Boise	9	-	6.950%	2047	1997	9	-	-

TABLE 11A: HISTORICAL INVESTMENTS
October 1, 2010 - September 30, 2012 Cost Evaluation period
(\$000s) (FY 2012)

	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
139	Boise	2,266	2,266	7.150%	2047	1997	9	-	-
140	Boise	903	903	5.125%	2055	2005	9	-	-
141	Boise	15	15	4.500%	2056	2006	9	-	-
142	Boise	76	76	5.000%	2057	2007	9	-	-
143	Boise	64	64	4.875%	2058	2008	9	-	-
144	Boise	2	2	4.375%	2059	2009	9	-	-
145	Bonneville 2nd Powerhouse	40,964	40,964	7.150%	2031	1981	9	-	-
146	Bonneville 2nd Powerhouse	455	455	7.150%	2031	1981	9	-	-
147	Bonneville 2nd Powerhouse	203,535	203,535	7.150%	2032	1982	9	-	-
148	Bonneville 2nd Powerhouse	2,264	2,264	7.150%	2032	1982	9	-	-
149	Bonneville 2nd Powerhouse	62,409	62,409	7.150%	2033	1983	9	-	-
150	Bonneville 2nd Powerhouse	694	694	7.150%	2033	1983	9	-	-
151	Bonneville 2nd Powerhouse	9,138	9,138	7.150%	2033	1985	9	-	-
152	Bonneville 2nd Powerhouse	30,578	30,578	7.150%	2033	1986	9	-	-
153	Bonneville 2nd Powerhouse	2,801	2,801	7.150%	2033	1987	9	-	-
154	Bonneville 2nd Powerhouse	1,271	1,271	7.150%	2033	1988	9	-	-
155	Bonneville 2nd Powerhouse	1,232	1,232	7.150%	2033	1989	9	-	-
156	Bonneville 2nd Powerhouse	1,588	1,588	7.150%	2033	1990	9	-	-
157	Bonneville 2nd Powerhouse	3,998	-	8.750%	2033	1991	9	-	-
158	Bonneville 2nd Powerhouse	26	-	8.750%	2033	1991	9	-	-
159	Bonneville 2nd Powerhouse	2,446	-	8.500%	2033	1992	9	-	-
160	Bonneville 2nd Powerhouse	3,668	-	7.875%	2033	1993	9	-	-
161	Bonneville 2nd Powerhouse	5,700	5,700	7.150%	2044	1994	9	-	-
162	Bonneville 2nd Powerhouse	3,791	3,791	7.150%	2045	1995	9	-	-
163	Bonneville 2nd Powerhouse	376	376	7.150%	2046	1996	9	-	-
164	Bonneville Dam	11,726	-	2.500%	1988	1938	9	-	-
165	Bonneville Dam	130	-	2.500%	1988	1938	9	-	-
166	Bonneville Dam	17,589	-	2.500%	1991	1941	9	-	-
167	Bonneville Dam	196	-	2.500%	1991	1941	9	-	-
168	Bonneville Dam	5,863	-	2.500%	1992	1942	9	-	-
169	Bonneville Dam	65	-	2.500%	1992	1942	9	-	-
170	Bonneville Dam	17,589	-	2.500%	1993	1943	9	-	-
171	Bonneville Dam	196	-	2.500%	1993	1943	9	-	-
172	Bonneville Dam	5,860	-	2.500%	1994	1944	9	-	-
173	Bonneville Dam	65	-	2.500%	1994	1944	9	-	-
174	Bonneville Dam	82	-	2.500%	1994	1945	9	-	-
175	Bonneville Dam	1	-	2.500%	1994	1945	9	-	-
176	Bonneville Dam	81	-	2.500%	1994	1946	9	-	-
177	Bonneville Dam	1	-	2.500%	1994	1946	9	-	-
178	Bonneville Dam	82	-	2.500%	1994	1947	9	-	-
179	Bonneville Dam	1	-	2.500%	1994	1947	9	-	-
180	Bonneville Dam	81	-	2.500%	1994	1948	9	-	-
181	Bonneville Dam	1	-	2.500%	1994	1948	9	-	-
182	Bonneville Dam	82	-	2.500%	1994	1949	9	-	-
183	Bonneville Dam	1	-	2.500%	1994	1949	9	-	-
184	Bonneville Dam	81	-	2.500%	1994	1950	9	-	-
185	Bonneville Dam	11	-	2.500%	1994	1950	9	-	-
186	Bonneville Dam	81	-	2.500%	1994	1951	9	-	-
187	Bonneville Dam	11	-	2.500%	1994	1951	9	-	-
188	Bonneville Dam	82	-	2.500%	1994	1952	9	-	-
189	Bonneville Dam	1	-	2.500%	1994	1952	9	-	-
190	Bonneville Dam	81	-	2.500%	1994	1953	9	-	-
191	Bonneville Dam	1	-	2.500%	1994	1953	9	-	-
192	Bonneville Dam	82	-	2.500%	1994	1954	9	-	-
193	Bonneville Dam	1	-	2.500%	1994	1954	9	-	-
194	Bonneville Dam	81	-	2.500%	1994	1955	9	-	-
195	Bonneville Dam	1	-	2.500%	1994	1955	9	-	-
196	Bonneville Dam	81	-	2.500%	1994	1956	9	-	-
197	Bonneville Dam	1	-	2.500%	1994	1956	9	-	-
198	Bonneville Dam	82	-	2.500%	1994	1957	9	-	-
199	Bonneville Dam	1	-	2.500%	1994	1957	9	-	-
200	Bonneville Dam	81	-	2.500%	1994	1958	9	-	-
201	Bonneville Dam	1	-	2.500%	1994	1958	9	-	-
202	Bonneville Dam	82	-	2.500%	1994	1959	9	-	-
203	Bonneville Dam	1	-	2.500%	1994	1959	9	-	-
204	Bonneville Dam	81	-	2.500%	1994	1960	9	-	-
205	Bonneville Dam	1	-	2.500%	1994	1960	9	-	-
206	Bonneville Dam	81	-	2.500%	1994	1961	9	-	-
207	Bonneville Dam	1	-	2.500%	1994	1961	9	-	-

TABLE 11A: HISTORICAL INVESTMENTS
October 1, 2010 - September 30, 2012 Cost Evaluation period
(\$000s) (FY 2012)

	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
208	Bonneville Dam	82	-	2.500%	1994	1962	9	-	-
209	Bonneville Dam	1	-	2.500%	1994	1962	9	-	-
210	Bonneville Dam	81	-	2.500%	1994	1963	9	-	-
211	Bonneville Dam	1	-	2.500%	1994	1963	9	-	-
212	Bonneville Dam	82	-	2.500%	1994	1964	9	-	-
213	Bonneville Dam	1	-	2.500%	1994	1964	9	-	-
214	Bonneville Dam	81	-	2.500%	1994	1965	9	-	-
215	Bonneville Dam	1	-	2.500%	1994	1965	9	-	-
216	Bonneville Dam	81	-	2.500%	1994	1966	9	-	-
217	Bonneville Dam	1	-	2.500%	1994	1966	9	-	-
218	Bonneville Dam	82	-	2.500%	1994	1967	9	-	-
219	Bonneville Dam	1	-	2.500%	1994	1967	9	-	-
220	Bonneville Dam	81	-	2.500%	1994	1968	9	-	-
221	Bonneville Dam	1	-	2.500%	1994	1968	9	-	-
222	Bonneville Dam	82	-	2.500%	1994	1969	9	-	-
223	Bonneville Dam	1	-	2.500%	1994	1969	9	-	-
224	Bonneville Dam	81	-	2.500%	1994	1970	9	-	-
225	Bonneville Dam	1	-	2.500%	1994	1970	9	-	-
226	Bonneville Dam	81	-	2.500%	1994	1971	9	-	-
227	Bonneville Dam	1	-	2.500%	1994	1971	9	-	-
228	Bonneville Dam	82	-	2.500%	1994	1972	9	-	-
229	Bonneville Dam	1	-	2.500%	1994	1972	9	-	-
230	Bonneville Dam	81	-	2.500%	1994	1973	9	-	-
231	Bonneville Dam	1	-	2.500%	1994	1973	9	-	-
232	Bonneville Dam	82	-	2.500%	1994	1974	9	-	-
233	Bonneville Dam	1	-	2.500%	1994	1974	9	-	-
234	Bonneville Dam	81	-	2.500%	1994	1975	9	-	-
235	Bonneville Dam	1	-	2.500%	1994	1975	9	-	-
236	Bonneville Dam	81	-	2.500%	1994	1976	9	-	-
237	Bonneville Dam	1	-	2.500%	1994	1976	9	-	-
238	Bonneville Dam	82	-	2.500%	1994	1977	9	-	-
239	Bonneville Dam	1	-	2.500%	1994	1977	9	-	-
240	Bonneville Dam	15,670	15,670	7.150%	2027	1977	9	-	-
241	Bonneville Dam	81	-	2.500%	1994	1978	9	-	-
242	Bonneville Dam	1	-	2.500%	1994	1978	9	-	-
243	Bonneville Dam	82	-	2.500%	1994	1979	9	-	-
244	Bonneville Dam	1	-	2.500%	1994	1979	9	-	-
245	Bonneville Dam	81	-	2.500%	1994	1980	9	-	-
246	Bonneville Dam	1	-	2.500%	1994	1980	9	-	-
247	Bonneville Dam	81	-	2.500%	1994	1981	9	-	-
248	Bonneville Dam	1	-	2.500%	1994	1981	9	-	-
249	Bonneville Dam	82	-	2.500%	1994	1982	9	-	-
250	Bonneville Dam	2	-	2.500%	1994	1982	9	-	-
251	Bonneville Dam	81	-	2.500%	1994	1983	9	-	-
252	Bonneville Dam	1	-	2.500%	1994	1983	9	-	-
253	Bonneville Dam	873	-	10.750%	1994	1984	9	-	-
254	Bonneville Dam	10	-	10.750%	1994	1984	9	-	-
255	Bonneville Dam	119	-	2.500%	1994	1985	9	-	-
256	Bonneville Dam	454	-	11.375%	1994	1986	9	-	-
257	Bonneville Dam	555	-	2.500%	1994	1986	9	-	-
258	Bonneville Dam	26	-	8.875%	1994	1987	9	-	-
259	Bonneville Dam	260	-	2.500%	1994	1987	9	-	-
260	Bonneville Dam	4,199	-	8.500%	1994	1988	9	-	-
261	Bonneville Dam	10	-	8.500%	1994	1988	9	-	-
262	Bonneville Dam	877	-	9.250%	1994	1989	9	-	-
263	Bonneville Dam	519	-	8.875%	1994	1990	9	-	-
264	Bonneville Dam	651	-	8.875%	1994	1990	9	-	-
265	Bonneville Dam	35	-	8.750%	1994	1991	9	-	-
266	Bonneville Dam	3,193	-	8.750%	1994	1991	9	-	-
267	Bonneville Dam	99	-	8.500%	1994	1992	9	-	-
268	Bonneville Dam	25	-	8.500%	1994	1992	9	-	-
269	Bonneville Dam	5,011	-	7.880%	2018	1993	9	-	-
270	Bonneville Dam	536	-	7.125%	2029	1994	9	-	-
271	Bonneville Dam	8	-	7.330%	2000	1995	9	-	-
272	Bonneville Dam	25	-	7.090%	2010	1995	9	-	-
273	Bonneville Dam	20	-	7.250%	2020	1995	9	-	-
274	Bonneville Dam	22	-	7.250%	2020	1995	9	-	-
275	Bonneville Dam	53	-	7.860%	2030	1995	9	-	-
276	Bonneville Dam	98	-	7.860%	2035	1995	9	-	-

TABLE 11A: HISTORICAL INVESTMENTS
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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
277	Bonneville Dam	243	243	7.150%	2045	1995	9	-	-
278	Bonneville Dam	410	410	7.150%	2045	1995	9	-	-
279	Bonneville Dam	440	440	7.150%	2045	1995	9	-	-
280	Bonneville Dam	374	-	7.860%	2045	1995	9	-	-
281	Bonneville Dam	834	-	7.290%	2016	1996	9	-	-
282	Bonneville Dam	22	22	7.150%	2031	1996	9	-	-
283	Bonneville Dam	18	18	7.150%	2046	1996	9	-	-
284	Bonneville Dam	18	18	7.150%	2046	1996	9	-	-
285	Bonneville Dam	80	80	7.150%	2046	1996	9	-	-
286	Bonneville Dam	109	109	7.150%	2046	1996	9	-	-
287	Bonneville Dam	142	142	7.150%	2046	1996	9	-	-
288	Bonneville Dam	223	223	7.150%	2046	1996	9	-	-
289	Bonneville Dam	751	751	7.150%	2046	1996	9	-	-
290	Bonneville Dam	1,322	1,322	7.150%	2046	1996	9	-	-
291	Bonneville Dam	122	-	7.230%	2022	1997	9	-	-
292	Bonneville Dam	518	518	7.150%	2032	1997	9	-	-
293	Bonneville Dam	161	161	7.150%	2047	1997	9	-	-
294	Bonneville Dam	19,368	19,368	5.375%	2049	1999	9	-	-
295	Bonneville Dam	24,446	24,446	6.125%	2050	2000	9	-	-
296	Bonneville Dam	2,530	2,530	5.875%	2051	2001	9	-	-
297	Bonneville Dam	448	448	5.500%	2052	2002	9	-	-
298	Bonneville Dam	4,581	4,581	5.125%	2053	2003	9	-	-
299	Bonneville Dam	26,741	26,741	5.375%	2054	2004	9	-	-
300	Bonneville Dam	19,725	19,725	5.125%	2055	2005	9	-	-
301	Bonneville Dam	2,628	2,628	4.500%	2056	2006	9	-	-
302	Bonneville Dam	1,124	1,124	5.000%	2057	2007	9	-	-
303	Bonneville Dam	14,609	14,609	4.875%	2058	2008	9	-	-
304	Bonneville Dam	2,744	2,744	4.375%	2059	2009	9	-	-
305	Chief Joseph	29,164	-	6.910%	2005	1955	9	-	-
306	Chief Joseph	13,643	-	6.950%	2006	1956	9	-	-
307	Chief Joseph	39,586	-	6.980%	2007	1957	9	-	-
308	Chief Joseph	31,901	-	7.020%	2008	1958	9	-	-
309	Chief Joseph	223	-	7.020%	2008	1959	9	-	-
310	Chief Joseph	223	-	7.020%	2008	1960	9	-	-
311	Chief Joseph	223	-	7.020%	2008	1961	9	-	-
312	Chief Joseph	223	-	7.020%	2008	1962	9	-	-
313	Chief Joseph	224	-	7.020%	2008	1963	9	-	-
314	Chief Joseph	223	-	7.020%	2008	1964	9	-	-
315	Chief Joseph	223	-	7.020%	2008	1965	9	-	-
316	Chief Joseph	223	-	7.020%	2008	1966	9	-	-
317	Chief Joseph	223	-	7.020%	2008	1967	9	-	-
318	Chief Joseph	224	-	7.020%	2008	1968	9	-	-
319	Chief Joseph	223	-	7.020%	2008	1969	9	-	-
320	Chief Joseph	223	-	7.020%	2008	1970	9	-	-
321	Chief Joseph	223	-	7.020%	2008	1971	9	-	-
322	Chief Joseph	223	-	7.020%	2008	1972	9	-	-
323	Chief Joseph	224	-	7.020%	2008	1973	9	-	-
324	Chief Joseph	223	-	7.020%	2008	1974	9	-	-
325	Chief Joseph	223	-	7.020%	2008	1975	9	-	-
326	Chief Joseph	223	-	7.020%	2008	1976	9	-	-
327	Chief Joseph	223	-	7.020%	2008	1977	9	-	-
328	Chief Joseph	30,512	30,512	7.150%	2027	1977	9	-	-
329	Chief Joseph	224	-	7.020%	2008	1978	9	-	-
330	Chief Joseph	75,669	75,669	7.150%	2028	1978	9	-	-
331	Chief Joseph	223	-	7.020%	2008	1979	9	-	-
332	Chief Joseph	60,079	60,079	7.150%	2029	1979	9	-	-
333	Chief Joseph	223	-	7.020%	2008	1980	9	-	-
334	Chief Joseph	223	-	7.020%	2008	1981	9	-	-
335	Chief Joseph	223	-	7.020%	2008	1982	9	-	-
336	Chief Joseph	224	-	7.020%	2008	1983	9	-	-
337	Chief Joseph	909	-	10.750%	2008	1984	9	-	-
338	Chief Joseph	46	-	7.020%	2008	1985	9	-	-
339	Chief Joseph	16,372	16,372	7.150%	2029	1985	9	-	-
340	Chief Joseph	5,363	5,363	7.150%	2029	1986	9	-	-
341	Chief Joseph	104	-	8.875%	2008	1987	9	-	-
342	Chief Joseph	3,036	3,036	7.150%	2029	1987	9	-	-
343	Chief Joseph	2,722	2,722	7.150%	2029	1988	9	-	-
344	Chief Joseph	327	-	9.250%	2008	1989	9	-	-
345	Chief Joseph	2,227	2,227	7.150%	2029	1989	9	-	-

TABLE 11A: HISTORICAL INVESTMENTS
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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
346	Chief Joseph	1,024	-	8.875%	2008	1990	9	-	-
347	Chief Joseph	4,505	4,505	7.150%	2029	1990	9	-	-
348	Chief Joseph	34	-	8.750%	2008	1991	9	-	-
349	Chief Joseph	293	-	8.750%	2008	1991	9	-	-
350	Chief Joseph	3,840	-	8.750%	2029	1991	9	-	-
351	Chief Joseph	142	-	8.500%	2008	1992	9	-	-
352	Chief Joseph	717	-	8.500%	2008	1992	9	-	-
353	Chief Joseph	2,032	-	8.500%	2029	1992	9	-	-
354	Chief Joseph	42	-	7.875%	2008	1993	9	-	-
355	Chief Joseph	794	-	7.875%	2008	1993	9	-	-
356	Chief Joseph	1,360	-	7.875%	2029	1993	9	-	-
357	Chief Joseph	129	-	7.125%	2029	1994	9	-	-
358	Chief Joseph	65	-	7.125%	2029	1994	9	-	-
359	Chief Joseph	4,280	4,017	7.150%	2044	1994	9	-	-
360	Chief Joseph	15	-	7.090%	2010	1995	9	-	-
361	Chief Joseph	147	147	7.150%	2045	1995	9	-	-
362	Chief Joseph	562	562	7.150%	2045	1995	9	-	-
363	Chief Joseph	712	712	7.150%	2045	1995	9	-	-
364	Chief Joseph	784	784	7.150%	2045	1995	9	-	-
365	Chief Joseph	27	27	7.150%	2031	1996	9	-	-
366	Chief Joseph	3	3	7.150%	2046	1996	9	-	-
367	Chief Joseph	4	4	7.150%	2046	1996	9	-	-
368	Chief Joseph	355	355	7.150%	2046	1996	9	-	-
369	Chief Joseph	729	729	7.150%	2046	1996	9	-	-
370	Chief Joseph	166	166	7.150%	2032	1997	9	-	-
371	Chief Joseph	657	657	7.150%	2047	1997	9	-	-
372	Chief Joseph	345	345	5.875%	2051	2001	9	-	-
373	Chief Joseph	2	2	5.500%	2052	2002	9	-	-
374	Chief Joseph	992	992	5.125%	2053	2003	9	-	-
375	Chief Joseph	3,500	3,500	4.875%	2058	2008	9	-	-
376	Chief Joseph	24,727	24,727	4.375%	2059	2009	9	-	-
377	Columbia Basin	10,919	-	3.000%	1991	1941	9	-	-
378	Columbia Basin	1,505	-	3.000%	1991	1941	9	-	-
379	Columbia Basin	16,165	-	3.000%	1992	1942	9	-	-
380	Columbia Basin	3,011	-	3.000%	1992	1942	9	-	-
381	Columbia Basin	8,083	-	3.000%	1993	1943	9	-	-
382	Columbia Basin	1,505	-	3.000%	1993	1943	9	-	-
383	Columbia Basin	16,165	-	3.000%	1994	1944	9	-	-
384	Columbia Basin	3,011	-	3.000%	1994	1944	9	-	-
385	Columbia Basin	24,247	-	3.000%	1998	1948	9	-	-
386	Columbia Basin	4,516	-	3.000%	1998	1948	9	-	-
387	Columbia Basin	24,247	-	3.000%	1999	1949	9	-	-
388	Columbia Basin	4,516	-	3.000%	1999	1949	9	-	-
389	Columbia Basin	16,165	-	3.000%	2000	1950	9	-	-
390	Columbia Basin	3,011	-	3.000%	2000	1950	9	-	-
391	Columbia Basin	28,255	-	6.710%	2001	1951	9	-	-
392	Columbia Basin	5,790	-	6.710%	2001	1951	9	-	-
393	Columbia Basin	258	-	6.710%	2001	1952	9	-	-
394	Columbia Basin	48	-	6.710%	2001	1952	9	-	-
395	Columbia Basin	258	-	6.710%	2001	1953	9	-	-
396	Columbia Basin	48	-	6.710%	2001	1953	9	-	-
397	Columbia Basin	258	-	6.710%	2001	1954	9	-	-
398	Columbia Basin	48	-	6.710%	2001	1954	9	-	-
399	Columbia Basin	258	-	6.710%	2001	1955	9	-	-
400	Columbia Basin	48	-	6.710%	2001	1955	9	-	-
401	Columbia Basin	259	-	6.710%	2001	1956	9	-	-
402	Columbia Basin	48	-	6.710%	2001	1956	9	-	-
403	Columbia Basin	258	-	6.710%	2001	1957	9	-	-
404	Columbia Basin	48	-	6.710%	2001	1957	9	-	-
405	Columbia Basin	258	-	6.710%	2001	1958	9	-	-
406	Columbia Basin	48	-	6.710%	2001	1958	9	-	-
407	Columbia Basin	258	-	6.710%	2001	1959	9	-	-
408	Columbia Basin	48	-	6.710%	2001	1959	9	-	-
409	Columbia Basin	258	-	6.710%	2001	1960	9	-	-
410	Columbia Basin	48	-	6.710%	2001	1960	9	-	-
411	Columbia Basin	259	-	6.710%	2001	1961	9	-	-
412	Columbia Basin	48	-	6.710%	2001	1961	9	-	-
413	Columbia Basin	258	-	6.710%	2001	1962	9	-	-
414	Columbia Basin	48	-	6.710%	2001	1962	9	-	-

TABLE 11A: HISTORICAL INVESTMENTS
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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
415	Columbia Basin	258	-	6.710%	2001	1963	9	-	-
416	Columbia Basin	48	-	6.710%	2001	1963	9	-	-
417	Columbia Basin	258	-	6.710%	2001	1964	9	-	-
418	Columbia Basin	48	-	6.710%	2001	1964	9	-	-
419	Columbia Basin	258	-	6.710%	2001	1965	9	-	-
420	Columbia Basin	48	-	6.710%	2001	1965	9	-	-
421	Columbia Basin	259	-	6.710%	2001	1966	9	-	-
422	Columbia Basin	48	-	6.710%	2001	1966	9	-	-
423	Columbia Basin	258	-	6.710%	2001	1967	9	-	-
424	Columbia Basin	48	-	6.710%	2001	1967	9	-	-
425	Columbia Basin	758	-	7.290%	2017	1967	9	-	-
426	Columbia Basin	258	-	6.710%	2001	1968	9	-	-
427	Columbia Basin	48	-	6.710%	2001	1968	9	-	-
428	Columbia Basin	258	-	6.710%	2001	1969	9	-	-
429	Columbia Basin	48	-	6.710%	2001	1969	9	-	-
430	Columbia Basin	258	-	6.710%	2001	1970	9	-	-
431	Columbia Basin	48	-	6.710%	2001	1970	9	-	-
432	Columbia Basin	259	-	6.710%	2001	1971	9	-	-
433	Columbia Basin	48	-	6.710%	2001	1971	9	-	-
434	Columbia Basin	258	-	6.710%	2001	1972	9	-	-
435	Columbia Basin	48	-	6.710%	2001	1972	9	-	-
436	Columbia Basin	258	-	6.710%	2001	1973	9	-	-
437	Columbia Basin	48	-	6.710%	2001	1973	9	-	-
438	Columbia Basin	258	-	6.710%	2001	1974	9	-	-
439	Columbia Basin	48	-	6.710%	2001	1974	9	-	-
440	Columbia Basin	258	-	6.710%	2001	1975	9	-	-
441	Columbia Basin	48	-	6.710%	2001	1975	9	-	-
442	Columbia Basin	259	-	6.710%	2001	1976	9	-	-
443	Columbia Basin	48	-	6.710%	2001	1976	9	-	-
444	Columbia Basin	258	-	6.710%	2001	1977	9	-	-
445	Columbia Basin	48	-	6.710%	2001	1977	9	-	-
446	Columbia Basin	258	-	6.710%	2001	1978	9	-	-
447	Columbia Basin	48	-	6.710%	2001	1978	9	-	-
448	Columbia Basin	258	-	6.710%	2001	1979	9	-	-
449	Columbia Basin	48	-	6.710%	2001	1979	9	-	-
450	Columbia Basin	258	-	6.710%	2001	1980	9	-	-
451	Columbia Basin	48	-	6.710%	2001	1980	9	-	-
452	Columbia Basin	259	-	6.710%	2001	1981	9	-	-
453	Columbia Basin	48	-	6.710%	2001	1981	9	-	-
454	Columbia Basin	258	-	6.710%	2001	1982	9	-	-
455	Columbia Basin	48	-	6.710%	2001	1982	9	-	-
456	Columbia Basin	258	-	6.710%	2001	1983	9	-	-
457	Columbia Basin	48	-	6.710%	2001	1983	9	-	-
458	Columbia Basin	7,815	-	10.750%	2001	1984	9	-	-
459	Columbia Basin	1,455	-	10.750%	2001	1984	9	-	-
460	Columbia Basin	236	-	6.710%	2001	1985	9	-	-
461	Columbia Basin	11	-	6.710%	2001	1985	9	-	-
462	Columbia Basin	7,338	-	12.375%	2001	1985	9	-	-
463	Columbia Basin	362	-	12.375%	2001	1985	9	-	-
464	Columbia Basin	127	-	6.710%	2001	1986	9	-	-
465	Columbia Basin	13	-	6.710%	2001	1987	9	-	-
466	Columbia Basin	184	-	8.500%	2001	1988	9	-	-
467	Columbia Basin	2	-	8.500%	2001	1988	9	-	-
468	Columbia Basin	1,166	-	9.250%	2001	1989	9	-	-
469	Columbia Basin	928	-	8.875%	2001	1990	9	-	-
470	Columbia Basin	177	-	8.750%	2001	1991	9	-	-
471	Columbia Basin	1,661	-	8.750%	2001	1991	9	-	-
472	Columbia Basin	445	-	8.500%	2001	1992	9	-	-
473	Columbia Basin	652	-	8.500%	2001	1992	9	-	-
474	Columbia Basin	792	-	6.710%	2001	1993	9	-	-
475	Columbia Basin	25	-	6.620%	2000	1995	9	-	-
476	Columbia Basin	206	-	7.250%	2020	1995	9	-	-
477	Columbia Basin	25	-	7.150%	2030	1995	9	-	-
478	Columbia Basin	20	-	7.860%	2030	1995	9	-	-
479	Columbia Basin	270	-	7.860%	2030	1995	9	-	-
480	Columbia Basin	321	-	7.860%	2030	1995	9	-	-
481	Columbia Basin	323	-	7.860%	2030	1995	9	-	-
482	Columbia Basin	287	287	7.150%	2045	1995	9	-	-
483	Columbia Basin	2,511	2,453	7.150%	2045	1995	9	-	-

TABLE 11A: HISTORICAL INVESTMENTS
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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
484	Columbia Basin	450	-	7.860%	2045	1995	9	-	-
485	Columbia Basin	450	-	7.860%	2045	1995	9	-	-
486	Columbia Basin	72	72	7.150%	2026	1996	9	-	-
487	Columbia Basin	109	109	7.150%	2031	1996	9	-	-
488	Columbia Basin	251	251	7.150%	2031	1996	9	-	-
489	Columbia Basin	426	426	7.150%	2046	1996	9	-	-
490	Columbia Basin	368	368	7.150%	2046	1996	9	-	-
491	Columbia Basin	3,393	3,393	7.150%	2047	1997	9	-	-
492	Columbia Basin	69,226	69,226	5.875%	2051	2001	9	-	-
493	Columbia Basin	10,963	10,963	5.125%	2055	2005	9	-	-
494	Columbia Basin	1,987	1,987	4.500%	2056	2006	9	-	-
495	Columbia Basin	929	929	5.000%	2057	2007	9	-	-
496	Columbia Basin	835	835	4.875%	2058	2008	9	-	-
497	Columbia Basin	1,338	1,338	4.375%	2059	2009	9	-	-
498	Columbia Basin	773	773	4.250%	2060	2010	9	-	-
499	Columbia Basin 3rd Powerhouse	47,328	36,690	7.160%	2025	1975	9	-	-
500	Columbia Basin 3rd Powerhouse	8,702	7,435	7.160%	2025	1975	9	-	-
501	Columbia Basin 3rd Powerhouse	41,330	41,330	7.150%	2026	1976	9	-	-
502	Columbia Basin 3rd Powerhouse	8,037	8,037	7.150%	2026	1976	9	-	-
503	Columbia Basin 3rd Powerhouse	42,764	42,764	7.150%	2027	1977	9	-	-
504	Columbia Basin 3rd Powerhouse	7,964	7,964	7.150%	2027	1977	9	-	-
505	Columbia Basin 3rd Powerhouse	42,399	42,399	7.150%	2028	1978	9	-	-
506	Columbia Basin 3rd Powerhouse	7,896	7,896	7.150%	2028	1978	9	-	-
507	Columbia Basin 3rd Powerhouse	84,118	84,118	7.150%	2029	1979	9	-	-
508	Columbia Basin 3rd Powerhouse	15,666	15,666	7.150%	2029	1979	9	-	-
509	Columbia Basin 3rd Powerhouse	712	712	7.150%	2033	1983	9	-	-
510	Columbia Basin 3rd Powerhouse	13,003	13,003	7.150%	2033	1983	9	-	-
511	Columbia Basin 3rd Powerhouse	16,965	16,965	7.150%	2033	1984	9	-	-
512	Columbia Basin 3rd Powerhouse	13,192	13,192	7.150%	2033	1984	9	-	-
513	Columbia Basin 3rd Powerhouse	3,160	3,160	7.150%	2033	1984	9	-	-
514	Columbia Basin 3rd Powerhouse	2,060	2,060	7.150%	2033	1985	9	-	-
515	Columbia Basin 3rd Powerhouse	41,772	41,772	7.150%	2033	1985	9	-	-
516	Columbia Basin 3rd Powerhouse	107	107	7.150%	2033	1985	9	-	-
517	Columbia Basin 3rd Powerhouse	1,851	1,851	7.150%	2033	1986	9	-	-
518	Columbia Basin 3rd Powerhouse	15,538	15,538	7.150%	2033	1986	9	-	-
519	Columbia Basin 3rd Powerhouse	1,730	1,730	7.150%	2033	1987	9	-	-
520	Columbia Basin 3rd Powerhouse	14,439	14,439	7.150%	2033	1987	9	-	-
521	Columbia Basin 3rd Powerhouse	2,294	2,294	7.150%	2033	1988	9	-	-
522	Columbia Basin 3rd Powerhouse	4,351	4,351	7.150%	2033	1988	9	-	-
523	Columbia Basin 3rd Powerhouse	10,902	10,902	7.150%	2033	1989	9	-	-
524	Columbia Basin 3rd Powerhouse	6,383	6,383	7.150%	2033	1990	9	-	-
525	Columbia Basin 3rd Powerhouse	12,631	12,631	7.150%	2044	1994	9	-	-
526	Columbia River Fish Mitigation	3,969	-	8.500%	2041	1991	9	-	-
527	Columbia River Fish Mitigation	874	-	8.500%	2042	1992	9	-	-
528	Columbia River Fish Mitigation	85,846	-	8.500%	2043	1993	9	-	-
529	Columbia River Fish Mitigation	39,454	-	8.500%	2044	1994	9	-	-
530	Columbia River Fish Mitigation	43,343	39,282	7.150%	2045	1995	9	-	-
531	Columbia River Fish Mitigation	2,431	2,431	7.150%	2046	1996	9	-	-
532	Columbia River Fish Mitigation	14,115	14,115	5.375%	2049	1999	9	-	-
533	Columbia River Fish Mitigation	47,006	47,006	6.125%	2050	2000	9	-	-
534	Columbia River Fish Mitigation	6,168	6,168	5.875%	2051	2001	9	-	-
535	Columbia River Fish Mitigation	8,797	8,797	5.500%	2052	2002	9	-	-
536	Columbia River Fish Mitigation	68,440	68,440	5.125%	2053	2003	9	-	-
537	Columbia River Fish Mitigation	60,581	60,581	5.375%	2054	2004	9	-	-
538	Columbia River Fish Mitigation	52,039	52,039	5.125%	2055	2005	9	-	-
539	Columbia River Fish Mitigation	366,395	366,395	4.500%	2056	2006	9	-	-
540	Columbia River Fish Mitigation	53,525	53,525	5.000%	2057	2007	9	-	-
541	Columbia River Fish Mitigation	36,554	36,554	4.875%	2058	2008	9	-	-
542	Columbia River Fish Mitigation	103,203	103,203	4.375%	2059	2009	9	-	-
543	Columbia River Fish Mitigation	56,586	56,586	4.250%	2060	2010	9	-	-
544	Cougar	10,414	-	7.230%	2014	1964	9	-	-
545	Cougar	20	-	7.230%	2014	1965	9	-	-
546	Cougar	20	-	7.230%	2014	1966	9	-	-
547	Cougar	20	-	7.230%	2014	1967	9	-	-
548	Cougar	20	-	7.230%	2014	1968	9	-	-
549	Cougar	20	-	7.230%	2014	1969	9	-	-
550	Cougar	20	-	7.230%	2014	1970	9	-	-
551	Cougar	20	-	7.230%	2014	1971	9	-	-
552	Cougar	20	-	7.230%	2014	1972	9	-	-

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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
553	Cougar	20	-	7.230%	2014	1973	9	-	-
554	Cougar	19	-	7.230%	2014	1974	9	-	-
555	Cougar	20	-	7.230%	2014	1975	9	-	-
556	Cougar	20	-	7.230%	2014	1976	9	-	-
557	Cougar	20	-	7.230%	2014	1977	9	-	-
558	Cougar	20	-	7.230%	2014	1978	9	-	-
559	Cougar	20	-	7.230%	2014	1979	9	-	-
560	Cougar	20	-	7.230%	2014	1980	9	-	-
561	Cougar	20	-	7.230%	2014	1981	9	-	-
562	Cougar	20	-	7.230%	2014	1982	9	-	-
563	Cougar	20	-	7.230%	2014	1983	9	-	-
564	Cougar	1	-	10.750%	2014	1984	9	-	-
565	Cougar	1	-	7.230%	2014	1985	9	-	-
566	Cougar	104	-	7.230%	2014	1986	9	-	-
567	Cougar	55	-	11.375%	2014	1986	9	-	-
568	Cougar	45	-	7.230%	2014	1987	9	-	-
569	Cougar	2	-	8.500%	2014	1988	9	-	-
570	Cougar	6	-	9.250%	2014	1989	9	-	-
571	Cougar	10	-	8.875%	2014	1990	9	-	-
572	Cougar	1,015	-	8.750%	2014	1991	9	-	-
573	Cougar	1	-	8.750%	2014	1991	9	-	-
574	Cougar	2	-	8.500%	2014	1992	9	-	-
575	Cougar	539	-	7.875%	2014	1993	9	-	-
576	Cougar	31	-	7.125%	2019	1994	9	-	-
577	Cougar	3	-	7.330%	2000	1995	9	-	-
578	Cougar	26	26	7.150%	2047	1997	9	-	-
579	Cougar	15,748	15,748	5.375%	2054	2004	9	-	-
580	Cougar	35,317	35,317	5.125%	2055	2005	9	-	-
581	Cougar	474	474	4.500%	2056	2006	9	-	-
582	Cougar	521	521	5.000%	2057	2007	9	-	-
583	Cougar	121	121	4.375%	2059	2009	9	-	-
584	Cougar	256	256	4.250%	2060	2010	9	-	-
585	Detroit Lake/Big Cliff	12,533	-	6.840%	2003	1953	9	-	-
586	Detroit Lake/Big Cliff	20,162	-	6.880%	2004	1954	9	-	-
587	Detroit Lake/Big Cliff	18	-	6.880%	2004	1955	9	-	-
588	Detroit Lake/Big Cliff	19	-	6.880%	2004	1956	9	-	-
589	Detroit Lake/Big Cliff	18	-	6.880%	2004	1957	9	-	-
590	Detroit Lake/Big Cliff	19	-	6.880%	2004	1958	9	-	-
591	Detroit Lake/Big Cliff	18	-	6.880%	2004	1959	9	-	-
592	Detroit Lake/Big Cliff	19	-	6.880%	2004	1960	9	-	-
593	Detroit Lake/Big Cliff	18	-	6.880%	2004	1961	9	-	-
594	Detroit Lake/Big Cliff	19	-	6.880%	2004	1962	9	-	-
595	Detroit Lake/Big Cliff	18	-	6.880%	2004	1963	9	-	-
596	Detroit Lake/Big Cliff	19	-	6.880%	2004	1964	9	-	-
597	Detroit Lake/Big Cliff	18	-	6.880%	2004	1965	9	-	-
598	Detroit Lake/Big Cliff	19	-	6.880%	2004	1966	9	-	-
599	Detroit Lake/Big Cliff	18	-	6.880%	2004	1967	9	-	-
600	Detroit Lake/Big Cliff	19	-	6.880%	2004	1968	9	-	-
601	Detroit Lake/Big Cliff	18	-	6.880%	2004	1969	9	-	-
602	Detroit Lake/Big Cliff	19	-	6.880%	2004	1970	9	-	-
603	Detroit Lake/Big Cliff	18	-	6.880%	2004	1971	9	-	-
604	Detroit Lake/Big Cliff	19	-	6.880%	2004	1972	9	-	-
605	Detroit Lake/Big Cliff	18	-	6.880%	2004	1973	9	-	-
606	Detroit Lake/Big Cliff	19	-	6.880%	2004	1974	9	-	-
607	Detroit Lake/Big Cliff	18	-	6.880%	2004	1975	9	-	-
608	Detroit Lake/Big Cliff	19	-	6.880%	2004	1976	9	-	-
609	Detroit Lake/Big Cliff	18	-	6.880%	2004	1977	9	-	-
610	Detroit Lake/Big Cliff	19	-	6.880%	2004	1978	9	-	-
611	Detroit Lake/Big Cliff	18	-	6.880%	2004	1979	9	-	-
612	Detroit Lake/Big Cliff	19	-	6.880%	2004	1980	9	-	-
613	Detroit Lake/Big Cliff	18	-	6.880%	2004	1981	9	-	-
614	Detroit Lake/Big Cliff	19	-	6.880%	2004	1982	9	-	-
615	Detroit Lake/Big Cliff	18	-	6.880%	2004	1983	9	-	-
616	Detroit Lake/Big Cliff	21	-	10.750%	2004	1984	9	-	-
617	Detroit Lake/Big Cliff	6	-	6.880%	2004	1985	9	-	-
618	Detroit Lake/Big Cliff	38	-	11.375%	2004	1986	9	-	-
619	Detroit Lake/Big Cliff	3	-	6.880%	2004	1987	9	-	-
620	Detroit Lake/Big Cliff	233	-	8.875%	2004	1987	9	-	-
621	Detroit Lake/Big Cliff	68	-	8.500%	2004	1988	9	-	-

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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
622	Detroit Lake/Big Cliff	26	-	9.250%	2004	1989	9	-	-
623	Detroit Lake/Big Cliff	115	-	8.875%	2004	1990	9	-	-
624	Detroit Lake/Big Cliff	9	-	8.750%	2004	1991	9	-	-
625	Detroit Lake/Big Cliff	20	-	8.750%	2004	1991	9	-	-
626	Detroit Lake/Big Cliff	8	-	8.500%	2004	1992	9	-	-
627	Detroit Lake/Big Cliff	211	-	7.875%	2004	1993	9	-	-
628	Detroit Lake/Big Cliff	7	-	7.125%	1999	1994	9	-	-
629	Detroit Lake/Big Cliff	13	-	7.330%	2000	1995	9	-	-
630	Detroit Lake/Big Cliff	38	38	7.150%	2045	1995	9	-	-
631	Detroit Lake/Big Cliff	24	-	6.950%	2006	1996	9	-	-
632	Detroit Lake/Big Cliff	282	282	5.875%	2051	2001	9	-	-
633	Detroit Lake/Big Cliff	18	18	5.500%	2052	2002	9	-	-
634	Detroit Lake/Big Cliff	223	223	5.125%	2053	2003	9	-	-
635	Detroit Lake/Big Cliff	1,031	1,031	5.125%	2055	2005	9	-	-
636	Dworshak	138,443	106,138	7.190%	2023	1973	9	-	-
637	Dworshak	836	803	7.190%	2023	1973	9	-	-
638	Dworshak	515	515	7.190%	2023	1974	9	-	-
639	Dworshak	3	-	7.190%	2023	1974	9	-	-
640	Dworshak	518	518	7.190%	2023	1975	9	-	-
641	Dworshak	3	3	7.190%	2023	1975	9	-	-
642	Dworshak	518	518	7.190%	2023	1976	9	-	-
643	Dworshak	3	3	7.190%	2023	1976	9	-	-
644	Dworshak	518	518	7.190%	2023	1977	9	-	-
645	Dworshak	3	3	7.190%	2023	1977	9	-	-
646	Dworshak	518	518	7.190%	2023	1978	9	-	-
647	Dworshak	3	3	7.190%	2023	1978	9	-	-
648	Dworshak	518	518	7.190%	2023	1979	9	-	-
649	Dworshak	3	3	7.190%	2023	1979	9	-	-
650	Dworshak	518	518	7.190%	2023	1980	9	-	-
651	Dworshak	3	3	7.190%	2023	1980	9	-	-
652	Dworshak	518	518	7.190%	2023	1981	9	-	-
653	Dworshak	3	3	7.190%	2023	1981	9	-	-
654	Dworshak	518	518	7.190%	2023	1982	9	-	-
655	Dworshak	3	3	7.190%	2023	1982	9	-	-
656	Dworshak	523	523	7.190%	2023	1983	9	-	-
657	Dworshak	3	3	7.190%	2023	1983	9	-	-
658	Dworshak	2,499	-	10.750%	2023	1984	9	-	-
659	Dworshak	15	-	10.750%	2023	1984	9	-	-
660	Dworshak	1,141	1,141	7.190%	2023	1985	9	-	-
661	Dworshak	197	197	7.190%	2023	1986	9	-	-
662	Dworshak	36	5	7.190%	2023	1987	9	-	-
663	Dworshak	65	-	8.875%	2023	1987	9	-	-
664	Dworshak	61	-	8.500%	2023	1988	9	-	-
665	Dworshak	63	-	9.250%	2023	1989	9	-	-
666	Dworshak	245	-	8.875%	2023	1990	9	-	-
667	Dworshak	24	-	8.875%	2023	1990	9	-	-
668	Dworshak	224	-	8.750%	2023	1991	9	-	-
669	Dworshak	4	-	2.625%	2023	1992	9	-	-
670	Dworshak	28	-	8.500%	2023	1992	9	-	-
671	Dworshak	24	-	8.500%	2023	1992	9	-	-
672	Dworshak	41	-	7.875%	2023	1993	9	-	-
673	Dworshak	1,872	-	7.875%	2023	1993	9	-	-
674	Dworshak	1,351	-	7.125%	2029	1994	9	-	-
675	Dworshak	964	-	7.125%	2029	1994	9	-	-
676	Dworshak	55	-	7.930%	2020	1995	9	-	-
677	Dworshak	218	218	7.150%	2030	1995	9	-	-
678	Dworshak	1,162	1,162	7.150%	2045	1995	9	-	-
679	Dworshak	107	-	7.130%	2011	1996	9	-	-
680	Dworshak	26	-	7.230%	2021	1996	9	-	-
681	Dworshak	184	-	7.230%	2021	1996	9	-	-
682	Dworshak	6	6	7.150%	2031	1996	9	-	-
683	Dworshak	203	203	7.150%	2031	1996	9	-	-
684	Dworshak	3	3	7.150%	2046	1996	9	-	-
685	Dworshak	4	4	7.150%	2046	1996	9	-	-
686	Dworshak	46	46	7.150%	2046	1996	9	-	-
687	Dworshak	7,588	7,588	7.150%	2047	1997	9	-	-
688	Dworshak	630	630	5.375%	2049	1999	9	-	-
689	Dworshak	199	199	5.500%	2052	2002	9	-	-
690	Dworshak	761	761	5.125%	2053	2003	9	-	-

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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
691	Dworshak	713	713	5.125%	2055	2005	9	-	-
692	Dworshak	73	73	4.500%	2056	2006	9	-	-
693	Dworshak	10	10	4.875%	2058	2008	9	-	-
694	Dworshak	2,496	2,496	4.375%	2059	2009	9	-	-
695	Green Peter/Foster	24,445	-	7.290%	2017	1967	9	-	-
696	Green Peter/Foster	12,180	-	7.280%	2018	1968	9	-	-
697	Green Peter/Foster	39	-	7.280%	2018	1969	9	-	-
698	Green Peter/Foster	40	-	7.280%	2018	1970	9	-	-
699	Green Peter/Foster	39	-	7.280%	2018	1971	9	-	-
700	Green Peter/Foster	39	-	7.280%	2018	1972	9	-	-
701	Green Peter/Foster	39	-	7.280%	2018	1973	9	-	-
702	Green Peter/Foster	39	-	7.280%	2018	1974	9	-	-
703	Green Peter/Foster	39	-	7.280%	2018	1975	9	-	-
704	Green Peter/Foster	39	-	7.280%	2018	1976	9	-	-
705	Green Peter/Foster	39	-	7.280%	2018	1977	9	-	-
706	Green Peter/Foster	39	-	7.280%	2018	1978	9	-	-
707	Green Peter/Foster	39	-	7.280%	2018	1979	9	-	-
708	Green Peter/Foster	40	-	7.280%	2018	1980	9	-	-
709	Green Peter/Foster	39	-	7.280%	2018	1981	9	-	-
710	Green Peter/Foster	39	-	7.280%	2018	1982	9	-	-
711	Green Peter/Foster	39	-	7.280%	2018	1983	9	-	-
712	Green Peter/Foster	15	-	10.750%	2018	1984	9	-	-
713	Green Peter/Foster	16	-	7.280%	2018	1985	9	-	-
714	Green Peter/Foster	3	-	7.280%	2018	1986	9	-	-
715	Green Peter/Foster	3	-	11.375%	2018	1986	9	-	-
716	Green Peter/Foster	1	-	7.280%	2018	1987	9	-	-
717	Green Peter/Foster	2	-	8.875%	2018	1987	9	-	-
718	Green Peter/Foster	13	-	8.500%	2018	1988	9	-	-
719	Green Peter/Foster	24	-	9.250%	2018	1989	9	-	-
720	Green Peter/Foster	5	-	8.875%	2018	1990	9	-	-
721	Green Peter/Foster	48	-	8.750%	2018	1991	9	-	-
722	Green Peter/Foster	2	-	8.500%	2018	1992	9	-	-
723	Green Peter/Foster	41	-	7.875%	2018	1993	9	-	-
724	Green Peter/Foster	6	-	7.125%	1999	1994	9	-	-
725	Green Peter/Foster	4	-	7.330%	2000	1995	9	-	-
726	Green Peter/Foster	11	-	7.250%	2020	1995	9	-	-
727	Green Peter/Foster	24	-	7.250%	2020	1995	9	-	-
728	Green Peter/Foster	26	26	7.150%	2046	1996	9	-	-
729	Green Peter/Foster	200	200	5.875%	2051	2001	9	-	-
730	Green Peter/Foster	1	1	4.250%	2060	2010	9	-	-
731	Hills Creek	10,353	5,159	7.160%	2012	1962	9	-	-
732	Hills Creek	12	-	7.160%	2012	1963	9	-	-
733	Hills Creek	13	-	7.160%	2012	1964	9	-	-
734	Hills Creek	13	-	7.160%	2012	1965	9	-	-
735	Hills Creek	13	-	7.160%	2012	1966	9	-	-
736	Hills Creek	13	-	7.160%	2012	1967	9	-	-
737	Hills Creek	13	-	7.160%	2012	1968	9	-	-
738	Hills Creek	13	-	7.160%	2012	1969	9	-	-
739	Hills Creek	13	-	7.160%	2012	1970	9	-	-
740	Hills Creek	13	-	7.160%	2012	1971	9	-	-
741	Hills Creek	13	-	7.160%	2012	1972	9	-	-
742	Hills Creek	13	-	7.160%	2012	1973	9	-	-
743	Hills Creek	13	13	7.160%	2012	1974	9	-	-
744	Hills Creek	13	-	7.160%	2012	1975	9	-	-
745	Hills Creek	13	-	7.160%	2012	1976	9	-	-
746	Hills Creek	13	13	7.160%	2012	1977	9	-	-
747	Hills Creek	13	13	7.160%	2012	1978	9	-	-
748	Hills Creek	13	13	7.160%	2012	1979	9	-	-
749	Hills Creek	13	13	7.160%	2012	1980	9	-	-
750	Hills Creek	13	13	7.160%	2012	1981	9	-	-
751	Hills Creek	13	13	7.160%	2012	1982	9	-	-
752	Hills Creek	13	13	7.160%	2012	1983	9	-	-
753	Hills Creek	52	-	10.750%	2012	1984	9	-	-
754	Hills Creek	6	-	7.160%	2012	1985	9	-	-
755	Hills Creek	3	-	8.875%	2012	1987	9	-	-
756	Hills Creek	3	-	8.500%	2012	1988	9	-	-
757	Hills Creek	3	-	8.875%	2012	1990	9	-	-
758	Hills Creek	17	-	8.750%	2012	1991	9	-	-
759	Hills Creek	1	-	8.500%	2012	1992	9	-	-

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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
760	Hills Creek	13	-	7.875%	2012	1993	9	-	-
761	Hills Creek	28	28	7.150%	2046	1996	9	-	-
762	Hills Creek	2,630	2,630	6.125%	2050	2000	9	-	-
763	Hills Creek	8	8	5.875%	2051	2001	9	-	-
764	Hills Creek	2	2	5.500%	2052	2002	9	-	-
765	Hills Creek	46	46	5.125%	2055	2005	9	-	-
766	Hungry Horse Dam	75,076	-	6.840%	2003	1953	9	-	-
767	Hungry Horse Dam	2,126	-	6.840%	2003	1953	9	-	-
768	Hungry Horse Dam	17	-	6.840%	2003	1954	9	-	-
769	Hungry Horse Dam	1	-	6.840%	2003	1954	9	-	-
770	Hungry Horse Dam	17	-	6.840%	2003	1955	9	-	-
771	Hungry Horse Dam	1	-	6.840%	2003	1955	9	-	-
772	Hungry Horse Dam	17	-	6.840%	2003	1956	9	-	-
773	Hungry Horse Dam	1	-	6.840%	2003	1956	9	-	-
774	Hungry Horse Dam	18	-	6.840%	2003	1957	9	-	-
775	Hungry Horse Dam	1	-	6.840%	2003	1957	9	-	-
776	Hungry Horse Dam	18	-	6.840%	2003	1958	9	-	-
777	Hungry Horse Dam	1	-	6.840%	2003	1958	9	-	-
778	Hungry Horse Dam	18	-	6.840%	2003	1959	9	-	-
779	Hungry Horse Dam	1	-	6.840%	2003	1959	9	-	-
780	Hungry Horse Dam	18	-	6.840%	2003	1960	9	-	-
781	Hungry Horse Dam	1	-	6.840%	2003	1960	9	-	-
782	Hungry Horse Dam	18	-	6.840%	2003	1961	9	-	-
783	Hungry Horse Dam	1	-	6.840%	2003	1961	9	-	-
784	Hungry Horse Dam	18	-	6.840%	2003	1962	9	-	-
785	Hungry Horse Dam	1	-	6.840%	2003	1962	9	-	-
786	Hungry Horse Dam	18	-	6.840%	2003	1963	9	-	-
787	Hungry Horse Dam	1	-	6.840%	2003	1963	9	-	-
788	Hungry Horse Dam	17	-	6.840%	2003	1964	9	-	-
789	Hungry Horse Dam	1	-	6.840%	2003	1964	9	-	-
790	Hungry Horse Dam	17	-	6.840%	2003	1965	9	-	-
791	Hungry Horse Dam	1	-	6.840%	2003	1965	9	-	-
792	Hungry Horse Dam	17	-	6.840%	2003	1966	9	-	-
793	Hungry Horse Dam	1	-	6.840%	2003	1966	9	-	-
794	Hungry Horse Dam	18	-	6.840%	2003	1967	9	-	-
795	Hungry Horse Dam	1	-	6.840%	2003	1967	9	-	-
796	Hungry Horse Dam	18	-	6.840%	2003	1968	9	-	-
797	Hungry Horse Dam	1	-	6.840%	2003	1968	9	-	-
798	Hungry Horse Dam	18	-	6.840%	2003	1969	9	-	-
799	Hungry Horse Dam	1	-	6.840%	2003	1969	9	-	-
800	Hungry Horse Dam	18	-	6.840%	2003	1970	9	-	-
801	Hungry Horse Dam	1	-	6.840%	2003	1970	9	-	-
802	Hungry Horse Dam	18	-	6.840%	2003	1971	9	-	-
803	Hungry Horse Dam	1	-	6.840%	2003	1971	9	-	-
804	Hungry Horse Dam	18	-	6.840%	2003	1972	9	-	-
805	Hungry Horse Dam	1	-	6.840%	2003	1972	9	-	-
806	Hungry Horse Dam	18	-	6.840%	2003	1973	9	-	-
807	Hungry Horse Dam	1	-	6.840%	2003	1973	9	-	-
808	Hungry Horse Dam	17	-	6.840%	2003	1974	9	-	-
809	Hungry Horse Dam	1	-	6.840%	2003	1974	9	-	-
810	Hungry Horse Dam	17	-	6.840%	2003	1975	9	-	-
811	Hungry Horse Dam	1	-	6.840%	2003	1975	9	-	-
812	Hungry Horse Dam	10	-	6.840%	2003	1976	9	-	-
813	Hungry Horse Dam	1	-	6.840%	2003	1976	9	-	-
814	Hungry Horse Dam	18	-	6.840%	2003	1977	9	-	-
815	Hungry Horse Dam	1	-	6.840%	2003	1977	9	-	-
816	Hungry Horse Dam	18	-	6.840%	2003	1978	9	-	-
817	Hungry Horse Dam	1	-	6.840%	2003	1978	9	-	-
818	Hungry Horse Dam	18	-	6.840%	2003	1979	9	-	-
819	Hungry Horse Dam	1	-	6.840%	2003	1979	9	-	-
820	Hungry Horse Dam	18	-	6.840%	2003	1980	9	-	-
821	Hungry Horse Dam	1	-	6.840%	2003	1980	9	-	-
822	Hungry Horse Dam	22	-	6.840%	2003	1981	9	-	-
823	Hungry Horse Dam	1	-	6.840%	2003	1981	9	-	-
824	Hungry Horse Dam	1	-	6.840%	2003	1982	9	-	-
825	Hungry Horse Dam	12	-	6.840%	2003	1983	9	-	-
826	Hungry Horse Dam	1	-	6.840%	2003	1983	9	-	-
827	Hungry Horse Dam	32	-	10.750%	2003	1984	9	-	-
828	Hungry Horse Dam	1	-	10.750%	2003	1984	9	-	-

TABLE 11A: HISTORICAL INVESTMENTS
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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
829	Hungry Horse Dam	36	-	12.375%	2003	1985	9	-	-
830	Hungry Horse Dam	37	-	12.375%	2003	1985	9	-	-
831	Hungry Horse Dam	101	-	9.250%	2003	1989	9	-	-
832	Hungry Horse Dam	58	-	8.875%	2003	1990	9	-	-
833	Hungry Horse Dam	19	-	8.750%	2003	1991	9	-	-
834	Hungry Horse Dam	9	-	8.500%	2003	1992	9	-	-
835	Hungry Horse Dam	4,136	-	7.875%	2003	1993	9	-	-
836	Hungry Horse Dam	2	-	7.875%	2003	1993	9	-	-
837	Hungry Horse Dam	56	-	7.125%	2019	1994	9	-	-
838	Hungry Horse Dam	156	-	6.620%	2000	1995	9	-	-
839	Hungry Horse Dam	84	-	6.620%	2000	1995	9	-	-
840	Hungry Horse Dam	450	-	7.930%	2020	1995	9	-	-
841	Hungry Horse Dam	536	536	7.150%	2030	1995	9	-	-
842	Hungry Horse Dam	1,198	1,195	7.150%	2030	1995	9	-	-
843	Hungry Horse Dam	6,190	6,190	7.150%	2045	1995	9	-	-
844	Hungry Horse Dam	14,354	-	7.860%	2045	1995	9	-	-
845	Hungry Horse Dam	15	15	7.150%	2046	1996	9	-	-
846	Hungry Horse Dam	2	2	7.150%	2046	1996	9	-	-
847	Hungry Horse Dam	154	-	6.950%	2007	1997	9	-	-
848	Hungry Horse Dam	111	111	7.150%	2047	1997	9	-	-
849	Hungry Horse Dam	552	552	5.875%	2051	2001	9	-	-
850	Hungry Horse Dam	2,951	2,951	5.125%	2055	2005	9	-	-
851	Hungry Horse Dam	294	294	5.000%	2057	2007	9	-	-
852	Hungry Horse Dam	76	76	4.875%	2058	2008	9	-	-
853	Hungry Horse Dam	60	60	4.375%	2059	2009	9	-	-
854	Hungry Horse Dam	783	783	4.250%	2060	2010	9	-	-
855	Ice Harbor	664	-	7.160%	2012	1962	9	-	-
856	Ice Harbor	59,699	-	7.160%	2012	1962	9	-	-
857	Ice Harbor	46	-	7.160%	2012	1963	9	-	-
858	Ice Harbor	1	-	7.160%	2012	1963	9	-	-
859	Ice Harbor	46	-	7.160%	2012	1964	9	-	-
860	Ice Harbor	1	-	7.160%	2012	1964	9	-	-
861	Ice Harbor	46	-	7.160%	2012	1965	9	-	-
862	Ice Harbor	1	-	7.160%	2012	1965	9	-	-
863	Ice Harbor	46	-	7.160%	2012	1966	9	-	-
864	Ice Harbor	1	-	7.160%	2012	1966	9	-	-
865	Ice Harbor	46	-	7.160%	2012	1967	9	-	-
866	Ice Harbor	1	-	7.160%	2012	1967	9	-	-
867	Ice Harbor	46	-	7.160%	2012	1968	9	-	-
868	Ice Harbor	1	-	7.160%	2012	1968	9	-	-
869	Ice Harbor	46	-	7.160%	2012	1969	9	-	-
870	Ice Harbor	1	-	7.160%	2012	1969	9	-	-
871	Ice Harbor	46	-	7.160%	2012	1970	9	-	-
872	Ice Harbor	1	-	7.160%	2012	1970	9	-	-
873	Ice Harbor	46	-	7.160%	2012	1971	9	-	-
874	Ice Harbor	1	-	7.160%	2012	1971	9	-	-
875	Ice Harbor	46	-	7.160%	2012	1972	9	-	-
876	Ice Harbor	1	-	7.160%	2012	1972	9	-	-
877	Ice Harbor	46	-	7.160%	2012	1973	9	-	-
878	Ice Harbor	1	1	7.160%	2012	1973	9	-	-
879	Ice Harbor	46	-	7.160%	2012	1974	9	-	-
880	Ice Harbor	1	-	7.160%	2012	1974	9	-	-
881	Ice Harbor	46	-	7.160%	2012	1975	9	-	-
882	Ice Harbor	1	-	7.160%	2012	1975	9	-	-
883	Ice Harbor	46	-	7.160%	2012	1976	9	-	-
884	Ice Harbor	1	-	7.160%	2012	1976	9	-	-
885	Ice Harbor	20,472	20,472	7.150%	2026	1976	9	-	-
886	Ice Harbor	228	228	7.150%	2026	1976	9	-	-
887	Ice Harbor	46	-	7.160%	2012	1977	9	-	-
888	Ice Harbor	1	-	7.160%	2012	1977	9	-	-
889	Ice Harbor	46	-	7.160%	2012	1978	9	-	-
890	Ice Harbor	1	-	7.160%	2012	1978	9	-	-
891	Ice Harbor	46	-	7.160%	2012	1979	9	-	-
892	Ice Harbor	1	-	7.160%	2012	1979	9	-	-
893	Ice Harbor	46	-	7.160%	2012	1980	9	-	-
894	Ice Harbor	1	-	7.160%	2012	1980	9	-	-
895	Ice Harbor	46	-	7.160%	2012	1981	9	-	-
896	Ice Harbor	1	-	7.160%	2012	1981	9	-	-
897	Ice Harbor	46	-	7.160%	2012	1982	9	-	-

TABLE 11A: HISTORICAL INVESTMENTS
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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
898	Ice Harbor	1	-	7.160%	2012	1982	9	-	-
899	Ice Harbor	46	-	7.160%	2012	1983	9	-	-
900	Ice Harbor	1	-	7.160%	2012	1983	9	-	-
901	Ice Harbor	41	-	7.160%	2012	1985	9	-	-
902	Ice Harbor	21	21	7.150%	2026	1985	9	-	-
903	Ice Harbor	137	-	7.160%	2012	1986	9	-	-
904	Ice Harbor	3	-	7.160%	2012	1987	9	-	-
905	Ice Harbor	71	-	8.875%	2012	1987	9	-	-
906	Ice Harbor	1	-	8.875%	2012	1987	9	-	-
907	Ice Harbor	8	-	8.500%	2012	1988	9	-	-
908	Ice Harbor	57	-	8.500%	2012	1988	9	-	-
909	Ice Harbor	51	-	9.250%	2012	1989	9	-	-
910	Ice Harbor	427	-	8.875%	2012	1990	9	-	-
911	Ice Harbor	348	-	8.750%	2012	1991	9	-	-
912	Ice Harbor	177	-	8.500%	2012	1992	9	-	-
913	Ice Harbor	3,192	-	7.875%	2012	1993	9	-	-
914	Ice Harbor	1,645	-	7.875%	2012	1993	9	-	-
915	Ice Harbor	328	-	7.125%	2029	1994	9	-	-
916	Ice Harbor	520	-	7.125%	2029	1994	9	-	-
917	Ice Harbor	2	-	7.330%	2000	1995	9	-	-
918	Ice Harbor	84	-	7.270%	2019	1995	9	-	-
919	Ice Harbor	171	-	7.270%	2019	1995	9	-	-
920	Ice Harbor	849	-	7.270%	2019	1995	9	-	-
921	Ice Harbor	78	78	7.150%	2031	1996	9	-	-
922	Ice Harbor	371	371	7.150%	2041	1996	9	-	-
923	Ice Harbor	66	-	7.230%	2022	1997	9	-	-
924	Ice Harbor	67	67	7.150%	2047	1997	9	-	-
925	Ice Harbor	5,516	5,516	5.375%	2049	1999	9	-	-
926	Ice Harbor	548	548	6.125%	2050	2000	9	-	-
927	Ice Harbor	764	764	5.875%	2051	2001	9	-	-
928	Ice Harbor	1,014	1,014	5.500%	2052	2002	9	-	-
929	Ice Harbor	50	50	5.125%	2053	2003	9	-	-
930	Ice Harbor	3,321	3,321	5.375%	2054	2004	9	-	-
931	Ice Harbor	14	14	4.875%	2058	2008	9	-	-
932	Ice Harbor	2,615	2,615	4.375%	2059	2009	9	-	-
933	Ice Harbor	207	207	4.250%	2060	2010	9	-	-
934	John Day	27,254	-	7.280%	2018	1968	9	-	-
935	John Day	96,104	-	7.270%	2019	1969	9	-	-
936	John Day	23,656	-	7.250%	2020	1970	9	-	-
937	John Day	34,974	-	7.230%	2021	1971	9	-	-
938	John Day	11,502	8,837	7.210%	2022	1972	9	-	-
939	John Day	3,677	-	10.750%	2022	1984	9	-	-
940	John Day	6,490	-	7.210%	2022	1985	9	-	-
941	John Day	1,209	-	12.375%	2022	1985	9	-	-
942	John Day	3,227	-	7.210%	2022	1986	9	-	-
943	John Day	713	-	11.375%	2022	1986	9	-	-
944	John Day	706	-	7.210%	2022	1987	9	-	-
945	John Day	4,353	-	8.875%	2022	1987	9	-	-
946	John Day	332	-	8.500%	2022	1988	9	-	-
947	John Day	199	-	8.500%	2022	1988	9	-	-
948	John Day	30	-	7.210%	2022	1989	9	-	-
949	John Day	377	-	9.250%	2022	1989	9	-	-
950	John Day	37	-	7.210%	2022	1990	9	-	-
951	John Day	543	-	8.875%	2022	1990	9	-	-
952	John Day	13,218	-	8.750%	2022	1991	9	-	-
953	John Day	144	-	8.750%	2022	1991	9	-	-
954	John Day	19	-	7.210%	2022	1992	9	-	-
955	John Day	95	-	8.500%	2022	1992	9	-	-
956	John Day	7,810	-	7.875%	2022	1993	9	-	-
957	John Day	9,585	-	7.875%	2022	1993	9	-	-
958	John Day	14	-	7.125%	2019	1994	9	-	-
959	John Day	1,252	-	7.125%	2029	1994	9	-	-
960	John Day	2	-	7.330%	2000	1995	9	-	-
961	John Day	9	-	7.330%	2000	1995	9	-	-
962	John Day	79	-	7.250%	2020	1995	9	-	-
963	John Day	22	22	7.150%	2035	1995	9	-	-
964	John Day	52	52	7.150%	2035	1995	9	-	-
965	John Day	121	121	7.150%	2035	1995	9	-	-
966	John Day	37	37	7.150%	2045	1995	9	-	-

TABLE 11A: HISTORICAL INVESTMENTS
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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
967	John Day	608	608	7.150%	2045	1995	9	-	-
968	John Day	7,653	7,653	7.150%	2045	1995	9	-	-
969	John Day	237	-	7.130%	2011	1996	9	-	-
970	John Day	1,072	-	7.290%	2016	1996	9	-	-
971	John Day	133	-	7.230%	2022	1997	9	-	-
972	John Day	179	179	7.150%	2047	1997	9	-	-
973	John Day	3,510	3,510	5.375%	2049	1999	9	-	-
974	John Day	2,761	2,761	6.125%	2050	2000	9	-	-
975	John Day	619	619	5.875%	2051	2001	9	-	-
976	John Day	2,830	2,830	5.375%	2054	2004	9	-	-
977	John Day	2,827	2,827	5.125%	2055	2005	9	-	-
978	John Day	601	601	4.500%	2056	2006	9	-	-
979	John Day	233	233	5.000%	2057	2007	9	-	-
980	John Day	1,548	1,548	4.375%	2059	2009	9	-	-
981	John Day	356	356	4.250%	2060	2010	9	-	-
982	Libby	54,644	48,138	7.160%	2025	1975	9	-	-
983	Libby	153,432	153,432	7.150%	2026	1976	9	-	-
984	Libby	1,465	1,465	7.150%	2026	1977	9	-	-
985	Libby	1,465	1,465	7.150%	2026	1978	9	-	-
986	Libby	1,465	1,465	7.150%	2026	1979	9	-	-
987	Libby	1,465	1,465	7.150%	2026	1980	9	-	-
988	Libby	1,465	1,465	7.150%	2026	1981	9	-	-
989	Libby	1,465	1,465	7.150%	2026	1982	9	-	-
990	Libby	1,465	1,465	7.150%	2026	1983	9	-	-
991	Libby	104	-	10.750%	2026	1984	9	-	-
992	Libby	518	518	7.150%	2026	1985	9	-	-
993	Libby	283	283	7.150%	2026	1986	9	-	-
994	Libby	2	2	7.150%	2026	1987	9	-	-
995	Libby	35	-	8.505%	2026	1988	9	-	-
996	Libby	18,043	14,781	7.150%	2038	1988	9	-	-
997	Libby	1	1	7.150%	2026	1989	9	-	-
998	Libby	131	-	9.250%	2026	1989	9	-	-
999	Libby	11	-	8.875%	2026	1990	9	-	-
1000	Libby	134	-	8.750%	2026	1991	9	-	-
1001	Libby	100	-	8.500%	2026	1992	9	-	-
1002	Libby	70	-	8.500%	2026	1992	9	-	-
1003	Libby	600	-	7.875%	2026	1993	9	-	-
1004	Libby	286	152	7.150%	2029	1994	9	-	-
1005	Libby	215	-	7.125%	2029	1994	9	-	-
1006	Libby	15	15	7.150%	2030	1995	9	-	-
1007	Libby	41	41	7.150%	2030	1995	9	-	-
1008	Libby	94	94	7.150%	2030	1995	9	-	-
1009	Libby	432	-	7.230%	2022	1997	9	-	-
1010	Libby	660	660	7.150%	2047	1997	9	-	-
1011	Libby	5,562	5,562	5.875%	2051	2001	9	-	-
1012	Libby	1,567	1,567	4.875%	2058	2008	9	-	-
1013	Libby	40	40	4.250%	2060	2010	9	-	-
1014	Little Goose	22,326	-	7.250%	2020	1970	9	-	-
1015	Little Goose	42,962	-	7.230%	2021	1971	9	-	-
1016	Little Goose	28	-	7.230%	2021	1972	9	-	-
1017	Little Goose	29	-	7.230%	2021	1973	9	-	-
1018	Little Goose	28	-	7.230%	2021	1974	9	-	-
1019	Little Goose	29	-	7.230%	2021	1975	9	-	-
1020	Little Goose	28	-	7.230%	2021	1976	9	-	-
1021	Little Goose	29	-	7.230%	2021	1977	9	-	-
1022	Little Goose	28	28	7.230%	2021	1978	9	-	-
1023	Little Goose	49,578	49,550	7.150%	2028	1978	9	-	-
1024	Little Goose	29	-	7.230%	2021	1979	9	-	-
1025	Little Goose	28	-	7.230%	2021	1980	9	-	-
1026	Little Goose	29	-	7.230%	2021	1981	9	-	-
1027	Little Goose	28	-	7.230%	2021	1982	9	-	-
1028	Little Goose	29	-	7.230%	2021	1983	9	-	-
1029	Little Goose	201	-	10.750%	2021	1984	9	-	-
1030	Little Goose	174	-	7.230%	2021	1985	9	-	-
1031	Little Goose	47	47	7.150%	2028	1985	9	-	-
1032	Little Goose	239	-	7.230%	2021	1986	9	-	-
1033	Little Goose	6	-	7.230%	2021	1987	9	-	-
1034	Little Goose	72	-	8.875%	2021	1987	9	-	-
1035	Little Goose	12	-	8.500%	2021	1988	9	-	-

TABLE 11A: HISTORICAL INVESTMENTS
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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
1036	Little Goose	68	-	8.500%	2021	1988	9	-	-
1037	Little Goose	77	-	9.250%	2021	1989	9	-	-
1038	Little Goose	408	-	8.875%	2021	1990	9	-	-
1039	Little Goose	21	-	8.875%	2021	1990	9	-	-
1040	Little Goose	266	-	8.750%	2021	1991	9	-	-
1041	Little Goose	66	-	8.500%	2021	1992	9	-	-
1042	Little Goose	27	-	8.500%	2021	1992	9	-	-
1043	Little Goose	276	-	7.875%	2021	1993	9	-	-
1044	Little Goose	3,359	-	7.875%	2021	1993	9	-	-
1045	Little Goose	37	-	7.125%	2019	1994	9	-	-
1046	Little Goose	2,044	-	7.125%	2029	1994	9	-	-
1047	Little Goose	17	17	7.150%	2040	1995	9	-	-
1048	Little Goose	450	450	7.150%	2040	1995	9	-	-
1049	Little Goose	733	733	7.150%	2040	1995	9	-	-
1050	Little Goose	10	10	7.150%	2046	1996	9	-	-
1051	Little Goose	10	10	7.150%	2046	1996	9	-	-
1052	Little Goose	211	211	7.150%	2046	1996	9	-	-
1053	Little Goose	241	241	7.150%	2046	1996	9	-	-
1054	Little Goose	520	520	7.150%	2046	1996	9	-	-
1055	Little Goose	3,909	3,909	7.150%	2046	1996	9	-	-
1056	Little Goose	1	1	7.150%	2047	1997	9	-	-
1057	Little Goose	4,608	4,608	5.875%	2051	2001	9	-	-
1058	Little Goose	27	27	5.500%	2052	2002	9	-	-
1059	Little Goose	146	146	5.125%	2053	2003	9	-	-
1060	Little Goose	67	67	5.375%	2054	2004	9	-	-
1061	Little Goose	13	13	4.875%	2058	2008	9	-	-
1062	Little Goose	3,171	3,171	4.375%	2059	2009	9	-	-
1063	Little Goose	30	30	4.250%	2060	2010	9	-	-
1064	Lookout Dam	34,290	-	6.910%	2005	1955	9	-	-
1065	Lookout Dam	52	-	6.910%	2005	1956	9	-	-
1066	Lookout Dam	51	-	6.910%	2005	1957	9	-	-
1067	Lookout Dam	51	-	6.910%	2005	1958	9	-	-
1068	Lookout Dam	51	-	6.910%	2005	1959	9	-	-
1069	Lookout Dam	51	-	6.910%	2005	1960	9	-	-
1070	Lookout Dam	52	-	6.910%	2005	1961	9	-	-
1071	Lookout Dam	51	-	6.910%	2005	1962	9	-	-
1072	Lookout Dam	51	-	6.910%	2005	1963	9	-	-
1073	Lookout Dam	51	-	6.910%	2005	1964	9	-	-
1074	Lookout Dam	51	-	6.910%	2005	1965	9	-	-
1075	Lookout Dam	51	-	6.910%	2005	1966	9	-	-
1076	Lookout Dam	52	-	6.910%	2005	1967	9	-	-
1077	Lookout Dam	51	-	6.910%	2005	1968	9	-	-
1078	Lookout Dam	51	-	6.910%	2005	1969	9	-	-
1079	Lookout Dam	51	-	6.910%	2005	1970	9	-	-
1080	Lookout Dam	51	-	6.910%	2005	1971	9	-	-
1081	Lookout Dam	51	-	6.910%	2005	1972	9	-	-
1082	Lookout Dam	52	-	6.910%	2005	1973	9	-	-
1083	Lookout Dam	51	-	6.910%	2005	1974	9	-	-
1084	Lookout Dam	51	-	6.910%	2005	1975	9	-	-
1085	Lookout Dam	51	-	6.910%	2005	1976	9	-	-
1086	Lookout Dam	51	-	6.910%	2005	1977	9	-	-
1087	Lookout Dam	51	-	6.910%	2005	1978	9	-	-
1088	Lookout Dam	52	-	6.910%	2005	1979	9	-	-
1089	Lookout Dam	51	-	6.910%	2005	1980	9	-	-
1090	Lookout Dam	51	-	6.910%	2005	1981	9	-	-
1091	Lookout Dam	51	-	6.910%	2005	1982	9	-	-
1092	Lookout Dam	51	-	6.910%	2005	1983	9	-	-
1093	Lookout Dam	185	-	10.750%	2005	1984	9	-	-
1094	Lookout Dam	52	-	6.910%	2005	1985	9	-	-
1095	Lookout Dam	42	-	6.910%	2005	1986	9	-	-
1096	Lookout Dam	9	-	6.910%	2005	1987	9	-	-
1097	Lookout Dam	12	-	8.875%	2005	1987	9	-	-
1098	Lookout Dam	46	-	8.500%	2005	1988	9	-	-
1099	Lookout Dam	17	-	8.500%	2005	1988	9	-	-
1100	Lookout Dam	23	-	9.250%	2005	1989	9	-	-
1101	Lookout Dam	147	-	8.875%	2005	1990	9	-	-
1102	Lookout Dam	4	-	8.875%	2005	1990	9	-	-
1103	Lookout Dam	6	-	8.750%	2005	1991	9	-	-
1104	Lookout Dam	50	-	8.750%	2005	1991	9	-	-

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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
1105	Lookout Dam	181	-	8.500%	2005	1992	9	-	-
1106	Lookout Dam	4	-	8.500%	2005	1992	9	-	-
1107	Lookout Dam	18	-	7.875%	2005	1993	9	-	-
1108	Lookout Dam	189	-	7.875%	2005	1993	9	-	-
1109	Lookout Dam	73	-	7.125%	2019	1994	9	-	-
1110	Lookout Dam	80	39	7.150%	2045	1995	9	-	-
1111	Lookout Dam	33	33	7.150%	2045	1995	9	-	-
1112	Lookout Dam	9	-	7.860%	2045	1995	9	-	-
1113	Lookout Dam	15	-	7.860%	2045	1995	9	-	-
1114	Lookout Dam	31	-	7.860%	2045	1995	9	-	-
1115	Lookout Dam	157	-	7.860%	2045	1995	9	-	-
1116	Lookout Dam	5,098	5,098	6.125%	2050	2000	9	-	-
1117	Lookout Dam	135	135	5.125%	2053	2003	9	-	-
1118	Lookout Dam	7,355	7,355	5.125%	2055	2005	9	-	-
1119	Lookout Dam	572	572	5.000%	2057	2007	9	-	-
1120	Lost Creek	13,505	13,413	7.150%	2027	1977	9	-	-
1121	Lost Creek	58	58	7.150%	2027	1978	9	-	-
1122	Lost Creek	60	60	7.150%	2027	1979	9	-	-
1123	Lost Creek	60	60	7.150%	2027	1980	9	-	-
1124	Lost Creek	60	60	7.150%	2027	1981	9	-	-
1125	Lost Creek	60	60	7.150%	2027	1982	9	-	-
1126	Lost Creek	60	60	7.150%	2027	1983	9	-	-
1127	Lost Creek	243	-	10.750%	2027	1984	9	-	-
1128	Lost Creek	12	12	7.150%	2027	1985	9	-	-
1129	Lost Creek	6	6	7.150%	2027	1986	9	-	-
1130	Lost Creek	5	-	11.375%	2027	1986	9	-	-
1131	Lost Creek	4	4	7.150%	2027	1987	9	-	-
1132	Lost Creek	3	-	8.875%	2027	1987	9	-	-
1133	Lost Creek	7	-	8.500%	2027	1988	9	-	-
1134	Lost Creek	9	-	9.250%	2027	1989	9	-	-
1135	Lost Creek	1	-	8.875%	2027	1990	9	-	-
1136	Lost Creek	31	-	8.750%	2027	1991	9	-	-
1137	Lost Creek	1	-	8.500%	2027	1992	9	-	-
1138	Lost Creek	1	-	8.500%	2027	1992	9	-	-
1139	Lost Creek	1	-	7.875%	2027	1993	9	-	-
1140	Lost Creek	14	-	7.875%	2027	1993	9	-	-
1141	Lost Creek	4	-	7.330%	2000	1995	9	-	-
1142	Lost Creek	94	94	7.150%	2045	1995	9	-	-
1143	Lost Creek	31	31	7.150%	2031	1996	9	-	-
1144	Lost Creek	24	24	7.150%	2046	1996	9	-	-
1145	Lost Creek	154	154	5.875%	2051	2001	9	-	-
1146	Lower Granite	119,237	117,645	7.160%	2025	1975	9	-	-
1147	Lower Granite	510	510	7.160%	2025	1976	9	-	-
1148	Lower Granite	510	510	7.160%	2025	1977	9	-	-
1149	Lower Granite	510	510	7.160%	2025	1978	9	-	-
1150	Lower Granite	40,611	40,611	7.150%	2028	1978	9	-	-
1151	Lower Granite	510	510	7.160%	2025	1979	9	-	-
1152	Lower Granite	510	510	7.160%	2025	1980	9	-	-
1153	Lower Granite	510	510	7.160%	2025	1981	9	-	-
1154	Lower Granite	510	510	7.160%	2025	1982	9	-	-
1155	Lower Granite	510	510	7.160%	2025	1983	9	-	-
1156	Lower Granite	311	-	10.750%	2025	1984	9	-	-
1157	Lower Granite	328	328	7.160%	2025	1985	9	-	-
1158	Lower Granite	215	215	7.160%	2025	1986	9	-	-
1159	Lower Granite	4	-	11.375%	2025	1986	9	-	-
1160	Lower Granite	8	8	7.160%	2025	1987	9	-	-
1161	Lower Granite	60	-	8.875%	2025	1987	9	-	-
1162	Lower Granite	22	-	8.500%	2025	1988	9	-	-
1163	Lower Granite	95	-	8.500%	2025	1988	9	-	-
1164	Lower Granite	112	-	9.250%	2025	1989	9	-	-
1165	Lower Granite	392	-	8.875%	2025	1990	9	-	-
1166	Lower Granite	281	-	8.750%	2025	1991	9	-	-
1167	Lower Granite	6	-	8.750%	2025	1991	9	-	-
1168	Lower Granite	83	-	8.500%	2025	1992	9	-	-
1169	Lower Granite	121	-	8.500%	2025	1992	9	-	-
1170	Lower Granite	26	-	7.875%	2025	1993	9	-	-
1171	Lower Granite	3,272	-	7.875%	2025	1993	9	-	-
1172	Lower Granite	38	-	7.125%	2019	1994	9	-	-
1173	Lower Granite	3,543	1,551	7.150%	2029	1994	9	-	-

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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
1174	Lower Granite	77	-	7.290%	2017	1995	9	-	-
1175	Lower Granite	388	-	7.290%	2017	1995	9	-	-
1176	Lower Granite	458	-	7.290%	2017	1995	9	-	-
1177	Lower Granite	96	96	7.160%	2025	1995	9	-	-
1178	Lower Granite	255	-	7.130%	2011	1996	9	-	-
1179	Lower Granite	206	206	7.150%	2031	1996	9	-	-
1180	Lower Granite	9	9	7.150%	2046	1996	9	-	-
1181	Lower Granite	625	625	7.150%	2046	1996	9	-	-
1182	Lower Granite	677	677	7.150%	2047	1997	9	-	-
1183	Lower Granite	856	856	5.375%	2049	1999	9	-	-
1184	Lower Granite	2,025	2,025	5.875%	2051	2001	9	-	-
1185	Lower Granite	1,275	1,275	5.500%	2052	2002	9	-	-
1186	Lower Granite	42	42	5.125%	2053	2003	9	-	-
1187	Lower Granite	393	393	5.125%	2055	2005	9	-	-
1188	Lower Granite	24	24	4.875%	2058	2008	9	-	-
1189	Lower Granite	5,669	5,669	4.375%	2059	2009	9	-	-
1190	Lower Granite	1,157	1,157	4.250%	2060	2010	9	-	-
1191	Lower Monument	26,974	-	7.270%	2019	1969	9	-	-
1192	Lower Monument	51,218	-	7.250%	2020	1970	9	-	-
1193	Lower Monument	214	-	7.250%	2020	1971	9	-	-
1194	Lower Monument	214	-	7.250%	2020	1972	9	-	-
1195	Lower Monument	214	-	7.250%	2020	1973	9	-	-
1196	Lower Monument	214	-	7.250%	2020	1974	9	-	-
1197	Lower Monument	214	-	7.250%	2020	1975	9	-	-
1198	Lower Monument	214	-	7.250%	2020	1976	9	-	-
1199	Lower Monument	214	-	7.250%	2020	1977	9	-	-
1200	Lower Monument	214	-	7.250%	2020	1978	9	-	-
1201	Lower Monument	214	-	7.250%	2020	1979	9	-	-
1202	Lower Monument	40,669	40,669	7.150%	2029	1979	9	-	-
1203	Lower Monument	214	-	7.250%	2020	1980	9	-	-
1204	Lower Monument	214	-	7.250%	2020	1981	9	-	-
1205	Lower Monument	214	-	7.250%	2020	1982	9	-	-
1206	Lower Monument	214	-	7.250%	2020	1983	9	-	-
1207	Lower Monument	8	-	7.250%	2020	1985	9	-	-
1208	Lower Monument	256	256	7.150%	2029	1985	9	-	-
1209	Lower Monument	132	-	7.250%	2020	1986	9	-	-
1210	Lower Monument	3	-	7.250%	2020	1987	9	-	-
1211	Lower Monument	50	-	8.875%	2020	1987	9	-	-
1212	Lower Monument	1	-	8.500%	2020	1988	9	-	-
1213	Lower Monument	58	-	8.500%	2020	1988	9	-	-
1214	Lower Monument	93	-	9.250%	2020	1989	9	-	-
1215	Lower Monument	358	-	8.875%	2020	1990	9	-	-
1216	Lower Monument	594	-	8.750%	2020	1991	9	-	-
1217	Lower Monument	4,484	-	8.500%	2020	1992	9	-	-
1218	Lower Monument	24	-	7.875%	2020	1993	9	-	-
1219	Lower Monument	2,175	-	7.875%	2020	1993	9	-	-
1220	Lower Monument	107	-	7.125%	2019	1994	9	-	-
1221	Lower Monument	2,167	-	7.125%	2029	1994	9	-	-
1222	Lower Monument	6	-	7.330%	2000	1995	9	-	-
1223	Lower Monument	41	41	7.150%	2045	1995	9	-	-
1224	Lower Monument	99	99	7.150%	2045	1995	9	-	-
1225	Lower Monument	624	624	7.150%	2045	1995	9	-	-
1226	Lower Monument	1,122	1,122	7.150%	2045	1995	9	-	-
1227	Lower Monument	668	-	7.290%	2016	1996	9	-	-
1228	Lower Monument	37	-	7.230%	2021	1996	9	-	-
1229	Lower Monument	51	-	7.230%	2021	1996	9	-	-
1230	Lower Monument	264	264	7.150%	2036	1996	9	-	-
1231	Lower Monument	10	10	7.150%	2046	1996	9	-	-
1232	Lower Monument	3,301	3,301	5.875%	2051	2001	9	-	-
1233	Lower Monument	29	29	5.500%	2052	2002	9	-	-
1234	Lower Monument	22	22	5.125%	2053	2003	9	-	-
1235	Lower Monument	3,423	3,423	5.375%	2054	2004	9	-	-
1236	Lower Monument	527	527	5.125%	2055	2005	9	-	-
1237	Lower Monument	285	285	4.500%	2056	2006	9	-	-
1238	Lower Monument	9	9	4.875%	2058	2008	9	-	-
1239	Lower Monument	2,332	2,332	4.375%	2059	2009	9	-	-
1240	Lower Snake Fish and Wildlife	30,488	9,472	7.150%	2033	1983	9	-	-
1241	Lower Snake Fish and Wildlife	47,921	47,921	7.150%	2035	1985	9	-	-
1242	Lower Snake Fish and Wildlife	72,536	72,536	7.150%	2037	1987	9	-	-

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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
1243	Lower Snake Fish and Wildlife	805	805	7.150%	2038	1988	9	-	-
1244	Lower Snake Fish and Wildlife	1,557	1,557	7.150%	2040	1990	9	-	-
1245	Lower Snake Fish and Wildlife	4,411	4,411	7.150%	2041	1991	9	-	-
1246	Lower Snake Fish and Wildlife	71,632	71,632	7.150%	2043	1993	9	-	-
1247	Lower Snake Fish and Wildlife	4,722	4,722	7.150%	2044	1994	9	-	-
1248	Lower Snake Fish and Wildlife	12,085	12,085	7.150%	2046	1996	9	-	-
1249	Lower Snake Fish and Wildlife	2,173	2,173	7.150%	2047	1997	9	-	-
1250	Lower Snake Fish and Wildlife	7	7	5.375%	2049	1999	9	-	-
1251	Lower Snake Fish and Wildlife	1,529	1,529	6.125%	2050	2000	9	-	-
1252	Lower Snake Fish and Wildlife	325	325	5.875%	2051	2001	9	-	-
1253	Lower Snake Fish and Wildlife	890	890	5.500%	2052	2002	9	-	-
1254	Lower Snake Fish and Wildlife	98	98	5.125%	2053	2003	9	-	-
1255	Lower Snake Fish and Wildlife	230	230	5.375%	2054	2004	9	-	-
1256	Lower Snake Fish and Wildlife	4	4	5.125%	2055	2005	9	-	-
1257	Lower Snake Fish and Wildlife	379	379	4.500%	2056	2006	9	-	-
1258	Lower Snake Fish and Wildlife	74	74	4.875%	2058	2008	9	-	-
1259	Lower Snake Fish and Wildlife	1,540	1,540	4.375%	2059	2009	9	-	-
1260	Lower Snake Fish and Wildlife	6	6	4.250%	2060	2010	9	-	-
1261	McNary	80,256	-	6.880%	2004	1954	9	-	-
1262	McNary	53,493	-	6.910%	2005	1955	9	-	-
1263	McNary	38,748	-	6.950%	2006	1956	9	-	-
1264	McNary	24,985	-	6.980%	2007	1957	9	-	-
1265	McNary	468	-	6.980%	2007	1958	9	-	-
1266	McNary	468	-	6.980%	2007	1959	9	-	-
1267	McNary	468	-	6.980%	2007	1960	9	-	-
1268	McNary	468	-	6.980%	2007	1961	9	-	-
1269	McNary	467	-	6.980%	2007	1962	9	-	-
1270	McNary	468	-	6.980%	2007	1963	9	-	-
1271	McNary	468	-	6.980%	2007	1964	9	-	-
1272	McNary	468	-	6.980%	2007	1965	9	-	-
1273	McNary	468	-	6.980%	2007	1966	9	-	-
1274	McNary	467	-	6.980%	2007	1967	9	-	-
1275	McNary	468	-	6.980%	2007	1968	9	-	-
1276	McNary	468	-	6.980%	2007	1969	9	-	-
1277	McNary	468	-	6.980%	2007	1970	9	-	-
1278	McNary	468	-	6.980%	2007	1971	9	-	-
1279	McNary	468	-	6.980%	2007	1972	9	-	-
1280	McNary	467	-	6.980%	2007	1973	9	-	-
1281	McNary	468	-	6.980%	2007	1974	9	-	-
1282	McNary	468	-	6.980%	2007	1975	9	-	-
1283	McNary	468	-	6.980%	2007	1976	9	-	-
1284	McNary	467	-	6.980%	2007	1977	9	-	-
1285	McNary	468	-	6.980%	2007	1978	9	-	-
1286	McNary	468	-	6.980%	2007	1979	9	-	-
1287	McNary	468	-	6.980%	2007	1980	9	-	-
1288	McNary	468	-	6.980%	2007	1981	9	-	-
1289	McNary	467	-	6.980%	2007	1982	9	-	-
1290	McNary	468	-	6.980%	2007	1983	9	-	-
1291	McNary	557	-	6.980%	2007	1985	9	-	-
1292	McNary	454	-	6.980%	2007	1986	9	-	-
1293	McNary	24	-	6.980%	2007	1987	9	-	-
1294	McNary	509	-	7.090%	2010	1995	9	-	-
1295	McNary	16	16	7.150%	2045	1995	9	-	-
1296	McNary	778	-	6.950%	2006	1996	9	-	-
1297	McNary	3	-	7.130%	2011	1996	9	-	-
1298	McNary	74	74	7.150%	2026	1996	9	-	-
1299	McNary	277	277	7.150%	2026	1996	9	-	-
1300	McNary	619	619	7.150%	2046	1996	9	-	-
1301	McNary	30	30	7.150%	2032	1997	9	-	-
1302	McNary	1,046	1,046	5.875%	2051	2001	9	-	-
1303	McNary	97	97	5.750%	2053	2003	9	-	-
1304	McNary	6,138	6,138	5.375%	2054	2004	9	-	-
1305	McNary	550	550	5.125%	2055	2005	9	-	-
1306	McNary	4,080	4,080	4.500%	2056	2006	9	-	-
1307	McNary	215	215	4.875%	2058	2008	9	-	-
1308	Minidoka/Palisades	854	-	3.000%	1959	1909	9	-	-
1309	Minidoka/Palisades	226	-	3.000%	1959	1909	9	-	-
1310	Minidoka/Palisades	1,709	-	3.000%	1960	1910	9	-	-
1311	Minidoka/Palisades	451	-	3.000%	1960	1910	9	-	-

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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
1312	Minidoka/Palisades	1,709	-	3.000%	1961	1911	9	-	-
1313	Minidoka/Palisades	451	-	3.000%	1961	1911	9	-	-
1314	Minidoka/Palisades	854	-	3.000%	1977	1927	9	-	-
1315	Minidoka/Palisades	226	-	3.000%	1977	1927	9	-	-
1316	Minidoka/Palisades	854	-	3.000%	1992	1942	9	-	-
1317	Minidoka/Palisades	226	-	3.000%	1992	1942	9	-	-
1318	Minidoka/Palisades	2,561	-	3.000%	2007	1957	9	-	-
1319	Minidoka/Palisades	677	-	3.000%	2007	1957	9	-	-
1320	Minidoka/Palisades	854	-	3.000%	2008	1958	9	-	-
1321	Minidoka/Palisades	226	-	3.000%	2008	1958	9	-	-
1322	Minidoka/Palisades	108	-	3.000%	2008	1959	9	-	-
1323	Minidoka/Palisades	28	-	3.000%	2008	1959	9	-	-
1324	Minidoka/Palisades	108	-	3.000%	2008	1960	9	-	-
1325	Minidoka/Palisades	29	-	3.000%	2008	1960	9	-	-
1326	Minidoka/Palisades	108	-	3.000%	2008	1961	9	-	-
1327	Minidoka/Palisades	29	-	3.000%	2008	1961	9	-	-
1328	Minidoka/Palisades	108	-	3.000%	2008	1962	9	-	-
1329	Minidoka/Palisades	28	-	3.000%	2008	1962	9	-	-
1330	Minidoka/Palisades	108	-	3.000%	2008	1963	9	-	-
1331	Minidoka/Palisades	29	-	3.000%	2008	1963	9	-	-
1332	Minidoka/Palisades	108	-	3.000%	2008	1964	9	-	-
1333	Minidoka/Palisades	28	-	3.000%	2008	1964	9	-	-
1334	Minidoka/Palisades	108	-	3.000%	2008	1965	9	-	-
1335	Minidoka/Palisades	29	-	3.000%	2008	1965	9	-	-
1336	Minidoka/Palisades	108	-	3.000%	2008	1966	9	-	-
1337	Minidoka/Palisades	29	-	3.000%	2008	1966	9	-	-
1338	Minidoka/Palisades	108	-	3.000%	2008	1967	9	-	-
1339	Minidoka/Palisades	28	-	3.000%	2008	1967	9	-	-
1340	Minidoka/Palisades	108	-	3.000%	2008	1968	9	-	-
1341	Minidoka/Palisades	29	-	3.000%	2008	1968	9	-	-
1342	Minidoka/Palisades	3	-	3.000%	2008	1969	9	-	-
1343	Minidoka/Palisades	28	-	3.000%	2008	1969	9	-	-
1344	Minidoka/Palisades	108	-	3.000%	2008	1970	9	-	-
1345	Minidoka/Palisades	29	-	3.000%	2008	1970	9	-	-
1346	Minidoka/Palisades	108	-	3.000%	2008	1971	9	-	-
1347	Minidoka/Palisades	29	-	3.000%	2008	1971	9	-	-
1348	Minidoka/Palisades	108	-	3.000%	2008	1972	9	-	-
1349	Minidoka/Palisades	28	-	3.000%	2008	1972	9	-	-
1350	Minidoka/Palisades	108	-	3.000%	2008	1973	9	-	-
1351	Minidoka/Palisades	29	-	3.000%	2008	1973	9	-	-
1352	Minidoka/Palisades	108	-	3.000%	2008	1974	9	-	-
1353	Minidoka/Palisades	28	-	3.000%	2008	1974	9	-	-
1354	Minidoka/Palisades	108	-	3.000%	2008	1975	9	-	-
1355	Minidoka/Palisades	29	-	3.000%	2008	1975	9	-	-
1356	Minidoka/Palisades	108	-	3.000%	2008	1976	9	-	-
1357	Minidoka/Palisades	29	-	3.000%	2008	1976	9	-	-
1358	Minidoka/Palisades	83	-	7.020%	2008	1977	9	-	-
1359	Minidoka/Palisades	28	-	7.020%	2008	1977	9	-	-
1360	Minidoka/Palisades	75	-	7.020%	2008	1978	9	-	-
1361	Minidoka/Palisades	20	-	7.020%	2008	1978	9	-	-
1362	Minidoka/Palisades	75	-	7.020%	2008	1979	9	-	-
1363	Minidoka/Palisades	19	-	7.020%	2008	1979	9	-	-
1364	Minidoka/Palisades	75	-	7.020%	2008	1980	9	-	-
1365	Minidoka/Palisades	20	-	7.020%	2008	1980	9	-	-
1366	Minidoka/Palisades	75	-	7.020%	2008	1981	9	-	-
1367	Minidoka/Palisades	20	-	7.020%	2008	1981	9	-	-
1368	Minidoka/Palisades	75	-	7.020%	2008	1982	9	-	-
1369	Minidoka/Palisades	19	-	7.020%	2008	1982	9	-	-
1370	Minidoka/Palisades	65	-	7.020%	2008	1983	9	-	-
1371	Minidoka/Palisades	20	-	7.020%	2008	1983	9	-	-
1372	Minidoka/Palisades	44	-	10.075%	2008	1984	9	-	-
1373	Minidoka/Palisades	11	-	10.075%	2008	1984	9	-	-
1374	Minidoka/Palisades	21	-	7.020%	2008	1985	9	-	-
1375	Minidoka/Palisades	21	-	7.020%	2008	1986	9	-	-
1376	Minidoka/Palisades	48	-	11.375%	2008	1986	9	-	-
1377	Minidoka/Palisades	16	-	7.020%	2008	1987	9	-	-
1378	Minidoka/Palisades	31	-	8.500%	2008	1988	9	-	-
1379	Minidoka/Palisades	20	-	9.250%	2008	1989	9	-	-
1380	Minidoka/Palisades	33	-	8.875%	2008	1990	9	-	-

TABLE 11A: HISTORICAL INVESTMENTS
October 1, 2010 - September 30, 2012 Cost Evaluation period
(\$000s) (FY 2012)

	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
1381	Minidoka/Palisades	62	-	8.750%	2008	1991	9	-	-
1382	Minidoka/Palisades	11	-	8.750%	2008	1991	9	-	-
1383	Minidoka/Palisades	32	-	8.750%	2008	1991	9	-	-
1384	Minidoka/Palisades	6	-	8.500%	2008	1992	9	-	-
1385	Minidoka/Palisades	351	-	7.125%	2029	1994	9	-	-
1386	Minidoka/Palisades	6	-	7.330%	2000	1995	9	-	-
1387	Minidoka/Palisades	40	-	7.890%	2010	1995	9	-	-
1388	Minidoka/Palisades	54	-	7.130%	2011	1996	9	-	-
1389	Minidoka/Palisades	66	-	6.950%	2007	1997	9	-	-
1390	Minidoka/Palisades	50,911	50,911	7.150%	2047	1997	9	-	-
1391	Minidoka/Palisades	42	42	5.875%	2051	2001	9	-	-
1392	Rogue River Projects - Green Springs	11,145	11,145	5.875%	2051	2001	9	-	-
1393	The Dalles	15,908	-	2.500%	2007	1957	9	-	-
1394	The Dalles	45,837	-	7.020%	2008	1958	9	-	-
1395	The Dalles	40,415	-	7.060%	2009	1959	9	-	-
1396	The Dalles	39,179	-	7.090%	2010	1960	9	-	-
1397	The Dalles	9,492	-	7.130%	2011	1961	9	-	-
1398	The Dalles	56	-	7.130%	2011	1962	9	-	-
1399	The Dalles	57	-	7.130%	2011	1963	9	-	-
1400	The Dalles	57	-	7.130%	2011	1964	9	-	-
1401	The Dalles	56	-	7.130%	2011	1965	9	-	-
1402	The Dalles	57	-	7.130%	2011	1966	9	-	-
1403	The Dalles	57	-	7.130%	2011	1967	9	-	-
1404	The Dalles	56	-	7.130%	2011	1968	9	-	-
1405	The Dalles	57	-	7.130%	2011	1969	9	-	-
1406	The Dalles	57	-	7.130%	2011	1970	9	-	-
1407	The Dalles	56	-	7.130%	2011	1971	9	-	-
1408	The Dalles	57	-	7.130%	2011	1972	9	-	-
1409	The Dalles	57	-	7.130%	2011	1973	9	-	-
1410	The Dalles	21,983	21,983	7.190%	2023	1973	9	-	-
1411	The Dalles	56	-	7.130%	2011	1974	9	-	-
1412	The Dalles	7,268	7,268	7.170%	2024	1974	9	-	-
1413	The Dalles	57	-	7.130%	2011	1975	9	-	-
1414	The Dalles	57	-	7.130%	2011	1976	9	-	-
1415	The Dalles	56	-	7.130%	2011	1977	9	-	-
1416	The Dalles	57	-	7.130%	2011	1978	9	-	-
1417	The Dalles	57	-	7.130%	2011	1979	9	-	-
1418	The Dalles	56	-	7.130%	2011	1980	9	-	-
1419	The Dalles	57	-	7.130%	2011	1981	9	-	-
1420	The Dalles	57	-	7.130%	2011	1982	9	-	-
1421	The Dalles	56	-	7.130%	2011	1983	9	-	-
1422	The Dalles	961	-	10.750%	2011	1984	9	-	-
1423	The Dalles	95	-	7.130%	2011	1985	9	-	-
1424	The Dalles	280	-	12.375%	2011	1985	9	-	-
1425	The Dalles	95	-	7.130%	2011	1986	9	-	-
1426	The Dalles	4	-	11.375%	2011	1986	9	-	-
1427	The Dalles	1,417	-	7.130%	2011	1987	9	-	-
1428	The Dalles	81	-	8.875%	2011	1987	9	-	-
1429	The Dalles	685	-	8.500%	2011	1988	9	-	-
1430	The Dalles	1	-	8.500%	2011	1988	9	-	-
1431	The Dalles	898	-	9.250%	2011	1989	9	-	-
1432	The Dalles	319	-	8.875%	2011	1990	9	-	-
1433	The Dalles	745	-	8.875%	2011	1990	9	-	-
1434	The Dalles	89	-	8.750%	2011	1991	9	-	-
1435	The Dalles	2,452	-	8.750%	2011	1991	9	-	-
1436	The Dalles	57	-	8.500%	2011	1992	9	-	-
1437	The Dalles	130	-	8.500%	2011	1992	9	-	-
1438	The Dalles	2,028	-	7.875%	2011	1993	9	-	-
1439	The Dalles	2,929	-	7.875%	2011	1993	9	-	-
1440	The Dalles	1,425	-	7.125%	2029	1994	9	-	-
1441	The Dalles	196	-	7.020%	2008	1996	9	-	-
1442	The Dalles	457	-	7.130%	2011	1996	9	-	-
1443	The Dalles	1,991	1,991	7.150%	2046	1996	9	-	-
1444	The Dalles	2,588	2,588	6.125%	2050	2000	9	-	-
1445	The Dalles	1,226	1,226	5.500%	2052	2002	9	-	-
1446	The Dalles	182	182	5.375%	2054	2004	9	-	-
1447	The Dalles	36,019	36,019	5.125%	2055	2005	9	-	-
1448	The Dalles	2,030	2,030	4.500%	2056	2006	9	-	-
1449	The Dalles	140	140	5.000%	2057	2007	9	-	-

TABLE 11A: HISTORICAL INVESTMENTS
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(\$000s) (FY 2012)

	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
1450	The Dalles	1,652	1,652	4.875%	2058	2008	9	-	-
1451	Yakima Chandler/Kenniwick	1,068	-	7.210%	2022	1956	9	-	-
1452	Yakima Chandler/Kenniwick	481	-	7.210%	2022	1956	9	-	-
1453	Yakima Chandler/Kenniwick	1	-	7.210%	2022	1959	9	-	-
1454	Yakima Chandler/Kenniwick	1	-	7.210%	2022	1960	9	-	-
1455	Yakima Chandler/Kenniwick	1	-	7.210%	2022	1961	9	-	-
1456	Yakima Chandler/Kenniwick	35	-	10.750%	2022	1984	9	-	-
1457	Yakima Chandler/Kenniwick	10	-	10.750%	2022	1984	9	-	-
1458	Yakima Chandler/Kenniwick	357	-	12.375%	2022	1985	9	-	-
1459	Yakima Chandler/Kenniwick	439	-	7.210%	2022	1986	9	-	-
1460	Yakima Chandler/Kenniwick	7	-	11.375%	2022	1986	9	-	-
1461	Yakima Chandler/Kenniwick	126	-	8.875%	2022	1987	9	-	-
1462	Yakima Chandler/Kenniwick	18	-	9.250%	2022	1989	9	-	-
1463	Yakima Chandler/Kenniwick	40	-	8.875%	2022	1990	9	-	-
1464	Yakima Chandler/Kenniwick	109	-	8.750%	2022	1991	9	-	-
1465	Yakima Chandler/Kenniwick	833	833	5.125%	2055	2005	9	-	-
1466	Yakima Chandler/Kenniwick	15	15	4.375%	2059	2009	9	-	-
1467	Yakima Roza	1,194	-	7.020%	2008	1958	9	-	-
1468	Yakima Roza	383	-	7.020%	2008	1958	9	-	-
1469	Yakima Roza	17	-	10.750%	2008	1984	9	-	-
1470	Yakima Roza	5	-	10.750%	2008	1984	9	-	-
1471	Yakima Roza	69	-	7.020%	2008	1985	9	-	-
1472	Yakima Roza	5	-	12.375%	2008	1985	9	-	-
1473	Yakima Roza	6	-	7.020%	2008	1986	9	-	-
1474	Yakima Roza	2	-	7.020%	2008	1987	9	-	-
1475	Yakima Roza	9	-	8.875%	2008	1987	9	-	-
1476	Yakima Roza	15	14	5.875%	2051	2001	9	-	-
1477	Bureau Direct	35,000	-	7.500%	2015	1995	5	-	-
1478	Bureau Direct	50,000	-	6.500%	2000	1997	5	-	-
1479	Bureau Direct	25,000	-	6.000%	2008	1998	4	-	-
1480	Bureau Direct	20,000	-	6.400%	2004	1999	9	-	-
1481	Bureau Direct	40,000	-	6.850%	2003	2000	4	-	-
1482	Bureau Direct	20,000	-	6.700%	2005	2000	9	-	-
1483	Bureau Direct	50,000	-	4.750%	2004	2001	6	-	-
1484	Bureau Direct	30,000	-	4.600%	2005	2002	3	-	-
1485	Bureau Direct	20,000	-	3.050%	2006	2002	9	-	-
1486	Bureau Direct	40,000	-	2.400%	2006	2003	4	-	-
1487	Bureau Direct	25,000	-	2.400%	2006	2003	4	-	-
1488	Bureau Direct	30,000	-	2.300%	2006	2003	7	-	-
1489	Bureau Direct	25,000	-	2.500%	2006	2003	9	-	-
1490	Bureau Direct	40,000	-	3.050%	2007	2003	12	-	-
1491	Bureau Direct	25,000	-	2.500%	2007	2004	1	-	-
1492	Bureau Direct	35,000	-	2.950%	2007	2004	4	-	-
1493	Bureau Direct	30,000	-	3.100%	2007	2004	9	-	-
1494	Bureau Direct	25,000	-	3.450%	2007	2004	7	-	-
1495	Bureau Direct	20,000	-	3.500%	2008	2005	11	-	-
1496	Bureau Direct	20,000	-	3.600%	2008	2005	1	-	-
1497	Bureau Direct	30,000	-	3.950%	2008	2005	6	-	-
1498	Bureau Direct	25,000	-	4.250%	2008	2005	9	-	-
1499	Bureau Direct	25,000	-	5.050%	2009	2006	3	-	-
1500	Bureau Direct	45,000	-	5.350%	2009	2006	7	-	-
1501	Bureau Direct	15,000	-	4.950%	2009	2006	9	-	-
1502	Bureau Direct	35,000	-	5.100%	2010	2007	1	-	-
1503	Bureau Direct	30,000	-	4.800%	2010	2007	3	-	-
1504	Bureau Direct	30,000	-	5.350%	2010	2007	6	-	-
1505	Bureau Direct	25,000	-	-	2008	2008	5	-	-
1506	Bureau Direct	35,000	35,000	2.850%	2011	2008	1	-	-
1507	Bureau Direct	35,000	35,000	3.358%	2011	2008	5	-	-
1508	Bureau Direct	25,000	25,000	3.358%	2011	2008	5	-	-
1509	Bureau Direct	20,000	20,000	2.850%	2011	2008	1	-	-
1510	Bureau Direct	30,000	30,000	3.974%	2012	2008	6	-	-
1511	Bureau Direct	35,000	35,000	3.913%	2012	2008	7	-	-
1512	Bureau Direct	35,000	35,000	3.444%	2012	2008	9	-	-
1513	Bureau Direct	25,000	25,000	3.699%	2019	2009	9	-	-
1514	Bureau Direct	25,000	25,000	3.999%	2021	2009	1	-	-
1515	Bureau Direct	25,000	25,000	4.391%	2023	2009	4	-	-
1516	Bureau Direct	25,000	25,000	5.192%	2039	2009	6	-	-
1517	Bureau Direct	24,000	24,000	3.719%	2019	2010	10	-	-
1518	Bureau Direct	10,000	10,000	3.714%	2019	2010	1	-	-

TABLE 11A: HISTORICAL INVESTMENTS
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(\$000s) (FY 2012)

	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
1519	Bureau Direct	10,000	10,000	0.165%	2019	2010	2	-	-
1520	Bureau Direct	20,000	20,000	3.842%	2020	2010	10	-	-
1521	Bureau Direct	7,000	7,000	3.637%	2020	2010	11	-	-
1522	Bureau Direct	13,000	13,000	4.194%	2020	2010	12	-	-
1523	Bureau Direct	30,000	30,000	4.083%	2020	2010	3	-	-
1524	Bureau Direct	18,000	18,000	3.973%	2020	2010	4	-	-
1525	Bureau Direct	15,000	15,000	3.574%	2020	2010	5	-	-
1526	Bureau Direct	10,000	10,000	3.243%	2020	2010	6	-	-
1527	Bureau Direct	30,000	30,000	3.243%	2020	2010	6	-	-
1528	Bureau Direct	17,000	17,000	3.118%	2020	2010	7	-	-
1529	Bureau Direct	5,000	5,000	0.165%	2020	2010	8	-	-
1530	Bureau Direct	22,000	22,000	2.883%	2021	2010	9	-	-
1531	Conservation	140,000	-	12.200%	2003	1983	9	-	-
1532	Conservation	150,000	-	13.050%	2004	1984	9	-	-
1533	Conservation	50,000	-	10.150%	1990	1985	9	-	-
1534	Conservation	50,000	-	7.800%	1991	1986	3	-	-
1535	Conservation	50,000	-	8.150%	1996	1986	3	-	-
1536	Conservation	50,000	-	8.350%	1992	1987	6	-	-
1537	Conservation	75,000	-	9.300%	2007	1987	4	-	-
1538	Conservation	90,000	-	9.900%	2008	1988	4	-	-
1539	Conservation	66,000	-	8.600%	1995	1989	9	-	-
1540	Conservation	66,000	-	8.650%	2002	1989	9	-	-
1541	Conservation	40,000	-	8.550%	2009	1989	7	-	-
1542	Conservation	80,200	-	5.800%	1997	1992	7	-	-
1543	Conservation	100,000	-	7.140%	2007	1992	7	-	-
1544	Conservation	40,000	-	6.750%	2013	1993	8	-	-
1545	Conservation	50,000	-	7.400%	2013	1993	2	-	-
1546	Conservation	50,000	-	8.050%	2013	1993	10	-	-
1547	Conservation	50,000	-	7.100%	1998	1994	5	-	-
1548	Conservation	50,000	-	6.750%	2014	1994	1	-	-
1549	Conservation	85,000	-	7.500%	2015	1995	5	-	-
1550	Conservation	30,000	-	6.700%	2011	1996	1	-	-
1551	Conservation	40,000	-	7.200%	2017	1997	11	-	-
1552	Conservation	104,300	-	5.300%	2008	1998	9	-	-
1553	Conservation	37,700	-	6.000%	2009	1998	5	-	-
1554	Conservation	52,800	52,800	5.600%	2013	1998	9	-	-
1555	Conservation	32,000	-	6.950%	2003	2000	7	-	-
1556	Conservation	40,000	-	3.750%	2005	2002	6	-	-
1557	Conservation	30,000	-	2.950%	2008	2004	1	-	-
1558	Conservation	20,000	-	5.050%	2009	2006	3	-	-
1559	Conservation	20,000	-	5.350%	2010	2007	6	-	-
1560	Conservation	10,000	10,000	3.701%	2013	2008	9	-	-
1561	Conservation	15,000	15,000	2.746%	2014	2009	9	-	-
1562	Conservation	15,000	15,000	2.609%	2015	2010	1	-	-
1563	Conservation	20,000	20,000	2.677%	2015	2010	4	-	-
1564	Conservation	15,000	15,000	1.619%	2015	2010	8	-	-
1565	Conservation	10,000	10,000	1.534%	2015	2010	9	-	-
1566	Construction	38	-	8.350%	2033	1993	10	-	-

TABLE 11B: PROJECTED INVESTMENTS
October 1, 2010 - September 30, 2012 Cost Evaluation period
(\$000s) (FY 2012)

	A	B	C	D	E	F	G
	Project	Initial Principal	Current Principal	Interest Rate	Due Date	In Service Date	Month
1	Columbia River Fish Mitigation	205,834	205,834	3.750%	2061	2011	9
2	Columbia River Fish Mitigation	103,279	103,279	4.510%	2062	2012	9
3	Bureau Direct	20,000	20,000	4.210%	2035	2011	10
4	Bureau Direct	30,000	30,000	5.430%	2036	2011	6
5	Bureau Direct	35,000	35,000	5.530%	2037	2011	9
6	Bureau Direct	30,000	30,000	5.640%	2038	2011	8
7	Bureau Direct	35,000	35,000	5.040%	2039	2011	1
8	Bureau Direct	50,000	50,000	5.000%	2040	2011	2
9	Bureau Direct	211,051	211,051	6.010%	2057	2012	3
10	Conservation	40,000	40,000	4.050%	2023	2011	1
11	Conservation	35,000	35,000	3.930%	2023	2011	4
12	Conservation	15,000	15,000	4.020%	2023	2011	9
13	Conservation	104,000	104,000	4.660%	2024	2012	3
14	Construction	14,000	14,000	2.600%	2016	2011	9
15	Construction	21,399	21,399	3.890%	2018	2012	3
16	Fish and Wildlife	50,000	50,000	4.440%	2026	2011	1
17	Fish and Wildlife	25,000	25,000	4.340%	2026	2011	8
18	Fish and Wildlife	15,000	15,000	4.400%	2026	2011	2
19	Fish and Wildlife	50,000	50,000	4.880%	2027	2012	3
20	Totals:	1,588,324	1,588,324				

12. REPAYMENT STUDY RESULTS, FY 2012 STUDY

TABLE 12A: Interest Calculation Summary
October 1, 2010 - September 30, 2012 Cost Evaluation Period
(\$000s) (FY 2012)

	A	B	D	E	F	G	H	
	Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total
1	2011	Albeni Falls	Historical	3,090	6.744%	208	-	208
2	2011	Boise	Historical	4,425	6.657%	295	-	295
3	2011	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
4	2011	Bonneville Dam	Historical	139,071	5.638%	7,840	-	7,840
5	2011	Chief Joseph	Historical	238,215	6.818%	16,242	-	16,242
6	2011	Columbia Basin	Historical	93,409	5.806%	5,423	-	5,423
7	2011	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
8	2011	Columbia River Fish Mitigation	Historical	915,121	4.892%	44,763	-	44,763
9	2011	Cougar	Historical	52,463	5.188%	2,722	-	2,722
10	2011	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
11	2011	Dworshak	Historical	127,604	7.095%	9,053	-	9,053
12	2011	Green Peter/Foster	Historical	227	6.011%	14	-	14
13	2011	Hills Creek	Historical	7,976	6.805%	543	-	543
14	2011	Hungry Horse Dam	Historical	12,766	6.373%	814	-	814
15	2011	Ice Harbor	Historical	35,286	6.388%	2,254	-	2,254
16	2011	John Day	Historical	32,793	6.312%	2,070	-	2,070
17	2011	Libby	Historical	235,541	7.106%	16,738	-	16,738
18	2011	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
19	2011	Lookout Dam	Historical	13,232	5.516%	730	-	730
20	2011	Lost Creek	Historical	14,096	7.136%	1,006	-	1,006
21	2011	Lower Granite	Historical	177,491	7.009%	12,441	-	12,441
22	2011	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
23	2011	Lower Snake Fish and Wildlife	Historical	232,396	7.109%	16,521	-	16,521
24	2011	McNary	Historical	13,142	5.265%	692	-	692
25	2011	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
26	2011	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
27	2011	The Dalles	Historical	75,078	6.000%	4,505	-	4,505
28	2011	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
29	2011	Yakima Roza	Historical	14	5.892%	1	-	1
30	2011	Bureau Direct	Historical	546,000	3.565%	19,464	-	19,464
31	2011	Bureau Direct	New	165,000	2.397%	3,954	-	3,954
32	2011	Conservation	Historical	137,800	3.673%	5,062	-	5,062
33	2011	Conservation	New	75,000	2.204%	1,653	-	1,653
34	2011	Construction	Historical	47,450	2.525%	1,198	-	1,198
35	2011	Fish and Wildlife	Historical	166,000	4.691%	7,787	-	7,787
36	2011	Fish and Wildlife	New	90,000	2.173%	1,955	-	1,955
37	2011	Float	Historical	-	-	(4,373)	-	(4,373)
38	FY 2011	Subtotal:		4,654,214		252,803		252,803
39	2012	Albeni Falls	Historical	3,090	6.744%	208	-	208
40	2012	Boise	Historical	4,425	6.657%	295	-	295
41	2012	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
42	2012	Bonneville Dam	Historical	139,071	5.638%	7,840	-	7,840
43	2012	Chief Joseph	Historical	238,215	6.818%	16,242	-	16,242
44	2012	Columbia Basin	Historical	93,409	5.806%	5,423	-	5,423
45	2012	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
46	2012	Columbia River Fish Mitigation	Historical	1,120,955	4.682%	52,482	-	52,482
47	2012	Cougar	Historical	52,463	5.188%	2,722	-	2,722
48	2012	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
49	2012	Dworshak	Historical	121,052	7.090%	8,582	-	8,582
50	2012	Green Peter/Foster	Historical	227	6.011%	14	-	14
51	2012	Hills Creek	Historical	7,976	6.805%	543	-	543
52	2012	Hungry Horse Dam	Historical	12,766	6.373%	814	-	814
53	2012	Ice Harbor	Historical	35,286	6.388%	2,254	-	2,254
54	2012	John Day	Historical	23,956	5.981%	1,433	-	1,433
55	2012	Libby	Historical	235,541	7.106%	16,738	-	16,738
56	2012	Little Goose	Historical	63,762	6.911%	4,406	-	4,406
57	2012	Lookout Dam	Historical	13,232	5.516%	730	-	730
58	2012	Lost Creek	Historical	14,096	7.136%	1,006	-	1,006
59	2012	Lower Granite	Historical	177,491	7.009%	12,441	-	12,441
60	2012	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
61	2012	Lower Snake Fish and Wildlife	Historical	232,396	7.109%	16,521	-	16,521
62	2012	McNary	Historical	13,142	5.265%	692	-	692
63	2012	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
64	2012	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
65	2012	The Dalles	Historical	63,332	5.779%	3,660	-	3,660
66	2012	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
67	2012	Yakima Roza	Historical	14	5.892%	1	-	1
68	2012	Bureau Direct	Historical	631,000	4.159%	26,244	-	26,244
69	2012	Bureau Direct	New	211,051	3.005%	6,342	-	6,342
70	2012	Conservation	Historical	227,800	3.802%	8,660	-	8,660
71	2012	Conservation	New	104,000	2.330%	2,423	-	2,423
72	2012	Construction	Historical	61,450	2.542%	1,562	-	1,562
73	2012	Construction	New	21,399	1.945%	416	-	416
74	2012	Fish and Wildlife	Historical	236,000	4.581%	10,812	-	10,812
75	2012	Fish and Wildlife	New	50,000	2.440%	1,220	-	1,220
76	2012	Float	Historical	-	-	(7,755)	-	(7,755)
77	FY 2012	Subtotal:		5,148,335		271,791		271,791
78	2013	Albeni Falls	Historical	3,090	6.744%	208	-	208
79	2013	Boise	Historical	4,425	6.657%	295	-	295
80	2013	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
81	2013	Bonneville Dam	Historical	139,071	5.638%	7,840	-	7,840
82	2013	Chief Joseph	Historical	238,215	6.818%	16,242	-	16,242
83	2013	Columbia Basin	Historical	93,409	5.806%	5,423	-	5,423
84	2013	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
85	2013	Columbia River Fish Mitigation	Historical	1,224,234	4.667%	57,140	-	57,140
86	2013	Cougar	Historical	52,463	5.188%	2,722	-	2,722
87	2013	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
88	2013	Dworshak	Historical	83,553	7.045%	5,886	-	5,886

TABLE 12A: Interest Calculation Summary
October 1, 2010 - September 30, 2012 Cost Evaluation Period
(\$000s) (FY 2012)

A		B		D	E	F	G	H
Fiscal Year		Project	Type	Principal	Rate	Interest	Premium	Total
89	2013	Green Peter/Foster	Historical	227	6.011%	14	-	14
90	2013	Hills Creek	Historical	2,713	6.118%	166	-	166
91	2013	Hungry Horse Dam	Historical	12,766	6.373%	814	-	814
92	2013	Ice Harbor	Historical	35,285	6.388%	2,254	-	2,254
93	2013	John Day	Historical	23,956	5.981%	1,433	-	1,433
94	2013	Libby	Historical	235,541	7.106%	16,738	-	16,738
95	2013	Little Goose	Historical	63,762	6.911%	4,406	-	4,406
96	2013	Lookout Dam	Historical	13,232	5.516%	730	-	730
97	2013	Lost Creek	Historical	14,096	7.136%	1,006	-	1,006
98	2013	Lower Granite	Historical	177,491	7.009%	12,441	-	12,441
99	2013	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
100	2013	Lower Snake Fish and Wildlife	Historical	232,396	7.109%	16,521	-	16,521
101	2013	McNary	Historical	13,142	5.265%	692	-	692
102	2013	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
103	2013	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
104	2013	The Dalles	Historical	53,095	5.507%	2,924	-	2,924
105	2013	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
106	2013	Yakima Roza	Historical	14	5.892%	1	-	1
107	2013	Bureau Direct	Historical	742,051	4.738%	35,162	-	35,162
108	2013	Conservation	Historical	331,800	4.071%	13,507	-	13,507
109	2013	Construction	Historical	62,849	2.753%	1,730	-	1,730
110	2013	Fish and Wildlife	Historical	266,000	4.723%	12,563	-	12,563
111	2013	Float	Historical	-	-	(6,666)	-	(6,666)
112	FY 2013	Subtotal:		5,058,614		279,010		279,010
113	2014	Albeni Falls	Historical	173,524	6.023%	10,451	-	10,451
114	2014	Boise	Historical	4,425	6.657%	295	-	295
115	2014	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
116	2014	Bonneville Dam	Historical	139,071	5.638%	7,840	-	7,840
117	2014	Chief Joseph	Historical	238,215	6.818%	16,242	-	16,242
118	2014	Columbia Basin	Historical	93,409	5.806%	5,423	-	5,423
119	2014	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
120	2014	Columbia River Fish Mitigation	Historical	1,224,234	4.667%	57,140	-	57,140
121	2014	Cougar	Historical	52,463	5.188%	2,722	-	2,722
122	2014	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
123	2014	Dworshak	Historical	83,553	7.045%	5,886	-	5,886
124	2014	Green Peter/Foster	Historical	227	6.011%	14	-	14
125	2014	Hills Creek	Historical	2,713	6.118%	166	-	166
126	2014	Hungry Horse Dam	Historical	12,766	6.373%	814	-	814
127	2014	Ice Harbor	Historical	35,285	6.388%	2,254	-	2,254
128	2014	John Day	Historical	23,956	5.981%	1,433	-	1,433
129	2014	Libby	Historical	235,541	7.106%	16,738	-	16,738
130	2014	Little Goose	Historical	63,762	6.911%	4,406	-	4,406
131	2014	Lookout Dam	Historical	13,232	5.516%	730	-	730
132	2014	Lost Creek	Historical	14,096	7.136%	1,006	-	1,006
133	2014	Lower Granite	Historical	177,491	7.009%	12,441	-	12,441
134	2014	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
135	2014	Lower Snake Fish and Wildlife	Historical	232,396	7.109%	16,521	-	16,521
136	2014	McNary	Historical	13,142	5.265%	692	-	692
137	2014	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
138	2014	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
139	2014	The Dalles	Historical	53,095	5.507%	2,924	-	2,924
140	2014	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
141	2014	Yakima Roza	Historical	14	5.892%	1	-	1
142	2014	Bureau Direct	Historical	742,051	4.738%	35,162	-	35,162
143	2014	Conservation	Historical	269,000	3.784%	10,180	-	10,180
144	2014	Construction	Historical	62,849	2.753%	1,730	-	1,730
145	2014	Fish and Wildlife	Historical	206,000	4.322%	8,903	-	8,903
146	2014	Float	Historical	-	-	(6,054)	-	(6,054)
147	FY 2014	Subtotal:		5,106,248		282,878		282,878
148	2015	Albeni Falls	Historical	342,394	6.017%	20,601	-	20,601
149	2015	Boise	Historical	4,425	6.657%	295	-	295
150	2015	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
151	2015	Bonneville Dam	Historical	139,071	5.638%	7,840	-	7,840
152	2015	Chief Joseph	Historical	238,215	6.818%	16,242	-	16,242
153	2015	Columbia Basin	Historical	93,409	5.806%	5,423	-	5,423
154	2015	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
155	2015	Columbia River Fish Mitigation	Historical	1,224,234	4.667%	57,140	-	57,140
156	2015	Cougar	Historical	52,463	5.188%	2,722	-	2,722
157	2015	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
158	2015	Dworshak	Historical	32,047	6.811%	2,183	-	2,183
159	2015	Green Peter/Foster	Historical	227	6.011%	14	-	14
160	2015	Hills Creek	Historical	2,713	6.118%	166	-	166
161	2015	Hungry Horse Dam	Historical	12,766	6.373%	814	-	814
162	2015	Ice Harbor	Historical	35,285	6.388%	2,254	-	2,254
163	2015	John Day	Historical	23,956	5.981%	1,433	-	1,433
164	2015	Libby	Historical	235,541	7.106%	16,738	-	16,738
165	2015	Little Goose	Historical	63,762	6.911%	4,406	-	4,406
166	2015	Lookout Dam	Historical	13,232	5.516%	730	-	730
167	2015	Lost Creek	Historical	14,096	7.136%	1,006	-	1,006
168	2015	Lower Granite	Historical	177,491	7.009%	12,441	-	12,441
169	2015	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
170	2015	Lower Snake Fish and Wildlife	Historical	232,396	7.109%	16,521	-	16,521
171	2015	McNary	Historical	13,142	5.265%	692	-	692
172	2015	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
173	2015	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
174	2015	The Dalles	Historical	53,095	5.507%	2,924	-	2,924
175	2015	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43

TABLE 12A: Interest Calculation Summary
October 1, 2010 - September 30, 2012 Cost Evaluation Period
(\$000s) (FY 2012)

A		B		D	E	F	G	H
Fiscal Year		Project	Type	Principal	Rate	Interest	Premium	Total
176	2015	Yakima Roza	Historical	14	5.892%	1	-	1
177	2015	Bureau Direct	Historical	742,051	4.738%	35,162	-	35,162
178	2015	Conservation	Historical	254,000	3.846%	9,768	-	9,768
179	2015	Construction	Historical	47,899	2.693%	1,290	-	1,290
180	2015	Fish and Wildlife	Historical	206,000	4.322%	8,903	-	8,903
181	2015	Float	Historical	-	-	(6,746)	-	(6,746)
182	FY 2015	Subtotal:		5,193,661		287,780		287,780
183	2016	Albeni Falls	Historical	510,464	6.014%	30,702	-	30,702
184	2016	Boise	Historical	4,425	6.657%	295	-	295
185	2016	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
186	2016	Bonneville Dam	Historical	139,071	5.638%	7,840	-	7,840
187	2016	Chief Joseph	Historical	238,215	6.818%	16,242	-	16,242
188	2016	Columbia Basin	Historical	93,409	5.806%	5,423	-	5,423
189	2016	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
190	2016	Columbia River Fish Mitigation	Historical	1,224,234	4.667%	57,140	-	57,140
191	2016	Cougar	Historical	52,463	5.188%	2,722	-	2,722
192	2016	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
193	2016	Dworshak	Historical	14,111	6.330%	893	-	893
194	2016	Green Peter/Foster	Historical	227	6.011%	14	-	14
195	2016	Hills Creek	Historical	2,713	6.118%	166	-	166
196	2016	Hungry Horse Dam	Historical	12,766	6.373%	814	-	814
197	2016	Ice Harbor	Historical	35,285	6.388%	2,254	-	2,254
198	2016	John Day	Historical	23,956	5.981%	1,433	-	1,433
199	2016	Libby	Historical	235,541	7.106%	16,738	-	16,738
200	2016	Little Goose	Historical	63,762	6.911%	4,406	-	4,406
201	2016	Lookout Dam	Historical	13,232	5.516%	730	-	730
202	2016	Lost Creek	Historical	14,096	7.136%	1,006	-	1,006
203	2016	Lower Granite	Historical	160,636	6.993%	11,234	-	11,234
204	2016	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
205	2016	Lower Snake Fish and Wildlife	Historical	232,396	7.109%	16,521	-	16,521
206	2016	McNary	Historical	13,142	5.265%	692	-	692
207	2016	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
208	2016	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
209	2016	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
210	2016	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
211	2016	Yakima Roza	Historical	14	5.892%	1	-	1
212	2016	Bureau Direct	Historical	742,051	4.738%	35,162	-	35,162
213	2016	Conservation	Historical	194,000	4.353%	8,445	-	8,445
214	2016	Construction	Historical	35,399	3.380%	1,196	-	1,196
215	2016	Fish and Wildlife	Historical	206,000	4.322%	8,903	-	8,903
216	2016	Float	Historical	-	-	(6,513)	-	(6,513)
217	FY 2016	Subtotal:		5,247,173		293,680		293,680
218	2017	Albeni Falls	Historical	673,805	6.013%	40,518	-	40,518
219	2017	Boise	Historical	4,425	6.657%	295	-	295
220	2017	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
221	2017	Bonneville Dam	Historical	139,071	5.638%	7,840	-	7,840
222	2017	Chief Joseph	Historical	238,215	6.818%	16,242	-	16,242
223	2017	Columbia Basin	Historical	93,409	5.806%	5,423	-	5,423
224	2017	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
225	2017	Columbia River Fish Mitigation	Historical	1,224,234	4.667%	57,140	-	57,140
226	2017	Cougar	Historical	52,463	5.188%	2,722	-	2,722
227	2017	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
228	2017	Dworshak	Historical	14,111	6.330%	893	-	893
229	2017	Green Peter/Foster	Historical	227	6.011%	14	-	14
230	2017	Hills Creek	Historical	2,713	6.118%	166	-	166
231	2017	Hungry Horse Dam	Historical	12,766	6.373%	814	-	814
232	2017	Ice Harbor	Historical	35,285	6.388%	2,254	-	2,254
233	2017	John Day	Historical	23,956	5.981%	1,433	-	1,433
234	2017	Libby	Historical	235,541	7.106%	16,738	-	16,738
235	2017	Little Goose	Historical	63,762	6.911%	4,406	-	4,406
236	2017	Lookout Dam	Historical	13,232	5.516%	730	-	730
237	2017	Lost Creek	Historical	14,096	7.136%	1,006	-	1,006
238	2017	Lower Granite	Historical	79,622	6.824%	5,433	-	5,433
239	2017	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
240	2017	Lower Snake Fish and Wildlife	Historical	232,396	7.109%	16,521	-	16,521
241	2017	McNary	Historical	13,142	5.265%	692	-	692
242	2017	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
243	2017	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
244	2017	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
245	2017	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
246	2017	Yakima Roza	Historical	14	5.892%	1	-	1
247	2017	Bureau Direct	Historical	742,051	4.738%	35,162	-	35,162
248	2017	Conservation	Historical	194,000	4.353%	8,445	-	8,445
249	2017	Construction	Historical	21,399	3.890%	832	-	832
250	2017	Fish and Wildlife	Historical	206,000	4.322%	8,903	-	8,903
251	2017	Float	Historical	-	-	(6,756)	-	(6,756)
252	FY 2017	Subtotal:		5,315,500		297,089		297,089
253	2018	Albeni Falls	Historical	838,832	6.013%	50,437	-	50,437
254	2018	Boise	Historical	4,425	6.657%	295	-	295
255	2018	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
256	2018	Bonneville Dam	Historical	139,071	5.638%	7,840	-	7,840
257	2018	Chief Joseph	Historical	238,215	6.818%	16,242	-	16,242
258	2018	Columbia Basin	Historical	93,409	5.806%	5,423	-	5,423
259	2018	Columbia Basin 3rd Powerhouse	Historical	423,111	7.150%	30,254	-	30,254
260	2018	Columbia River Fish Mitigation	Historical	1,224,234	4.667%	57,140	-	57,140
261	2018	Cougar	Historical	52,463	5.188%	2,722	-	2,722
262	2018	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85

TABLE 12A: Interest Calculation Summary
October 1, 2010 - September 30, 2012 Cost Evaluation Period
(\$000s) (FY 2012)

	A	B	D	E	F	G	H	
	Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total
263	2018	Dworshak	Historical	14,111	6.330%	893	-	893
264	2018	Green Peter/Foster	Historical	227	6.011%	14	-	14
265	2018	Hills Creek	Historical	2,713	6.118%	166	-	166
266	2018	Hungry Horse Dam	Historical	12,766	6.373%	814	-	814
267	2018	Ice Harbor	Historical	35,285	6.388%	2,254	-	2,254
268	2018	John Day	Historical	23,956	5.981%	1,433	-	1,433
269	2018	Libby	Historical	187,403	7.093%	13,292	-	13,292
270	2018	Little Goose	Historical	63,762	6.911%	4,406	-	4,406
271	2018	Lookout Dam	Historical	13,232	5.516%	730	-	730
272	2018	Lost Creek	Historical	14,096	7.136%	1,006	-	1,006
273	2018	Lower Granite	Historical	55,119	6.674%	3,679	-	3,679
274	2018	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
275	2018	Lower Snake Fish and Wildlife	Historical	232,396	7.109%	16,521	-	16,521
276	2018	McNary	Historical	13,142	5.265%	692	-	692
277	2018	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
278	2018	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
279	2018	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
280	2018	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
281	2018	Yakima Roza	Historical	14	5.892%	1	-	1
282	2018	Bureau Direct	Historical	742,051	4.738%	35,162	-	35,162
283	2018	Conservation	Historical	194,000	4.353%	8,445	-	8,445
284	2018	Construction	Historical	21,399	3.890%	832	-	832
285	2018	Fish and Wildlife	Historical	206,000	4.322%	8,903	-	8,903
286	2018	Float	Historical	-	-	(7,670)	-	(7,670)
287	FY 2018	Subtotal:		5,375,608		298,581		298,581
288	2019	Albeni Falls	Historical	995,577	6.012%	59,857	-	59,857
289	2019	Boise	Historical	4,425	6.657%	295	-	295
290	2019	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
291	2019	Bonneville Dam	Historical	139,071	5.638%	7,840	-	7,840
292	2019	Chief Joseph	Historical	238,215	6.818%	16,242	-	16,242
293	2019	Columbia Basin	Historical	93,337	5.805%	5,418	-	5,418
294	2019	Columbia Basin 3rd Powerhouse	Historical	411,264	7.150%	29,405	-	29,405
295	2019	Columbia River Fish Mitigation	Historical	1,224,234	4.667%	57,140	-	57,140
296	2019	Cougar	Historical	52,463	5.188%	2,722	-	2,722
297	2019	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
298	2019	Dworshak	Historical	14,111	6.330%	893	-	893
299	2019	Green Peter/Foster	Historical	227	6.011%	14	-	14
300	2019	Hills Creek	Historical	2,713	6.118%	166	-	166
301	2019	Hungry Horse Dam	Historical	12,766	6.373%	814	-	814
302	2019	Ice Harbor	Historical	35,264	6.388%	2,253	-	2,253
303	2019	John Day	Historical	23,956	5.981%	1,433	-	1,433
304	2019	Libby	Historical	66,889	6.989%	4,675	-	4,675
305	2019	Little Goose	Historical	63,762	6.911%	4,406	-	4,406
306	2019	Lookout Dam	Historical	13,232	5.516%	730	-	730
307	2019	Lost Creek	Historical	14,096	7.136%	1,006	-	1,006
308	2019	Lower Granite	Historical	55,119	6.674%	3,679	-	3,679
309	2019	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
310	2019	Lower Snake Fish and Wildlife	Historical	232,396	7.109%	16,521	-	16,521
311	2019	McNary	Historical	12,791	5.213%	667	-	667
312	2019	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
313	2019	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
314	2019	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
315	2019	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
316	2019	Yakima Roza	Historical	14	5.892%	1	-	1
317	2019	Bureau Direct	Historical	742,051	4.738%	35,162	-	35,162
318	2019	Conservation	Historical	194,000	4.353%	8,445	-	8,445
319	2019	Fish and Wildlife	Historical	206,000	4.322%	8,903	-	8,903
320	2019	Float	Historical	-	-	(11,042)	-	(11,042)
321	FY 2019	Subtotal:		5,378,149		294,300		294,300
322	2020	Albeni Falls	Historical	1,152,253	6.012%	69,273	-	69,273
323	2020	Boise	Historical	4,425	6.657%	295	-	295
324	2020	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
325	2020	Bonneville Dam	Historical	123,401	5.446%	6,720	-	6,720
326	2020	Chief Joseph	Historical	207,703	6.769%	14,060	-	14,060
327	2020	Columbia Basin	Historical	93,337	5.805%	5,418	-	5,418
328	2020	Columbia Basin 3rd Powerhouse	Historical	311,169	7.150%	22,249	-	22,249
329	2020	Columbia River Fish Mitigation	Historical	1,224,234	4.667%	57,140	-	57,140
330	2020	Cougar	Historical	52,463	5.188%	2,722	-	2,722
331	2020	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
332	2020	Dworshak	Historical	14,111	6.330%	893	-	893
333	2020	Green Peter/Foster	Historical	227	6.011%	14	-	14
334	2020	Hills Creek	Historical	2,713	6.118%	166	-	166
335	2020	Hungry Horse Dam	Historical	12,766	6.373%	814	-	814
336	2020	Ice Harbor	Historical	14,564	5.304%	773	-	773
337	2020	John Day	Historical	23,956	5.981%	1,433	-	1,433
338	2020	Libby	Historical	22,912	6.680%	1,530	-	1,530
339	2020	Little Goose	Historical	63,715	6.911%	4,403	-	4,403
340	2020	Lookout Dam	Historical	13,232	5.516%	730	-	730
341	2020	Lost Creek	Historical	303	6.503%	20	-	20
342	2020	Lower Granite	Historical	49,489	6.620%	3,276	-	3,276
343	2020	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
344	2020	Lower Snake Fish and Wildlife	Historical	232,396	7.109%	16,521	-	16,521
345	2020	McNary	Historical	12,791	5.213%	667	-	667
346	2020	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
347	2020	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
348	2020	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
349	2020	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43

TABLE 12A: Interest Calculation Summary
October 1, 2010 - September 30, 2012 Cost Evaluation Period
(\$000s) (FY 2012)

A		B		D	E	F	G	H
Fiscal Year		Project	Type	Principal	Rate	Interest	Premium	Total
350	2020	Yakima Roza	Historical	14	5.892%	1	-	1
351	2020	Bureau Direct	Historical	673,051	4.897%	32,956	-	32,956
352	2020	Conservation	Historical	194,000	4.353%	8,445	-	8,445
353	2020	Fish and Wildlife	Historical	160,000	4.573%	7,316	-	7,316
354	2020	Float	Historical	-	-	(11,668)	-	(11,668)
355	FY 2020 Subtotal:			5,189,401		282,823		282,823
356	2021	Albeni Falls	Historical	1,308,905	6.012%	78,688	-	78,688
357	2021	Boise	Historical	4,425	6.657%	295	-	295
358	2021	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
359	2021	Bonneville Dam	Historical	123,401	5.446%	6,720	-	6,720
360	2021	Chief Joseph	Historical	119,493	6.489%	7,753	-	7,753
361	2021	Columbia Basin	Historical	93,337	5.805%	5,418	-	5,418
362	2021	Columbia Basin 3rd Powerhouse	Historical	260,874	7.150%	18,653	-	18,653
363	2021	Columbia River Fish Mitigation	Historical	1,224,234	4.667%	57,140	-	57,140
364	2021	Cougar	Historical	52,463	5.188%	2,722	-	2,722
365	2021	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
366	2021	Dworshak	Historical	14,111	6.330%	893	-	893
367	2021	Green Peter/Foster	Historical	227	6.011%	14	-	14
368	2021	Hills Creek	Historical	2,713	6.118%	166	-	166
369	2021	Hungry Horse Dam	Historical	12,766	6.373%	814	-	814
370	2021	Ice Harbor	Historical	14,564	5.304%	773	-	773
371	2021	John Day	Historical	23,956	5.981%	1,433	-	1,433
372	2021	Libby	Historical	22,760	6.677%	1,520	-	1,520
373	2021	Little Goose	Historical	14,165	6.073%	860	-	860
374	2021	Lookout Dam	Historical	13,232	5.516%	730	-	730
375	2021	Lost Creek	Historical	303	6.503%	20	-	20
376	2021	Lower Granite	Historical	12,957	5.126%	664	-	664
377	2021	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
378	2021	Lower Snake Fish and Wildlife	Historical	232,396	7.109%	16,521	-	16,521
379	2021	McNary	Historical	12,791	5.213%	667	-	667
380	2021	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
381	2021	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
382	2021	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
383	2021	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
384	2021	Yakima Roza	Historical	14	5.892%	1	-	1
385	2021	Bureau Direct	Historical	508,051	5.329%	27,076	-	27,076
386	2021	Conservation	Historical	194,000	4.353%	8,445	-	8,445
387	2021	Fish and Wildlife	Historical	160,000	4.573%	7,316	-	7,316
388	2021	Float	Historical	-	-	(11,896)	-	(11,896)
389	FY 2021 Subtotal:			4,956,313		270,061		270,061
390	2022	Albeni Falls	Historical	1,465,557	6.012%	88,103	-	88,103
391	2022	Boise	Historical	4,425	6.657%	295	-	295
392	2022	Bonneville 2nd Powerhouse	Historical	227,788	7.150%	16,287	-	16,287
393	2022	Bonneville Dam	Historical	122,861	5.438%	6,681	-	6,681
394	2022	Chief Joseph	Historical	37,537	5.045%	1,894	-	1,894
395	2022	Columbia Basin	Historical	92,977	5.799%	5,392	-	5,392
396	2022	Columbia Basin 3rd Powerhouse	Historical	161,090	7.150%	11,518	-	11,518
397	2022	Columbia River Fish Mitigation	Historical	1,224,234	4.667%	57,140	-	57,140
398	2022	Cougar	Historical	52,463	5.188%	2,722	-	2,722
399	2022	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
400	2022	Dworshak	Historical	13,684	6.304%	863	-	863
401	2022	Green Peter/Foster	Historical	227	6.011%	14	-	14
402	2022	Hills Creek	Historical	2,713	6.118%	166	-	166
403	2022	Hungry Horse Dam	Historical	11,035	6.251%	690	-	690
404	2022	Ice Harbor	Historical	14,486	5.294%	767	-	767
405	2022	John Day	Historical	23,956	5.981%	1,433	-	1,433
406	2022	Libby	Historical	22,610	6.674%	1,509	-	1,509
407	2022	Little Goose	Historical	14,165	6.073%	860	-	860
408	2022	Lookout Dam	Historical	13,232	5.516%	730	-	730
409	2022	Lost Creek	Historical	272	6.428%	18	-	18
410	2022	Lower Granite	Historical	12,751	5.093%	649	-	649
411	2022	Lower Monument	Historical	12,089	5.604%	677	-	677
412	2022	Lower Snake Fish and Wildlife	Historical	232,396	7.109%	16,521	-	16,521
413	2022	McNary	Historical	12,761	5.208%	665	-	665
414	2022	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
415	2022	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
416	2022	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
417	2022	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
418	2022	Yakima Roza	Historical	14	5.892%	1	-	1
419	2022	Bureau Direct	Historical	461,051	5.518%	25,442	-	25,442
420	2022	Conservation	Historical	194,000	4.353%	8,445	-	8,445
421	2022	Fish and Wildlife	Historical	160,000	4.573%	7,316	-	7,316
422	2022	Float	Historical	-	-	(11,736)	-	(11,736)
423	FY 2022 Subtotal:			4,700,740		251,888		251,888
424	2023	Albeni Falls	Historical	1,622,209	6.011%	97,517	-	97,517
425	2023	Boise	Historical	4,425	6.657%	295	-	295
426	2023	Bonneville 2nd Powerhouse	Historical	9,867	7.150%	705	-	705
427	2023	Bonneville Dam	Historical	122,861	5.438%	6,681	-	6,681
428	2023	Chief Joseph	Historical	37,537	5.045%	1,894	-	1,894
429	2023	Columbia Basin	Historical	92,977	5.799%	5,392	-	5,392
430	2023	Columbia Basin 3rd Powerhouse	Historical	12,631	7.150%	903	-	903
431	2023	Columbia River Fish Mitigation	Historical	1,224,234	4.667%	57,140	-	57,140
432	2023	Cougar	Historical	52,463	5.188%	2,722	-	2,722
433	2023	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
434	2023	Dworshak	Historical	13,684	6.304%	863	-	863
435	2023	Green Peter/Foster	Historical	227	6.011%	14	-	14
436	2023	Hills Creek	Historical	2,713	6.118%	166	-	166

TABLE 12A: Interest Calculation Summary
October 1, 2010 - September 30, 2012 Cost Evaluation Period
(\$000s) (FY 2012)

A		B		D	E	F	G	H
Fiscal Year		Project	Type	Principal	Rate	Interest	Premium	Total
437	2023	Hungry Horse Dam	Historical	11,035	6.251%	690	-	690
438	2023	Ice Harbor	Historical	14,486	5.294%	767	-	767
439	2023	John Day	Historical	23,761	5.971%	1,419	-	1,419
440	2023	Libby	Historical	22,610	6.674%	1,509	-	1,509
441	2023	Little Goose	Historical	14,165	6.073%	860	-	860
442	2023	Lookout Dam	Historical	13,232	5.516%	730	-	730
443	2023	Lost Creek	Historical	272	6.428%	18	-	18
444	2023	Lower Granite	Historical	12,751	5.093%	649	-	649
445	2023	Lower Monument	Historical	12,089	5.604%	677	-	677
446	2023	Lower Snake Fish and Wildlife	Historical	178,235	7.096%	12,648	-	12,648
447	2023	McNary	Historical	12,761	5.208%	665	-	665
448	2023	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
449	2023	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
450	2023	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
451	2023	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
452	2023	Yakima Roza	Historical	14	5.892%	1	-	1
453	2023	Bureau Direct	Historical	461,051	5.518%	25,442	-	25,442
454	2023	Conservation	Historical	194,000	4.353%	8,445	-	8,445
455	2023	Fish and Wildlife	Historical	160,000	4.573%	7,316	-	7,316
456	2023	Float	Historical	-	-	(11,758)	-	(11,758)
457	FY 2023	Subtotal:		4,436,655		231,199	-	231,199
458	2024	Albeni Falls	Historical	1,776,782	6.010%	106,784	-	106,784
459	2024	Boise	Historical	3,326	6.494%	216	-	216
460	2024	Bonneville Dam	Historical	119,105	5.384%	6,413	-	6,413
461	2024	Chief Joseph	Historical	30,224	4.535%	1,371	-	1,371
462	2024	Columbia Basin	Historical	89,443	5.746%	5,139	-	5,139
463	2024	Columbia River Fish Mitigation	Historical	1,182,521	4.580%	54,157	-	54,157
464	2024	Cougar	Historical	52,463	5.188%	2,722	-	2,722
465	2024	Detroit Lake/Big Cliff	Historical	1,554	5.265%	82	-	82
466	2024	Dworshak	Historical	12,469	6.222%	776	-	776
467	2024	Green Peter/Foster	Historical	201	5.863%	12	-	12
468	2024	Hills Creek	Historical	2,685	6.107%	164	-	164
469	2024	Hungry Horse Dam	Historical	4,828	5.094%	246	-	246
470	2024	Ice Harbor	Historical	14,115	5.245%	740	-	740
471	2024	John Day	Historical	15,463	5.338%	825	-	825
472	2024	Libby	Historical	7,829	5.774%	452	-	452
473	2024	Little Goose	Historical	8,064	5.259%	424	-	424
474	2024	Lookout Dam	Historical	13,160	5.507%	725	-	725
475	2024	Lost Creek	Historical	154	5.874%	9	-	9
476	2024	Lower Granite	Historical	12,117	4.986%	604	-	604
477	2024	Lower Monument	Historical	9,929	5.267%	523	-	523
478	2024	Lower Snake Fish and Wildlife	Historical	7,255	5.835%	423	-	423
479	2024	McNary	Historical	12,126	5.107%	619	-	619
480	2024	Minidoka/Palisades	Historical	19,000	7.147%	1,358	-	1,358
481	2024	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
482	2024	The Dalles	Historical	43,836	5.157%	2,261	-	2,261
483	2024	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
484	2024	Yakima Roza	Historical	14	5.892%	1	-	1
485	2024	Bureau Direct	Historical	436,051	5.583%	24,345	-	24,345
486	2024	Conservation	Historical	104,000	4.660%	4,846	-	4,846
487	2024	Fish and Wildlife	Historical	160,000	4.573%	7,316	-	7,316
488	2024	Float	Historical	-	-	(13,155)	-	(13,155)
489	FY 2024	Subtotal:		4,150,708		211,096	-	211,096
490	2025	Albeni Falls	Historical	1,642,952	6.010%	98,736	-	98,736
491	2025	Boise	Historical	1,060	5.091%	54	-	54
492	2025	Bonneville Dam	Historical	94,498	5.190%	4,904	-	4,904
493	2025	Chief Joseph	Historical	29,567	4.477%	1,324	-	1,324
494	2025	Columbia Basin	Historical	86,050	5.691%	4,897	-	4,897
495	2025	Columbia River Fish Mitigation	Historical	1,135,515	4.516%	51,278	-	51,278
496	2025	Cougar	Historical	52,437	5.187%	2,720	-	2,720
497	2025	Detroit Lake/Big Cliff	Historical	1,554	5.265%	82	-	82
498	2025	Dworshak	Historical	4,881	4.779%	233	-	233
499	2025	Green Peter/Foster	Historical	201	5.863%	12	-	12
500	2025	Hills Creek	Historical	55	5.247%	3	-	3
501	2025	Hungry Horse Dam	Historical	4,717	5.046%	238	-	238
502	2025	Ice Harbor	Historical	13,501	5.200%	702	-	702
503	2025	John Day	Historical	12,523	5.139%	644	-	644
504	2025	Libby	Historical	7,169	5.647%	405	-	405
505	2025	Little Goose	Historical	8,063	5.258%	424	-	424
506	2025	Lookout Dam	Historical	8,062	5.116%	412	-	412
507	2025	Lost Creek	Historical	154	5.874%	9	-	9
508	2025	Lower Granite	Historical	11,440	4.856%	556	-	556
509	2025	Lower Monument	Historical	9,929	5.267%	523	-	523
510	2025	Lower Snake Fish and Wildlife	Historical	3,553	4.906%	174	-	174
511	2025	McNary	Historical	12,126	5.107%	619	-	619
512	2025	Minidoka/Palisades	Historical	42	5.869%	2	-	2
513	2025	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
514	2025	The Dalles	Historical	41,248	5.096%	2,102	-	2,102
515	2025	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
516	2025	Yakima Roza	Historical	14	5.892%	1	-	1
517	2025	Bureau Direct	Historical	436,051	5.583%	24,345	-	24,345
518	2025	Fish and Wildlife	Historical	140,000	4.575%	6,405	-	6,405
519	2025	Float	Historical	-	-	(17,655)	-	(17,655)
520	FY 2025	Subtotal:		3,769,354		184,846	-	184,846
521	2026	Albeni Falls	Historical	988,219	6.009%	59,386	-	59,386
522	2026	Boise	Historical	1,060	5.091%	54	-	54

TABLE 12A: Interest Calculation Summary
October 1, 2010 - September 30, 2012 Cost Evaluation Period
(\$000s) (FY 2012)

A		B		D	E	F	G	H
Fiscal Year		Project	Type	Principal	Rate	Interest	Premium	Total
523	2026	Bonneville Dam	Historical	94,498	5.190%	4,904	-	4,904
524	2026	Chief Joseph	Historical	29,567	4.477%	1,324	-	1,324
525	2026	Columbia Basin	Historical	86,050	5.691%	4,897	-	4,897
526	2026	Columbia River Fish Mitigation	Historical	1,135,515	4.516%	51,278	-	51,278
527	2026	Cougar	Historical	52,437	5.187%	2,720	-	2,720
528	2026	Detroit Lake/Big Cliff	Historical	1,554	5.265%	82	-	82
529	2026	Dworshak	Historical	4,881	4.779%	233	-	233
530	2026	Green Peter/Foster	Historical	201	5.863%	12	-	12
531	2026	Hills Creek	Historical	55	5.247%	3	-	3
532	2026	Hungry Horse Dam	Historical	4,717	5.046%	238	-	238
533	2026	Ice Harbor	Historical	13,501	5.200%	702	-	702
534	2026	John Day	Historical	12,523	5.139%	644	-	644
535	2026	Libby	Historical	7,169	5.647%	405	-	405
536	2026	Little Goose	Historical	8,063	5.258%	424	-	424
537	2026	Lookout Dam	Historical	8,062	5.116%	412	-	412
538	2026	Lost Creek	Historical	154	5.874%	9	-	9
539	2026	Lower Granite	Historical	11,440	4.858%	556	-	556
540	2026	Lower Monument	Historical	9,929	5.267%	523	-	523
541	2026	Lower Snake Fish and Wildlife	Historical	3,553	4.906%	174	-	174
542	2026	McNary	Historical	12,126	5.107%	619	-	619
543	2026	Minidoka/Palisades	Historical	42	5.869%	2	-	2
544	2026	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
545	2026	The Dalles	Historical	41,248	5.096%	2,102	-	2,102
546	2026	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
547	2026	Yakima Roza	Historical	14	5.892%	1	-	1
548	2026	Bureau Direct	Historical	436,051	5.583%	24,345	-	24,345
549	2026	Fish and Wildlife	Historical	140,000	4.575%	6,405	-	6,405
550	2026	Float	Historical	-	-	(17,531)	-	(17,531)
551	FY 2026	Subtotal:		3,114,620		145,620	-	145,620
552	2027	Albeni Falls	Historical	391,146	6.008%	23,502	-	23,502
553	2027	Boise	Historical	1,060	5.091%	54	-	54
554	2027	Bonneville Dam	Historical	94,498	5.190%	4,904	-	4,904
555	2027	Chief Joseph	Historical	29,567	4.477%	1,324	-	1,324
556	2027	Columbia Basin	Historical	86,050	5.691%	4,897	-	4,897
557	2027	Columbia River Fish Mitigation	Historical	1,135,515	4.516%	51,278	-	51,278
558	2027	Cougar	Historical	52,437	5.187%	2,720	-	2,720
559	2027	Detroit Lake/Big Cliff	Historical	1,554	5.265%	82	-	82
560	2027	Dworshak	Historical	4,881	4.779%	233	-	233
561	2027	Green Peter/Foster	Historical	201	5.863%	12	-	12
562	2027	Hills Creek	Historical	55	5.246%	3	-	3
563	2027	Hungry Horse Dam	Historical	4,717	5.046%	238	-	238
564	2027	Ice Harbor	Historical	13,501	5.200%	702	-	702
565	2027	John Day	Historical	12,523	5.139%	644	-	644
566	2027	Libby	Historical	7,169	5.647%	405	-	405
567	2027	Little Goose	Historical	8,063	5.258%	424	-	424
568	2027	Lookout Dam	Historical	8,062	5.116%	412	-	412
569	2027	Lost Creek	Historical	154	5.874%	9	-	9
570	2027	Lower Granite	Historical	11,440	4.858%	556	-	556
571	2027	Lower Monument	Historical	9,929	5.267%	523	-	523
572	2027	Lower Snake Fish and Wildlife	Historical	3,553	4.906%	174	-	174
573	2027	McNary	Historical	12,126	5.107%	619	-	619
574	2027	Minidoka/Palisades	Historical	42	5.868%	2	-	2
575	2027	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
576	2027	The Dalles	Historical	41,248	5.096%	2,102	-	2,102
577	2027	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
578	2027	Yakima Roza	Historical	14	5.891%	1	-	1
579	2027	Bureau Direct	Historical	436,051	5.583%	24,345	8,456	32,801
580	2027	Fish and Wildlife	Historical	50,000	4.880%	2,440	-	2,440
581	2027	Float	Historical	-	-	(17,832)	-	(17,832)
582	FY 2027	Subtotal:		2,427,548		105,471	8,456	113,927
583	2028	Albeni Falls	Historical	580	4.989%	29	-	29
584	2028	Boise	Historical	1,060	5.091%	54	-	54
585	2028	Bonneville Dam	Historical	94,498	5.190%	4,904	-	4,904
586	2028	Chief Joseph	Historical	29,567	4.477%	1,324	-	1,324
587	2028	Columbia Basin	Historical	41,008	5.488%	2,251	-	2,251
588	2028	Columbia River Fish Mitigation	Historical	1,129,347	4.508%	50,916	-	50,916
589	2028	Cougar	Historical	52,437	5.187%	2,720	-	2,720
590	2028	Detroit Lake/Big Cliff	Historical	1,272	5.130%	65	-	65
591	2028	Dworshak	Historical	4,881	4.779%	233	-	233
592	2028	Green Peter/Foster	Historical	1	3.873%	-	-	-
593	2028	Hills Creek	Historical	48	5.137%	2	-	2
594	2028	Hungry Horse Dam	Historical	4,165	4.936%	206	-	206
595	2028	Ice Harbor	Historical	12,736	5.160%	657	-	657
596	2028	John Day	Historical	11,904	5.101%	607	-	607
597	2028	Libby	Historical	1,607	4.860%	78	-	78
598	2028	Little Goose	Historical	3,455	4.436%	153	-	153
599	2028	Lookout Dam	Historical	8,062	5.116%	412	-	412
600	2028	Lower Granite	Historical	9,415	4.639%	437	-	437
601	2028	Lower Monument	Historical	6,628	4.965%	329	-	329
602	2028	Lower Snake Fish and Wildlife	Historical	3,228	4.808%	155	-	155
603	2028	McNary	Historical	11,079	5.034%	558	-	558
604	2028	The Dalles	Historical	41,248	5.096%	2,102	-	2,102
605	2028	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
606	2028	Bureau Direct	Historical	225,000	5.182%	11,661	-	11,661
607	2028	Float	Historical	-	-	(17,877)	-	(17,877)
608	FY 2028	Subtotal:		1,694,073		62,020	-	62,020
609	2029	Albeni Falls	Historical	99	4.330%	4	-	4

TABLE 12A: Interest Calculation Summary
October 1, 2010 - September 30, 2012 Cost Evaluation Period
(\$000s) (FY 2012)

A		B	D	E	F	G	H	
Fiscal Year		Project	Type	Principal	Rate	Interest	Premium	Total
610	2029	Boise	Historical	17	4.498%	1	-	1
611	2029	Bonneville Dam	Historical	5,372	4.436%	238	-	238
612	2029	Chief Joseph	Historical	24,727	4.375%	1,082	-	1,082
613	2029	Columbia Basin	Historical	4,098	4.412%	181	-	181
614	2029	Columbia River Fish Mitigation	Historical	631,496	4.213%	26,603	-	26,603
615	2029	Cougar	Historical	851	4.407%	38	-	38
616	2029	Dworshak	Historical	2,569	4.379%	112	-	112
617	2029	Green Peter/Foster	Historical	1	3.873%	-	-	-
618	2029	Hungry Horse Dam	Historical	844	4.259%	36	-	36
619	2029	Ice Harbor	Historical	2,822	4.366%	123	-	123
620	2029	John Day	Historical	1,903	4.352%	83	-	83
621	2029	Libby	Historical	40	4.261%	2	-	2
622	2029	Little Goose	Historical	3,201	4.374%	140	-	140
623	2029	Lower Granite	Historical	6,826	4.354%	297	-	297
624	2029	Lower Monument	Historical	2,332	4.375%	102	-	102
625	2029	Lower Snake Fish and Wildlife	Historical	1,545	4.375%	68	-	68
626	2029	Yakima Chandler/Kennilwick	Historical	15	4.370%	1	-	1
627	2029	Bureau Direct	Historical	225,000	5.182%	11,661	-	11,661
628	2029	Float	Historical	-	-	(18,006)	-	(18,006)
629	FY 2029	Subtotal:		913,760		22,765		22,765
630	2030	Bureau Direct	Historical	225,000	5.182%	11,661	-	11,661
631	2030	Float	Historical	-	-	(18,041)	-	(18,041)
632	FY 2030	Subtotal:		225,000		(6,380)		(6,380)
633	2031	Bureau Direct	Historical	225,000	5.182%	11,661	-	11,661
634	2031	Float	Historical	-	-	(17,888)	-	(17,888)
635	FY 2031	Subtotal:		225,000		(6,228)		(6,228)
636	2032	Bureau Direct	Historical	225,000	5.182%	11,661	-	11,661
637	2032	Float	Historical	-	-	(18,079)	-	(18,079)
638	FY 2032	Subtotal:		225,000		(6,419)		(6,419)
639	2033	Bureau Direct	Historical	225,000	5.182%	11,661	-	11,661
640	2033	Float	Historical	-	-	(18,001)	-	(18,001)
641	FY 2033	Subtotal:		225,000		(6,341)		(6,341)
642	2034	Bureau Direct	Historical	225,000	5.182%	11,661	-	11,661
643	2034	Float	Historical	-	-	(18,079)	-	(18,079)
644	FY 2034	Subtotal:		225,000		(6,419)		(6,419)
645	2035	Bureau Direct	Historical	225,000	5.182%	11,661	-	11,661
646	2035	Float	Historical	-	-	(17,938)	-	(17,938)
647	FY 2035	Subtotal:		225,000		(6,278)		(6,278)
648	2036	Bureau Direct	Historical	205,000	5.277%	10,819	-	10,819
649	2036	Float	Historical	-	-	(17,566)	-	(17,566)
650	FY 2036	Subtotal:		205,000		(6,748)		(6,748)
651	2037	Bureau Direct	Historical	175,000	5.251%	9,190	-	9,190
652	2037	Float	Historical	-	-	(17,807)	-	(17,807)
653	FY 2037	Subtotal:		175,000		(8,618)		(8,618)
654	2038	Bureau Direct	Historical	140,000	5.181%	7,254	-	7,254
655	2038	Float	Historical	-	-	(18,119)	-	(18,119)
656	FY 2038	Subtotal:		140,000		(10,865)		(10,865)
657	2039	Bureau Direct	Historical	110,000	5.056%	5,562	-	5,562
658	2039	Float	Historical	-	-	(17,878)	-	(17,878)
659	FY 2039	Subtotal:		110,000		(12,316)		(12,316)
660	2040	Bureau Direct	Historical	50,000	5.000%	2,500	-	2,500
661	2040	Float	Historical	-	-	(18,162)	-	(18,162)
662	FY 2040	Subtotal:		50,000		(15,662)		(15,662)
663	2041	Float	Historical	-	-	(18,184)	-	(18,184)
664	FY 2041	Subtotal:		-		(18,184)		(18,184)
665	2042	Float	Historical	-	-	(16,859)	-	(16,859)
666	FY 2042	Subtotal:		-		(16,859)		(16,859)
667	2043	Float	Historical	-	-	(18,184)	-	(18,184)
668	FY 2043	Subtotal:		-		(18,184)		(18,184)
669	2044	Float	Historical	-	-	(15,984)	-	(15,984)
670	FY 2044	Subtotal:		-		(15,984)		(15,984)
671	2045	Float	Historical	-	-	(9,171)	-	(9,171)
672	FY 2045	Subtotal:		-		(9,171)		(9,171)
673	2046	Float	Historical	-	-	(9,382)	-	(9,382)
674	FY 2046	Subtotal:		-		(9,382)		(9,382)
675	2047	Float	Historical	-	-	(9,382)	-	(9,382)
676	FY 2047	Subtotal:		-		(9,382)		(9,382)
677	2048	Float	Historical	-	-	(9,382)	-	(9,382)
678	FY 2048	Subtotal:		-		(9,382)		(9,382)
679	2049	Float	Historical	-	-	(9,382)	-	(9,382)
680	FY 2049	Subtotal:		-		(9,382)		(9,382)
681	2050	Float	Historical	-	-	(9,382)	-	(9,382)
682	FY 2050	Subtotal:		-		(9,382)		(9,382)
683	2051	Float	Historical	-	-	(9,382)	-	(9,382)
684	FY 2051	Subtotal:		-		(9,382)		(9,382)
685	2052	Float	Historical	-	-	(9,382)	-	(9,382)
686	FY 2052	Subtotal:		-		(9,382)		(9,382)
687	2053	Float	Historical	-	-	(9,382)	-	(9,382)
688	FY 2053	Subtotal:		-		(9,382)		(9,382)
689	2054	Float	Historical	-	-	(9,382)	-	(9,382)
690	FY 2054	Subtotal:		-		(9,382)		(9,382)
691	2055	Float	Historical	-	-	(9,382)	-	(9,382)
692	FY 2055	Subtotal:		-		(9,382)		(9,382)
693	2056	Float	Historical	-	-	(9,382)	-	(9,382)
694	FY 2056	Subtotal:		-		(9,382)		(9,382)
695	2057	Float	Historical	-	-	(9,382)	-	(9,382)
696	FY 2057	Subtotal:		-		(9,382)		(9,382)

TABLE 12A: Interest Calculation Summary
October 1, 2010 - September 30, 2012 Cost Evaluation Period
(\$000s) (FY 2012)

	A	B		D	E	F	G	H
	Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total
697	2058	Float	Historical	-		(9,382)	-	(9,382)
698	FY 2058	Subtotal:		-		(9,382)	-	(9,382)
699	2059	Float	Historical	-		(9,382)	-	(9,382)
700	FY 2059	Subtotal:		-		(9,382)	-	(9,382)
701	2060	Float	Historical	-		(9,382)	-	(9,382)
702	FY 2060	Subtotal:		-		(9,382)	-	(9,382)
703	2061	Float	Historical	-		(9,382)	-	(9,382)
704	FY 2061	Subtotal:		-		(9,382)	-	(9,382)
705	2062	Float	Historical	-		(9,382)	-	(9,382)
706	FY 2062	Subtotal:		-		(9,382)	-	(9,382)
706	Grand Total:			83,860,671		3,652,447	8,456	3,660,904

TABLE 12B: Application of Amortization
October 1, 2010 - September 30, 2012 Cost Evaluation Period
(\$000s) (FY 2012)

A	B	C	D	E	F	G	H	I	J
Fiscal Year	Project	Appropriation Type	In Service	Due Date	Original Principal	Current Balance	Rate	Rollover	Amount Amortized
1	FY 2011 Bureau Direct	-	2008	2011	25,000	25,000	3.358%	No	25,000
2	FY 2011 Bureau Direct	-	2008	2011	35,000	35,000	3.358%	No	35,000
3	FY 2011 Bureau Direct	-	2008	2011	20,000	20,000	2.850%	No	20,000
4	FY 2011 Bureau Direct	-	2008	2011	35,000	35,000	2.850%	No	35,000
5	FY 2011 Fish and Wildlife	-	2007	2011	20,000	20,000	4.700%	No	20,000
6	FY 2011 Little Goose	COE	1978	2021	28	28	7.230%	No	28
7	FY 2011 John Day	COE	1972	2022	11,502	8,837	7.210%	No	8,837
8	FY 2011 Dworshak	COE	1974	2023	515	515	7.190%	No	515
9	FY 2011 Dworshak	COE	1975	2023	3	3	7.190%	No	3
10	FY 2011 Dworshak	COE	1975	2023	518	518	7.190%	No	518
11	FY 2011 Dworshak	COE	1976	2023	3	3	7.190%	No	3
12	FY 2011 Dworshak	COE	1976	2023	518	518	7.190%	No	518
13	FY 2011 Dworshak	COE	1977	2023	3	3	7.190%	No	3
14	FY 2011 Dworshak	COE	1977	2023	518	518	7.190%	No	518
15	FY 2011 Dworshak	COE	1978	2023	3	3	7.190%	No	3
16	FY 2011 Dworshak	COE	1978	2023	518	518	7.190%	No	518
17	FY 2011 Dworshak	COE	1979	2023	3	3	7.190%	No	3
18	FY 2011 Dworshak	COE	1979	2023	518	518	7.190%	No	518
19	FY 2011 Dworshak	COE	1980	2023	3	3	7.190%	No	3
20	FY 2011 Dworshak	COE	1980	2023	518	518	7.190%	No	518
21	FY 2011 Dworshak	COE	1981	2023	3	3	7.190%	No	3
22	FY 2011 Dworshak	COE	1981	2023	518	518	7.190%	No	518
23	FY 2011 Dworshak	COE	1982	2023	3	3	7.190%	No	3
24	FY 2011 Dworshak	COE	1982	2023	518	518	7.190%	No	518
25	FY 2011 Dworshak	COE	1983	2023	3	3	7.190%	No	3
26	FY 2011 Dworshak	COE	1983	2023	523	523	7.190%	No	523
27	FY 2011 Dworshak	COE	1985	2023	1,141	1,141	7.190%	No	1,141
28	FY 2011 Dworshak	COE	1986	2023	197	197	7.190%	No	197
29	FY 2011 Dworshak	COE	1987	2023	36	5	7.190%	No	5
30	FY 2011 The Dalles	COE	1973	2023	21,983	21,983	7.190%	No	11,746
31	FY 2011 Subtotal:	-	-	-	175,096	172,400	-	-	162,163
32	FY 2012 Bureau Direct	-	2008	2012	30,000	30,000	3.974%	No	30,000
33	FY 2012 Bureau Direct	-	2008	2012	35,000	35,000	3.913%	No	35,000
34	FY 2012 Bureau Direct	-	2008	2012	35,000	35,000	3.444%	No	35,000
35	FY 2012 Construction	-	2008	2012	10,000	10,000	3.444%	No	10,000
36	FY 2012 Construction	-	2008	2012	10,000	10,000	3.200%	No	10,000
37	FY 2012 Fish and Wildlife	-	2008	2012	20,000	20,000	3.444%	No	20,000
38	FY 2012 Hills Creek	COE	1962	2012	10,353	5,159	7.160%	No	5,159
39	FY 2012 Hills Creek	COE	1974	2012	13	13	7.160%	No	13
40	FY 2012 Hills Creek	COE	1977	2012	13	13	7.160%	No	13
41	FY 2012 Hills Creek	COE	1978	2012	13	13	7.160%	No	13
42	FY 2012 Hills Creek	COE	1979	2012	13	13	7.160%	No	13
43	FY 2012 Hills Creek	COE	1980	2012	13	13	7.160%	No	13
44	FY 2012 Hills Creek	COE	1981	2012	13	13	7.160%	No	13
45	FY 2012 Hills Creek	COE	1982	2012	13	13	7.160%	No	13
46	FY 2012 Hills Creek	COE	1983	2012	13	13	7.160%	No	13
47	FY 2012 Ice Harbor	COE	1973	2012	1	1	7.160%	No	1
48	FY 2012 Dworshak	COE	1973	2023	836	803	7.190%	No	803
49	FY 2012 Dworshak	COE	1973	2023	138,443	106,138	7.190%	No	36,696
50	FY 2012 The Dalles	COE	1973	2023	21,983	10,237	7.190%	No	10,237
51	FY 2012 Subtotal:	-	-	-	311,720	262,442	-	-	193,000
52	FY 2013 Conservation	-	1998	2013	52,800	52,800	5.600%	No	52,800
53	FY 2013 Conservation	-	2008	2013	10,000	10,000	3.701%	No	10,000
54	FY 2013 Fish and Wildlife	-	1998	2013	60,000	60,000	6.100%	No	60,000
55	FY 2013 Subtotal:	-	-	-	122,800	122,800	-	-	122,800
56	FY 2014 Conservation	-	2009	2014	15,000	15,000	2.746%	No	15,000
57	FY 2014 Construction	-	1999	2014	950	950	5.900%	No	950
58	FY 2014 Construction	-	2009	2014	14,000	14,000	2.746%	No	14,000
59	FY 2014 Dworshak	COE	1973	2023	138,443	69,442	7.190%	No	51,506
60	FY 2014 Subtotal:	-	-	-	168,393	99,392	-	-	81,456
61	FY 2015 Conservation	-	2010	2015	20,000	20,000	2.677%	No	20,000
62	FY 2015 Conservation	-	2010	2015	15,000	15,000	2.609%	No	15,000
63	FY 2015 Conservation	-	2010	2015	15,000	15,000	1.619%	No	15,000
64	FY 2015 Conservation	-	2010	2015	10,000	10,000	1.534%	No	10,000
65	FY 2015 Construction	-	2010	2015	5,000	5,000	1.619%	No	5,000
66	FY 2015 Construction	-	2010	2015	7,500	7,500	0.165%	No	7,500
67	FY 2015 Dworshak	COE	1973	2023	138,443	17,936	7.19	No	17,936
68	FY 2015 The Dalles	COE	1974	2024	7,268	7,268	7.170%	No	7,268
69	FY 2015 Lower Granite	COE	1975	2025	119,237	117,645	7.160%	No	12,128
70	FY 2015 Lower Granite	COE	1976	2025	510	510	7.16	No	510
71	FY 2015 Lower Granite	COE	1977	2025	510	510	7.160%	No	510
72	FY 2015 Lower Granite	COE	1978	2025	510	510	7.16	No	510
73	FY 2015 Lower Granite	COE	1979	2025	510	510	7.160%	No	510
74	FY 2015 Lower Granite	COE	1980	2025	510	510	7.160%	No	510
75	FY 2015 Lower Granite	COE	1981	2025	510	510	7.160%	No	510
76	FY 2015 Lower Granite	COE	1982	2025	510	510	7.160%	No	510
77	FY 2015 Lower Granite	COE	1983	2025	510	510	7.160%	No	510
78	FY 2015 Lower Granite	COE	1985	2025	328	328	7.160%	No	328
79	FY 2015 Lower Granite	COE	1986	2025	215	215	7.160%	No	215
80	FY 2015 Lower Granite	COE	1987	2025	8	8	7.160%	No	8
81	FY 2015 Lower Granite	COE	1995	2025	96	96	7.16	No	96
82	FY 2015 Subtotal:	-	-	-	342,175	220,076	-	-	114,559

TABLE 12B: Application of Amortization
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A	B	C	D	E	F	G	H	I	J	
Fiscal Year	Project	Appropriation Type	In Service	Due Date	Original Principal	Current Balance	Rate	Rollover	Amount Amortized	
83	FY 2016	Construction	-	2011	2016	14,000	14,000	2.600%	No	14,000
84	FY 2016	Lower Granite	COE	1975	2025	119,237	105,517	7.160%	No	81,014
85		FY 2016 Subtotal:	-	-	-	133,237	119,517	-	-	95,014
86	FY 2017	Columbia Basin 3rd Powerhouse	BOR	1975	2025	8,702	7,435	7.160%	No	7,435
87	FY 2017	Columbia Basin 3rd Powerhouse	BOR	1975	2025	47,328	36,690	7.160%	No	24,843
88	FY 2017	Libby	COE	1975	2025	54,644	48,138	7.160%	No	48,138
89	FY 2017	Lower Granite	COE	1975	2025	119,237	24,503	7.160%	No	24,503
90		FY 2017 Subtotal:	-	-	-	229,911	116,766	-	-	104,919
91	FY 2018	Construction	-	2012	2018	21,399	21,399	3.890%	No	21,399
92	FY 2018	Columbia Basin 3rd Powerhouse	BOR	1975	2025	47,328	11,847	7.160%	No	11,847
93	FY 2018	Columbia Basin	BOR	1996	2026	72	72	7.15	No	72
94	FY 2018	Ice Harbor	COE	1985	2026	21	21	7.150%	No	21
95	FY 2018	Libby	COE	1976	2026	153,432	153,432	7.150%	No	109,455
96	FY 2018	Libby	COE	1977	2026	1,465	1,465	7.150%	No	1,465
97	FY 2018	Libby	COE	1978	2026	1,465	1,465	7.150%	No	1,465
98	FY 2018	Libby	COE	1979	2026	1,465	1,465	7.150%	No	1,465
99	FY 2018	Libby	COE	1980	2026	1,465	1,465	7.150%	No	1,465
100	FY 2018	Libby	COE	1981	2026	1,465	1,465	7.150%	No	1,465
101	FY 2018	Libby	COE	1982	2026	1,465	1,465	7.150%	No	1,465
102	FY 2018	Libby	COE	1983	2026	1,465	1,465	7.150%	No	1,465
103	FY 2018	Libby	COE	1985	2026	518	518	7.150%	No	518
104	FY 2018	Libby	COE	1986	2026	283	283	7.150%	No	283
105	FY 2018	Libby	COE	1987	2026	2	2	7.150%	No	2
106	FY 2018	Libby	COE	1989	2026	1	1	7.150%	No	1
107	FY 2018	McNary	COE	1996	2026	74	74	7.150%	No	74
108	FY 2018	McNary	COE	1996	2026	277	277	7.150%	No	277
109		FY 2018 Subtotal:	-	-	-	233,662	198,182	-	-	154,204
110	FY 2019	Bureau Direct	-	2009	2019	25,000	25,000	3.699%	No	25,000
111	FY 2019	Bureau Direct	-	2010	2019	24,000	24,000	3.719%	No	24,000
112	FY 2019	Bureau Direct	-	2010	2019	10,000	10,000	3.714	No	10,000
113	FY 2019	Bureau Direct	-	2010	2019	10,000	10,000	0.165%	No	10,000
114	FY 2019	Fish and Wildlife	-	2010	2019	26,000	26,000	4.069%	No	26,000
115	FY 2019	Fish and Wildlife	-	2010	2019	20,000	20,000	2.646%	No	20,000
116	FY 2019	Columbia Basin 3rd Powerhouse	BOR	1976	2026	8,037	8,037	7.150%	No	8,037
117	FY 2019	Columbia Basin 3rd Powerhouse	BOR	1976	2026	41,330	41,330	7.150%	No	41,330
118	FY 2019	Ice Harbor	COE	1976	2026	228	228	7.150%	No	228
119	FY 2019	Ice Harbor	COE	1976	2026	20,472	20,472	7.15	No	20,472
120	FY 2019	Libby	COE	1976	2026	153,432	43,977	7.150%	No	43,977
121	FY 2019	Bonneville Dam	COE	1977	2027	15,670	15,670	7.150%	No	15,670
122	FY 2019	Chief Joseph	COE	1977	2027	30,512	30,512	7.150%	No	30,512
123	FY 2019	Columbia Basin 3rd Powerhouse	BOR	1977	2027	7,964	7,964	7.150%	No	7,964
124	FY 2019	Columbia Basin 3rd Powerhouse	BOR	1977	2027	42,764	42,764	7.150%	No	42,764
125	FY 2019	Lost Creek	COE	1977	2027	13,505	13,413	7.15	No	13,413
126	FY 2019	Lost Creek	COE	1978	2027	58	58	7.150%	No	58
127	FY 2019	Lost Creek	COE	1979	2027	60	60	7.150%	No	60
128	FY 2019	Lost Creek	COE	1980	2027	60	60	7.150%	No	60
129	FY 2019	Lost Creek	COE	1981	2027	60	60	7.15	No	60
130	FY 2019	Lost Creek	COE	1982	2027	60	60	7.150%	No	60
131	FY 2019	Lost Creek	COE	1983	2027	60	60	7.150%	No	60
132	FY 2019	Lost Creek	COE	1985	2027	12	12	7.150%	No	12
133	FY 2019	Lost Creek	COE	1986	2027	6	6	7.150%	No	6
134	FY 2019	Lost Creek	COE	1987	2027	4	4	7.150%	No	4
135	FY 2019	Little Goose	COE	1985	2028	47	47	7.150%	No	47
136	FY 2019	Lower Granite	COE	1978	2028	40,611	40,611	7.150%	No	5,630
137		FY 2019 Subtotal:	-	-	-	489,952	380,405	-	-	345,424
138	FY 2020	Bureau Direct	-	2010	2020	13,000	13,000	4.194%	No	13,000
139	FY 2020	Bureau Direct	-	2010	2020	30,000	30,000	4.083%	No	30,000
140	FY 2020	Bureau Direct	-	2010	2020	18,000	18,000	3.973%	No	18,000
141	FY 2020	Bureau Direct	-	2010	2020	20,000	20,000	3.842%	No	20,000
142	FY 2020	Bureau Direct	-	2010	2020	7,000	7,000	3.637%	No	7,000
143	FY 2020	Bureau Direct	-	2010	2020	15,000	15,000	3.574%	No	15,000
144	FY 2020	Bureau Direct	-	2010	2020	10,000	10,000	3.243%	No	10,000
145	FY 2020	Bureau Direct	-	2010	2020	30,000	30,000	3.243%	No	30,000
146	FY 2020	Bureau Direct	-	2010	2020	17,000	17,000	3.118%	No	17,000
147	FY 2020	Bureau Direct	-	2010	2020	5,000	5,000	0.165%	No	5,000
148	FY 2020	Chief Joseph	COE	1978	2028	75,669	75,669	7.150%	No	75,669
149	FY 2020	Columbia Basin 3rd Powerhouse	BOR	1978	2028	7,896	7,896	7.150%	No	7,896
150	FY 2020	Columbia Basin 3rd Powerhouse	BOR	1978	2028	42,399	42,399	7.150%	No	42,399
151	FY 2020	Little Goose	COE	1978	2028	49,578	49,550	7.150%	No	49,550
152	FY 2020	Lower Granite	COE	1978	2028	40,611	34,981	7.150%	No	34,981
153	FY 2020	Chief Joseph	COE	1986	2029	5,363	5,363	7.15	No	51
154	FY 2020	Chief Joseph	COE	1987	2029	3,036	3,036	7.150%	No	3,036
155	FY 2020	Chief Joseph	COE	1988	2029	2,722	2,722	7.150%	No	2,722
156	FY 2020	Chief Joseph	COE	1989	2029	2,227	2,227	7.150%	No	2,227
157	FY 2020	Chief Joseph	COE	1990	2029	4,505	4,505	7.150%	No	4,505
158	FY 2020	Libby	COE	1994	2029	286	152	7.150%	No	152
159	FY 2020	Lower Granite	COE	1994	2029	3,543	1,551	7.150%	No	1,551
160		FY 2020 Subtotal:	-	-	-	402,835	395,051	-	-	389,739
161	FY 2021	Bureau Direct	-	2009	2021	25,000	25,000	3.999%	No	25,000
162	FY 2021	Bureau Direct	-	2010	2021	22,000	22,000	2.883%	No	22,000
163	FY 2021	Chief Joseph	COE	1979	2029	60,079	60,079	7.150%	No	60,079
164	FY 2021	Chief Joseph	COE	1985	2029	16,372	16,372	7.150%	No	16,372
165	FY 2021	Chief Joseph	COE	1986	2029	5,363	5,312	7.150%	No	5,312

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	Fiscal Year	Project	Appropriation Type	In Service	Due Date	Original Principal	Current Balance	Rate	Rollover	Amount Amortized
166	FY 2021	Columbia Basin 3rd Powerhouse	BOR	1979	2029	15,666	15,666	7.150%	No	15,666
167	FY 2021	Columbia Basin 3rd Powerhouse	BOR	1979	2029	84,118	84,118	7.150%	No	84,118
168	FY 2021	Lower Monument	COE	1979	2029	40,669	40,669	7.150%	No	40,669
169	FY 2021	Lower Monument	COE	1985	2029	256	256	7.150%	No	256
170	FY 2021	Dworshak	COE	1995	2030	218	218	7.150%	No	218
171	FY 2021	Hungry Horse Dam	BOR	1995	2030	536	536	7.150%	No	536
172	FY 2021	Hungry Horse Dam	BOR	1995	2030	1,198	1,198	7.150%	No	1,198
173	FY 2021	Libby	COE	1995	2030	15	15	7.150%	No	15
174	FY 2021	Libby	COE	1995	2030	41	41	7.150%	No	41
175	FY 2021	Libby	COE	1995	2030	94	94	7.150%	No	94
176	FY 2021	Bonneville 2nd Powerhouse	COE	1981	2031	455	455	7.150%	No	455
177	FY 2021	Bonneville 2nd Powerhouse	COE	1981	2031	40,964	40,964	7.15	No	40,964
178	FY 2021	Bonneville Dam	COE	1996	2031	22	22	7.150%	No	22
179	FY 2021	Chief Joseph	COE	1996	2031	27	27	7.150%	No	27
180	FY 2021	Columbia Basin	BOR	1996	2031	109	109	7.150%	No	109
181	FY 2021	Columbia Basin	BOR	1996	2031	251	251	7.150%	No	251
182	FY 2021	Dworshak	COE	1996	2031	6	6	7.150%	No	6
183	FY 2021	Dworshak	COE	1996	2031	203	203	7.150%	No	203
184	FY 2021	Ice Harbor	COE	1996	2031	78	78	7.150%	No	78
185	FY 2021	Last Creek	COE	1996	2031	31	31	7.150%	No	31
186	FY 2021	Lower Granite	COE	1996	2031	206	206	7.15	No	206
187	FY 2021	Bonneville 2nd Powerhouse	COE	1982	2032	2,264	2,264	7.150%	No	2,264
188	FY 2021	Bonneville 2nd Powerhouse	COE	1982	2032	203,535	203,535	7.150%	No	95,325
189	FY 2021	Bonneville Dam	COE	1997	2032	518	518	7.150%	No	518
190	FY 2021	Chief Joseph	COE	1997	2032	166	166	7.150%	No	166
191	FY 2021	McNary	COE	1997	2032	30	30	7.150%	No	30
192		FY 2021 Subtotal:	-	-	-	520,490	520,436	-	-	412,226
193	FY 2022	Bonneville 2nd Powerhouse	COE	1982	2032	203,535	108,210	7.150%	No	108,210
194	FY 2022	Bonneville 2nd Powerhouse	COE	1983	2033	694	694	7.150%	No	694
195	FY 2022	Bonneville 2nd Powerhouse	COE	1983	2033	62,409	62,409	7.150%	No	62,409
196	FY 2022	Bonneville 2nd Powerhouse	COE	1985	2033	9,138	9,138	7.150%	No	9,138
197	FY 2022	Bonneville 2nd Powerhouse	COE	1986	2033	30,578	30,578	7.150%	No	30,578
198	FY 2022	Bonneville 2nd Powerhouse	COE	1987	2033	2,801	2,801	7.150%	No	2,801
199	FY 2022	Bonneville 2nd Powerhouse	COE	1988	2033	1,271	1,271	7.150%	No	1,271
200	FY 2022	Bonneville 2nd Powerhouse	COE	1989	2033	1,232	1,232	7.150%	No	1,232
201	FY 2022	Bonneville 2nd Powerhouse	COE	1990	2033	1,588	1,588	7.150%	No	1,588
202	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1983	2033	712	712	7.150%	No	712
203	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1983	2033	13,003	13,003	7.15	No	13,003
204	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1984	2033	3,160	3,160	7.150%	No	3,160
205	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1984	2033	13,192	13,192	7.150%	No	13,192
206	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1984	2033	16,965	16,965	7.150%	No	16,965
207	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1985	2033	107	107	7.150%	No	107
208	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1985	2033	2,060	2,060	7.150%	No	2,060
209	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1985	2033	41,772	41,772	7.150%	No	41,772
210	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1986	2033	1,851	1,851	7.150%	No	1,851
211	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1986	2033	15,538	15,538	7.150%	No	15,538
212	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1987	2033	1,730	1,730	7.150%	No	1,730
213	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1987	2033	14,439	14,439	7.150%	No	14,439
214	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1988	2033	2,294	2,294	7.150%	No	2,294
215	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1988	2033	4,351	4,351	7.150%	No	4,351
216	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1989	2033	10,902	10,902	7.150%	No	10,902
217	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1990	2033	6,383	6,383	7.150%	No	6,383
218	FY 2022	Lower Snake Fish and Wildlife	LSFW	1983	2033	30,488	9,472	7.150%	No	9,472
219	FY 2022	John Day	COE	1995	2035	22	22	7.150%	No	22
220	FY 2022	John Day	COE	1995	2035	52	52	7.150%	No	52
221	FY 2022	John Day	COE	1995	2035	121	121	7.150%	No	121
222	FY 2022	Lower Snake Fish and Wildlife	LSFW	1985	2035	47,921	47,921	7.150%	No	44,689
223		FY 2022 Subtotal:	-	-	-	540,309	423,969	-	-	420,736
224	FY 2023	Bureau Direct	-	2009	2023	25,000	25,000	4.391%	No	25,000
225	FY 2023	Conservation	-	2011	2023	40,000	40,000	4.050%	No	40,000
226	FY 2023	Conservation	-	2011	2023	15,000	15,000	4.02	No	15,000
227	FY 2023	Conservation	-	2011	2023	35,000	35,000	3.930%	No	35,000
228	FY 2023	Lower Snake Fish and Wildlife	LSFW	1985	2035	47,921	3,232	7.150%	No	3,232
229	FY 2023	Lower Monument	COE	1996	2036	264	264	7.150%	No	264
230	FY 2023	Lower Snake Fish and Wildlife	LSFW	1987	2037	72,536	72,536	7.150%	No	72,536
231	FY 2023	Libby	COE	1988	2038	18,043	14,781	7.150%	No	14,781
232	FY 2023	Lower Snake Fish and Wildlife	LSFW	1988	2038	805	805	7.150%	No	805
233	FY 2023	Little Goose	COE	1995	2040	17	17	7.150%	No	17
234	FY 2023	Little Goose	COE	1995	2040	450	450	7.150%	No	450
235	FY 2023	Little Goose	COE	1995	2040	733	733	7.150%	No	733
236	FY 2023	Lower Snake Fish and Wildlife	LSFW	1990	2040	1,557	1,557	7.15	No	1,557
237	FY 2023	Ice Harbor	COE	1996	2041	371	371	7.150%	No	371
238	FY 2023	Lower Snake Fish and Wildlife	LSFW	1991	2041	4,411	4,411	7.150%	No	4,411
239	FY 2023	Lower Snake Fish and Wildlife	LSFW	1993	2043	71,632	71,632	7.150%	No	71,632
240	FY 2023	Bonneville 2nd Powerhouse	COE	1994	2044	5,700	5,700	7.150%	No	5,700
241	FY 2023	Chief Joseph	COE	1994	2044	4,280	4,017	7.150%	No	4,017
242	FY 2023	Columbia Basin 3rd Powerhouse	BOR	1994	2044	12,631	12,631	7.150%	No	12,631
243	FY 2023	Lower Snake Fish and Wildlife	LSFW	1994	2044	4,722	4,722	7.150%	No	4,722
244	FY 2023	Albeni Falls	COE	1995	2045	443	443	7.150%	No	443
245	FY 2023	Albeni Falls	COE	1995	2045	531	531	7.150%	No	531
246	FY 2023	Albeni Falls	COE	1995	2045	1,105	1,105	7.150%	No	1,105
247	FY 2023	Bonneville 2nd Powerhouse	COE	1995	2045	3,791	3,791	7.150%	No	3,791

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248	FY 2023	Bonneville Dam	COE	1995	2045	243	243	7.150%	No	243
249	FY 2023	Bonneville Dam	COE	1995	2045	410	410	7.150%	No	410
250	FY 2023	Bonneville Dam	COE	1995	2045	440	440	7.150%	No	440
251	FY 2023	Chief Joseph	COE	1995	2045	147	147	7.150%	No	147
252	FY 2023	Chief Joseph	COE	1995	2045	562	562	7.150%	No	562
253	FY 2023	Chief Joseph	COE	1995	2045	712	712	7.150%	No	712
254	FY 2023	Chief Joseph	COE	1995	2045	784	784	7.150%	No	784
255	FY 2023	Columbia Basin	BOR	1995	2045	287	287	7.150%	No	287
256	FY 2023	Columbia Basin	BOR	1995	2045	2,511	2,453	7.150%	No	2,453
257	FY 2023	Columbia River Fish Mitigation	COE	1995	2045	43,343	39,282	7.150%	No	39,282
258	FY 2023	Detroit Lake/Big Cliff	COE	1995	2045	38	38	7.15	No	38
259	FY 2023	Dworshak	COE	1995	2045	1,162	1,162	7.150%	No	1,162
260	FY 2023	Hungry Horse Dam	BOR	1995	2045	6,190	6,190	7.150%	No	6,190
261	FY 2023	John Day	COE	1995	2045	37	37	7.150%	No	37
262	FY 2023	John Day	COE	1995	2045	608	608	7.150%	No	608
263	FY 2023	John Day	COE	1995	2045	7,653	7,653	7.150%	No	7,653
264	FY 2023	Lookout Dam	COE	1995	2045	33	33	7.150%	No	33
265	FY 2023	Lookout Dam	COE	1995	2045	80	39	7.150%	No	39
266	FY 2023	Lost Creek	COE	1995	2045	94	94	7.150%	No	94
267	FY 2023	Lower Monument	COE	1995	2045	41	41	7.150%	No	41
268	FY 2023	Lower Monument	COE	1995	2045	99	99	7.150%	No	99
269	FY 2023	Lower Monument	COE	1995	2045	624	624	7.150%	No	624
270	FY 2023	Lower Monument	COE	1995	2045	1,122	1,122	7.150%	No	1,122
271	FY 2023	McNary	COE	1995	2045	16	16	7.150%	No	16
272	FY 2023	Boise	BOR	1996	2046	442	442	7.150%	No	442
273	FY 2023	Boise	BOR	1996	2046	656	656	7.150%	No	656
274	FY 2023	Bonneville 2nd Powerhouse	COE	1996	2046	376	376	7.150%	No	376
275	FY 2023	Bonneville Dam	COE	1996	2046	18	18	7.150%	No	18
276	FY 2023	Bonneville Dam	COE	1996	2046	18	18	7.150%	No	18
277	FY 2023	Bonneville Dam	COE	1996	2046	80	80	7.15	No	80
278	FY 2023	Bonneville Dam	COE	1996	2046	109	109	7.150%	No	109
279	FY 2023	Bonneville Dam	COE	1996	2046	142	142	7.150%	No	142
280	FY 2023	Bonneville Dam	COE	1996	2046	223	223	7.150%	No	223
281	FY 2023	Bonneville Dam	COE	1996	2046	751	751	7.150%	No	751
282	FY 2023	Bonneville Dam	COE	1996	2046	1,322	1,322	7.150%	No	1,322
283	FY 2023	Chief Joseph	COE	1996	2046	3	3	7.150%	No	3
284	FY 2023	Chief Joseph	COE	1996	2046	4	4	7.150%	No	4
285	FY 2023	Chief Joseph	COE	1996	2046	355	355	7.150%	No	355
286	FY 2023	Chief Joseph	COE	1996	2046	729	729	7.150%	No	729
287	FY 2023	Columbia Basin	BOR	1996	2046	368	368	7.150%	No	368
288	FY 2023	Columbia Basin	BOR	1996	2046	426	426	7.150%	No	426
289	FY 2023	Columbia River Fish Mitigation	COE	1996	2046	2,431	2,431	7.150%	No	2,431
290	FY 2023	Dworshak	COE	1996	2046	3	3	7.150%	No	3
291	FY 2023	Dworshak	COE	1996	2046	4	4	7.150%	No	4
292	FY 2023	Dworshak	COE	1996	2046	46	46	7.150%	No	46
293	FY 2023	Green Peter/Foster	COE	1996	2046	26	26	7.150%	No	26
294	FY 2023	Hills Creek	COE	1996	2046	28	28	7.150%	No	28
295	FY 2023	Hungry Horse Dam	BOR	1996	2046	2	2	7.150%	No	2
296	FY 2023	Hungry Horse Dam	BOR	1996	2046	15	15	7.150%	No	15
297	FY 2023	Little Goose	COE	1996	2046	10	10	7.150%	No	10
298	FY 2023	Little Goose	COE	1996	2046	10	10	7.150%	No	10
299	FY 2023	Little Goose	COE	1996	2046	211	211	7.150%	No	211
300	FY 2023	Little Goose	COE	1996	2046	241	241	7.150%	No	241
301	FY 2023	Little Goose	COE	1996	2046	520	520	7.150%	No	520
302	FY 2023	Little Goose	COE	1996	2046	3,909	3,909	7.150%	No	3,909
303	FY 2023	Lost Creek	COE	1996	2046	24	24	7.150%	No	24
304	FY 2023	Lower Granite	COE	1996	2046	9	9	7.150%	No	9
305	FY 2023	Lower Granite	COE	1996	2046	625	625	7.150%	No	625
306	FY 2023	Lower Monument	COE	1996	2046	10	10	7.150%	No	10
307	FY 2023	Lower Snake Fish and Wildlife	LSFW	1996	2046	12,085	12,085	7.150%	No	12,085
308	FY 2023	McNary	COE	1996	2046	619	619	7.150%	No	619
309	FY 2023	The Dalles	COE	1996	2046	1,991	1,991	7.15	No	1,991
310	FY 2023	Minidoka/Palisades	BOR	1997	2047	50,911	50,911	7.150%	No	31,953
311	FY 2023	Subtotal:	-	-	-	513,931	461,557	-	-	442,600
312	FY 2024	Conservation	-	2012	2024	104,000	104,000	4.660%	No	104,000
313	FY 2024	Fish and Wildlife	-	2009	2024	20,000	20,000	4.566%	No	20,000
314	FY 2024	Albeni Falls	COE	1997	2047	431	431	7.150%	No	431
315	FY 2024	Boise	BOR	1997	2047	2,266	2,266	7.150%	No	2,266
316	FY 2024	Bonneville Dam	COE	1997	2047	161	161	7.150%	No	161
317	FY 2024	Chief Joseph	COE	1997	2047	657	657	7.150%	No	657
318	FY 2024	Columbia Basin	BOR	1997	2047	3,393	3,393	7.150%	No	3,393
319	FY 2024	Cougar	COE	1997	2047	26	26	7.150%	No	26
320	FY 2024	Dworshak	COE	1997	2047	7,588	7,588	7.150%	No	7,588
321	FY 2024	Hungry Horse Dam	BOR	1997	2047	111	111	7.150%	No	111
322	FY 2024	Ice Harbor	COE	1997	2047	67	67	7.150%	No	67
323	FY 2024	John Day	COE	1997	2047	179	179	7.150%	No	179
324	FY 2024	Libby	COE	1997	2047	660	660	7.150%	No	660
325	FY 2024	Little Goose	COE	1997	2047	1	1	7.150%	No	1
326	FY 2024	Lower Granite	COE	1997	2047	677	677	7.150%	No	677
327	FY 2024	Lower Snake Fish and Wildlife	LSFW	1997	2047	2,173	2,173	7.150%	No	2,173
328	FY 2024	Minidoka/Palisades	BOR	1997	2047	50,911	18,958	7.150%	No	18,958
329	FY 2024	Bonneville Dam	COE	2000	2050	24,446	24,446	6.125%	No	24,446

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	A	B	C	D	E	F	G	H	I	J
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330	FY 2024	Columbia River Fish Mitigation	COE	2000	2050	47,006	47,006	6.125%	No	47,006
331	FY 2024	Hills Creek	COE	2000	2050	2,630	2,630	6.125%	No	2,630
332	FY 2024	Ice Harbor	COE	2000	2050	548	548	6.125%	No	548
333	FY 2024	John Day	COE	2000	2050	2,761	2,761	6.125%	No	2,761
334	FY 2024	Lookout Dam	COE	2000	2050	5,098	5,098	6.125%	No	5,098
335	FY 2024	Lower Snake Fish and Wildlife	LSFW	2000	2050	1,529	1,529	6.125%	No	1,529
336	FY 2024	The Dalles	COE	2000	2050	2,588	2,588	6.125%	No	2,588
337	FY 2024	Albeni Falls	-	2013	2058	170,434	170,434	6.010%	No	170,434
338	FY 2024	Albeni Falls	-	2014	2059	168,870	168,870	6.010%	No	119,617
339	FY 2024	FY 2024 Subtotal:	-	-	-	619,212	587,259	-	-	538,006
340	FY 2025	Albeni Falls	-	2014	2059	168,870	49,253	6.010%	No	49,253
341	FY 2025	Albeni Falls	-	2015	2060	168,070	168,070	6.010%	No	168,070
342	FY 2025	Albeni Falls	-	2016	2061	163,341	163,341	6.010%	No	163,341
343	FY 2025	Albeni Falls	-	2017	2062	165,027	165,027	6.010%	No	165,027
344	FY 2025	Albeni Falls	-	2018	2063	156,745	156,745	6.010%	No	156,745
345	FY 2025	Albeni Falls	-	2019	2064	156,676	156,676	6.010%	No	108,950
346	FY 2025	FY 2025 Subtotal:	-	-	-	978,729	859,112	-	-	811,385
347	FY 2026	Columbia Basin	BOR	1996	2026	72	-	7.150%	No	-
348	FY 2026	Fish and Wildlife	-	2011	2026	50,000	50,000	4.440%	No	50,000
349	FY 2026	Fish and Wildlife	-	2011	2026	15,000	15,000	4.400%	No	15,000
350	FY 2026	Fish and Wildlife	-	2011	2026	25,000	25,000	4.340%	No	25,000
351	FY 2026	Albeni Falls	-	2019	2064	156,676	47,726	6.010%	No	47,726
352	FY 2026	Albeni Falls	-	2020	2065	156,652	156,652	6.010%	No	156,652
353	FY 2026	Albeni Falls	-	2021	2066	156,652	156,652	6.010%	No	156,652
354	FY 2026	Albeni Falls	-	2022	2067	156,652	156,652	6.010%	No	156,652
355	FY 2026	Albeni Falls	-	2023	2068	156,652	156,652	6.010%	No	156,652
356	FY 2026	Albeni Falls	-	2024	2069	156,652	156,652	6.010%	No	79,390
357	FY 2026	FY 2026 Subtotal:	-	-	-	1,030,008	920,986	-	-	843,725
358	FY 2027	Fish and Wildlife	-	2012	2027	50,000	50,000	4.880%	No	50,000
359	FY 2027	Columbia Basin	BOR	2001	2051	69,226	69,226	5.875%	No	45,042
360	FY 2027	Columbia River Fish Mitigation	COE	2001	2051	6,168	6,168	5.875%	No	6,168
361	FY 2027	Detroit Lake/Big Cliff	COE	2001	2051	282	282	5.875%	No	282
362	FY 2027	Green Peter/Foster	COE	2001	2051	200	200	5.875%	No	200
363	FY 2027	Hills Creek	COE	2001	2051	8	8	5.875%	No	8
364	FY 2027	Hungry Horse Dam	BOR	2001	2051	552	552	5.875%	No	552
365	FY 2027	Ice Harbor	COE	2001	2051	764	764	5.875%	No	764
366	FY 2027	John Day	COE	2001	2051	619	619	5.875%	No	619
367	FY 2027	Libby	COE	2001	2051	5,562	5,562	5.875%	No	5,562
368	FY 2027	Little Goose	COE	2001	2051	4,608	4,608	5.875%	No	4,608
369	FY 2027	Lost Creek	COE	2001	2051	154	154	5.875%	No	154
370	FY 2027	Lower Granite	COE	2001	2051	2,025	2,025	5.875%	No	2,025
371	FY 2027	Lower Monument	COE	2001	2051	3,301	3,301	5.875%	No	3,301
372	FY 2027	Lower Snake Fish and Wildlife	LSFW	2001	2051	325	325	5.875%	No	325
373	FY 2027	McNary	COE	2001	2051	1,046	1,046	5.875%	No	1,046
374	FY 2027	Minidoka/Palisades	BOR	2001	2051	42	42	5.875%	No	42
375	FY 2027	Rogue River Projects - Green Springs	BOR	2001	2051	11,145	11,145	5.875%	No	11,145
376	FY 2027	Yakima Roza	BOR	2001	2051	15	14	5.875%	No	14
377	FY 2027	Bureau Direct	-	2012	2057	211,051	211,051	6.010%	No	211,051
378	FY 2027	Albeni Falls	-	2024	2069	156,652	77,262	6.010%	No	77,262
379	FY 2027	Albeni Falls	-	2025	2070	156,652	156,652	6.010%	No	156,652
380	FY 2027	Albeni Falls	-	2026	2071	156,652	156,652	6.010%	No	156,652
381	FY 2027	Albeni Falls	-	2027	2072	156,652	156,652	6.010%	No	156,652
382	FY 2027	FY 2027 Subtotal:	-	-	-	993,702	914,311	-	-	890,127
383	FY 2028	Bonneville Dam	COE	1999	2049	19,368	19,368	5.375	No	19,368
384	FY 2028	Columbia River Fish Mitigation	COE	1999	2049	14,115	14,115	5.375%	No	14,115
385	FY 2028	Dworshak	COE	1999	2049	630	630	5.375%	No	630
386	FY 2028	Ice Harbor	COE	1999	2049	5,516	5,516	5.375%	No	5,516
387	FY 2028	John Day	COE	1999	2049	3,510	3,510	5.375%	No	3,510
388	FY 2028	Lower Granite	COE	1999	2049	856	856	5.375%	No	856
389	FY 2028	Lower Snake Fish and Wildlife	LSFW	1999	2049	7	7	5.375%	No	7
390	FY 2028	Bonneville Dam	COE	2001	2051	2,530	2,530	5.875	No	2,530
391	FY 2028	Chief Joseph	COE	2001	2051	345	345	5.875%	No	345
392	FY 2028	Columbia Basin	BOR	2001	2051	69,226	24,184	5.875%	No	24,184
393	FY 2028	Bonneville Dam	COE	2002	2052	448	448	5.500%	No	448
394	FY 2028	Chief Joseph	COE	2002	2052	2	2	5.500%	No	2
395	FY 2028	Columbia River Fish Mitigation	COE	2002	2052	8,797	8,797	5.500%	No	8,797
396	FY 2028	Detroit Lake/Big Cliff	COE	2002	2052	18	18	5.500%	No	18
397	FY 2028	Dworshak	COE	2002	2052	199	199	5.5	No	199
398	FY 2028	Hills Creek	COE	2002	2052	2	2	5.500%	No	2
399	FY 2028	Ice Harbor	COE	2002	2052	1,014	1,014	5.500%	No	1,014
400	FY 2028	Little Goose	COE	2002	2052	27	27	5.500%	No	27
401	FY 2028	Lower Granite	COE	2002	2052	1,275	1,275	5.500%	No	1,275
402	FY 2028	Lower Monument	COE	2002	2052	29	29	5.500%	No	29
403	FY 2028	Lower Snake Fish and Wildlife	LSFW	2002	2052	890	890	5.5	No	890
404	FY 2028	The Dalles	COE	2002	2052	1,226	1,226	5.500%	No	1,226
405	FY 2028	Bonneville Dam	COE	2003	2053	4,581	4,581	5.125%	No	4,581
406	FY 2028	Chief Joseph	COE	2003	2053	992	992	5.125%	No	992
407	FY 2028	Columbia River Fish Mitigation	COE	2003	2053	68,440	68,440	5.125%	No	68,440

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408	FY 2028 Detroit Lake/Big Cliff	COE	2003	2053	223	223	5.125%	No	223
409	FY 2028 Dworshak	COE	2003	2053	761	761	5.125%	No	761
410	FY 2028 Ice Harbor	COE	2003	2053	50	50	5.125%	No	50
411	FY 2028 Little Goose	COE	2003	2053	146	146	5.125%	No	146
412	FY 2028 Lookout Dam	COE	2003	2053	135	135	5.125%	No	135
413	FY 2028 Lower Granite	COE	2003	2053	42	42	5.125%	No	42
414	FY 2028 Lower Monument	COE	2003	2053	22	22	5.125%	No	22
415	FY 2028 Lower Snake Fish and Wildlife	LSFW	2003	2053	98	98	5.125%	No	98
416	FY 2028 McNary	COE	2003	2053	97	97	5.75%	No	97
417	FY 2028 Bonneville Dam	COE	2004	2054	26,741	26,741	5.375%	No	26,741
418	FY 2028 Columbia River Fish Mitigation	COE	2004	2054	60,581	60,581	5.375%	No	60,581
419	FY 2028 Cougar	COE	2004	2054	15,748	15,748	5.375%	No	15,748
420	FY 2028 Ice Harbor	COE	2004	2054	3,321	3,321	5.375%	No	3,321
421	FY 2028 John Day	COE	2004	2054	2,830	2,830	5.375%	No	2,830
422	FY 2028 Little Goose	COE	2004	2054	67	67	5.375%	No	67
423	FY 2028 Lower Monument	COE	2004	2054	3,423	3,423	5.375%	No	3,423
424	FY 2028 Lower Snake Fish and Wildlife	LSFW	2004	2054	230	230	5.375%	No	230
425	FY 2028 McNary	COE	2004	2054	6,138	6,138	5.375%	No	6,138
426	FY 2028 The Dalles	COE	2004	2054	182	182	5.375%	No	182
427	FY 2028 Albeni Falls	COE	2005	2055	481	481	5.125%	No	481
428	FY 2028 Boise	BOR	2005	2055	903	903	5.125%	No	903
429	FY 2028 Bonneville Dam	COE	2005	2055	19,725	19,725	5.125%	No	19,725
430	FY 2028 Columbia Basin	BOR	2005	2055	10,963	10,963	5.125%	No	10,963
431	FY 2028 Columbia River Fish Mitigation	COE	2005	2055	52,039	52,039	5.125%	No	52,039
432	FY 2028 Cougar	COE	2005	2055	35,317	35,317	5.125%	No	35,317
433	FY 2028 Detroit Lake/Big Cliff	COE	2005	2055	1,031	1,031	5.125%	No	1,031
434	FY 2028 Dworshak	COE	2005	2055	713	713	5.125%	No	713
435	FY 2028 Hills Creek	COE	2005	2055	46	46	5.125%	No	46
436	FY 2028 Hungry Horse Dam	BOR	2005	2055	2,951	2,951	5.125%	No	2,951
437	FY 2028 John Day	COE	2005	2055	2,827	2,827	5.125%	No	2,827
438	FY 2028 Lookout Dam	COE	2005	2055	7,355	7,355	5.125%	No	7,355
439	FY 2028 Lower Granite	COE	2005	2055	393	393	5.125%	No	393
440	FY 2028 Lower Monument	COE	2005	2055	527	527	5.125%	No	527
441	FY 2028 Lower Snake Fish and Wildlife	LSFW	2005	2055	4	4	5.125%	No	4
442	FY 2028 McNary	COE	2005	2055	550	550	5.125%	No	550
443	FY 2028 The Dalles	COE	2005	2055	36,019	36,019	5.125%	No	36,019
444	FY 2028 Yakima Chandler/Kenniwick	BOR	2005	2055	833	833	5.125%	No	833
445	FY 2028 Columbia River Fish Mitigation	COE	2006	2056	366,395	366,395	4.500%	No	100,522
446	FY 2028 John Day	COE	2006	2056	601	601	4.500%	No	601
447	FY 2028 Lower Monument	COE	2006	2056	285	285	4.5%	No	285
448	FY 2028 Lower Snake Fish and Wildlife	LSFW	2006	2056	379	379	4.500%	No	379
449	FY 2028 McNary	COE	2006	2056	4,080	4,080	4.500%	No	4,080
450	FY 2028 The Dalles	COE	2006	2056	2,030	2,030	4.500%	No	2,030
451	FY 2028 Boise	BOR	2007	2057	76	76	5%	No	76
452	FY 2028 Bonneville Dam	COE	2007	2057	1,124	1,124	5.000%	No	1,124
453	FY 2028 Columbia Basin	BOR	2007	2057	929	929	5.000%	No	929
454	FY 2028 Columbia River Fish Mitigation	COE	2007	2057	53,525	53,525	5.000%	No	53,525
455	FY 2028 Cougar	COE	2007	2057	521	521	5.000%	No	521
456	FY 2028 Hungry Horse Dam	BOR	2007	2057	294	294	5%	No	294
457	FY 2028 John Day	COE	2007	2057	233	233	5.000%	No	233
458	FY 2028 Lookout Dam	COE	2007	2057	572	572	5.000%	No	572
459	FY 2028 The Dalles	COE	2007	2057	140	140	5.000%	No	140
460	FY 2028 Boise	BOR	2008	2058	64	64	4.875%	No	64
461	FY 2028 Bonneville Dam	COE	2008	2058	14,609	14,609	4.875%	No	14,609
462	FY 2028 Chief Joseph	COE	2008	2058	3,500	3,500	4.875%	No	3,500
463	FY 2028 Columbia Basin	BOR	2008	2058	835	835	4.875%	No	835
464	FY 2028 Columbia River Fish Mitigation	COE	2008	2058	36,554	36,554	4.875%	No	36,554
465	FY 2028 Dworshak	COE	2008	2058	10	10	4.875%	No	10
466	FY 2028 Hungry Horse Dam	BOR	2008	2058	76	76	4.875%	No	76
467	FY 2028 Ice Harbor	COE	2008	2058	14	14	4.875%	No	14
468	FY 2028 Libby	COE	2008	2058	1,567	1,567	4.875%	No	1,567
469	FY 2028 Little Goose	COE	2008	2058	13	13	4.875%	No	13
470	FY 2028 Lower Granite	COE	2008	2058	24	24	4.875%	No	24
471	FY 2028 Lower Monument	COE	2008	2058	9	9	4.875%	No	9
472	FY 2028 Lower Snake Fish and Wildlife	LSFW	2008	2058	74	74	4.875%	No	74
473	FY 2028 McNary	COE	2008	2058	215	215	4.875%	No	215
474	FY 2028 The Dalles	COE	2008	2058	1,652	1,652	4.875%	No	1,652
475	FY 2028 Columbia River Fish Mitigation	-	2012	2062	103,279	103,279	4.510%	No	103,279
476	FY 2028 Albeni Falls	-	2028	2073	156,652	156,652	6.010%	No	156,652
477	FY 2028 Subtotal:	-	-	-	1,247,880	1,202,838	-	-	936,965
478	FY 2029 Boise	BOR	2006	2056	15	15	4.500%	No	15
479	FY 2029 Bonneville Dam	COE	2006	2056	2,628	2,628	4.500%	No	2,628
480	FY 2029 Columbia Basin	BOR	2006	2056	1,987	1,987	4.500%	No	1,987
481	FY 2029 Columbia River Fish Mitigation	COE	2006	2056	366,395	265,873	4.5%	No	265,873
482	FY 2029 Cougar	COE	2006	2056	474	474	4.500%	No	474
483	FY 2029 Dworshak	COE	2006	2056	73	73	4.500%	No	73
484	FY 2029 Albeni Falls	COE	2009	2059	57	57	4.375%	No	57
485	FY 2029 Boise	BOR	2009	2059	2	2	4.375%	No	2
486	FY 2029 Bonneville Dam	COE	2009	2059	2,744	2,744	4.375%	No	2,744
487	FY 2029 Chief Joseph	COE	2009	2059	24,727	24,727	4.375%	No	24,727
488	FY 2029 Columbia Basin	BOR	2009	2059	1,338	1,338	4.375%	No	1,338
489	FY 2029 Columbia River Fish Mitigation	COE	2009	2059	103,203	103,203	4.375%	No	103,203

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490	FY 2029	Cougar	COE	2009	2059	121	121	4.375%	No	121
491	FY 2029	Dworshak	COE	2009	2059	2,496	2,496	4.375%	No	2,496
492	FY 2029	Hungry Horse Dam	BOR	2009	2059	60	60	4.375%	No	60
493	FY 2029	Ice Harbor	COE	2009	2059	2,615	2,615	4.375%	No	2,615
494	FY 2029	John Day	COE	2009	2059	1,548	1,548	4.375%	No	1,548
495	FY 2029	Little Goose	COE	2009	2059	3,171	3,171	4.375%	No	3,171
496	FY 2029	Lower Granite	COE	2009	2059	5,669	5,669	4.375%	No	5,669
497	FY 2029	Lower Monument	COE	2009	2059	2,332	2,332	4.375%	No	2,332
498	FY 2029	Lower Snake Fish and Wildlife	LSFW	2009	2059	1,540	1,540	4.375%	No	1,540
499	FY 2029	Yakima Chandler/Kenniwick	BOR	2009	2059	15	15	4.375%	No	15
500	FY 2029	Albeni Falls	COE	2010	2060	42	42	4.250%	No	42
501	FY 2029	Columbia Basin	BOR	2010	2060	773	773	4.250%	No	773
502	FY 2029	Columbia River Fish Mitigation	COE	2010	2060	56,586	56,586	4.250%	No	56,586
503	FY 2029	Cougar	COE	2010	2060	256	256	4.250%	No	256
504	FY 2029	Green Peter/Foster	COE	2010	2060	1	1	4.25	No	1
505	FY 2029	Hungry Horse Dam	BOR	2010	2060	783	783	4.250%	No	783
506	FY 2029	Ice Harbor	COE	2010	2060	207	207	4.250%	No	207
507	FY 2029	John Day	COE	2010	2060	356	356	4.250%	No	356
508	FY 2029	Libby	COE	2010	2060	40	40	4.250%	No	40
509	FY 2029	Little Goose	COE	2010	2060	30	30	4.250%	No	30
510	FY 2029	Lower Granite	COE	2010	2060	1,157	1,157	4.250%	No	1,157
511	FY 2029	Lower Snake Fish and Wildlife	LSFW	2010	2060	6	6	4.250%	No	6
512	FY 2029	Columbia River Fish Mitigation	-	2011	2061	205,834	205,834	3.750%	No	205,834
513	FY 2029	Albeni Falls	-	2029	2074	156,652	156,652	6.010%	No	156,652
514	FY 2029	Subtotal:	-	-	-	945,934	845,412	-	-	845,412
515	FY 2030	Albeni Falls	-	2030	2075	156,652	156,652	6.010%	No	156,652
516	FY 2030	Subtotal:	-	-	-	156,652	156,652	-	-	156,652
517	FY 2031	Albeni Falls	-	2031	2076	156,652	156,652	6.010%	No	156,652
518	FY 2031	Subtotal:	-	-	-	156,652	156,652	-	-	156,652
519	FY 2032	Albeni Falls	-	2032	2077	156,652	156,652	6.01	No	156,652
520	FY 2032	Subtotal:	-	-	-	156,652	156,652	-	-	156,652
521	FY 2033	Lower Snake Fish and Wildlife	LSFW	1983	2033	30,488	-	7.150%	No	-
522	FY 2033	Albeni Falls	-	2033	2078	156,652	156,652	6.010%	No	156,652
523	FY 2033	Subtotal:	-	-	-	187,140	156,652	-	-	156,652
524	FY 2034	Albeni Falls	-	2034	2079	156,652	156,652	6.010%	No	156,652
525	FY 2034	Subtotal:	-	-	-	156,652	156,652	-	-	156,652
526	FY 2035	Bureau Direct	-	2011	2035	20,000	20,000	4.210%	No	20,000
527	FY 2035	Albeni Falls	-	2035	2080	156,652	156,652	6.010%	No	156,652
528	FY 2035	Subtotal:	-	-	-	176,652	176,652	-	-	176,652
529	FY 2036	Bureau Direct	-	2011	2036	30,000	30,000	5.430%	No	30,000
530	FY 2036	Albeni Falls	-	2036	2081	156,652	156,652	6.010%	No	156,652
531	FY 2036	Subtotal:	-	-	-	186,652	186,652	-	-	186,652
532	FY 2037	Bureau Direct	-	2011	2037	35,000	35,000	5.530%	No	35,000
533	FY 2037	Albeni Falls	-	2037	2082	156,652	156,652	6.010%	No	156,652
534	FY 2037	Subtotal:	-	-	-	191,652	191,652	-	-	191,652
535	FY 2038	Bureau Direct	-	2011	2038	30,000	30,000	5.64	No	30,000
536	FY 2038	Albeni Falls	-	2038	2083	156,652	156,652	6.010%	No	156,652
537	FY 2038	Subtotal:	-	-	-	186,652	186,652	-	-	186,652
538	FY 2039	Bureau Direct	-	2009	2039	25,000	25,000	5.192%	No	25,000
539	FY 2039	Bureau Direct	-	2011	2039	35,000	35,000	5.040%	No	35,000
540	FY 2039	Albeni Falls	-	2039	2084	156,652	156,652	6.010%	No	156,652
541	FY 2039	Subtotal:	-	-	-	216,652	216,652	-	-	216,652
542	FY 2040	Bureau Direct	-	2011	2040	50,000	50,000	5.000%	No	50,000
543	FY 2040	Albeni Falls	-	2040	2085	156,652	156,652	6.010%	No	156,652
544	FY 2040	Subtotal:	-	-	-	206,652	206,652	-	-	206,652
545	FY 2041	Albeni Falls	-	2041	2086	156,652	156,652	6.010%	No	156,652
546	FY 2041	Subtotal:	-	-	-	156,652	156,652	-	-	156,652
547	FY 2042	Albeni Falls	-	2042	2087	156,652	156,652	6.010%	No	156,652
548	FY 2042	Subtotal:	-	-	-	156,652	156,652	-	-	156,652
549	FY 2043	Albeni Falls	-	2043	2088	156,652	156,652	6.010%	No	156,652
550	FY 2043	Subtotal:	-	-	-	156,652	156,652	-	-	156,652
551	FY 2044	Albeni Falls	-	2044	2089	156,652	156,652	6.010%	No	156,652
552	FY 2044	Subtotal:	-	-	-	156,652	156,652	-	-	156,652
553	FY 2045	Columbia Basin	BOR	1995	2045	287	-	7.150%	No	-
554	FY 2045	Albeni Falls	-	2045	2090	156,652	156,652	6.010%	No	156,652
555	FY 2045	Subtotal:	-	-	-	156,939	156,652	-	-	156,652
556	FY 2046	Boise	BOR	1996	2046	442	-	7.150%	No	-
557	FY 2046	Albeni Falls	-	2046	2091	156,652	156,652	6.010%	No	156,652
558	FY 2046	Subtotal:	-	-	-	157,094	156,652	-	-	156,652
559	FY 2047	Hungry Horse Dam	BOR	1997	2047	111	-	7.150%	No	-
560	FY 2047	Minidoka/Pallsades	BOR	1997	2047	50,911	18,958	7.150%	No	-
561	FY 2047	Albeni Falls	-	2047	2092	156,652	156,652	6.010%	No	156,652
562	FY 2047	Subtotal:	-	-	-	207,674	175,610	-	-	156,652
563	FY 2048	Albeni Falls	-	2048	2093	156,652	156,652	6.010%	No	156,652
564	FY 2048	Subtotal:	-	-	-	156,652	156,652	-	-	156,652
565	FY 2049	Bonneville Dam	COE	1999	2049	19,368	-	5.375%	No	-
566	FY 2049	Columbia River Fish Mitigation	COE	1999	2049	14,115	-	5.375%	No	-
567	FY 2049	John Day	COE	1999	2049	3,510	-	5.375%	No	-
568	FY 2049	Albeni Falls	-	2049	2094	156,652	156,652	6.010%	No	156,652
569	FY 2049	Subtotal:	-	-	-	193,644	156,652	-	-	156,652
570	FY 2050	Bonneville Dam	COE	2000	2050	24,446	-	6.125%	No	-
571	FY 2050	Hills Creek	COE	2000	2050	2,630	-	6.125%	No	-

TABLE 12B: Application of Amortization
October 1, 2010 - September 30, 2012 Cost Evaluation Period
(\$000s) (FY 2012)

	A	B	C	D	E	F	G	H	I	J
	Fiscal Year	Project	Appropriation Type	In Service	Due Date	Original Principal	Current Balance	Rate	Rollover	Amount Amortized
572	FY 2050	Ice Harbor	COE	2000	2050	548		6.125%	No	
573	FY 2050	John Day	COE	2000	2050	2,761		6.125%	No	
574	FY 2050	Lookout Dam	COE	2000	2050	5,098		6.125%	No	
575	FY 2050	The Dalles	COE	2000	2050	2,588		6.125%	No	
576	FY 2050	Albeni Falls	-	2050	2095	156,652	156,652	6.01	No	156,652
577		FY 2050 Subtotal:	-	-	-	194,724	156,652		-	156,652
578	FY 2051	Bonneville Dam	COE	2001	2051	2,530		5.875%	No	
579	FY 2051	Chief Joseph	COE	2001	2051	345		5.875%	No	
580	FY 2051	Detroit Lake/Big Cliff	COE	2001	2051	282		5.875%	No	
581	FY 2051	Green Peter/Foster	COE	2001	2051	200		5.875%	No	
582	FY 2051	Hungry Horse Dam	BOR	2001	2051	552		5.875%	No	
583	FY 2051	Ice Harbor	COE	2001	2051	764		5.875%	No	
584	FY 2051	Little Goose	COE	2001	2051	4,608		5.875%	No	
585	FY 2051	Lost Creek	COE	2001	2051	154		5.875	No	
586	FY 2051	Lower Monument	COE	2001	2051	3,301		5.875%	No	
587	FY 2051	Albeni Falls	-	2051	2096	156,652	156,652	6.010%	No	156,652
588		FY 2051 Subtotal:	-	-	-	169,390	156,652		-	156,652
589	FY 2052	Detroit Lake/Big Cliff	COE	2002	2052	18		5.500%	No	
590	FY 2052	Dworshak	COE	2002	2052	199		5.500%	No	
591	FY 2052	Hills Creek	COE	2002	2052	2		5.500%	No	
592	FY 2052	Little Goose	COE	2002	2052	27		5.500%	No	
593	FY 2052	Lower Monument	COE	2002	2052	29		5.500%	No	
594	FY 2052	Albeni Falls	-	2052	2097	156,652	156,652	6.010%	No	156,652
595		FY 2052 Subtotal:	-	-	-	156,927	156,652		-	156,652
596	FY 2053	Bonneville Dam	COE	2003	2053	4,581		5.125%	No	
597	FY 2053	Detroit Lake/Big Cliff	COE	2003	2053	223		5.125%	No	
598	FY 2053	Ice Harbor	COE	2003	2053	50		5.125	No	
599	FY 2053	Lookout Dam	COE	2003	2053	135		5.125%	No	
600	FY 2053	Lower Monument	COE	2003	2053	22		5.125%	No	
601	FY 2053	Albeni Falls	-	2053	2098	156,652	156,652	6.010%	No	156,652
602		FY 2053 Subtotal:	-	-	-	161,663	156,652		-	156,652
603	FY 2054	Bonneville Dam	COE	2004	2054	26,741		5.375%	No	
604	FY 2054	Ice Harbor	COE	2004	2054	3,321		5.375%	No	
605	FY 2054	Lower Monument	COE	2004	2054	3,423		5.375%	No	
606	FY 2054	Lower Snake Fish and Wildlife	LSFW	2004	2054	230		5.375%	No	
607	FY 2054	The Dalles	COE	2004	2054	182		5.375%	No	
608	FY 2054	Albeni Falls	-	2054	2099	156,652	156,652	6.010%	No	156,652
609		FY 2054 Subtotal:	-	-	-	190,549	156,652		-	156,652
610	FY 2055	Columbia Basin	BOR	2005	2055	10,963		5.125%	No	
611	FY 2055	Hungry Horse Dam	BOR	2005	2055	2,951		5.125%	No	
612	FY 2055	McNary	COE	2005	2055	550		5.125%	No	
613	FY 2055	The Dalles	COE	2005	2055	36,019	36,019	5.125%	No	
614	FY 2055	Yakima Chandler/Kenniwick	BOR	2005	2055	833		5.125%	No	
615	FY 2055	Albeni Falls	-	2055	2100	156,652	156,652	6.010%	No	156,652
616		FY 2055 Subtotal:	-	-	-	207,967	192,671	-	-	156,652
617	FY 2056	Columbia Basin	BOR	2006	2056	1,987		4.500%	No	
618	FY 2056	Lower Snake Fish and Wildlife	LSFW	2006	2056	379		4.500%	No	
619	FY 2056	Albeni Falls	-	2056	2101	156,652	156,652	6.010%	No	156,652
620		FY 2056 Subtotal:	-	-	-	159,018	156,652		-	156,652
621	FY 2057	Boise	BOR	2007	2057	76		5.000%	No	
622	FY 2057	Columbia Basin	BOR	2007	2057	929		5.000%	No	
623	FY 2057	Cougar	COE	2007	2057	521		5.000%	No	
624	FY 2057	Hungry Horse Dam	BOR	2007	2057	294		5.000%	No	
625	FY 2057	Lookout Dam	COE	2007	2057	572		5.000%	No	
626	FY 2057	Albeni Falls	-	2057	2102	156,652	156,652	6.010%	No	156,652
627		FY 2057 Subtotal:	-	-	-	159,043	156,652		-	156,652
628	FY 2058	Columbia Basin	BOR	2008	2058	835		4.875%	No	
629	FY 2058	Columbia River Fish Mitigation	COE	2008	2058	36,554	36,554	4.875%	No	
630	FY 2058	Dworshak	COE	2008	2058	10		4.875%	No	
631	FY 2058	Hungry Horse Dam	BOR	2008	2058	76		4.875%	No	
632	FY 2058	Libby	COE	2008	2058	1,567		4.875%	No	
633	FY 2058	Lower Granite	COE	2008	2058	24		4.875%	No	
634	FY 2058	Lower Snake Fish and Wildlife	LSFW	2008	2058	74		4.875%	No	
635	FY 2058	Albeni Falls	-	2058	2103	156,652	156,652	6.01	No	156,652
636		FY 2058 Subtotal:	-	-	-	195,792	193,206		-	156,652
637	FY 2059	Albeni Falls	COE	2009	2059	57		4.375%	No	
638	FY 2059	Chief Joseph	COE	2009	2059	24,727		4.375%	No	
639	FY 2059	Hungry Horse Dam	BOR	2009	2059	60		4.375%	No	
640	FY 2059	Ice Harbor	COE	2009	2059	2,615		4.375%	No	
641	FY 2059	Little Goose	COE	2009	2059	3,171		4.375%	No	
642	FY 2059	Yakima Chandler/Kenniwick	BOR	2009	2059	15		4.375%	No	
643	FY 2059	Albeni Falls	-	2059	2104	156,652	156,652	6.010%	No	156,652
644		FY 2059 Subtotal:	-	-	-	187,298	156,652		-	156,652
645	FY 2060	Columbia Basin	BOR	2010	2060	773		4.250%	No	
646	FY 2060	Cougar	COE	2010	2060	256		4.250%	No	
647	FY 2060	Green Peter/Foster	COE	2010	2060	1		4.250%	No	
648	FY 2060	Hungry Horse Dam	BOR	2010	2060	783		4.250%	No	
649	FY 2060	Ice Harbor	COE	2010	2060	207		4.250%	No	
650	FY 2060	Libby	COE	2010	2060	40		4.25	No	
651	FY 2060	Lower Granite	COE	2010	2060	1,157		4.250%	No	

TABLE 12B: Application of Amortization
October 1, 2010 - September 30, 2012 Cost Evaluation Period
(\$000s) (FY 2012)

	A	B	C	D	E	F	G	H	I	J
	Fiscal Year	Project	Appropriation Type	In Service	Due Date	Original Principal	Current Balance	Rate	Rollover	Amount Amortized
652	FY 2060	Albeni Falls	-	2060	2105	156,652	156,652	6.010%	No	156,652
653		FY 2060 Subtotal:	-	-	-	159,869	156,652	-	-	156,652
654	FY 2061	Albeni Falls	-	2061	2106	156,652	156,652	6.010%	No	156,652
655		FY 2061 Subtotal:	-	-	-	156,652	156,652	-	-	156,652
656	FY 2062	Albeni Falls	-	2062	2107	156,652	156,652	6.010%	No	156,652
657		FY 2062 Subtotal:	-	-	-	156,652	156,652	-	-	156,652
658	Grand Total:		-	-	-	15,732,790	14,308,958		-	13,298,976

**TABLE 12C: Summary of Interest
October 1, 2010 - September 30, 2012 Cost Evaluation Period
(\$000s) (FY 2012)**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
2	Boise	295	295	295	295	295	295	295	295	295	295	295	295	295	216	54	54	54	54
3	Columbia Basin	5,423	5,423	5,423	5,423	5,423	5,423	5,423	5,423	5,418	5,418	5,418	5,392	5,392	5,139	4,897	4,897	4,897	2,251
4	Columbia Basin 3rd Powerhouse	32,565	32,565	32,565	32,565	32,565	32,565	32,565	30,254	29,405	22,249	18,653	11,518	903	-	-	-	-	-
5	Hungry Horse Dam	814	814	814	814	814	814	814	814	814	814	814	690	690	246	238	238	238	206
6	Minidoka/Palisades	3,643	3,643	3,643	3,643	3,643	3,643	3,643	3,643	3,643	3,643	3,643	3,643	3,643	1,358	2	2	2	-
7	Rogue River Projects - Green Springs	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655	-
8	Yakima Chandler/Kenniwick	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
9	Yakima Roza	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-
10	Bureau of Reclamation Subtotal:	43,437	43,437	43,437	43,437	43,437	43,437	43,437	41,126	40,273	33,116	29,520	22,236	11,621	7,658	5,890	5,890	5,890	2,553
11	Albeni Falls	208	208	208	10,451	20,601	30,702	40,518	50,437	59,857	69,273	78,688	88,103	97,517	106,784	98,736	59,386	23,502	29
12	Bonneville 2nd Powerhouse	26,226	26,226	26,226	26,226	26,226	26,226	26,226	26,226	26,226	26,226	26,226	16,287	705	-	-	-	-	-
13	Bonneville Dam	7,840	7,840	7,840	7,840	7,840	7,840	7,840	7,840	7,840	6,720	6,720	6,681	6,681	6,413	4,904	4,904	4,904	4,904
14	Chief Joseph	16,242	16,242	16,242	16,242	16,242	16,242	16,242	16,242	14,060	7,753	1,894	1,894	1,894	1,371	1,324	1,324	1,324	1,324
15	Columbia River Fish Mitigation	44,763	52,482	57,140	57,140	57,140	57,140	57,140	57,140	57,140	57,140	57,140	57,140	57,140	54,157	51,278	51,278	51,278	50,916
16	Cougar	2,722	2,722	2,722	2,722	2,722	2,722	2,722	2,722	2,722	2,722	2,722	2,722	2,722	2,722	2,720	2,720	2,720	2,720
17	Detroit Lake/Big Cliff	85	85	85	85	85	85	85	85	85	85	85	85	85	82	82	82	82	65
18	Dworshak	9,053	8,582	5,886	5,886	2,183	893	893	893	893	893	893	863	863	776	233	233	233	233
19	Green Peter/Foster	14	14	14	14	14	14	14	14	14	14	14	14	14	12	12	12	12	12
20	Hills Creek	543	543	166	166	166	166	166	166	166	166	166	166	166	164	3	3	3	2
21	Ice Harbor	2,254	2,254	2,254	2,254	2,254	2,254	2,254	2,254	2,253	773	773	767	767	740	702	702	702	657
22	John Day	2,070	1,433	1,433	1,433	1,433	1,433	1,433	1,433	1,433	1,433	1,433	1,433	1,419	825	644	644	644	607
23	Libby	16,738	16,738	16,738	16,738	16,738	16,738	16,738	13,292	4,675	1,530	1,520	1,509	1,509	452	405	405	405	78
24	Little Goose	4,408	4,406	4,406	4,406	4,406	4,406	4,406	4,406	4,406	4,403	860	860	860	424	424	424	424	153
25	Lookout Dam	730	730	730	730	730	730	730	730	730	730	730	730	730	725	412	412	412	412
26	Lost Creek	1,006	1,006	1,006	1,006	1,006	1,006	1,006	1,006	20	20	18	18	9	9	9	9	9	-
27	Lower Granite	12,441	12,441	12,441	12,441	12,441	11,234	5,433	3,679	3,679	3,276	664	649	649	604	556	556	556	437
28	Lower Monument	3,604	3,604	3,604	3,604	3,604	3,604	3,604	3,604	3,604	3,604	3,604	677	677	523	523	523	523	329
29	McNary	692	692	692	692	692	692	692	692	667	667	667	665	665	619	619	619	619	558
30	The Dalles	4,505	3,660	2,924	2,924	2,924	2,403	2,403	2,403	2,403	2,403	2,403	2,403	2,403	2,261	2,102	2,102	2,102	2,102
31	Corps of Engineers Subtotal:	156,143	161,907	162,756	172,999	179,445	186,529	190,545	195,262	196,039	196,136	193,079	183,664	177,483	179,662	165,687	126,338	90,454	65,527
32	Lower Snake Fish and Wildlife	16,521	16,521	16,521	16,521	16,521	16,521	16,521	16,521	16,521	16,521	16,521	16,521	12,648	423	174	174	174	155
33	Lower Snake Fish & Wildlife Subtotal:	16,521	16,521	16,521	16,521	16,521	16,521	16,521	16,521	16,521	16,521	16,521	16,521	12,648	423	174	174	174	155
34	Appropriations Subtotal:	216,102	221,866	222,715	232,958	239,403	246,487	250,503	252,909	252,833	245,773	239,119	222,421	201,753	187,744	171,752	132,402	96,518	68,236
35	Bureau Direct	23,419	32,587	35,162	35,162	35,162	35,162	35,162	35,162	35,162	32,956	27,076	25,442	25,442	24,345	24,345	24,345	24,345	11,661
36	Conservation	6,715	11,084	13,507	10,180	9,768	8,445	8,445	8,445	8,445	8,445	8,445	8,445	8,445	4,846	-	-	-	-
37	Construction	1,198	1,978	1,730	1,730	1,290	1,196	832	832	-	-	-	-	-	-	-	-	-	-
38	Fish and Wildlife	9,743	12,032	12,563	8,903	8,903	8,903	8,903	8,903	8,903	7,316	7,316	7,316	7,316	7,316	6,405	6,405	2,440	-
39	(Less Interest Income)	(4,373)	(7,755)	(6,666)	(6,054)	(6,746)	(6,513)	(6,756)	(7,670)	(11,042)	(11,668)	(11,896)	(11,736)	(11,758)	(13,155)	(17,655)	(17,531)	(17,832)	(17,877)
40	Coupon Scale Down Premiums	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8,456	-
41	BPA Borrowing Subtotal:	36,702	49,926	56,296	49,921	48,377	47,193	46,586	45,672	41,467	37,050	30,942	29,467	29,446	23,352	13,094	13,218	17,409	(6,216)
42	Treasury Subtotal:	36,702	49,926	56,296	49,921	48,377	47,193	46,586	45,672	41,467	37,050	30,942	29,467	29,446	23,352	13,094	13,218	17,409	(6,216)
43	GRAND TOTAL:	252,803	271,791	279,010	282,878	287,780	293,680	297,089	298,581	294,300	282,823	270,061	251,888	231,199	211,096	184,846	145,620	113,927	62,020

TABLE 12C: Summary of Interest
October 1, 2010 - September 30, 2012 Cost Evaluation Period
(\$000s) (FY 2012)

	A	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN
		2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049
1																						
2	Boise	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Columbia Basin	181	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Columbia Basin 3rd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Hungry Horse Dam	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Minidoka/Palisades	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Rogue River Projects - Green Springs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Yakima Chandler/Kenniwick	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Yakima Roza	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Bureau of Reclamation Subtotal:	218	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Albeni Falls	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Bonneville Dam	238	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Chief Joseph	1,082	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Columbia River Fish Mitigation	26,603	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Cougar	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Dworshak	112	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	Green Peter/Foster	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Hills Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	Ice Harbor	123	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	John Day	83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	Libby	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	Little Goose	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	Lookout Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	Lost Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	Lower Granite	297	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	Lower Monument	102	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	McNary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	The Dalles	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	Corps of Engineers Subtotal:	28,825	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	Lower Snake Fish and Wildlife	68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	Lower Snake Fish & Wildlife Subtotal:	68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	Appropriations Subtotal:	29,110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	Bureau Direct	11,661	11,661	11,661	11,661	11,661	11,661	11,661	10,819	9,190	7,254	5,562	2,500	-	-	-	-	-	-	-	-	-
36	Conservation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	Fish and Wildlife	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	(Less Interest Income)	(18,006)	(18,041)	(17,888)	(18,079)	(18,001)	(18,079)	(17,938)	(17,566)	(17,807)	(18,119)	(17,878)	(18,162)	(18,184)	(16,859)	(18,184)	(15,984)	(9,171)	(9,382)	(9,382)	(9,382)	(9,382)
40	Coupon Scale Down Premiums	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	BPA Borrowing Subtotal:	(6,346)	(6,380)	(6,228)	(6,419)	(6,341)	(6,419)	(6,278)	(6,748)	(8,618)	(10,865)	(12,316)	(15,662)	(18,184)	(16,859)	(18,184)	(15,984)	(9,171)	(9,382)	(9,382)	(9,382)	(9,382)
42	Treasury Subtotal:	(6,346)	(6,380)	(6,228)	(6,419)	(6,341)	(6,419)	(6,278)	(6,748)	(8,618)	(10,865)	(12,316)	(15,662)	(18,184)	(16,859)	(18,184)	(15,984)	(9,171)	(9,382)	(9,382)	(9,382)	(9,382)
43	GRAND TOTAL:	22,765	(6,380)	(6,228)	(6,419)	(6,341)	(6,419)	(6,278)	(6,748)	(8,618)	(10,865)	(12,316)	(15,662)	(18,184)	(16,859)	(18,184)	(15,984)	(9,171)	(9,382)	(9,382)	(9,382)	(9,382)

TABLE 12C: Summary of Interest
October 1, 2010 - September 30, 2012 Cost Evaluation Period
(\$000s) (FY 2012)

	A	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	Total
		2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062		
1																
2	Boise	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,262
3	Columbia Basin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	92,682
4	Columbia Basin 3rd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	340,935
5	Hungry Horse Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11,530
6	Minidoka/Palisades	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48,720
7	Rogue River Projects - Green Springs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11,131
8	Yakima Chandler/Kenniwick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	781
9	Yakima Roza	±	±	±	±	±	±	±	±	±	±	±	±	±	±	14
10	Bureau of Reclamation Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	510,054
11	Albeni Falls	-	-	-	-	-	-	-	-	-	-	-	-	-	-	835,212
12	Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	305,477
13	Bonneville Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	123,634
14	Chief Joseph	-	-	-	-	-	-	-	-	-	-	-	-	-	-	179,526
15	Columbia River Fish Mitigation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,011,296
16	Cougar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49,024
17	Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,492
18	Dworshak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40,496
19	Green Peter/Foster	-	-	-	-	-	-	-	-	-	-	-	-	-	-	225
20	Hills Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,087
21	Ice Harbor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26,991
22	John Day	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22,694
23	Libby	-	-	-	-	-	-	-	-	-	-	-	-	-	-	142,948
24	Little Goose	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48,633
25	Lookout Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11,863
26	Lost Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,164
27	Lower Granite	-	-	-	-	-	-	-	-	-	-	-	-	-	-	94,472
28	Lower Monument	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43,518
29	McNary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11,899
30	The Dalles	±	±	±	±	±	±	±	±	±	±	±	±	±	±	<u>46,829</u>
31	Corps of Engineers Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,008,480
32	Lower Snake Fish and Wildlife	±	±	±	±	±	±	±	±	±	±	±	±	±	±	<u>212,069</u>
33	Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	212,069
34	Appropriations Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,730,603
35	Bureau Direct	-	-	-	-	-	-	-	-	-	-	-	-	-	-	639,040
36	Conservation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	123,658
37	Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10,788
38	Fish and Wildlife	-	-	-	-	-	-	-	-	-	-	-	-	-	-	139,589
39	(Less Interest Income)	(9,382)	(9,382)	(9,382)	(9,382)	(9,382)	(9,382)	(9,382)	(9,382)	(9,382)	(9,382)	(9,382)	(9,382)	(9,382)	(9,382)	(648,121)
40	Coupon Scale Down Premiums	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<u>8,456</u>
41	BPA Borrowing Subtotal:	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	273,410
42	Treasury Subtotal:	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	273,410
43	GRAND TOTAL:	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	<u>(9,382)</u>	4,004,013

**TABLE 12D: Summary of Amortization
October 1, 2010 - September 30, 2012 Cost Evaluation Period
(\$000s) (FY 2012)**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
1																	
2	Boise	-	-	-	-	-	-	-	-	-	-	-	-	1,098	2,266	-	-
3	Columbia Basin	-	-	-	-	-	-	-	72	-	-	360	-	3,534	3,393	-	-
4	Columbia Basin 3rd Powerhouse	-	-	-	-	-	-	32,278	11,847	100,095	50,295	99,784	148,459	12,631	-	-	-
5	Hungry Horse Dam	-	-	-	-	-	-	-	-	-	-	1,731	-	6,207	111	-	-
6	Minidoka/Palisades	-	-	-	-	-	-	-	-	-	-	-	-	31,953	18,958	-	-
7	Rogue River Projects - Green Springs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Yakima Chandler/Kenniwick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Yakima Roza	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Bureau of Reclamation Subtotal:	-	-	-	-	-	-	32,278	11,920	100,095	50,295	101,875	148,459	55,423	24,728	-	-
11	Albeni Falls	-	-	-	-	-	-	-	-	-	-	-	-	2,079	290,482	811,385	753,725
12	Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	-	-	139,008	217,921	9,867	-	-	-
13	Bonneville Dam	-	-	-	-	-	-	-	-	15,670	-	540	-	3,756	24,607	-	-
14	Chief Joseph	-	-	-	-	-	-	-	-	30,512	88,210	81,956	-	7,313	657	-	-
15	Columbia River Fish Mitigation	-	-	-	-	-	-	-	-	-	-	-	-	41,713	47,006	-	-
16	Cougar	-	-	-	-	-	-	-	-	-	-	-	-	-	26	-	-
17	Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	-	-	-	-	38	-	-	-
18	Dworshak	6,552	37,499	-	51,506	17,936	-	-	-	-	-	427	-	1,215	7,588	-	-
19	Green Peter/Foster	-	-	-	-	-	-	-	-	-	-	-	-	26	-	-	-
20	Hills Creek	-	5,263	-	-	-	-	-	-	-	-	-	-	28	2,630	-	-
21	Ice Harbor	-	1	-	-	-	-	-	21	20,700	-	78	-	371	615	-	-
22	John Day	8,837	-	-	-	-	-	-	-	-	-	-	195	8,298	2,940	-	-
23	Libby	-	-	-	-	-	-	48,138	120,514	43,977	152	150	-	14,781	660	-	-
24	Little Goose	28	-	-	-	-	-	-	-	47	49,550	-	-	6,101	1	-	-
25	Lookout Dam	-	-	-	-	-	-	-	-	-	-	-	-	72	5,098	-	-
26	Lost Creek	-	-	-	-	-	-	-	-	13,793	-	31	-	118	-	-	-
27	Lower Granite	-	-	-	-	16,855	81,014	24,503	-	5,630	36,532	206	-	634	677	-	-
28	Lower Monument	-	-	-	-	-	-	-	-	-	-	40,925	-	2,160	-	-	-
29	McNary	-	-	-	-	-	-	-	351	-	-	30	-	635	-	-	-
30	The Dalles	<u>11,746</u>	<u>10,237</u>	-	-	<u>7,268</u>	-	-	-	-	-	-	-	<u>1,991</u>	<u>2,588</u>	-	-
31	Corps of Engineers Subtotal:	27,163	53,000	-	51,506	42,059	81,014	72,641	120,886	130,329	174,444	263,351	218,116	101,196	385,576	811,385	753,725
32	Lower Snake Fish and Wildlife	-	-	-	-	-	-	-	-	-	-	-	<u>54,161</u>	<u>170,980</u>	<u>3,702</u>	-	-
33	Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-	-	-	-	-	-	54,161	170,980	3,702	-	-
34	Appropriations Subtotal:	27,163	53,000	-	51,506	42,059	81,014	104,919	132,805	230,424	224,739	365,226	420,736	327,600	414,006	811,385	753,725
35	Bureau Direct	115,000	100,000	-	-	-	-	-	-	69,000	165,000	47,000	-	25,000	-	-	-
36	Conservation	-	-	62,800	15,000	60,000	-	-	-	-	-	-	-	90,000	104,000	-	-
37	Construction	-	20,000	-	14,950	12,500	14,000	-	21,399	-	-	-	-	-	-	-	-
38	Fish and Wildlife	<u>20,000</u>	<u>20,000</u>	<u>60,000</u>	-	-	-	-	-	<u>46,000</u>	-	-	-	-	<u>20,000</u>	-	<u>90,000</u>
39	BPA Borrowing Subtotal:	<u>135,000</u>	<u>140,000</u>	<u>122,800</u>	<u>29,950</u>	<u>72,500</u>	<u>14,000</u>	-	<u>21,399</u>	<u>115,000</u>	<u>165,000</u>	<u>47,000</u>	-	<u>115,000</u>	<u>124,000</u>	-	<u>90,000</u>
40	Discounts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	Premiums	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	Make Whole Call Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	Treasury Subtotal:	135,000	140,000	122,800	29,950	72,500	14,000	-	21,399	115,000	165,000	47,000	-	115,000	124,000	-	90,000
44	GRAND TOTAL:	162,163	193,000	122,800	81,456	114,559	95,014	104,919	154,204	345,424	389,739	412,226	420,736	442,600	538,006	811,385	843,725

TABLE 12D: Summary of Amortization
October 1, 2010 - September 30, 2012 Cost Evaluation Period
(\$000s) (FY 2012)

	A	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK
1		2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
2	Boise	-	1,043	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Columbia Basin	45,042	36,910	4,098	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Columbia Basin 3rd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Hungry Horse Dam	552	3,321	844	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Minidoka/Palisades	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Rogue River Projects - Green Springs	11,145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Yakima Chandler/Kenniwick	-	833	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Yakima Roza	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Bureau of Reclamation Subtotal:	56,796	42,106	4,974	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Albeni Falls	547,218	157,133	156,751	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652
12	Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Bonneville Dam	-	89,126	5,372	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Chief Joseph	-	4,839	24,727	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Columbia River Fish Mitigation	6,168	497,852	631,496	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Cougar	-	51,586	851	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	Detroit Lake/Big Cliff	282	1,272	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Dworshak	-	2,312	2,569	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	Green Peter/Foster	200	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Hills Creek	8	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	Ice Harbor	764	9,914	2,822	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	John Day	619	10,000	1,903	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	Libby	5,562	1,567	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	Little Goose	4,608	253	3,201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	Lookout Dam	-	8,062	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	Lost Creek	154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	Lower Granite	2,025	2,589	6,826	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	Lower Monument	3,301	4,296	2,332	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	McNary	1,046	11,079	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	The Dalles	-	<u>41,248</u>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	Corps of Engineers Subtotal:	571,955	893,177	838,892	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652
32	Lower Snake Fish and Wildlife	<u>325</u>	<u>1,682</u>	<u>1,545</u>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	Lower Snake Fish & Wildlife Subtotal:	325	1,682	1,545	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	Appropriations Subtotal:	629,076	936,965	845,412	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652
35	Bureau Direct	211,051	-	-	-	-	-	-	20,000	30,000	35,000	30,000	60,000	50,000	-	-	-	-	-	-	-
36	Conservation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	Fish and Wildlife	<u>50,000</u>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	BPA Borrowing Subtotal:	<u>261,051</u>	-	-	-	-	-	-	-	<u>20,000</u>	<u>30,000</u>	<u>35,000</u>	<u>30,000</u>	<u>60,000</u>	<u>50,000</u>	-	-	-	-	-	-
40	Discounts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	Premiums	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	Make Whole Call Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	Treasury Subtotal:	261,051	-	-	-	-	-	-	-	20,000	30,000	35,000	30,000	60,000	50,000	-	-	-	-	-	-
44	GRAND TOTAL:	890,127	936,965	845,412	156,652	156,652	156,652	156,652	156,652	176,652	186,652	191,652	186,652	216,652	206,652	156,652	156,652	156,652	156,652	156,652	156,652

TABLE 12D: Summary of Amortization
October 1, 2010 - September 30, 2012 Cost Evaluation Period
(\$000s) (FY 2012)

	A	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB
1		2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	Total
2	Boise	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,425
3	Columbia Basin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	93,409
4	Columbia Basin 3rd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	455,389
5	Hungry Horse Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12,766
6	Minidoka/Palisades	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50,953
7	Rogue River Projects - Green Springs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11,145
8	Yakima Chandler/Kenniwick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	848
9	Yakima Roza	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
10	Bureau of Reclamation Subtotal:																	628,949
11	Albeni Falls	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	7,888,289
12	Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	366,796
13	Bonneville Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	139,071
14	Chief Joseph	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	238,215
15	Columbia River Fish Mitigation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,224,234
16	Cougar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52,463
17	Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,592
18	Dworshak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	127,604
19	Green Peter/Foster	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	227
20	Hills Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7,976
21	Ice Harbor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35,286
22	John Day	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32,793
23	Libby	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	235,541
24	Little Goose	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63,790
25	Lookout Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13,232
26	Lost Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14,096
27	Lower Granite	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	177,491
28	Lower Monument	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53,014
29	McNary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13,142
30	The Dalles	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75,078
31	Corps of Engineers Subtotal:	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	10,759,930
32	Lower Snake Fish and Wildlife	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	232,396
33	Lower Snake Fish & Wildlife Subtotal:																	232,396
34	Appropriations Subtotal:	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	11,621,276
35	Bureau Direct	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	957,051
36	Conservation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	331,800
37	Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82,849
38	Fish and Wildlife	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	306,000
39	BPA Borrowing Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,677,700
40	Discounts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	Premiums	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	Make Whole Call Subtotal:																	
43	Treasury Subtotal:																	1,677,700
44	GRAND TOTAL:	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	156,652	13,298,976

13. REPAYMENT STUDY INPUT FILES, FY 2013 STUDY

TABLE 13A: HISTORICAL INVESTMENT
October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
1	Albeni Falls	25,494	-	6.910%	2005	1955	9	-	-
2	Albeni Falls	11	-	6.910%	2005	1956	9	-	-
3	Albeni Falls	10	-	6.910%	2005	1957	9	-	-
4	Albeni Falls	11	-	6.910%	2005	1958	9	-	-
5	Albeni Falls	11	-	6.910%	2005	1959	9	-	-
6	Albeni Falls	10	-	6.910%	2005	1960	9	-	-
7	Albeni Falls	11	-	6.910%	2005	1961	9	-	-
8	Albeni Falls	11	-	6.910%	2005	1962	9	-	-
9	Albeni Falls	10	-	6.910%	2005	1963	9	-	-
10	Albeni Falls	11	-	6.910%	2005	1964	9	-	-
11	Albeni Falls	11	-	6.910%	2005	1965	9	-	-
12	Albeni Falls	10	-	6.910%	2005	1966	9	-	-
13	Albeni Falls	11	-	6.910%	2005	1967	9	-	-
14	Albeni Falls	11	-	6.910%	2005	1968	9	-	-
15	Albeni Falls	10	-	6.910%	2005	1969	9	-	-
16	Albeni Falls	11	-	6.910%	2005	1970	9	-	-
17	Albeni Falls	11	-	6.910%	2005	1971	9	-	-
18	Albeni Falls	10	-	6.910%	2005	1972	9	-	-
19	Albeni Falls	11	-	6.910%	2005	1973	9	-	-
20	Albeni Falls	11	-	6.910%	2005	1974	9	-	-
21	Albeni Falls	10	-	6.910%	2005	1975	9	-	-
22	Albeni Falls	11	-	6.910%	2005	1976	9	-	-
23	Albeni Falls	11	-	6.910%	2005	1977	9	-	-
24	Albeni Falls	10	-	6.910%	2005	1978	9	-	-
25	Albeni Falls	11	-	6.910%	2005	1979	9	-	-
26	Albeni Falls	11	-	6.910%	2005	1980	9	-	-
27	Albeni Falls	10	-	6.910%	2005	1981	9	-	-
28	Albeni Falls	11	-	6.910%	2005	1982	9	-	-
29	Albeni Falls	11	-	6.910%	2005	1983	9	-	-
30	Albeni Falls	7	-	6.910%	2005	1985	9	-	-
31	Albeni Falls	293	-	6.910%	2005	1986	9	-	-
32	Albeni Falls	12	-	6.910%	2005	1987	9	-	-
33	Albeni Falls	15	-	8.888%	2005	1987	9	-	-
34	Albeni Falls	328	-	8.500%	2005	1988	9	-	-
35	Albeni Falls	221	-	9.250%	2005	1989	9	-	-
36	Albeni Falls	1,287	-	8.875%	2005	1990	9	-	-
37	Albeni Falls	43	-	8.750%	2005	1991	9	-	-
38	Albeni Falls	111	-	8.750%	2005	1991	9	-	-
39	Albeni Falls	7	-	8.500%	2005	1992	9	-	-
40	Albeni Falls	106	-	8.500%	2005	1992	9	-	-
41	Albeni Falls	295	-	7.875%	2005	1993	9	-	-
42	Albeni Falls	714	-	7.875%	2005	1993	9	-	-
43	Albeni Falls	61	-	7.125%	2019	1994	9	-	-
44	Albeni Falls	173	-	7.125%	2019	1994	9	-	-
45	Albeni Falls	17	-	7.090%	2010	1995	9	-	-
46	Albeni Falls	51	-	7.890%	2010	1995	9	-	-
47	Albeni Falls	443	443	7.150%	2045	1995	9	-	-
48	Albeni Falls	531	531	7.150%	2045	1995	9	-	-
49	Albeni Falls	1,105	1,105	7.150%	2045	1995	9	-	-
50	Albeni Falls	130	-	7.290%	2016	1996	9	-	-
51	Albeni Falls	431	431	7.150%	2047	1997	9	-	-
52	Albeni Falls	481	481	5.125%	2055	2005	9	-	-
53	Albeni Falls	57	57	4.375%	2059	2009	9	-	-
54	Albeni Falls	42	42	4.250%	2060	2010	9	-	-
55	Boise	1,249	-	3.000%	1962	1912	9	-	-
56	Boise	285	-	3.000%	1962	1912	9	-	-
57	Boise	190	-	3.000%	1976	1926	9	-	-
58	Boise	832	-	3.000%	1976	1926	9	-	-
59	Boise	416	-	3.000%	2000	1950	9	-	-
60	Boise	95	-	3.000%	2000	1950	9	-	-
61	Boise	1,873	-	3.000%	2001	1951	9	-	-
62	Boise	428	-	3.000%	2001	1951	9	-	-
63	Boise	11	-	3.000%	2001	1952	9	-	-
64	Boise	3	-	3.000%	2001	1952	9	-	-
65	Boise	11	-	3.000%	2001	1953	9	-	-

TABLE 13A: HISTORICAL INVESTMENT
October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
66	Boise	3	-	3.000%	2001	1953	9	-	-
67	Boise	11	-	3.000%	2001	1954	9	-	-
68	Boise	3	-	3.000%	2001	1954	9	-	-
69	Boise	11	-	3.000%	2001	1955	9	-	-
70	Boise	3	-	3.000%	2001	1955	9	-	-
71	Boise	11	-	3.000%	2001	1956	9	-	-
72	Boise	3	-	3.000%	2001	1956	9	-	-
73	Boise	11	-	3.000%	2001	1957	9	-	-
74	Boise	3	-	3.000%	2001	1957	9	-	-
75	Boise	11	-	3.000%	2001	1958	9	-	-
76	Boise	3	-	3.000%	2001	1958	9	-	-
77	Boise	11	-	3.000%	2001	1959	9	-	-
78	Boise	3	-	3.000%	2001	1959	9	-	-
79	Boise	11	-	3.000%	2001	1960	9	-	-
80	Boise	3	-	3.000%	2001	1960	9	-	-
81	Boise	11	-	3.000%	2001	1961	9	-	-
82	Boise	3	-	3.000%	2001	1961	9	-	-
83	Boise	11	-	3.000%	2001	1962	9	-	-
84	Boise	3	-	3.000%	2001	1962	9	-	-
85	Boise	11	-	3.000%	2001	1963	9	-	-
86	Boise	3	-	3.000%	2001	1963	9	-	-
87	Boise	11	-	3.000%	2001	1964	9	-	-
88	Boise	3	-	3.000%	2001	1964	9	-	-
89	Boise	11	-	3.000%	2001	1965	9	-	-
90	Boise	3	-	3.000%	2001	1965	9	-	-
91	Boise	11	-	3.000%	2001	1966	9	-	-
92	Boise	3	-	3.000%	2001	1966	9	-	-
93	Boise	11	-	3.000%	2001	1967	9	-	-
94	Boise	3	-	3.000%	2001	1967	9	-	-
95	Boise	11	-	3.000%	2001	1968	9	-	-
96	Boise	3	-	3.000%	2001	1968	9	-	-
97	Boise	11	-	3.000%	2001	1969	9	-	-
98	Boise	3	-	3.000%	2001	1969	9	-	-
99	Boise	11	-	3.000%	2001	1970	9	-	-
100	Boise	3	-	3.000%	2001	1970	9	-	-
101	Boise	11	-	3.000%	2001	1971	9	-	-
102	Boise	3	-	3.000%	2001	1971	9	-	-
103	Boise	11	-	3.000%	2001	1972	9	-	-
104	Boise	3	-	3.000%	2001	1972	9	-	-
105	Boise	11	-	3.000%	2001	1973	9	-	-
106	Boise	3	-	3.000%	2001	1973	9	-	-
107	Boise	11	-	3.000%	2001	1974	9	-	-
108	Boise	3	-	3.000%	2001	1974	9	-	-
109	Boise	11	-	3.000%	2001	1975	9	-	-
110	Boise	3	-	3.000%	2001	1975	9	-	-
111	Boise	11	-	3.000%	2001	1976	9	-	-
112	Boise	3	-	3.000%	2001	1976	9	-	-
113	Boise	11	-	3.000%	2001	1977	9	-	-
114	Boise	3	-	3.000%	2001	1977	9	-	-
115	Boise	11	-	3.000%	2001	1978	9	-	-
116	Boise	3	-	3.000%	2001	1978	9	-	-
117	Boise	11	-	3.000%	2001	1979	9	-	-
118	Boise	3	-	3.000%	2001	1979	9	-	-
119	Boise	18	-	3.000%	2001	1980	9	-	-
120	Boise	4	-	3.000%	2001	1980	9	-	-
121	Boise	8	-	3.000%	2001	1981	9	-	-
122	Boise	2	-	3.000%	2001	1981	9	-	-
123	Boise	1	-	3.000%	2001	1982	9	-	-
124	Boise	1	-	3.000%	2001	1982	9	-	-
125	Boise	1	-	3.000%	2001	1983	9	-	-
126	Boise	1,325	-	10.750%	2001	1984	9	-	-
127	Boise	303	-	10.750%	2001	1984	9	-	-
128	Boise	94	-	6.710%	2001	1986	9	-	-
129	Boise	3	-	8.500%	2001	1988	9	-	-
130	Boise	3,264	-	9.250%	2001	1989	9	-	-
131	Boise	38	-	8.875%	2001	1990	9	-	-

TABLE 13A: HISTORICAL INVESTMENT
October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
132	Boise	50	-	8.750%	2001	1991	9	-	-
133	Boise	418	-	7.875%	2001	1993	9	-	-
134	Boise	7	-	7.125%	1999	1994	9	-	-
135	Boise	7	-	6.950%	2046	1996	9	-	-
136	Boise	442	442	7.150%	2046	1996	9	-	-
137	Boise	656	656	7.150%	2046	1996	9	-	-
138	Boise	9	-	6.950%	2047	1997	9	-	-
139	Boise	2,266	2,266	7.150%	2047	1997	9	-	-
140	Boise	903	903	5.125%	2055	2005	9	-	-
141	Boise	15	15	4.500%	2056	2006	9	-	-
142	Boise	76	76	5.000%	2057	2007	9	-	-
143	Boise	64	64	4.875%	2058	2008	9	-	-
144	Boise	2	2	4.375%	2059	2009	9	-	-
145	Bonneville 2nd Powerhouse	40,964	40,964	7.150%	2031	1981	9	-	-
146	Bonneville 2nd Powerhouse	455	455	7.150%	2031	1981	9	-	-
147	Bonneville 2nd Powerhouse	203,535	203,535	7.150%	2032	1982	9	-	-
148	Bonneville 2nd Powerhouse	2,264	2,264	7.150%	2032	1982	9	-	-
149	Bonneville 2nd Powerhouse	62,409	62,409	7.150%	2033	1983	9	-	-
150	Bonneville 2nd Powerhouse	694	694	7.150%	2033	1983	9	-	-
151	Bonneville 2nd Powerhouse	9,138	9,138	7.150%	2033	1985	9	-	-
152	Bonneville 2nd Powerhouse	30,578	30,578	7.150%	2033	1986	9	-	-
153	Bonneville 2nd Powerhouse	2,801	2,801	7.150%	2033	1987	9	-	-
154	Bonneville 2nd Powerhouse	1,271	1,271	7.150%	2033	1988	9	-	-
155	Bonneville 2nd Powerhouse	1,232	1,232	7.150%	2033	1989	9	-	-
156	Bonneville 2nd Powerhouse	1,588	1,588	7.150%	2033	1990	9	-	-
157	Bonneville 2nd Powerhouse	3,998	-	8.750%	2033	1991	9	-	-
158	Bonneville 2nd Powerhouse	26	-	8.750%	2033	1991	9	-	-
159	Bonneville 2nd Powerhouse	2,446	-	8.500%	2033	1992	9	-	-
160	Bonneville 2nd Powerhouse	3,668	-	7.875%	2033	1993	9	-	-
161	Bonneville 2nd Powerhouse	5,700	5,700	7.150%	2044	1994	9	-	-
162	Bonneville 2nd Powerhouse	3,791	3,791	7.150%	2045	1995	9	-	-
163	Bonneville 2nd Powerhouse	376	376	7.150%	2046	1996	9	-	-
164	Bonneville Dam	11,726	-	2.500%	1988	1938	9	-	-
165	Bonneville Dam	130	-	2.500%	1988	1938	9	-	-
166	Bonneville Dam	17,589	-	2.500%	1991	1941	9	-	-
167	Bonneville Dam	196	-	2.500%	1991	1941	9	-	-
168	Bonneville Dam	5,863	-	2.500%	1992	1942	9	-	-
169	Bonneville Dam	65	-	2.500%	1992	1942	9	-	-
170	Bonneville Dam	17,589	-	2.500%	1993	1943	9	-	-
171	Bonneville Dam	196	-	2.500%	1993	1943	9	-	-
172	Bonneville Dam	5,860	-	2.500%	1994	1944	9	-	-
173	Bonneville Dam	65	-	2.500%	1994	1944	9	-	-
174	Bonneville Dam	82	-	2.500%	1994	1945	9	-	-
175	Bonneville Dam	1	-	2.500%	1994	1945	9	-	-
176	Bonneville Dam	81	-	2.500%	1994	1946	9	-	-
177	Bonneville Dam	1	-	2.500%	1994	1946	9	-	-
178	Bonneville Dam	82	-	2.500%	1994	1947	9	-	-
179	Bonneville Dam	1	-	2.500%	1994	1947	9	-	-
180	Bonneville Dam	81	-	2.500%	1994	1948	9	-	-
181	Bonneville Dam	1	-	2.500%	1994	1948	9	-	-
182	Bonneville Dam	82	-	2.500%	1994	1949	9	-	-
183	Bonneville Dam	1	-	2.500%	1994	1949	9	-	-
184	Bonneville Dam	81	-	2.500%	1994	1950	9	-	-
185	Bonneville Dam	11	-	2.500%	1994	1950	9	-	-
186	Bonneville Dam	81	-	2.500%	1994	1951	9	-	-
187	Bonneville Dam	11	-	2.500%	1994	1951	9	-	-
188	Bonneville Dam	82	-	2.500%	1994	1952	9	-	-
189	Bonneville Dam	1	-	2.500%	1994	1952	9	-	-
190	Bonneville Dam	81	-	2.500%	1994	1953	9	-	-
191	Bonneville Dam	1	-	2.500%	1994	1953	9	-	-
192	Bonneville Dam	82	-	2.500%	1994	1954	9	-	-
193	Bonneville Dam	1	-	2.500%	1994	1954	9	-	-
194	Bonneville Dam	81	-	2.500%	1994	1955	9	-	-
195	Bonneville Dam	1	-	2.500%	1994	1955	9	-	-
196	Bonneville Dam	81	-	2.500%	1994	1956	9	-	-
197	Bonneville Dam	1	-	2.500%	1994	1956	9	-	-

TABLE 13A: HISTORICAL INVESTMENT
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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
198	Bonneville Dam	82	-	2.500%	1994	1957	9	-	-
199	Bonneville Dam	1	-	2.500%	1994	1957	9	-	-
200	Bonneville Dam	81	-	2.500%	1994	1958	9	-	-
201	Bonneville Dam	1	-	2.500%	1994	1958	9	-	-
202	Bonneville Dam	82	-	2.500%	1994	1959	9	-	-
203	Bonneville Dam	1	-	2.500%	1994	1959	9	-	-
204	Bonneville Dam	81	-	2.500%	1994	1960	9	-	-
205	Bonneville Dam	1	-	2.500%	1994	1960	9	-	-
206	Bonneville Dam	81	-	2.500%	1994	1961	9	-	-
207	Bonneville Dam	1	-	2.500%	1994	1961	9	-	-
208	Bonneville Dam	82	-	2.500%	1994	1962	9	-	-
209	Bonneville Dam	1	-	2.500%	1994	1962	9	-	-
210	Bonneville Dam	81	-	2.500%	1994	1963	9	-	-
211	Bonneville Dam	1	-	2.500%	1994	1963	9	-	-
212	Bonneville Dam	82	-	2.500%	1994	1964	9	-	-
213	Bonneville Dam	1	-	2.500%	1994	1964	9	-	-
214	Bonneville Dam	81	-	2.500%	1994	1965	9	-	-
215	Bonneville Dam	1	-	2.500%	1994	1965	9	-	-
216	Bonneville Dam	81	-	2.500%	1994	1966	9	-	-
217	Bonneville Dam	1	-	2.500%	1994	1966	9	-	-
218	Bonneville Dam	82	-	2.500%	1994	1967	9	-	-
219	Bonneville Dam	1	-	2.500%	1994	1967	9	-	-
220	Bonneville Dam	81	-	2.500%	1994	1968	9	-	-
221	Bonneville Dam	1	-	2.500%	1994	1968	9	-	-
222	Bonneville Dam	82	-	2.500%	1994	1969	9	-	-
223	Bonneville Dam	1	-	2.500%	1994	1969	9	-	-
224	Bonneville Dam	81	-	2.500%	1994	1970	9	-	-
225	Bonneville Dam	1	-	2.500%	1994	1970	9	-	-
226	Bonneville Dam	81	-	2.500%	1994	1971	9	-	-
227	Bonneville Dam	1	-	2.500%	1994	1971	9	-	-
228	Bonneville Dam	82	-	2.500%	1994	1972	9	-	-
229	Bonneville Dam	1	-	2.500%	1994	1972	9	-	-
230	Bonneville Dam	81	-	2.500%	1994	1973	9	-	-
231	Bonneville Dam	1	-	2.500%	1994	1973	9	-	-
232	Bonneville Dam	82	-	2.500%	1994	1974	9	-	-
233	Bonneville Dam	1	-	2.500%	1994	1974	9	-	-
234	Bonneville Dam	81	-	2.500%	1994	1975	9	-	-
235	Bonneville Dam	1	-	2.500%	1994	1975	9	-	-
236	Bonneville Dam	81	-	2.500%	1994	1976	9	-	-
237	Bonneville Dam	1	-	2.500%	1994	1976	9	-	-
238	Bonneville Dam	82	-	2.500%	1994	1977	9	-	-
239	Bonneville Dam	1	-	2.500%	1994	1977	9	-	-
240	Bonneville Dam	15,670	15,670	7.150%	2027	1977	9	-	-
241	Bonneville Dam	81	-	2.500%	1994	1978	9	-	-
242	Bonneville Dam	1	-	2.500%	1994	1978	9	-	-
243	Bonneville Dam	82	-	2.500%	1994	1979	9	-	-
244	Bonneville Dam	1	-	2.500%	1994	1979	9	-	-
245	Bonneville Dam	81	-	2.500%	1994	1980	9	-	-
246	Bonneville Dam	1	-	2.500%	1994	1980	9	-	-
247	Bonneville Dam	81	-	2.500%	1994	1981	9	-	-
248	Bonneville Dam	1	-	2.500%	1994	1981	9	-	-
249	Bonneville Dam	82	-	2.500%	1994	1982	9	-	-
250	Bonneville Dam	2	-	2.500%	1994	1982	9	-	-
251	Bonneville Dam	81	-	2.500%	1994	1983	9	-	-
252	Bonneville Dam	1	-	2.500%	1994	1983	9	-	-
253	Bonneville Dam	873	-	10.750%	1994	1984	9	-	-
254	Bonneville Dam	10	-	10.750%	1994	1984	9	-	-
255	Bonneville Dam	119	-	2.500%	1994	1985	9	-	-
256	Bonneville Dam	454	-	11.375%	1994	1986	9	-	-
257	Bonneville Dam	555	-	2.500%	1994	1986	9	-	-
258	Bonneville Dam	26	-	8.875%	1994	1987	9	-	-
259	Bonneville Dam	260	-	2.500%	1994	1987	9	-	-
260	Bonneville Dam	4,199	-	8.500%	1994	1988	9	-	-
261	Bonneville Dam	10	-	8.500%	1994	1988	9	-	-
262	Bonneville Dam	877	-	9.250%	1994	1989	9	-	-

TABLE 13A: HISTORICAL INVESTMENT
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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
263	Bonneville Dam	519	-	8.875%	1994	1990	9	-	-
264	Bonneville Dam	651	-	8.875%	1994	1990	9	-	-
265	Bonneville Dam	35	-	8.750%	1994	1991	9	-	-
266	Bonneville Dam	3,193	-	8.750%	1994	1991	9	-	-
267	Bonneville Dam	99	-	8.500%	1994	1992	9	-	-
268	Bonneville Dam	25	-	8.500%	1994	1992	9	-	-
269	Bonneville Dam	5,011	-	7.880%	2018	1993	9	-	-
270	Bonneville Dam	536	-	7.125%	2029	1994	9	-	-
271	Bonneville Dam	8	-	7.330%	2000	1995	9	-	-
272	Bonneville Dam	25	-	7.090%	2010	1995	9	-	-
273	Bonneville Dam	20	-	7.250%	2020	1995	9	-	-
274	Bonneville Dam	22	-	7.250%	2020	1995	9	-	-
275	Bonneville Dam	53	-	7.860%	2030	1995	9	-	-
276	Bonneville Dam	98	-	7.860%	2035	1995	9	-	-
277	Bonneville Dam	243	243	7.150%	2045	1995	9	-	-
278	Bonneville Dam	410	410	7.150%	2045	1995	9	-	-
279	Bonneville Dam	440	440	7.150%	2045	1995	9	-	-
280	Bonneville Dam	374	-	7.860%	2045	1995	9	-	-
281	Bonneville Dam	834	-	7.290%	2016	1996	9	-	-
282	Bonneville Dam	22	22	7.150%	2031	1996	9	-	-
283	Bonneville Dam	18	18	7.150%	2046	1996	9	-	-
284	Bonneville Dam	18	18	7.150%	2046	1996	9	-	-
285	Bonneville Dam	80	80	7.150%	2046	1996	9	-	-
286	Bonneville Dam	109	109	7.150%	2046	1996	9	-	-
287	Bonneville Dam	142	142	7.150%	2046	1996	9	-	-
288	Bonneville Dam	223	223	7.150%	2046	1996	9	-	-
289	Bonneville Dam	751	751	7.150%	2046	1996	9	-	-
290	Bonneville Dam	1,322	1,322	7.150%	2046	1996	9	-	-
291	Bonneville Dam	122	-	7.230%	2022	1997	9	-	-
292	Bonneville Dam	518	518	7.150%	2032	1997	9	-	-
293	Bonneville Dam	161	161	7.150%	2047	1997	9	-	-
294	Bonneville Dam	19,368	19,368	5.375%	2049	1999	9	-	-
295	Bonneville Dam	24,446	24,446	6.125%	2050	2000	9	-	-
296	Bonneville Dam	2,530	2,530	5.875%	2051	2001	9	-	-
297	Bonneville Dam	448	448	5.500%	2052	2002	9	-	-
298	Bonneville Dam	4,581	4,581	5.125%	2053	2003	9	-	-
299	Bonneville Dam	26,741	26,741	5.375%	2054	2004	9	-	-
300	Bonneville Dam	19,725	19,725	5.125%	2055	2005	9	-	-
301	Bonneville Dam	2,628	2,628	4.500%	2056	2006	9	-	-
302	Bonneville Dam	1,124	1,124	5.000%	2057	2007	9	-	-
303	Bonneville Dam	14,609	14,609	4.875%	2058	2008	9	-	-
304	Bonneville Dam	2,744	2,744	4.375%	2059	2009	9	-	-
305	Chief Joseph	29,164	-	6.910%	2005	1955	9	-	-
306	Chief Joseph	13,643	-	6.950%	2006	1956	9	-	-
307	Chief Joseph	39,586	-	6.980%	2007	1957	9	-	-
308	Chief Joseph	31,901	-	7.020%	2008	1958	9	-	-
309	Chief Joseph	223	-	7.020%	2008	1959	9	-	-
310	Chief Joseph	223	-	7.020%	2008	1960	9	-	-
311	Chief Joseph	223	-	7.020%	2008	1961	9	-	-
312	Chief Joseph	223	-	7.020%	2008	1962	9	-	-
313	Chief Joseph	224	-	7.020%	2008	1963	9	-	-
314	Chief Joseph	223	-	7.020%	2008	1964	9	-	-
315	Chief Joseph	223	-	7.020%	2008	1965	9	-	-
316	Chief Joseph	223	-	7.020%	2008	1966	9	-	-
317	Chief Joseph	223	-	7.020%	2008	1967	9	-	-
318	Chief Joseph	224	-	7.020%	2008	1968	9	-	-
319	Chief Joseph	223	-	7.020%	2008	1969	9	-	-
320	Chief Joseph	223	-	7.020%	2008	1970	9	-	-
321	Chief Joseph	223	-	7.020%	2008	1971	9	-	-
322	Chief Joseph	223	-	7.020%	2008	1972	9	-	-
323	Chief Joseph	224	-	7.020%	2008	1973	9	-	-
324	Chief Joseph	223	-	7.020%	2008	1974	9	-	-
325	Chief Joseph	223	-	7.020%	2008	1975	9	-	-
326	Chief Joseph	223	-	7.020%	2008	1976	9	-	-
327	Chief Joseph	223	-	7.020%	2008	1977	9	-	-

TABLE 13A: HISTORICAL INVESTMENT
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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
328	Chief Joseph	30,512	30,512	7.150%	2027	1977	9	-	-
329	Chief Joseph	224	-	7.020%	2008	1978	9	-	-
330	Chief Joseph	75,669	75,669	7.150%	2028	1978	9	-	-
331	Chief Joseph	223	-	7.020%	2008	1979	9	-	-
332	Chief Joseph	60,079	60,079	7.150%	2029	1979	9	-	-
333	Chief Joseph	223	-	7.020%	2008	1980	9	-	-
334	Chief Joseph	223	-	7.020%	2008	1981	9	-	-
335	Chief Joseph	223	-	7.020%	2008	1982	9	-	-
336	Chief Joseph	224	-	7.020%	2008	1983	9	-	-
337	Chief Joseph	909	-	10.750%	2008	1984	9	-	-
338	Chief Joseph	46	-	7.020%	2008	1985	9	-	-
339	Chief Joseph	16,372	16,372	7.150%	2029	1985	9	-	-
340	Chief Joseph	5,363	5,363	7.150%	2029	1986	9	-	-
341	Chief Joseph	104	-	8.875%	2008	1987	9	-	-
342	Chief Joseph	3,036	3,036	7.150%	2029	1987	9	-	-
343	Chief Joseph	2,722	2,722	7.150%	2029	1988	9	-	-
344	Chief Joseph	327	-	9.250%	2008	1989	9	-	-
345	Chief Joseph	2,227	2,227	7.150%	2029	1989	9	-	-
346	Chief Joseph	1,024	-	8.875%	2008	1990	9	-	-
347	Chief Joseph	4,505	4,505	7.150%	2029	1990	9	-	-
348	Chief Joseph	34	-	8.750%	2008	1991	9	-	-
349	Chief Joseph	293	-	8.750%	2008	1991	9	-	-
350	Chief Joseph	3,840	-	8.750%	2029	1991	9	-	-
351	Chief Joseph	142	-	8.500%	2008	1992	9	-	-
352	Chief Joseph	717	-	8.500%	2008	1992	9	-	-
353	Chief Joseph	2,032	-	8.500%	2029	1992	9	-	-
354	Chief Joseph	42	-	7.875%	2008	1993	9	-	-
355	Chief Joseph	794	-	7.875%	2008	1993	9	-	-
356	Chief Joseph	1,360	-	7.875%	2029	1993	9	-	-
357	Chief Joseph	129	-	7.125%	2029	1994	9	-	-
358	Chief Joseph	65	-	7.125%	2029	1994	9	-	-
359	Chief Joseph	4,280	4,017	7.150%	2044	1994	9	-	-
360	Chief Joseph	15	-	7.090%	2010	1995	9	-	-
361	Chief Joseph	147	147	7.150%	2045	1995	9	-	-
362	Chief Joseph	562	562	7.150%	2045	1995	9	-	-
363	Chief Joseph	712	712	7.150%	2045	1995	9	-	-
364	Chief Joseph	784	784	7.150%	2045	1995	9	-	-
365	Chief Joseph	27	27	7.150%	2031	1996	9	-	-
366	Chief Joseph	3	3	7.150%	2046	1996	9	-	-
367	Chief Joseph	4	4	7.150%	2046	1996	9	-	-
368	Chief Joseph	355	355	7.150%	2046	1996	9	-	-
369	Chief Joseph	729	729	7.150%	2046	1996	9	-	-
370	Chief Joseph	166	166	7.150%	2032	1997	9	-	-
371	Chief Joseph	657	657	7.150%	2047	1997	9	-	-
372	Chief Joseph	345	345	5.875%	2051	2001	9	-	-
373	Chief Joseph	2	2	5.500%	2052	2002	9	-	-
374	Chief Joseph	992	992	5.125%	2053	2003	9	-	-
375	Chief Joseph	3,500	3,500	4.875%	2058	2008	9	-	-
376	Chief Joseph	24,727	24,727	4.375%	2059	2009	9	-	-
377	Columbia Basin	10,919	-	3.000%	1991	1941	9	-	-
378	Columbia Basin	1,505	-	3.000%	1991	1941	9	-	-
379	Columbia Basin	16,165	-	3.000%	1992	1942	9	-	-
380	Columbia Basin	3,011	-	3.000%	1992	1942	9	-	-
381	Columbia Basin	8,083	-	3.000%	1993	1943	9	-	-
382	Columbia Basin	1,505	-	3.000%	1993	1943	9	-	-
383	Columbia Basin	16,165	-	3.000%	1994	1944	9	-	-
384	Columbia Basin	3,011	-	3.000%	1994	1944	9	-	-
385	Columbia Basin	24,247	-	3.000%	1998	1948	9	-	-
386	Columbia Basin	4,516	-	3.000%	1998	1948	9	-	-
387	Columbia Basin	24,247	-	3.000%	1999	1949	9	-	-
388	Columbia Basin	4,516	-	3.000%	1999	1949	9	-	-
389	Columbia Basin	16,165	-	3.000%	2000	1950	9	-	-
390	Columbia Basin	3,011	-	3.000%	2000	1950	9	-	-
391	Columbia Basin	28,255	-	6.710%	2001	1951	9	-	-
392	Columbia Basin	5,790	-	6.710%	2001	1951	9	-	-

TABLE 13A: HISTORICAL INVESTMENT
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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
393	Columbia Basin	258	-	6.710%	2001	1952	9	-	-
394	Columbia Basin	48	-	6.710%	2001	1952	9	-	-
395	Columbia Basin	258	-	6.710%	2001	1953	9	-	-
396	Columbia Basin	48	-	6.710%	2001	1953	9	-	-
397	Columbia Basin	258	-	6.710%	2001	1954	9	-	-
398	Columbia Basin	48	-	6.710%	2001	1954	9	-	-
399	Columbia Basin	258	-	6.710%	2001	1955	9	-	-
400	Columbia Basin	48	-	6.710%	2001	1955	9	-	-
401	Columbia Basin	259	-	6.710%	2001	1956	9	-	-
402	Columbia Basin	48	-	6.710%	2001	1956	9	-	-
403	Columbia Basin	258	-	6.710%	2001	1957	9	-	-
404	Columbia Basin	48	-	6.710%	2001	1957	9	-	-
405	Columbia Basin	258	-	6.710%	2001	1958	9	-	-
406	Columbia Basin	48	-	6.710%	2001	1958	9	-	-
407	Columbia Basin	258	-	6.710%	2001	1959	9	-	-
408	Columbia Basin	48	-	6.710%	2001	1959	9	-	-
409	Columbia Basin	258	-	6.710%	2001	1960	9	-	-
410	Columbia Basin	48	-	6.710%	2001	1960	9	-	-
411	Columbia Basin	259	-	6.710%	2001	1961	9	-	-
412	Columbia Basin	48	-	6.710%	2001	1961	9	-	-
413	Columbia Basin	258	-	6.710%	2001	1962	9	-	-
414	Columbia Basin	48	-	6.710%	2001	1962	9	-	-
415	Columbia Basin	258	-	6.710%	2001	1963	9	-	-
416	Columbia Basin	48	-	6.710%	2001	1963	9	-	-
417	Columbia Basin	258	-	6.710%	2001	1964	9	-	-
418	Columbia Basin	48	-	6.710%	2001	1964	9	-	-
419	Columbia Basin	258	-	6.710%	2001	1965	9	-	-
420	Columbia Basin	48	-	6.710%	2001	1965	9	-	-
421	Columbia Basin	259	-	6.710%	2001	1966	9	-	-
422	Columbia Basin	48	-	6.710%	2001	1966	9	-	-
423	Columbia Basin	258	-	6.710%	2001	1967	9	-	-
424	Columbia Basin	48	-	6.710%	2001	1967	9	-	-
425	Columbia Basin	758	-	7.290%	2017	1967	9	-	-
426	Columbia Basin	258	-	6.710%	2001	1968	9	-	-
427	Columbia Basin	48	-	6.710%	2001	1968	9	-	-
428	Columbia Basin	258	-	6.710%	2001	1969	9	-	-
429	Columbia Basin	48	-	6.710%	2001	1969	9	-	-
430	Columbia Basin	258	-	6.710%	2001	1970	9	-	-
431	Columbia Basin	48	-	6.710%	2001	1970	9	-	-
432	Columbia Basin	259	-	6.710%	2001	1971	9	-	-
433	Columbia Basin	48	-	6.710%	2001	1971	9	-	-
434	Columbia Basin	258	-	6.710%	2001	1972	9	-	-
435	Columbia Basin	48	-	6.710%	2001	1972	9	-	-
436	Columbia Basin	258	-	6.710%	2001	1973	9	-	-
437	Columbia Basin	48	-	6.710%	2001	1973	9	-	-
438	Columbia Basin	258	-	6.710%	2001	1974	9	-	-
439	Columbia Basin	48	-	6.710%	2001	1974	9	-	-
440	Columbia Basin	258	-	6.710%	2001	1975	9	-	-
441	Columbia Basin	48	-	6.710%	2001	1975	9	-	-
442	Columbia Basin	259	-	6.710%	2001	1976	9	-	-
443	Columbia Basin	48	-	6.710%	2001	1976	9	-	-
444	Columbia Basin	258	-	6.710%	2001	1977	9	-	-
445	Columbia Basin	48	-	6.710%	2001	1977	9	-	-
446	Columbia Basin	258	-	6.710%	2001	1978	9	-	-
447	Columbia Basin	48	-	6.710%	2001	1978	9	-	-
448	Columbia Basin	258	-	6.710%	2001	1979	9	-	-
449	Columbia Basin	48	-	6.710%	2001	1979	9	-	-
450	Columbia Basin	258	-	6.710%	2001	1980	9	-	-
451	Columbia Basin	48	-	6.710%	2001	1980	9	-	-
452	Columbia Basin	259	-	6.710%	2001	1981	9	-	-
453	Columbia Basin	48	-	6.710%	2001	1981	9	-	-
454	Columbia Basin	258	-	6.710%	2001	1982	9	-	-
455	Columbia Basin	48	-	6.710%	2001	1982	9	-	-
456	Columbia Basin	258	-	6.710%	2001	1983	9	-	-
457	Columbia Basin	48	-	6.710%	2001	1983	9	-	-

TABLE 13A: HISTORICAL INVESTMENT
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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
458	Columbia Basin	7,815	-	10.750%	2001	1984	9	-	-
459	Columbia Basin	1,455	-	10.750%	2001	1984	9	-	-
460	Columbia Basin	236	-	6.710%	2001	1985	9	-	-
461	Columbia Basin	11	-	6.710%	2001	1985	9	-	-
462	Columbia Basin	7,338	-	12.375%	2001	1985	9	-	-
463	Columbia Basin	362	-	12.375%	2001	1985	9	-	-
464	Columbia Basin	127	-	6.710%	2001	1986	9	-	-
465	Columbia Basin	13	-	6.710%	2001	1987	9	-	-
466	Columbia Basin	184	-	8.500%	2001	1988	9	-	-
467	Columbia Basin	2	-	8.500%	2001	1988	9	-	-
468	Columbia Basin	1,166	-	9.250%	2001	1989	9	-	-
469	Columbia Basin	928	-	8.875%	2001	1990	9	-	-
470	Columbia Basin	177	-	8.750%	2001	1991	9	-	-
471	Columbia Basin	1,661	-	8.750%	2001	1991	9	-	-
472	Columbia Basin	445	-	8.500%	2001	1992	9	-	-
473	Columbia Basin	652	-	8.500%	2001	1992	9	-	-
474	Columbia Basin	792	-	6.710%	2001	1993	9	-	-
475	Columbia Basin	25	-	6.620%	2000	1995	9	-	-
476	Columbia Basin	206	-	7.250%	2020	1995	9	-	-
477	Columbia Basin	25	-	7.150%	2030	1995	9	-	-
478	Columbia Basin	20	-	7.860%	2030	1995	9	-	-
479	Columbia Basin	270	-	7.860%	2030	1995	9	-	-
480	Columbia Basin	321	-	7.860%	2030	1995	9	-	-
481	Columbia Basin	323	-	7.860%	2030	1995	9	-	-
482	Columbia Basin	287	287	7.150%	2045	1995	9	-	-
483	Columbia Basin	2,511	2,453	7.150%	2045	1995	9	-	-
484	Columbia Basin	450	-	7.860%	2045	1995	9	-	-
485	Columbia Basin	450	-	7.860%	2045	1995	9	-	-
486	Columbia Basin	72	72	7.150%	2026	1996	9	-	-
487	Columbia Basin	109	109	7.150%	2031	1996	9	-	-
488	Columbia Basin	251	251	7.150%	2031	1996	9	-	-
489	Columbia Basin	426	426	7.150%	2046	1996	9	-	-
490	Columbia Basin	368	368	7.150%	2046	1996	9	-	-
491	Columbia Basin	3,393	3,393	7.150%	2047	1997	9	-	-
492	Columbia Basin	69,226	69,226	5.875%	2051	2001	9	-	-
493	Columbia Basin	10,963	10,963	5.125%	2055	2005	9	-	-
494	Columbia Basin	1,987	1,987	4.500%	2056	2006	9	-	-
495	Columbia Basin	929	929	5.000%	2057	2007	9	-	-
496	Columbia Basin	835	835	4.875%	2058	2008	9	-	-
497	Columbia Basin	1,338	1,338	4.375%	2059	2009	9	-	-
498	Columbia Basin	773	773	4.250%	2060	2010	9	-	-
499	Columbia Basin 3rd Powerhouse	47,328	36,690	7.160%	2025	1975	9	-	-
500	Columbia Basin 3rd Powerhouse	8,702	7,435	7.160%	2025	1975	9	-	-
501	Columbia Basin 3rd Powerhouse	41,330	41,330	7.150%	2026	1976	9	-	-
502	Columbia Basin 3rd Powerhouse	8,037	8,037	7.150%	2026	1976	9	-	-
503	Columbia Basin 3rd Powerhouse	42,764	42,764	7.150%	2027	1977	9	-	-
504	Columbia Basin 3rd Powerhouse	7,964	7,964	7.150%	2027	1977	9	-	-
505	Columbia Basin 3rd Powerhouse	42,399	42,399	7.150%	2028	1978	9	-	-
506	Columbia Basin 3rd Powerhouse	7,896	7,896	7.150%	2028	1978	9	-	-
507	Columbia Basin 3rd Powerhouse	84,118	84,118	7.150%	2029	1979	9	-	-
508	Columbia Basin 3rd Powerhouse	15,666	15,666	7.150%	2029	1979	9	-	-
509	Columbia Basin 3rd Powerhouse	712	712	7.150%	2033	1983	9	-	-
510	Columbia Basin 3rd Powerhouse	13,003	13,003	7.150%	2033	1983	9	-	-
511	Columbia Basin 3rd Powerhouse	16,965	16,965	7.150%	2033	1984	9	-	-
512	Columbia Basin 3rd Powerhouse	13,192	13,192	7.150%	2033	1984	9	-	-
513	Columbia Basin 3rd Powerhouse	3,160	3,160	7.150%	2033	1984	9	-	-
514	Columbia Basin 3rd Powerhouse	2,060	2,060	7.150%	2033	1985	9	-	-
515	Columbia Basin 3rd Powerhouse	41,772	41,772	7.150%	2033	1985	9	-	-
516	Columbia Basin 3rd Powerhouse	107	107	7.150%	2033	1985	9	-	-
517	Columbia Basin 3rd Powerhouse	1,851	1,851	7.150%	2033	1986	9	-	-
518	Columbia Basin 3rd Powerhouse	15,538	15,538	7.150%	2033	1986	9	-	-
519	Columbia Basin 3rd Powerhouse	1,730	1,730	7.150%	2033	1987	9	-	-
520	Columbia Basin 3rd Powerhouse	14,439	14,439	7.150%	2033	1987	9	-	-
521	Columbia Basin 3rd Powerhouse	2,294	2,294	7.150%	2033	1988	9	-	-
522	Columbia Basin 3rd Powerhouse	4,351	4,351	7.150%	2033	1988	9	-	-

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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
523	Columbia Basin 3rd Powerhouse	10,902	10,902	7.150%	2033	1989	9	-	-
524	Columbia Basin 3rd Powerhouse	6,383	6,383	7.150%	2033	1990	9	-	-
525	Columbia Basin 3rd Powerhouse	12,631	12,631	7.150%	2044	1994	9	-	-
526	Columbia River Fish Mitigation	3,969	-	8.500%	2041	1991	9	-	-
527	Columbia River Fish Mitigation	874	-	8.500%	2042	1992	9	-	-
528	Columbia River Fish Mitigation	85,846	-	8.500%	2043	1993	9	-	-
529	Columbia River Fish Mitigation	39,454	-	8.500%	2044	1994	9	-	-
530	Columbia River Fish Mitigation	43,343	39,282	7.150%	2045	1995	9	-	-
531	Columbia River Fish Mitigation	2,431	2,431	7.150%	2046	1996	9	-	-
532	Columbia River Fish Mitigation	14,115	14,115	5.375%	2049	1999	9	-	-
533	Columbia River Fish Mitigation	47,006	47,006	6.125%	2050	2000	9	-	-
534	Columbia River Fish Mitigation	6,168	6,168	5.875%	2051	2001	9	-	-
535	Columbia River Fish Mitigation	8,797	8,797	5.500%	2052	2002	9	-	-
536	Columbia River Fish Mitigation	68,440	68,440	5.125%	2053	2003	9	-	-
537	Columbia River Fish Mitigation	60,581	60,581	5.375%	2054	2004	9	-	-
538	Columbia River Fish Mitigation	52,039	52,039	5.125%	2055	2005	9	-	-
539	Columbia River Fish Mitigation	366,395	366,395	4.500%	2056	2006	9	-	-
540	Columbia River Fish Mitigation	53,525	53,525	5.000%	2057	2007	9	-	-
541	Columbia River Fish Mitigation	36,554	36,554	4.875%	2058	2008	9	-	-
542	Columbia River Fish Mitigation	103,203	103,203	4.375%	2059	2009	9	-	-
543	Columbia River Fish Mitigation	56,586	56,586	4.250%	2060	2010	9	-	-
544	Cougar	10,414	-	7.230%	2014	1964	9	-	-
545	Cougar	20	-	7.230%	2014	1965	9	-	-
546	Cougar	20	-	7.230%	2014	1966	9	-	-
547	Cougar	20	-	7.230%	2014	1967	9	-	-
548	Cougar	20	-	7.230%	2014	1968	9	-	-
549	Cougar	20	-	7.230%	2014	1969	9	-	-
550	Cougar	20	-	7.230%	2014	1970	9	-	-
551	Cougar	20	-	7.230%	2014	1971	9	-	-
552	Cougar	20	-	7.230%	2014	1972	9	-	-
553	Cougar	20	-	7.230%	2014	1973	9	-	-
554	Cougar	19	-	7.230%	2014	1974	9	-	-
555	Cougar	20	-	7.230%	2014	1975	9	-	-
556	Cougar	20	-	7.230%	2014	1976	9	-	-
557	Cougar	20	-	7.230%	2014	1977	9	-	-
558	Cougar	20	-	7.230%	2014	1978	9	-	-
559	Cougar	20	-	7.230%	2014	1979	9	-	-
560	Cougar	20	-	7.230%	2014	1980	9	-	-
561	Cougar	20	-	7.230%	2014	1981	9	-	-
562	Cougar	20	-	7.230%	2014	1982	9	-	-
563	Cougar	20	-	7.230%	2014	1983	9	-	-
564	Cougar	1	-	10.750%	2014	1984	9	-	-
565	Cougar	1	-	7.230%	2014	1985	9	-	-
566	Cougar	104	-	7.230%	2014	1986	9	-	-
567	Cougar	55	-	11.375%	2014	1986	9	-	-
568	Cougar	45	-	7.230%	2014	1987	9	-	-
569	Cougar	2	-	8.500%	2014	1988	9	-	-
570	Cougar	6	-	9.250%	2014	1989	9	-	-
571	Cougar	10	-	8.875%	2014	1990	9	-	-
572	Cougar	1,015	-	8.750%	2014	1991	9	-	-
573	Cougar	1	-	8.750%	2014	1991	9	-	-
574	Cougar	2	-	8.500%	2014	1992	9	-	-
575	Cougar	539	-	7.875%	2014	1993	9	-	-
576	Cougar	31	-	7.125%	2019	1994	9	-	-
577	Cougar	3	-	7.330%	2000	1995	9	-	-
578	Cougar	26	26	7.150%	2047	1997	9	-	-
579	Cougar	15,748	15,748	5.375%	2054	2004	9	-	-
580	Cougar	35,317	35,317	5.125%	2055	2005	9	-	-
581	Cougar	474	474	4.500%	2056	2006	9	-	-
582	Cougar	521	521	5.000%	2057	2007	9	-	-
583	Cougar	121	121	4.375%	2059	2009	9	-	-
584	Cougar	256	256	4.250%	2060	2010	9	-	-
585	Detroit Lake/Big Cliff	12,533	-	6.840%	2003	1953	9	-	-
586	Detroit Lake/Big Cliff	20,162	-	6.880%	2004	1954	9	-	-
587	Detroit Lake/Big Cliff	18	-	6.880%	2004	1955	9	-	-

TABLE 13A: HISTORICAL INVESTMENT
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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
588	Detroit Lake/Big Cliff	19	-	6.880%	2004	1956	9	-	-
589	Detroit Lake/Big Cliff	18	-	6.880%	2004	1957	9	-	-
590	Detroit Lake/Big Cliff	19	-	6.880%	2004	1958	9	-	-
591	Detroit Lake/Big Cliff	18	-	6.880%	2004	1959	9	-	-
592	Detroit Lake/Big Cliff	19	-	6.880%	2004	1960	9	-	-
593	Detroit Lake/Big Cliff	18	-	6.880%	2004	1961	9	-	-
594	Detroit Lake/Big Cliff	19	-	6.880%	2004	1962	9	-	-
595	Detroit Lake/Big Cliff	18	-	6.880%	2004	1963	9	-	-
596	Detroit Lake/Big Cliff	19	-	6.880%	2004	1964	9	-	-
597	Detroit Lake/Big Cliff	18	-	6.880%	2004	1965	9	-	-
598	Detroit Lake/Big Cliff	19	-	6.880%	2004	1966	9	-	-
599	Detroit Lake/Big Cliff	18	-	6.880%	2004	1967	9	-	-
600	Detroit Lake/Big Cliff	19	-	6.880%	2004	1968	9	-	-
601	Detroit Lake/Big Cliff	18	-	6.880%	2004	1969	9	-	-
602	Detroit Lake/Big Cliff	19	-	6.880%	2004	1970	9	-	-
603	Detroit Lake/Big Cliff	18	-	6.880%	2004	1971	9	-	-
604	Detroit Lake/Big Cliff	19	-	6.880%	2004	1972	9	-	-
605	Detroit Lake/Big Cliff	18	-	6.880%	2004	1973	9	-	-
606	Detroit Lake/Big Cliff	19	-	6.880%	2004	1974	9	-	-
607	Detroit Lake/Big Cliff	18	-	6.880%	2004	1975	9	-	-
608	Detroit Lake/Big Cliff	19	-	6.880%	2004	1976	9	-	-
609	Detroit Lake/Big Cliff	18	-	6.880%	2004	1977	9	-	-
610	Detroit Lake/Big Cliff	19	-	6.880%	2004	1978	9	-	-
611	Detroit Lake/Big Cliff	18	-	6.880%	2004	1979	9	-	-
612	Detroit Lake/Big Cliff	19	-	6.880%	2004	1980	9	-	-
613	Detroit Lake/Big Cliff	18	-	6.880%	2004	1981	9	-	-
614	Detroit Lake/Big Cliff	19	-	6.880%	2004	1982	9	-	-
615	Detroit Lake/Big Cliff	18	-	6.880%	2004	1983	9	-	-
616	Detroit Lake/Big Cliff	21	-	10.750%	2004	1984	9	-	-
617	Detroit Lake/Big Cliff	6	-	6.880%	2004	1985	9	-	-
618	Detroit Lake/Big Cliff	38	-	11.375%	2004	1986	9	-	-
619	Detroit Lake/Big Cliff	3	-	6.880%	2004	1987	9	-	-
620	Detroit Lake/Big Cliff	233	-	8.875%	2004	1987	9	-	-
621	Detroit Lake/Big Cliff	68	-	8.500%	2004	1988	9	-	-
622	Detroit Lake/Big Cliff	26	-	9.250%	2004	1989	9	-	-
623	Detroit Lake/Big Cliff	115	-	8.875%	2004	1990	9	-	-
624	Detroit Lake/Big Cliff	9	-	8.750%	2004	1991	9	-	-
625	Detroit Lake/Big Cliff	20	-	8.750%	2004	1991	9	-	-
626	Detroit Lake/Big Cliff	8	-	8.500%	2004	1992	9	-	-
627	Detroit Lake/Big Cliff	211	-	7.875%	2004	1993	9	-	-
628	Detroit Lake/Big Cliff	7	-	7.125%	1999	1994	9	-	-
629	Detroit Lake/Big Cliff	13	-	7.330%	2000	1995	9	-	-
630	Detroit Lake/Big Cliff	38	38	7.150%	2045	1995	9	-	-
631	Detroit Lake/Big Cliff	24	-	6.950%	2006	1996	9	-	-
632	Detroit Lake/Big Cliff	282	282	5.875%	2051	2001	9	-	-
633	Detroit Lake/Big Cliff	18	18	5.500%	2052	2002	9	-	-
634	Detroit Lake/Big Cliff	223	223	5.125%	2053	2003	9	-	-
635	Detroit Lake/Big Cliff	1,031	1,031	5.125%	2055	2005	9	-	-
636	Dworshak	138,443	106,138	7.190%	2023	1973	9	-	-
637	Dworshak	836	803	7.190%	2023	1973	9	-	-
638	Dworshak	515	515	7.190%	2023	1974	9	-	-
639	Dworshak	3	-	7.190%	2023	1974	9	-	-
640	Dworshak	518	518	7.190%	2023	1975	9	-	-
641	Dworshak	3	3	7.190%	2023	1975	9	-	-
642	Dworshak	518	518	7.190%	2023	1976	9	-	-
643	Dworshak	3	3	7.190%	2023	1976	9	-	-
644	Dworshak	518	518	7.190%	2023	1977	9	-	-
645	Dworshak	3	3	7.190%	2023	1977	9	-	-
646	Dworshak	518	518	7.190%	2023	1978	9	-	-
647	Dworshak	3	3	7.190%	2023	1978	9	-	-
648	Dworshak	518	518	7.190%	2023	1979	9	-	-
649	Dworshak	3	3	7.190%	2023	1979	9	-	-
650	Dworshak	518	518	7.190%	2023	1980	9	-	-
651	Dworshak	3	3	7.190%	2023	1980	9	-	-
652	Dworshak	518	518	7.190%	2023	1981	9	-	-

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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
653	Dworshak	3	3	7.190%	2023	1981	9	-	-
654	Dworshak	518	518	7.190%	2023	1982	9	-	-
655	Dworshak	3	3	7.190%	2023	1982	9	-	-
656	Dworshak	523	523	7.190%	2023	1983	9	-	-
657	Dworshak	3	3	7.190%	2023	1983	9	-	-
658	Dworshak	2,499	-	10.750%	2023	1984	9	-	-
659	Dworshak	15	-	10.750%	2023	1984	9	-	-
660	Dworshak	1,141	1,141	7.190%	2023	1985	9	-	-
661	Dworshak	197	197	7.190%	2023	1986	9	-	-
662	Dworshak	36	5	7.190%	2023	1987	9	-	-
663	Dworshak	65	-	8.875%	2023	1987	9	-	-
664	Dworshak	61	-	8.500%	2023	1988	9	-	-
665	Dworshak	63	-	9.250%	2023	1989	9	-	-
666	Dworshak	245	-	8.875%	2023	1990	9	-	-
667	Dworshak	24	-	8.875%	2023	1990	9	-	-
668	Dworshak	224	-	8.750%	2023	1991	9	-	-
669	Dworshak	4	-	2.625%	2023	1992	9	-	-
670	Dworshak	28	-	8.500%	2023	1992	9	-	-
671	Dworshak	24	-	8.500%	2023	1992	9	-	-
672	Dworshak	41	-	7.875%	2023	1993	9	-	-
673	Dworshak	1,872	-	7.875%	2023	1993	9	-	-
674	Dworshak	1,351	-	7.125%	2029	1994	9	-	-
675	Dworshak	964	-	7.125%	2029	1994	9	-	-
676	Dworshak	55	-	7.930%	2020	1995	9	-	-
677	Dworshak	218	218	7.150%	2030	1995	9	-	-
678	Dworshak	1,162	1,162	7.150%	2045	1995	9	-	-
679	Dworshak	107	-	7.130%	2011	1996	9	-	-
680	Dworshak	26	-	7.230%	2021	1996	9	-	-
681	Dworshak	184	-	7.230%	2021	1996	9	-	-
682	Dworshak	6	6	7.150%	2031	1996	9	-	-
683	Dworshak	203	203	7.150%	2031	1996	9	-	-
684	Dworshak	3	3	7.150%	2046	1996	9	-	-
685	Dworshak	4	4	7.150%	2046	1996	9	-	-
686	Dworshak	46	46	7.150%	2046	1996	9	-	-
687	Dworshak	7,588	7,588	7.150%	2047	1997	9	-	-
688	Dworshak	630	630	5.375%	2049	1999	9	-	-
689	Dworshak	199	199	5.500%	2052	2002	9	-	-
690	Dworshak	761	761	5.125%	2053	2003	9	-	-
691	Dworshak	713	713	5.125%	2055	2005	9	-	-
692	Dworshak	73	73	4.500%	2056	2006	9	-	-
693	Dworshak	10	10	4.875%	2058	2008	9	-	-
694	Dworshak	2,496	2,496	4.375%	2059	2009	9	-	-
695	Green Peter/Foster	24,445	-	7.290%	2017	1967	9	-	-
696	Green Peter/Foster	12,180	-	7.280%	2018	1968	9	-	-
697	Green Peter/Foster	39	-	7.280%	2018	1969	9	-	-
698	Green Peter/Foster	40	-	7.280%	2018	1970	9	-	-
699	Green Peter/Foster	39	-	7.280%	2018	1971	9	-	-
700	Green Peter/Foster	39	-	7.280%	2018	1972	9	-	-
701	Green Peter/Foster	39	-	7.280%	2018	1973	9	-	-
702	Green Peter/Foster	39	-	7.280%	2018	1974	9	-	-
703	Green Peter/Foster	39	-	7.280%	2018	1975	9	-	-
704	Green Peter/Foster	39	-	7.280%	2018	1976	9	-	-
705	Green Peter/Foster	39	-	7.280%	2018	1977	9	-	-
706	Green Peter/Foster	39	-	7.280%	2018	1978	9	-	-
707	Green Peter/Foster	39	-	7.280%	2018	1979	9	-	-
708	Green Peter/Foster	40	-	7.280%	2018	1980	9	-	-
709	Green Peter/Foster	39	-	7.280%	2018	1981	9	-	-
710	Green Peter/Foster	39	-	7.280%	2018	1982	9	-	-
711	Green Peter/Foster	39	-	7.280%	2018	1983	9	-	-
712	Green Peter/Foster	15	-	10.750%	2018	1984	9	-	-
713	Green Peter/Foster	16	-	7.280%	2018	1985	9	-	-
714	Green Peter/Foster	3	-	7.280%	2018	1986	9	-	-
715	Green Peter/Foster	3	-	11.375%	2018	1986	9	-	-
716	Green Peter/Foster	1	-	7.280%	2018	1987	9	-	-
717	Green Peter/Foster	2	-	8.875%	2018	1987	9	-	-

TABLE 13A: HISTORICAL INVESTMENT
October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
718	Green Peter/Foster	13	-	8.500%	2018	1988	9	-	-
719	Green Peter/Foster	24	-	9.250%	2018	1989	9	-	-
720	Green Peter/Foster	5	-	8.875%	2018	1990	9	-	-
721	Green Peter/Foster	48	-	8.750%	2018	1991	9	-	-
722	Green Peter/Foster	2	-	8.500%	2018	1992	9	-	-
723	Green Peter/Foster	41	-	7.875%	2018	1993	9	-	-
724	Green Peter/Foster	6	-	7.125%	1999	1994	9	-	-
725	Green Peter/Foster	4	-	7.330%	2000	1995	9	-	-
726	Green Peter/Foster	11	-	7.250%	2020	1995	9	-	-
727	Green Peter/Foster	24	-	7.250%	2020	1995	9	-	-
728	Green Peter/Foster	26	26	7.150%	2046	1996	9	-	-
729	Green Peter/Foster	200	200	5.875%	2051	2001	9	-	-
730	Green Peter/Foster	1	1	4.250%	2060	2010	9	-	-
731	Hills Creek	10,353	5,159	7.160%	2012	1962	9	-	-
732	Hills Creek	12	-	7.160%	2012	1963	9	-	-
733	Hills Creek	13	-	7.160%	2012	1964	9	-	-
734	Hills Creek	13	-	7.160%	2012	1965	9	-	-
735	Hills Creek	13	-	7.160%	2012	1966	9	-	-
736	Hills Creek	13	-	7.160%	2012	1967	9	-	-
737	Hills Creek	13	-	7.160%	2012	1968	9	-	-
738	Hills Creek	13	-	7.160%	2012	1969	9	-	-
739	Hills Creek	13	-	7.160%	2012	1970	9	-	-
740	Hills Creek	13	-	7.160%	2012	1971	9	-	-
741	Hills Creek	13	-	7.160%	2012	1972	9	-	-
742	Hills Creek	13	-	7.160%	2012	1973	9	-	-
743	Hills Creek	13	13	7.160%	2012	1974	9	-	-
744	Hills Creek	13	-	7.160%	2012	1975	9	-	-
745	Hills Creek	13	-	7.160%	2012	1976	9	-	-
746	Hills Creek	13	13	7.160%	2012	1977	9	-	-
747	Hills Creek	13	13	7.160%	2012	1978	9	-	-
748	Hills Creek	13	13	7.160%	2012	1979	9	-	-
749	Hills Creek	13	13	7.160%	2012	1980	9	-	-
750	Hills Creek	13	13	7.160%	2012	1981	9	-	-
751	Hills Creek	13	13	7.160%	2012	1982	9	-	-
752	Hills Creek	13	13	7.160%	2012	1983	9	-	-
753	Hills Creek	52	-	10.750%	2012	1984	9	-	-
754	Hills Creek	6	-	7.160%	2012	1985	9	-	-
755	Hills Creek	3	-	8.875%	2012	1987	9	-	-
756	Hills Creek	3	-	8.500%	2012	1988	9	-	-
757	Hills Creek	3	-	8.875%	2012	1990	9	-	-
758	Hills Creek	17	-	8.750%	2012	1991	9	-	-
759	Hills Creek	1	-	8.500%	2012	1992	9	-	-
760	Hills Creek	13	-	7.875%	2012	1993	9	-	-
761	Hills Creek	28	28	7.150%	2046	1996	9	-	-
762	Hills Creek	2,630	2,630	6.125%	2050	2000	9	-	-
763	Hills Creek	8	8	5.875%	2051	2001	9	-	-
764	Hills Creek	2	2	5.500%	2052	2002	9	-	-
765	Hills Creek	46	46	5.125%	2055	2005	9	-	-
766	Hungry Horse Dam	75,076	-	6.840%	2003	1953	9	-	-
767	Hungry Horse Dam	2,126	-	6.840%	2003	1953	9	-	-
768	Hungry Horse Dam	17	-	6.840%	2003	1954	9	-	-
769	Hungry Horse Dam	1	-	6.840%	2003	1954	9	-	-
770	Hungry Horse Dam	17	-	6.840%	2003	1955	9	-	-
771	Hungry Horse Dam	1	-	6.840%	2003	1955	9	-	-
772	Hungry Horse Dam	17	-	6.840%	2003	1956	9	-	-
773	Hungry Horse Dam	1	-	6.840%	2003	1956	9	-	-
774	Hungry Horse Dam	18	-	6.840%	2003	1957	9	-	-
775	Hungry Horse Dam	1	-	6.840%	2003	1957	9	-	-
776	Hungry Horse Dam	18	-	6.840%	2003	1958	9	-	-
777	Hungry Horse Dam	1	-	6.840%	2003	1958	9	-	-
778	Hungry Horse Dam	18	-	6.840%	2003	1959	9	-	-
779	Hungry Horse Dam	1	-	6.840%	2003	1959	9	-	-
780	Hungry Horse Dam	18	-	6.840%	2003	1960	9	-	-
781	Hungry Horse Dam	1	-	6.840%	2003	1960	9	-	-
782	Hungry Horse Dam	18	-	6.840%	2003	1961	9	-	-

TABLE 13A: HISTORICAL INVESTMENT
October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
783	Hungry Horse Dam	1	-	6.840%	2003	1961	9	-	-
784	Hungry Horse Dam	18	-	6.840%	2003	1962	9	-	-
785	Hungry Horse Dam	1	-	6.840%	2003	1962	9	-	-
786	Hungry Horse Dam	18	-	6.840%	2003	1963	9	-	-
787	Hungry Horse Dam	1	-	6.840%	2003	1963	9	-	-
788	Hungry Horse Dam	17	-	6.840%	2003	1964	9	-	-
789	Hungry Horse Dam	1	-	6.840%	2003	1964	9	-	-
790	Hungry Horse Dam	17	-	6.840%	2003	1965	9	-	-
791	Hungry Horse Dam	1	-	6.840%	2003	1965	9	-	-
792	Hungry Horse Dam	17	-	6.840%	2003	1966	9	-	-
793	Hungry Horse Dam	1	-	6.840%	2003	1966	9	-	-
794	Hungry Horse Dam	18	-	6.840%	2003	1967	9	-	-
795	Hungry Horse Dam	1	-	6.840%	2003	1967	9	-	-
796	Hungry Horse Dam	18	-	6.840%	2003	1968	9	-	-
797	Hungry Horse Dam	1	-	6.840%	2003	1968	9	-	-
798	Hungry Horse Dam	18	-	6.840%	2003	1969	9	-	-
799	Hungry Horse Dam	1	-	6.840%	2003	1969	9	-	-
800	Hungry Horse Dam	18	-	6.840%	2003	1970	9	-	-
801	Hungry Horse Dam	1	-	6.840%	2003	1970	9	-	-
802	Hungry Horse Dam	18	-	6.840%	2003	1971	9	-	-
803	Hungry Horse Dam	1	-	6.840%	2003	1971	9	-	-
804	Hungry Horse Dam	18	-	6.840%	2003	1972	9	-	-
805	Hungry Horse Dam	1	-	6.840%	2003	1972	9	-	-
806	Hungry Horse Dam	18	-	6.840%	2003	1973	9	-	-
807	Hungry Horse Dam	1	-	6.840%	2003	1973	9	-	-
808	Hungry Horse Dam	17	-	6.840%	2003	1974	9	-	-
809	Hungry Horse Dam	1	-	6.840%	2003	1974	9	-	-
810	Hungry Horse Dam	17	-	6.840%	2003	1975	9	-	-
811	Hungry Horse Dam	1	-	6.840%	2003	1975	9	-	-
812	Hungry Horse Dam	10	-	6.840%	2003	1976	9	-	-
813	Hungry Horse Dam	1	-	6.840%	2003	1976	9	-	-
814	Hungry Horse Dam	18	-	6.840%	2003	1977	9	-	-
815	Hungry Horse Dam	1	-	6.840%	2003	1977	9	-	-
816	Hungry Horse Dam	18	-	6.840%	2003	1978	9	-	-
817	Hungry Horse Dam	1	-	6.840%	2003	1978	9	-	-
818	Hungry Horse Dam	18	-	6.840%	2003	1979	9	-	-
819	Hungry Horse Dam	1	-	6.840%	2003	1979	9	-	-
820	Hungry Horse Dam	18	-	6.840%	2003	1980	9	-	-
821	Hungry Horse Dam	1	-	6.840%	2003	1980	9	-	-
822	Hungry Horse Dam	22	-	6.840%	2003	1981	9	-	-
823	Hungry Horse Dam	1	-	6.840%	2003	1981	9	-	-
824	Hungry Horse Dam	1	-	6.840%	2003	1982	9	-	-
825	Hungry Horse Dam	12	-	6.840%	2003	1983	9	-	-
826	Hungry Horse Dam	1	-	6.840%	2003	1983	9	-	-
827	Hungry Horse Dam	32	-	10.750%	2003	1984	9	-	-
828	Hungry Horse Dam	1	-	10.750%	2003	1984	9	-	-
829	Hungry Horse Dam	36	-	12.375%	2003	1985	9	-	-
830	Hungry Horse Dam	37	-	12.375%	2003	1985	9	-	-
831	Hungry Horse Dam	101	-	9.250%	2003	1989	9	-	-
832	Hungry Horse Dam	58	-	8.875%	2003	1990	9	-	-
833	Hungry Horse Dam	19	-	8.750%	2003	1991	9	-	-
834	Hungry Horse Dam	9	-	8.500%	2003	1992	9	-	-
835	Hungry Horse Dam	4,136	-	7.875%	2003	1993	9	-	-
836	Hungry Horse Dam	2	-	7.875%	2003	1993	9	-	-
837	Hungry Horse Dam	56	-	7.125%	2019	1994	9	-	-
838	Hungry Horse Dam	156	-	6.620%	2000	1995	9	-	-
839	Hungry Horse Dam	84	-	6.620%	2000	1995	9	-	-
840	Hungry Horse Dam	450	-	7.930%	2020	1995	9	-	-
841	Hungry Horse Dam	536	536	7.150%	2030	1995	9	-	-
842	Hungry Horse Dam	1,198	1,195	7.150%	2030	1995	9	-	-
843	Hungry Horse Dam	6,190	6,190	7.150%	2045	1995	9	-	-
844	Hungry Horse Dam	14,354	-	7.860%	2045	1995	9	-	-
845	Hungry Horse Dam	15	15	7.150%	2046	1996	9	-	-
846	Hungry Horse Dam	2	2	7.150%	2046	1996	9	-	-
847	Hungry Horse Dam	154	-	6.950%	2007	1997	9	-	-

TABLE 13A: HISTORICAL INVESTMENT
October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
848	Hungry Horse Dam	111	111	7.150%	2047	1997	9	-	-
849	Hungry Horse Dam	552	552	5.875%	2051	2001	9	-	-
850	Hungry Horse Dam	2,951	2,951	5.125%	2055	2005	9	-	-
851	Hungry Horse Dam	294	294	5.000%	2057	2007	9	-	-
852	Hungry Horse Dam	76	76	4.875%	2058	2008	9	-	-
853	Hungry Horse Dam	60	60	4.375%	2059	2009	9	-	-
854	Hungry Horse Dam	783	783	4.250%	2060	2010	9	-	-
855	Ice Harbor	664	-	7.160%	2012	1962	9	-	-
856	Ice Harbor	59,699	-	7.160%	2012	1962	9	-	-
857	Ice Harbor	46	-	7.160%	2012	1963	9	-	-
858	Ice Harbor	1	-	7.160%	2012	1963	9	-	-
859	Ice Harbor	46	-	7.160%	2012	1964	9	-	-
860	Ice Harbor	1	-	7.160%	2012	1964	9	-	-
861	Ice Harbor	46	-	7.160%	2012	1965	9	-	-
862	Ice Harbor	1	-	7.160%	2012	1965	9	-	-
863	Ice Harbor	46	-	7.160%	2012	1966	9	-	-
864	Ice Harbor	1	-	7.160%	2012	1966	9	-	-
865	Ice Harbor	46	-	7.160%	2012	1967	9	-	-
866	Ice Harbor	1	-	7.160%	2012	1967	9	-	-
867	Ice Harbor	46	-	7.160%	2012	1968	9	-	-
868	Ice Harbor	1	-	7.160%	2012	1968	9	-	-
869	Ice Harbor	46	-	7.160%	2012	1969	9	-	-
870	Ice Harbor	1	-	7.160%	2012	1969	9	-	-
871	Ice Harbor	46	-	7.160%	2012	1970	9	-	-
872	Ice Harbor	1	-	7.160%	2012	1970	9	-	-
873	Ice Harbor	46	-	7.160%	2012	1971	9	-	-
874	Ice Harbor	1	-	7.160%	2012	1971	9	-	-
875	Ice Harbor	46	-	7.160%	2012	1972	9	-	-
876	Ice Harbor	1	-	7.160%	2012	1972	9	-	-
877	Ice Harbor	46	-	7.160%	2012	1973	9	-	-
878	Ice Harbor	1	1	7.160%	2012	1973	9	-	-
879	Ice Harbor	46	-	7.160%	2012	1974	9	-	-
880	Ice Harbor	1	-	7.160%	2012	1974	9	-	-
881	Ice Harbor	46	-	7.160%	2012	1975	9	-	-
882	Ice Harbor	1	-	7.160%	2012	1975	9	-	-
883	Ice Harbor	46	-	7.160%	2012	1976	9	-	-
884	Ice Harbor	1	-	7.160%	2012	1976	9	-	-
885	Ice Harbor	20,472	20,472	7.150%	2026	1976	9	-	-
886	Ice Harbor	228	228	7.150%	2026	1976	9	-	-
887	Ice Harbor	46	-	7.160%	2012	1977	9	-	-
888	Ice Harbor	1	-	7.160%	2012	1977	9	-	-
889	Ice Harbor	46	-	7.160%	2012	1978	9	-	-
890	Ice Harbor	1	-	7.160%	2012	1978	9	-	-
891	Ice Harbor	46	-	7.160%	2012	1979	9	-	-
892	Ice Harbor	1	-	7.160%	2012	1979	9	-	-
893	Ice Harbor	46	-	7.160%	2012	1980	9	-	-
894	Ice Harbor	1	-	7.160%	2012	1980	9	-	-
895	Ice Harbor	46	-	7.160%	2012	1981	9	-	-
896	Ice Harbor	1	-	7.160%	2012	1981	9	-	-
897	Ice Harbor	46	-	7.160%	2012	1982	9	-	-
898	Ice Harbor	1	-	7.160%	2012	1982	9	-	-
899	Ice Harbor	46	-	7.160%	2012	1983	9	-	-
900	Ice Harbor	1	-	7.160%	2012	1983	9	-	-
901	Ice Harbor	41	-	7.160%	2012	1985	9	-	-
902	Ice Harbor	21	21	7.150%	2026	1985	9	-	-
903	Ice Harbor	137	-	7.160%	2012	1986	9	-	-
904	Ice Harbor	3	-	7.160%	2012	1987	9	-	-
905	Ice Harbor	71	-	8.875%	2012	1987	9	-	-
906	Ice Harbor	1	-	8.875%	2012	1987	9	-	-
907	Ice Harbor	8	-	8.500%	2012	1988	9	-	-
908	Ice Harbor	57	-	8.500%	2012	1988	9	-	-
909	Ice Harbor	51	-	9.250%	2012	1989	9	-	-
910	Ice Harbor	427	-	8.875%	2012	1990	9	-	-
911	Ice Harbor	348	-	8.750%	2012	1991	9	-	-
912	Ice Harbor	177	-	8.500%	2012	1992	9	-	-

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October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
913	Ice Harbor	3,192	-	7.875%	2012	1993	9	-	-
914	Ice Harbor	1,645	-	7.875%	2012	1993	9	-	-
915	Ice Harbor	328	-	7.125%	2029	1994	9	-	-
916	Ice Harbor	520	-	7.125%	2029	1994	9	-	-
917	Ice Harbor	2	-	7.330%	2000	1995	9	-	-
918	Ice Harbor	84	-	7.270%	2019	1995	9	-	-
919	Ice Harbor	171	-	7.270%	2019	1995	9	-	-
920	Ice Harbor	849	-	7.270%	2019	1995	9	-	-
921	Ice Harbor	78	78	7.150%	2031	1996	9	-	-
922	Ice Harbor	371	371	7.150%	2041	1996	9	-	-
923	Ice Harbor	66	-	7.230%	2022	1997	9	-	-
924	Ice Harbor	67	67	7.150%	2047	1997	9	-	-
925	Ice Harbor	5,516	5,516	5.375%	2049	1999	9	-	-
926	Ice Harbor	548	548	6.125%	2050	2000	9	-	-
927	Ice Harbor	764	764	5.875%	2051	2001	9	-	-
928	Ice Harbor	1,014	1,014	5.500%	2052	2002	9	-	-
929	Ice Harbor	50	50	5.125%	2053	2003	9	-	-
930	Ice Harbor	3,321	3,321	5.375%	2054	2004	9	-	-
931	Ice Harbor	14	14	4.875%	2058	2008	9	-	-
932	Ice Harbor	2,615	2,615	4.375%	2059	2009	9	-	-
933	Ice Harbor	207	207	4.250%	2060	2010	9	-	-
934	John Day	27,254	-	7.280%	2018	1968	9	-	-
935	John Day	96,104	-	7.270%	2019	1969	9	-	-
936	John Day	23,656	-	7.250%	2020	1970	9	-	-
937	John Day	34,974	-	7.230%	2021	1971	9	-	-
938	John Day	11,502	8,837	7.210%	2022	1972	9	-	-
939	John Day	3,677	-	10.750%	2022	1984	9	-	-
940	John Day	6,490	-	7.210%	2022	1985	9	-	-
941	John Day	1,209	-	12.375%	2022	1985	9	-	-
942	John Day	3,227	-	7.210%	2022	1986	9	-	-
943	John Day	713	-	11.375%	2022	1986	9	-	-
944	John Day	706	-	7.210%	2022	1987	9	-	-
945	John Day	4,353	-	8.875%	2022	1987	9	-	-
946	John Day	332	-	8.500%	2022	1988	9	-	-
947	John Day	199	-	8.500%	2022	1988	9	-	-
948	John Day	30	-	7.210%	2022	1989	9	-	-
949	John Day	377	-	9.250%	2022	1989	9	-	-
950	John Day	37	-	7.210%	2022	1990	9	-	-
951	John Day	543	-	8.875%	2022	1990	9	-	-
952	John Day	13,218	-	8.750%	2022	1991	9	-	-
953	John Day	144	-	8.750%	2022	1991	9	-	-
954	John Day	19	-	7.210%	2022	1992	9	-	-
955	John Day	95	-	8.500%	2022	1992	9	-	-
956	John Day	7,810	-	7.875%	2022	1993	9	-	-
957	John Day	9,585	-	7.875%	2022	1993	9	-	-
958	John Day	14	-	7.125%	2019	1994	9	-	-
959	John Day	1,252	-	7.125%	2029	1994	9	-	-
960	John Day	2	-	7.330%	2000	1995	9	-	-
961	John Day	9	-	7.330%	2000	1995	9	-	-
962	John Day	79	-	7.250%	2020	1995	9	-	-
963	John Day	22	22	7.150%	2035	1995	9	-	-
964	John Day	52	52	7.150%	2035	1995	9	-	-
965	John Day	121	121	7.150%	2035	1995	9	-	-
966	John Day	37	37	7.150%	2045	1995	9	-	-
967	John Day	608	608	7.150%	2045	1995	9	-	-
968	John Day	7,653	7,653	7.150%	2045	1995	9	-	-
969	John Day	237	-	7.130%	2011	1996	9	-	-
970	John Day	1,072	-	7.290%	2016	1996	9	-	-
971	John Day	133	-	7.230%	2022	1997	9	-	-
972	John Day	179	179	7.150%	2047	1997	9	-	-
973	John Day	3,510	3,510	5.375%	2049	1999	9	-	-
974	John Day	2,761	2,761	6.125%	2050	2000	9	-	-
975	John Day	619	619	5.875%	2051	2001	9	-	-
976	John Day	2,830	2,830	5.375%	2054	2004	9	-	-
977	John Day	2,827	2,827	5.125%	2055	2005	9	-	-

TABLE 13A: HISTORICAL INVESTMENT
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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
978	John Day	601	601	4.500%	2056	2006	9	-	-
979	John Day	233	233	5.000%	2057	2007	9	-	-
980	John Day	1,548	1,548	4.375%	2059	2009	9	-	-
981	John Day	356	356	4.250%	2060	2010	9	-	-
982	Libby	54,644	48,138	7.160%	2025	1975	9	-	-
983	Libby	153,432	153,432	7.150%	2026	1976	9	-	-
984	Libby	1,465	1,465	7.150%	2026	1977	9	-	-
985	Libby	1,465	1,465	7.150%	2026	1978	9	-	-
986	Libby	1,465	1,465	7.150%	2026	1979	9	-	-
987	Libby	1,465	1,465	7.150%	2026	1980	9	-	-
988	Libby	1,465	1,465	7.150%	2026	1981	9	-	-
989	Libby	1,465	1,465	7.150%	2026	1982	9	-	-
990	Libby	1,465	1,465	7.150%	2026	1983	9	-	-
991	Libby	104	-	10.750%	2026	1984	9	-	-
992	Libby	518	518	7.150%	2026	1985	9	-	-
993	Libby	283	283	7.150%	2026	1986	9	-	-
994	Libby	2	2	7.150%	2026	1987	9	-	-
995	Libby	35	-	8.505%	2026	1988	9	-	-
996	Libby	18,043	14,781	7.150%	2038	1988	9	-	-
997	Libby	1	1	7.150%	2026	1989	9	-	-
998	Libby	131	-	9.250%	2026	1989	9	-	-
999	Libby	11	-	8.875%	2026	1990	9	-	-
1000	Libby	134	-	8.750%	2026	1991	9	-	-
1001	Libby	100	-	8.500%	2026	1992	9	-	-
1002	Libby	70	-	8.500%	2026	1992	9	-	-
1003	Libby	600	-	7.875%	2026	1993	9	-	-
1004	Libby	286	152	7.150%	2029	1994	9	-	-
1005	Libby	215	-	7.125%	2029	1994	9	-	-
1006	Libby	15	15	7.150%	2030	1995	9	-	-
1007	Libby	41	41	7.150%	2030	1995	9	-	-
1008	Libby	94	94	7.150%	2030	1995	9	-	-
1009	Libby	432	-	7.230%	2022	1997	9	-	-
1010	Libby	660	660	7.150%	2047	1997	9	-	-
1011	Libby	5,562	5,562	5.875%	2051	2001	9	-	-
1012	Libby	1,567	1,567	4.875%	2058	2008	9	-	-
1013	Libby	40	40	4.250%	2060	2010	9	-	-
1014	Little Goose	22,326	-	7.250%	2020	1970	9	-	-
1015	Little Goose	42,962	-	7.230%	2021	1971	9	-	-
1016	Little Goose	28	-	7.230%	2021	1972	9	-	-
1017	Little Goose	29	-	7.230%	2021	1973	9	-	-
1018	Little Goose	28	-	7.230%	2021	1974	9	-	-
1019	Little Goose	29	-	7.230%	2021	1975	9	-	-
1020	Little Goose	28	-	7.230%	2021	1976	9	-	-
1021	Little Goose	29	-	7.230%	2021	1977	9	-	-
1022	Little Goose	28	28	7.230%	2021	1978	9	-	-
1023	Little Goose	49,578	49,550	7.150%	2028	1978	9	-	-
1024	Little Goose	29	-	7.230%	2021	1979	9	-	-
1025	Little Goose	28	-	7.230%	2021	1980	9	-	-
1026	Little Goose	29	-	7.230%	2021	1981	9	-	-
1027	Little Goose	28	-	7.230%	2021	1982	9	-	-
1028	Little Goose	29	-	7.230%	2021	1983	9	-	-
1029	Little Goose	201	-	10.750%	2021	1984	9	-	-
1030	Little Goose	174	-	7.230%	2021	1985	9	-	-
1031	Little Goose	47	47	7.150%	2028	1985	9	-	-
1032	Little Goose	239	-	7.230%	2021	1986	9	-	-
1033	Little Goose	6	-	7.230%	2021	1987	9	-	-
1034	Little Goose	72	-	8.875%	2021	1987	9	-	-
1035	Little Goose	12	-	8.500%	2021	1988	9	-	-
1036	Little Goose	68	-	8.500%	2021	1988	9	-	-
1037	Little Goose	77	-	9.250%	2021	1989	9	-	-
1038	Little Goose	408	-	8.875%	2021	1990	9	-	-
1039	Little Goose	21	-	8.875%	2021	1990	9	-	-
1040	Little Goose	266	-	8.750%	2021	1991	9	-	-
1041	Little Goose	66	-	8.500%	2021	1992	9	-	-
1042	Little Goose	27	-	8.500%	2021	1992	9	-	-

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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
1043	Little Goose	276	-	7.875%	2021	1993	9	-	-
1044	Little Goose	3,359	-	7.875%	2021	1993	9	-	-
1045	Little Goose	37	-	7.125%	2019	1994	9	-	-
1046	Little Goose	2,044	-	7.125%	2029	1994	9	-	-
1047	Little Goose	17	17	7.150%	2040	1995	9	-	-
1048	Little Goose	450	450	7.150%	2040	1995	9	-	-
1049	Little Goose	733	733	7.150%	2040	1995	9	-	-
1050	Little Goose	10	10	7.150%	2046	1996	9	-	-
1051	Little Goose	10	10	7.150%	2046	1996	9	-	-
1052	Little Goose	211	211	7.150%	2046	1996	9	-	-
1053	Little Goose	241	241	7.150%	2046	1996	9	-	-
1054	Little Goose	520	520	7.150%	2046	1996	9	-	-
1055	Little Goose	3,909	3,909	7.150%	2046	1996	9	-	-
1056	Little Goose	1	1	7.150%	2047	1997	9	-	-
1057	Little Goose	4,608	4,608	5.875%	2051	2001	9	-	-
1058	Little Goose	27	27	5.500%	2052	2002	9	-	-
1059	Little Goose	146	146	5.125%	2053	2003	9	-	-
1060	Little Goose	67	67	5.375%	2054	2004	9	-	-
1061	Little Goose	13	13	4.875%	2058	2008	9	-	-
1062	Little Goose	3,171	3,171	4.375%	2059	2009	9	-	-
1063	Little Goose	30	30	4.250%	2060	2010	9	-	-
1064	Lookout Dam	34,290	-	6.910%	2005	1955	9	-	-
1065	Lookout Dam	52	-	6.910%	2005	1956	9	-	-
1066	Lookout Dam	51	-	6.910%	2005	1957	9	-	-
1067	Lookout Dam	51	-	6.910%	2005	1958	9	-	-
1068	Lookout Dam	51	-	6.910%	2005	1959	9	-	-
1069	Lookout Dam	51	-	6.910%	2005	1960	9	-	-
1070	Lookout Dam	52	-	6.910%	2005	1961	9	-	-
1071	Lookout Dam	51	-	6.910%	2005	1962	9	-	-
1072	Lookout Dam	51	-	6.910%	2005	1963	9	-	-
1073	Lookout Dam	51	-	6.910%	2005	1964	9	-	-
1074	Lookout Dam	51	-	6.910%	2005	1965	9	-	-
1075	Lookout Dam	51	-	6.910%	2005	1966	9	-	-
1076	Lookout Dam	52	-	6.910%	2005	1967	9	-	-
1077	Lookout Dam	51	-	6.910%	2005	1968	9	-	-
1078	Lookout Dam	51	-	6.910%	2005	1969	9	-	-
1079	Lookout Dam	51	-	6.910%	2005	1970	9	-	-
1080	Lookout Dam	51	-	6.910%	2005	1971	9	-	-
1081	Lookout Dam	51	-	6.910%	2005	1972	9	-	-
1082	Lookout Dam	52	-	6.910%	2005	1973	9	-	-
1083	Lookout Dam	51	-	6.910%	2005	1974	9	-	-
1084	Lookout Dam	51	-	6.910%	2005	1975	9	-	-
1085	Lookout Dam	51	-	6.910%	2005	1976	9	-	-
1086	Lookout Dam	51	-	6.910%	2005	1977	9	-	-
1087	Lookout Dam	51	-	6.910%	2005	1978	9	-	-
1088	Lookout Dam	52	-	6.910%	2005	1979	9	-	-
1089	Lookout Dam	51	-	6.910%	2005	1980	9	-	-
1090	Lookout Dam	51	-	6.910%	2005	1981	9	-	-
1091	Lookout Dam	51	-	6.910%	2005	1982	9	-	-
1092	Lookout Dam	51	-	6.910%	2005	1983	9	-	-
1093	Lookout Dam	185	-	10.750%	2005	1984	9	-	-
1094	Lookout Dam	52	-	6.910%	2005	1985	9	-	-
1095	Lookout Dam	42	-	6.910%	2005	1986	9	-	-
1096	Lookout Dam	9	-	6.910%	2005	1987	9	-	-
1097	Lookout Dam	12	-	8.875%	2005	1987	9	-	-
1098	Lookout Dam	46	-	8.500%	2005	1988	9	-	-
1099	Lookout Dam	17	-	8.500%	2005	1988	9	-	-
1100	Lookout Dam	23	-	9.250%	2005	1989	9	-	-
1101	Lookout Dam	147	-	8.875%	2005	1990	9	-	-
1102	Lookout Dam	4	-	8.875%	2005	1990	9	-	-
1103	Lookout Dam	6	-	8.750%	2005	1991	9	-	-
1104	Lookout Dam	50	-	8.750%	2005	1991	9	-	-
1105	Lookout Dam	181	-	8.500%	2005	1992	9	-	-
1106	Lookout Dam	4	-	8.500%	2005	1992	9	-	-
1107	Lookout Dam	18	-	7.875%	2005	1993	9	-	-
1108	Lookout Dam	189	-	7.875%	2005	1993	9	-	-

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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
1109	Lookout Dam	73	-	7.125%	2019	1994	9	-	-
1110	Lookout Dam	80	39	7.150%	2045	1995	9	-	-
1111	Lookout Dam	33	33	7.150%	2045	1995	9	-	-
1112	Lookout Dam	9	-	7.860%	2045	1995	9	-	-
1113	Lookout Dam	15	-	7.860%	2045	1995	9	-	-
1114	Lookout Dam	31	-	7.860%	2045	1995	9	-	-
1115	Lookout Dam	157	-	7.860%	2045	1995	9	-	-
1116	Lookout Dam	5,098	5,098	6.125%	2050	2000	9	-	-
1117	Lookout Dam	135	135	5.125%	2053	2003	9	-	-
1118	Lookout Dam	7,355	7,355	5.125%	2055	2005	9	-	-
1119	Lookout Dam	572	572	5.000%	2057	2007	9	-	-
1120	Lost Creek	13,505	13,413	7.150%	2027	1977	9	-	-
1121	Lost Creek	58	58	7.150%	2027	1978	9	-	-
1122	Lost Creek	60	60	7.150%	2027	1979	9	-	-
1123	Lost Creek	60	60	7.150%	2027	1980	9	-	-
1124	Lost Creek	60	60	7.150%	2027	1981	9	-	-
1125	Lost Creek	60	60	7.150%	2027	1982	9	-	-
1126	Lost Creek	60	60	7.150%	2027	1983	9	-	-
1127	Lost Creek	243	-	10.750%	2027	1984	9	-	-
1128	Lost Creek	12	12	7.150%	2027	1985	9	-	-
1129	Lost Creek	6	6	7.150%	2027	1986	9	-	-
1130	Lost Creek	5	-	11.375%	2027	1986	9	-	-
1131	Lost Creek	4	4	7.150%	2027	1987	9	-	-
1132	Lost Creek	3	-	8.875%	2027	1987	9	-	-
1133	Lost Creek	7	-	8.500%	2027	1988	9	-	-
1134	Lost Creek	9	-	9.250%	2027	1989	9	-	-
1135	Lost Creek	1	-	8.875%	2027	1990	9	-	-
1136	Lost Creek	31	-	8.750%	2027	1991	9	-	-
1137	Lost Creek	1	-	8.500%	2027	1992	9	-	-
1138	Lost Creek	1	-	8.500%	2027	1992	9	-	-
1139	Lost Creek	1	-	7.875%	2027	1993	9	-	-
1140	Lost Creek	14	-	7.875%	2027	1993	9	-	-
1141	Lost Creek	4	-	7.330%	2000	1995	9	-	-
1142	Lost Creek	94	94	7.150%	2045	1995	9	-	-
1143	Lost Creek	31	31	7.150%	2031	1996	9	-	-
1144	Lost Creek	24	24	7.150%	2046	1996	9	-	-
1145	Lost Creek	154	154	5.875%	2051	2001	9	-	-
1146	Lower Granite	119,237	117,645	7.160%	2025	1975	9	-	-
1147	Lower Granite	510	510	7.160%	2025	1976	9	-	-
1148	Lower Granite	510	510	7.160%	2025	1977	9	-	-
1149	Lower Granite	510	510	7.160%	2025	1978	9	-	-
1150	Lower Granite	40,611	40,611	7.150%	2028	1978	9	-	-
1151	Lower Granite	510	510	7.160%	2025	1979	9	-	-
1152	Lower Granite	510	510	7.160%	2025	1980	9	-	-
1153	Lower Granite	510	510	7.160%	2025	1981	9	-	-
1154	Lower Granite	510	510	7.160%	2025	1982	9	-	-
1155	Lower Granite	510	510	7.160%	2025	1983	9	-	-
1156	Lower Granite	311	-	10.750%	2025	1984	9	-	-
1157	Lower Granite	328	328	7.160%	2025	1985	9	-	-
1158	Lower Granite	215	215	7.160%	2025	1986	9	-	-
1159	Lower Granite	4	-	11.375%	2025	1986	9	-	-
1160	Lower Granite	8	8	7.160%	2025	1987	9	-	-
1161	Lower Granite	60	-	8.875%	2025	1987	9	-	-
1162	Lower Granite	22	-	8.500%	2025	1988	9	-	-
1163	Lower Granite	95	-	8.500%	2025	1988	9	-	-
1164	Lower Granite	112	-	9.250%	2025	1989	9	-	-
1165	Lower Granite	392	-	8.875%	2025	1990	9	-	-
1166	Lower Granite	281	-	8.750%	2025	1991	9	-	-
1167	Lower Granite	6	-	8.750%	2025	1991	9	-	-
1168	Lower Granite	83	-	8.500%	2025	1992	9	-	-
1169	Lower Granite	121	-	8.500%	2025	1992	9	-	-
1170	Lower Granite	26	-	7.875%	2025	1993	9	-	-
1171	Lower Granite	3,272	-	7.875%	2025	1993	9	-	-
1172	Lower Granite	38	-	7.125%	2019	1994	9	-	-
1173	Lower Granite	3,543	1,551	7.150%	2029	1994	9	-	-

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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
1174	Lower Granite	77	-	7.290%	2017	1995	9	-	-
1175	Lower Granite	388	-	7.290%	2017	1995	9	-	-
1176	Lower Granite	458	-	7.290%	2017	1995	9	-	-
1177	Lower Granite	96	96	7.160%	2025	1995	9	-	-
1178	Lower Granite	255	-	7.130%	2011	1996	9	-	-
1179	Lower Granite	206	206	7.150%	2031	1996	9	-	-
1180	Lower Granite	9	9	7.150%	2046	1996	9	-	-
1181	Lower Granite	625	625	7.150%	2046	1996	9	-	-
1182	Lower Granite	677	677	7.150%	2047	1997	9	-	-
1183	Lower Granite	856	856	5.375%	2049	1999	9	-	-
1184	Lower Granite	2,025	2,025	5.875%	2051	2001	9	-	-
1185	Lower Granite	1,275	1,275	5.500%	2052	2002	9	-	-
1186	Lower Granite	42	42	5.125%	2053	2003	9	-	-
1187	Lower Granite	393	393	5.125%	2055	2005	9	-	-
1188	Lower Granite	24	24	4.875%	2058	2008	9	-	-
1189	Lower Granite	5,669	5,669	4.375%	2059	2009	9	-	-
1190	Lower Granite	1,157	1,157	4.250%	2060	2010	9	-	-
1191	Lower Monument	26,974	-	7.270%	2019	1969	9	-	-
1192	Lower Monument	51,218	-	7.250%	2020	1970	9	-	-
1193	Lower Monument	214	-	7.250%	2020	1971	9	-	-
1194	Lower Monument	214	-	7.250%	2020	1972	9	-	-
1195	Lower Monument	214	-	7.250%	2020	1973	9	-	-
1196	Lower Monument	214	-	7.250%	2020	1974	9	-	-
1197	Lower Monument	214	-	7.250%	2020	1975	9	-	-
1198	Lower Monument	214	-	7.250%	2020	1976	9	-	-
1199	Lower Monument	214	-	7.250%	2020	1977	9	-	-
1200	Lower Monument	214	-	7.250%	2020	1978	9	-	-
1201	Lower Monument	214	-	7.250%	2020	1979	9	-	-
1202	Lower Monument	40,669	40,669	7.150%	2029	1979	9	-	-
1203	Lower Monument	214	-	7.250%	2020	1980	9	-	-
1204	Lower Monument	214	-	7.250%	2020	1981	9	-	-
1205	Lower Monument	214	-	7.250%	2020	1982	9	-	-
1206	Lower Monument	214	-	7.250%	2020	1983	9	-	-
1207	Lower Monument	8	-	7.250%	2020	1985	9	-	-
1208	Lower Monument	256	256	7.150%	2029	1985	9	-	-
1209	Lower Monument	132	-	7.250%	2020	1986	9	-	-
1210	Lower Monument	3	-	7.250%	2020	1987	9	-	-
1211	Lower Monument	50	-	8.875%	2020	1987	9	-	-
1212	Lower Monument	1	-	8.500%	2020	1988	9	-	-
1213	Lower Monument	58	-	8.500%	2020	1988	9	-	-
1214	Lower Monument	93	-	9.250%	2020	1989	9	-	-
1215	Lower Monument	358	-	8.875%	2020	1990	9	-	-
1216	Lower Monument	594	-	8.750%	2020	1991	9	-	-
1217	Lower Monument	4,484	-	8.500%	2020	1992	9	-	-
1218	Lower Monument	24	-	7.875%	2020	1993	9	-	-
1219	Lower Monument	2,175	-	7.875%	2020	1993	9	-	-
1220	Lower Monument	107	-	7.125%	2019	1994	9	-	-
1221	Lower Monument	2,167	-	7.125%	2029	1994	9	-	-
1222	Lower Monument	6	-	7.330%	2000	1995	9	-	-
1223	Lower Monument	41	41	7.150%	2045	1995	9	-	-
1224	Lower Monument	99	99	7.150%	2045	1995	9	-	-
1225	Lower Monument	624	624	7.150%	2045	1995	9	-	-
1226	Lower Monument	1,122	1,122	7.150%	2045	1995	9	-	-
1227	Lower Monument	668	-	7.290%	2016	1996	9	-	-
1228	Lower Monument	37	-	7.230%	2021	1996	9	-	-
1229	Lower Monument	51	-	7.230%	2021	1996	9	-	-
1230	Lower Monument	264	264	7.150%	2036	1996	9	-	-
1231	Lower Monument	10	10	7.150%	2046	1996	9	-	-
1232	Lower Monument	3,301	3,301	5.875%	2051	2001	9	-	-
1233	Lower Monument	29	29	5.500%	2052	2002	9	-	-
1234	Lower Monument	22	22	5.125%	2053	2003	9	-	-
1235	Lower Monument	3,423	3,423	5.375%	2054	2004	9	-	-
1236	Lower Monument	527	527	5.125%	2055	2005	9	-	-
1237	Lower Monument	285	285	4.500%	2056	2006	9	-	-
1238	Lower Monument	9	9	4.875%	2058	2008	9	-	-

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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
1239	Lower Monument	2,332	2,332	4.375%	2059	2009	9	-	-
1240	Lower Snake Fish and Wildlife	30,488	9,472	7.150%	2033	1983	9	-	-
1241	Lower Snake Fish and Wildlife	47,921	47,921	7.150%	2035	1985	9	-	-
1242	Lower Snake Fish and Wildlife	72,536	72,536	7.150%	2037	1987	9	-	-
1243	Lower Snake Fish and Wildlife	805	805	7.150%	2038	1988	9	-	-
1244	Lower Snake Fish and Wildlife	1,557	1,557	7.150%	2040	1990	9	-	-
1245	Lower Snake Fish and Wildlife	4,411	4,411	7.150%	2041	1991	9	-	-
1246	Lower Snake Fish and Wildlife	71,632	71,632	7.150%	2043	1993	9	-	-
1247	Lower Snake Fish and Wildlife	4,722	4,722	7.150%	2044	1994	9	-	-
1248	Lower Snake Fish and Wildlife	12,085	12,085	7.150%	2046	1996	9	-	-
1249	Lower Snake Fish and Wildlife	2,173	2,173	7.150%	2047	1997	9	-	-
1250	Lower Snake Fish and Wildlife	7	7	5.375%	2049	1999	9	-	-
1251	Lower Snake Fish and Wildlife	1,529	1,529	6.125%	2050	2000	9	-	-
1252	Lower Snake Fish and Wildlife	325	325	5.875%	2051	2001	9	-	-
1253	Lower Snake Fish and Wildlife	890	890	5.500%	2052	2002	9	-	-
1254	Lower Snake Fish and Wildlife	98	98	5.125%	2053	2003	9	-	-
1255	Lower Snake Fish and Wildlife	230	230	5.375%	2054	2004	9	-	-
1256	Lower Snake Fish and Wildlife	4	4	5.125%	2055	2005	9	-	-
1257	Lower Snake Fish and Wildlife	379	379	4.500%	2056	2006	9	-	-
1258	Lower Snake Fish and Wildlife	74	74	4.875%	2058	2008	9	-	-
1259	Lower Snake Fish and Wildlife	1,540	1,540	4.375%	2059	2009	9	-	-
1260	Lower Snake Fish and Wildlife	6	6	4.250%	2060	2010	9	-	-
1261	McNary	80,256	-	6.880%	2004	1954	9	-	-
1262	McNary	53,493	-	6.910%	2005	1955	9	-	-
1263	McNary	38,748	-	6.950%	2006	1956	9	-	-
1264	McNary	24,985	-	6.980%	2007	1957	9	-	-
1265	McNary	468	-	6.980%	2007	1958	9	-	-
1266	McNary	468	-	6.980%	2007	1959	9	-	-
1267	McNary	468	-	6.980%	2007	1960	9	-	-
1268	McNary	468	-	6.980%	2007	1961	9	-	-
1269	McNary	467	-	6.980%	2007	1962	9	-	-
1270	McNary	468	-	6.980%	2007	1963	9	-	-
1271	McNary	468	-	6.980%	2007	1964	9	-	-
1272	McNary	468	-	6.980%	2007	1965	9	-	-
1273	McNary	468	-	6.980%	2007	1966	9	-	-
1274	McNary	467	-	6.980%	2007	1967	9	-	-
1275	McNary	468	-	6.980%	2007	1968	9	-	-
1276	McNary	468	-	6.980%	2007	1969	9	-	-
1277	McNary	468	-	6.980%	2007	1970	9	-	-
1278	McNary	468	-	6.980%	2007	1971	9	-	-
1279	McNary	468	-	6.980%	2007	1972	9	-	-
1280	McNary	467	-	6.980%	2007	1973	9	-	-
1281	McNary	468	-	6.980%	2007	1974	9	-	-
1282	McNary	468	-	6.980%	2007	1975	9	-	-
1283	McNary	468	-	6.980%	2007	1976	9	-	-
1284	McNary	467	-	6.980%	2007	1977	9	-	-
1285	McNary	468	-	6.980%	2007	1978	9	-	-
1286	McNary	468	-	6.980%	2007	1979	9	-	-
1287	McNary	468	-	6.980%	2007	1980	9	-	-
1288	McNary	468	-	6.980%	2007	1981	9	-	-
1289	McNary	467	-	6.980%	2007	1982	9	-	-
1290	McNary	468	-	6.980%	2007	1983	9	-	-
1291	McNary	557	-	6.980%	2007	1985	9	-	-
1292	McNary	454	-	6.980%	2007	1986	9	-	-
1293	McNary	24	-	6.980%	2007	1987	9	-	-
1294	McNary	509	-	7.090%	2010	1995	9	-	-
1295	McNary	16	16	7.150%	2045	1995	9	-	-
1296	McNary	778	-	6.950%	2006	1996	9	-	-
1297	McNary	3	-	7.130%	2011	1996	9	-	-
1298	McNary	74	74	7.150%	2026	1996	9	-	-
1299	McNary	277	277	7.150%	2026	1996	9	-	-
1300	McNary	619	619	7.150%	2046	1996	9	-	-
1301	McNary	30	30	7.150%	2032	1997	9	-	-
1302	McNary	1,046	1,046	5.875%	2051	2001	9	-	-
1303	McNary	97	97	5.750%	2053	2003	9	-	-
1304	McNary	6,138	6,138	5.375%	2054	2004	9	-	-

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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
1305	McNary	550	550	5.125%	2055	2005	9	-	-
1306	McNary	4,080	4,080	4.500%	2056	2006	9	-	-
1307	McNary	215	215	4.875%	2058	2008	9	-	-
1308	Minidoka/Palisades	854	-	3.000%	1959	1909	9	-	-
1309	Minidoka/Palisades	226	-	3.000%	1959	1909	9	-	-
1310	Minidoka/Palisades	1,709	-	3.000%	1960	1910	9	-	-
1311	Minidoka/Palisades	451	-	3.000%	1960	1910	9	-	-
1312	Minidoka/Palisades	1,709	-	3.000%	1961	1911	9	-	-
1313	Minidoka/Palisades	451	-	3.000%	1961	1911	9	-	-
1314	Minidoka/Palisades	854	-	3.000%	1977	1927	9	-	-
1315	Minidoka/Palisades	226	-	3.000%	1977	1927	9	-	-
1316	Minidoka/Palisades	854	-	3.000%	1992	1942	9	-	-
1317	Minidoka/Palisades	226	-	3.000%	1992	1942	9	-	-
1318	Minidoka/Palisades	2,561	-	3.000%	2007	1957	9	-	-
1319	Minidoka/Palisades	677	-	3.000%	2007	1957	9	-	-
1320	Minidoka/Palisades	854	-	3.000%	2008	1958	9	-	-
1321	Minidoka/Palisades	226	-	3.000%	2008	1958	9	-	-
1322	Minidoka/Palisades	108	-	3.000%	2008	1959	9	-	-
1323	Minidoka/Palisades	28	-	3.000%	2008	1959	9	-	-
1324	Minidoka/Palisades	108	-	3.000%	2008	1960	9	-	-
1325	Minidoka/Palisades	29	-	3.000%	2008	1960	9	-	-
1326	Minidoka/Palisades	108	-	3.000%	2008	1961	9	-	-
1327	Minidoka/Palisades	29	-	3.000%	2008	1961	9	-	-
1328	Minidoka/Palisades	108	-	3.000%	2008	1962	9	-	-
1329	Minidoka/Palisades	28	-	3.000%	2008	1962	9	-	-
1330	Minidoka/Palisades	108	-	3.000%	2008	1963	9	-	-
1331	Minidoka/Palisades	29	-	3.000%	2008	1963	9	-	-
1332	Minidoka/Palisades	108	-	3.000%	2008	1964	9	-	-
1333	Minidoka/Palisades	28	-	3.000%	2008	1964	9	-	-
1334	Minidoka/Palisades	108	-	3.000%	2008	1965	9	-	-
1335	Minidoka/Palisades	29	-	3.000%	2008	1965	9	-	-
1336	Minidoka/Palisades	108	-	3.000%	2008	1966	9	-	-
1337	Minidoka/Palisades	29	-	3.000%	2008	1966	9	-	-
1338	Minidoka/Palisades	108	-	3.000%	2008	1967	9	-	-
1339	Minidoka/Palisades	28	-	3.000%	2008	1967	9	-	-
1340	Minidoka/Palisades	108	-	3.000%	2008	1968	9	-	-
1341	Minidoka/Palisades	29	-	3.000%	2008	1968	9	-	-
1342	Minidoka/Palisades	3	-	3.000%	2008	1969	9	-	-
1343	Minidoka/Palisades	28	-	3.000%	2008	1969	9	-	-
1344	Minidoka/Palisades	108	-	3.000%	2008	1970	9	-	-
1345	Minidoka/Palisades	29	-	3.000%	2008	1970	9	-	-
1346	Minidoka/Palisades	108	-	3.000%	2008	1971	9	-	-
1347	Minidoka/Palisades	29	-	3.000%	2008	1971	9	-	-
1348	Minidoka/Palisades	108	-	3.000%	2008	1972	9	-	-
1349	Minidoka/Palisades	28	-	3.000%	2008	1972	9	-	-
1350	Minidoka/Palisades	108	-	3.000%	2008	1973	9	-	-
1351	Minidoka/Palisades	29	-	3.000%	2008	1973	9	-	-
1352	Minidoka/Palisades	108	-	3.000%	2008	1974	9	-	-
1353	Minidoka/Palisades	28	-	3.000%	2008	1974	9	-	-
1354	Minidoka/Palisades	108	-	3.000%	2008	1975	9	-	-
1355	Minidoka/Palisades	29	-	3.000%	2008	1975	9	-	-
1356	Minidoka/Palisades	108	-	3.000%	2008	1976	9	-	-
1357	Minidoka/Palisades	29	-	3.000%	2008	1976	9	-	-
1358	Minidoka/Palisades	83	-	7.020%	2008	1977	9	-	-
1359	Minidoka/Palisades	28	-	7.020%	2008	1977	9	-	-
1360	Minidoka/Palisades	75	-	7.020%	2008	1978	9	-	-
1361	Minidoka/Palisades	20	-	7.020%	2008	1978	9	-	-
1362	Minidoka/Palisades	75	-	7.020%	2008	1979	9	-	-
1363	Minidoka/Palisades	19	-	7.020%	2008	1979	9	-	-
1364	Minidoka/Palisades	75	-	7.020%	2008	1980	9	-	-
1365	Minidoka/Palisades	20	-	7.020%	2008	1980	9	-	-
1366	Minidoka/Palisades	75	-	7.020%	2008	1981	9	-	-
1367	Minidoka/Palisades	20	-	7.020%	2008	1981	9	-	-
1368	Minidoka/Palisades	75	-	7.020%	2008	1982	9	-	-
1369	Minidoka/Palisades	19	-	7.020%	2008	1982	9	-	-
1370	Minidoka/Palisades	65	-	7.020%	2008	1983	9	-	-

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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
1371	Minidoka/Palisades	20	-	7.020%	2008	1983	9	-	-
1372	Minidoka/Palisades	44	-	10.075%	2008	1984	9	-	-
1373	Minidoka/Palisades	11	-	10.075%	2008	1984	9	-	-
1374	Minidoka/Palisades	21	-	7.020%	2008	1985	9	-	-
1375	Minidoka/Palisades	21	-	7.020%	2008	1986	9	-	-
1376	Minidoka/Palisades	48	-	11.375%	2008	1986	9	-	-
1377	Minidoka/Palisades	16	-	7.020%	2008	1987	9	-	-
1378	Minidoka/Palisades	31	-	8.500%	2008	1988	9	-	-
1379	Minidoka/Palisades	20	-	9.250%	2008	1989	9	-	-
1380	Minidoka/Palisades	33	-	8.875%	2008	1990	9	-	-
1381	Minidoka/Palisades	62	-	8.750%	2008	1991	9	-	-
1382	Minidoka/Palisades	11	-	8.750%	2008	1991	9	-	-
1383	Minidoka/Palisades	32	-	8.750%	2008	1991	9	-	-
1384	Minidoka/Palisades	6	-	8.500%	2008	1992	9	-	-
1385	Minidoka/Palisades	351	-	7.125%	2029	1994	9	-	-
1386	Minidoka/Palisades	6	-	7.330%	2000	1995	9	-	-
1387	Minidoka/Palisades	40	-	7.890%	2010	1995	9	-	-
1388	Minidoka/Palisades	54	-	7.130%	2011	1996	9	-	-
1389	Minidoka/Palisades	66	-	6.950%	2007	1997	9	-	-
1390	Minidoka/Palisades	50,911	50,911	7.150%	2047	1997	9	-	-
1391	Minidoka/Palisades	42	42	5.875%	2051	2001	9	-	-
1392	Rogue River Projects - Green Springs	11,145	11,145	5.875%	2051	2001	9	-	-
1393	The Dalles	15,908	-	2.500%	2007	1957	9	-	-
1394	The Dalles	45,837	-	7.020%	2008	1958	9	-	-
1395	The Dalles	40,415	-	7.060%	2009	1959	9	-	-
1396	The Dalles	39,179	-	7.090%	2010	1960	9	-	-
1397	The Dalles	9,492	-	7.130%	2011	1961	9	-	-
1398	The Dalles	56	-	7.130%	2011	1962	9	-	-
1399	The Dalles	57	-	7.130%	2011	1963	9	-	-
1400	The Dalles	57	-	7.130%	2011	1964	9	-	-
1401	The Dalles	56	-	7.130%	2011	1965	9	-	-
1402	The Dalles	57	-	7.130%	2011	1966	9	-	-
1403	The Dalles	57	-	7.130%	2011	1967	9	-	-
1404	The Dalles	56	-	7.130%	2011	1968	9	-	-
1405	The Dalles	57	-	7.130%	2011	1969	9	-	-
1406	The Dalles	57	-	7.130%	2011	1970	9	-	-
1407	The Dalles	56	-	7.130%	2011	1971	9	-	-
1408	The Dalles	57	-	7.130%	2011	1972	9	-	-
1409	The Dalles	57	-	7.130%	2011	1973	9	-	-
1410	The Dalles	21,983	21,983	7.190%	2023	1973	9	-	-
1411	The Dalles	56	-	7.130%	2011	1974	9	-	-
1412	The Dalles	7,268	7,268	7.170%	2024	1974	9	-	-
1413	The Dalles	57	-	7.130%	2011	1975	9	-	-
1414	The Dalles	57	-	7.130%	2011	1976	9	-	-
1415	The Dalles	56	-	7.130%	2011	1977	9	-	-
1416	The Dalles	57	-	7.130%	2011	1978	9	-	-
1417	The Dalles	57	-	7.130%	2011	1979	9	-	-
1418	The Dalles	56	-	7.130%	2011	1980	9	-	-
1419	The Dalles	57	-	7.130%	2011	1981	9	-	-
1420	The Dalles	57	-	7.130%	2011	1982	9	-	-
1421	The Dalles	56	-	7.130%	2011	1983	9	-	-
1422	The Dalles	961	-	10.750%	2011	1984	9	-	-
1423	The Dalles	95	-	7.130%	2011	1985	9	-	-
1424	The Dalles	280	-	12.375%	2011	1985	9	-	-
1425	The Dalles	95	-	7.130%	2011	1986	9	-	-
1426	The Dalles	4	-	11.375%	2011	1986	9	-	-
1427	The Dalles	1,417	-	7.130%	2011	1987	9	-	-
1428	The Dalles	81	-	8.875%	2011	1987	9	-	-
1429	The Dalles	685	-	8.500%	2011	1988	9	-	-
1430	The Dalles	1	-	8.500%	2011	1988	9	-	-
1431	The Dalles	898	-	9.250%	2011	1989	9	-	-
1432	The Dalles	319	-	8.875%	2011	1990	9	-	-
1433	The Dalles	745	-	8.875%	2011	1990	9	-	-
1434	The Dalles	89	-	8.750%	2011	1991	9	-	-
1435	The Dalles	2,452	-	8.750%	2011	1991	9	-	-
1436	The Dalles	57	-	8.500%	2011	1992	9	-	-
1437	The Dalles	130	-	8.500%	2011	1992	9	-	-

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	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
1438	The Dalles	2,028	-	7.875%	2011	1993	9	-	-
1439	The Dalles	2,929	-	7.875%	2011	1993	9	-	-
1440	The Dalles	1,425	-	7.125%	2029	1994	9	-	-
1441	The Dalles	196	-	7.020%	2008	1996	9	-	-
1442	The Dalles	457	-	7.130%	2011	1996	9	-	-
1443	The Dalles	1,991	1,991	7.150%	2046	1996	9	-	-
1444	The Dalles	2,588	2,588	6.125%	2050	2000	9	-	-
1445	The Dalles	1,226	1,226	5.500%	2052	2002	9	-	-
1446	The Dalles	182	182	5.375%	2054	2004	9	-	-
1447	The Dalles	36,019	36,019	5.125%	2055	2005	9	-	-
1448	The Dalles	2,030	2,030	4.500%	2056	2006	9	-	-
1449	The Dalles	140	140	5.000%	2057	2007	9	-	-
1450	The Dalles	1,652	1,652	4.875%	2058	2008	9	-	-
1451	Yakima Chandler/Kennewick	1,068	-	7.210%	2022	1956	9	-	-
1452	Yakima Chandler/Kennewick	481	-	7.210%	2022	1956	9	-	-
1453	Yakima Chandler/Kennewick	1	-	7.210%	2022	1959	9	-	-
1454	Yakima Chandler/Kennewick	1	-	7.210%	2022	1960	9	-	-
1455	Yakima Chandler/Kennewick	1	-	7.210%	2022	1961	9	-	-
1456	Yakima Chandler/Kennewick	35	-	10.750%	2022	1984	9	-	-
1457	Yakima Chandler/Kennewick	10	-	10.750%	2022	1984	9	-	-
1458	Yakima Chandler/Kennewick	357	-	12.375%	2022	1985	9	-	-
1459	Yakima Chandler/Kennewick	439	-	7.210%	2022	1986	9	-	-
1460	Yakima Chandler/Kennewick	7	-	11.375%	2022	1986	9	-	-
1461	Yakima Chandler/Kennewick	126	-	8.875%	2022	1987	9	-	-
1462	Yakima Chandler/Kennewick	18	-	9.250%	2022	1989	9	-	-
1463	Yakima Chandler/Kennewick	40	-	8.875%	2022	1990	9	-	-
1464	Yakima Chandler/Kennewick	109	-	8.750%	2022	1991	9	-	-
1465	Yakima Chandler/Kennewick	833	833	5.125%	2055	2005	9	-	-
1466	Yakima Chandler/Kennewick	15	15	4.375%	2059	2009	9	-	-
1467	Yakima Roza	1,194	-	7.020%	2008	1958	9	-	-
1468	Yakima Roza	383	-	7.020%	2008	1958	9	-	-
1469	Yakima Roza	17	-	10.750%	2008	1984	9	-	-
1470	Yakima Roza	5	-	10.750%	2008	1984	9	-	-
1471	Yakima Roza	69	-	7.020%	2008	1985	9	-	-
1472	Yakima Roza	5	-	12.375%	2008	1985	9	-	-
1473	Yakima Roza	6	-	7.020%	2008	1986	9	-	-
1474	Yakima Roza	2	-	7.020%	2008	1987	9	-	-
1475	Yakima Roza	9	-	8.875%	2008	1987	9	-	-
1476	Yakima Roza	15	14	5.875%	2051	2001	9	-	-
1477	Bureau Direct	35,000	-	7.500%	2015	1995	5	-	-
1478	Bureau Direct	50,000	-	6.500%	2000	1997	5	-	-
1479	Bureau Direct	25,000	-	6.000%	2008	1998	4	-	-
1480	Bureau Direct	20,000	-	6.400%	2004	1999	9	-	-
1481	Bureau Direct	40,000	-	6.850%	2003	2000	4	-	-
1482	Bureau Direct	20,000	-	6.700%	2005	2000	9	-	-
1483	Bureau Direct	50,000	-	4.750%	2004	2001	6	-	-
1484	Bureau Direct	30,000	-	4.600%	2005	2002	3	-	-
1485	Bureau Direct	20,000	-	3.050%	2006	2002	9	-	-
1486	Bureau Direct	40,000	-	2.400%	2006	2003	4	-	-
1487	Bureau Direct	25,000	-	2.400%	2006	2003	4	-	-
1488	Bureau Direct	30,000	-	2.300%	2006	2003	7	-	-
1489	Bureau Direct	25,000	-	2.500%	2006	2003	9	-	-
1490	Bureau Direct	40,000	-	3.050%	2007	2003	12	-	-
1491	Bureau Direct	25,000	-	2.500%	2007	2004	1	-	-
1492	Bureau Direct	35,000	-	2.950%	2007	2004	4	-	-
1493	Bureau Direct	30,000	-	3.100%	2007	2004	9	-	-
1494	Bureau Direct	25,000	-	3.450%	2007	2004	7	-	-
1495	Bureau Direct	20,000	-	3.500%	2008	2005	11	-	-
1496	Bureau Direct	20,000	-	3.600%	2008	2005	1	-	-
1497	Bureau Direct	30,000	-	3.950%	2008	2005	6	-	-
1498	Bureau Direct	25,000	-	4.250%	2008	2005	9	-	-
1499	Bureau Direct	25,000	-	5.050%	2009	2006	3	-	-
1500	Bureau Direct	45,000	-	5.350%	2009	2006	7	-	-
1501	Bureau Direct	15,000	-	4.950%	2009	2006	9	-	-
1502	Bureau Direct	35,000	-	5.100%	2010	2007	1	-	-
1503	Bureau Direct	30,000	-	4.800%	2010	2007	3	-	-

TABLE 13A: HISTORICAL INVESTMENT
October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
1504	Bureau Direct	30,000	-	5.350%	2010	2007	6	-	-
1505	Bureau Direct	25,000	-	-	2008	2008	5	-	-
1506	Bureau Direct	35,000	35,000	2.850%	2011	2008	1	-	-
1507	Bureau Direct	35,000	35,000	3.358%	2011	2008	5	-	-
1508	Bureau Direct	25,000	25,000	3.358%	2011	2008	5	-	-
1509	Bureau Direct	20,000	20,000	2.850%	2011	2008	1	-	-
1510	Bureau Direct	30,000	30,000	3.974%	2012	2008	6	-	-
1511	Bureau Direct	35,000	35,000	3.913%	2012	2008	7	-	-
1512	Bureau Direct	35,000	35,000	3.444%	2012	2008	9	-	-
1513	Bureau Direct	25,000	25,000	3.699%	2019	2009	9	-	-
1514	Bureau Direct	25,000	25,000	3.999%	2021	2009	1	-	-
1515	Bureau Direct	25,000	25,000	4.391%	2023	2009	4	-	-
1516	Bureau Direct	25,000	25,000	5.192%	2039	2009	6	-	-
1517	Bureau Direct	24,000	24,000	3.719%	2019	2010	10	-	-
1518	Bureau Direct	10,000	10,000	3.714%	2019	2010	1	-	-
1519	Bureau Direct	10,000	10,000	0.165%	2019	2010	2	-	-
1520	Bureau Direct	20,000	20,000	3.842%	2020	2010	10	-	-
1521	Bureau Direct	7,000	7,000	3.637%	2020	2010	11	-	-
1522	Bureau Direct	13,000	13,000	4.194%	2020	2010	12	-	-
1523	Bureau Direct	30,000	30,000	4.083%	2020	2010	3	-	-
1524	Bureau Direct	18,000	18,000	3.973%	2020	2010	4	-	-
1525	Bureau Direct	15,000	15,000	3.574%	2020	2010	5	-	-
1526	Bureau Direct	10,000	10,000	3.243%	2020	2010	6	-	-
1527	Bureau Direct	30,000	30,000	3.243%	2020	2010	6	-	-
1528	Bureau Direct	17,000	17,000	3.118%	2020	2010	7	-	-
1529	Bureau Direct	5,000	5,000	0.165%	2020	2010	8	-	-
1530	Bureau Direct	22,000	22,000	2.883%	2021	2010	9	-	-
1531	Conservation	140,000	-	12.200%	2003	1983	9	-	-
1532	Conservation	150,000	-	13.050%	2004	1984	9	-	-
1533	Conservation	50,000	-	10.150%	1990	1985	9	-	-
1534	Conservation	50,000	-	7.800%	1991	1986	3	-	-
1535	Conservation	50,000	-	8.150%	1996	1986	3	-	-
1536	Conservation	50,000	-	8.350%	1992	1987	6	-	-
1537	Conservation	75,000	-	9.300%	2007	1987	4	-	-
1538	Conservation	90,000	-	9.900%	2008	1988	4	-	-
1539	Conservation	66,000	-	8.600%	1995	1989	9	-	-
1540	Conservation	66,000	-	8.650%	2002	1989	9	-	-
1541	Conservation	40,000	-	8.550%	2009	1989	7	-	-
1542	Conservation	80,200	-	5.800%	1997	1992	7	-	-
1543	Conservation	100,000	-	7.140%	2007	1992	7	-	-
1544	Conservation	40,000	-	6.750%	2013	1993	8	-	-
1545	Conservation	50,000	-	7.400%	2013	1993	2	-	-
1546	Conservation	50,000	-	8.050%	2013	1993	10	-	-
1547	Conservation	50,000	-	7.100%	1998	1994	5	-	-
1548	Conservation	50,000	-	6.750%	2014	1994	1	-	-
1549	Conservation	85,000	-	7.500%	2015	1995	5	-	-
1550	Conservation	30,000	-	6.700%	2011	1996	1	-	-
1551	Conservation	40,000	-	7.200%	2017	1997	11	-	-
1552	Conservation	104,300	-	5.300%	2008	1998	9	-	-
1553	Conservation	37,700	-	6.000%	2009	1998	5	-	-
1554	Conservation	52,800	52,800	5.600%	2013	1998	9	-	-
1555	Conservation	32,000	-	6.950%	2003	2000	7	-	-
1556	Conservation	40,000	-	3.750%	2005	2002	6	-	-
1557	Conservation	30,000	-	2.950%	2008	2004	1	-	-
1558	Conservation	20,000	-	5.050%	2009	2006	3	-	-
1559	Conservation	20,000	-	5.350%	2010	2007	6	-	-
1560	Conservation	10,000	10,000	3.701%	2013	2008	9	-	-
1561	Conservation	15,000	15,000	2.746%	2014	2009	9	-	-
1562	Conservation	15,000	15,000	2.609%	2015	2010	1	-	-
1563	Conservation	20,000	20,000	2.677%	2015	2010	4	-	-
1564	Conservation	15,000	15,000	1.619%	2015	2010	8	-	-
1565	Conservation	10,000	10,000	1.534%	2015	2010	9	-	-
1566	Construction	38	-	8.350%	2033	1993	10	-	-
1567	Construction	67	-	7.700%	2025	1995	7	-	-

TABLE 13B: PROJECTED INVESTMENT
October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

	A	B	C	D	E	F	G
	Project	Initial Principal	Current Principal	Interest Rate	Due Date	In Service Date	Month
1	Columbia River Fish Mitigation	205,834	205,834	3.750%	2061	2011	9
2	Columbia River Fish Mitigation	103,279	103,279	4.510%	2062	2012	9
3	Columbia River Fish Mitigation	116,473	116,473	4.980%	2063	2013	9
4	Bureau Direct	20,000	20,000	4.210%	2035	2011	10
5	Bureau Direct	30,000	30,000	5.430%	2036	2011	6
6	Bureau Direct	35,000	35,000	5.530%	2037	2011	9
7	Bureau Direct	30,000	30,000	5.640%	2038	2011	8
8	Bureau Direct	35,000	35,000	5.040%	2039	2011	1
9	Bureau Direct	50,000	50,000	5.000%	2040	2011	2
10	Bureau Direct	211,051	211,051	6.010%	2057	2012	3
11	Bureau Direct	225,694	225,694	6.280%	2058	2013	3
12	Conservation	35,000	35,000	3.930%	2023	2011	4
13	Conservation	40,000	40,000	4.050%	2023	2011	1
14	Conservation	15,000	15,000	4.020%	2023	2011	9
15	Conservation	104,000	104,000	4.660%	2024	2012	3
16	Conservation	111,000	111,000	5.280%	2025	2013	3
17	Construction	14,000	14,000	2.600%	2016	2011	9
18	Construction	21,399	21,399	3.890%	2018	2012	3
19	Construction	20,326	20,326	4.810%	2019	2013	3
20	Fish and Wildlife	50,000	50,000	4.440%	2026	2011	1
21	Fish and Wildlife	25,000	25,000	4.340%	2026	2011	8
22	Fish and Wildlife	15,000	15,000	4.400%	2026	2011	2
23	Fish and Wildlife	50,000	50,000	4.880%	2027	2012	3
24	Fish and Wildlife	50,000	50,000	5.450%	2028	2013	3
25	Totals:	1,613,056	1,613,056				

14. REPAYMENT STUDY RESULTS, FY 2013 STUDY

TABLE 14A: Interest Calculation Summary
October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

	A	B	C	D	E	F	G	H
	Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total
1	2011	Albeni Falls	Historical	3,090	6.744%	208	-	208
2	2011	Boise	Historical	4,425	6.657%	295	-	295
3	2011	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
4	2011	Bonneville Dam	Historical	139,071	5.638%	7,840	-	7,840
5	2011	Chief Joseph	Historical	238,215	6.818%	16,242	-	16,242
6	2011	Columbia Basin	Historical	93,409	5.806%	5,423	-	5,423
7	2011	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
8	2011	Columbia River Fish Mitigation	Historical	915,121	4.892%	44,763	-	44,763
9	2011	Cougar	Historical	52,463	5.188%	2,722	-	2,722
10	2011	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
11	2011	Dworshak	Historical	127,604	7.095%	9,053	-	9,053
12	2011	Green Peter/Foster	Historical	227	6.011%	14	-	14
13	2011	Hills Creek	Historical	7,976	6.805%	543	-	543
14	2011	Hungry Horse Dam	Historical	12,766	6.373%	814	-	814
15	2011	Ice Harbor	Historical	35,286	6.388%	2,254	-	2,254
16	2011	John Day	Historical	32,793	6.312%	2,070	-	2,070
17	2011	Libby	Historical	235,541	7.106%	16,738	-	16,738
18	2011	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
19	2011	Lookout Dam	Historical	13,232	5.516%	730	-	730
20	2011	Lost Creek	Historical	14,096	7.136%	1,006	-	1,006
21	2011	Lower Granite	Historical	177,491	7.009%	12,441	-	12,441
22	2011	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
23	2011	Lower Snake Fish and Wildlife	Historical	232,396	7.109%	16,521	-	16,521
24	2011	McNary	Historical	13,142	5.265%	692	-	692
25	2011	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
26	2011	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
27	2011	The Dalles	Historical	75,078	6.000%	4,505	-	4,505
28	2011	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
29	2011	Yakima Roza	Historical	14	5.892%	1	-	1
30	2011	Bureau Direct	Historical	546,000	3.565%	19,464	-	19,464
31	2011	Bureau Direct	New	165,000	2.397%	3,954	-	3,954
32	2011	Conservation	Historical	137,800	3.673%	5,062	-	5,062
33	2011	Conservation	New	75,000	2.204%	1,653	-	1,653
34	2011	Construction	Historical	47,450	2.525%	1,198	-	1,198
35	2011	Fish and Wildlife	Historical	166,000	4.691%	7,787	-	7,787
36	2011	Fish and Wildlife	New	90,000	2.173%	1,955	-	1,955
37	2011	Float	Historical	-	-	(4,373)	-	(4,373)
38	FY 2011	Subtotal:		4,654,214		252,803	-	252,803
39	2012	Albeni Falls	Historical	3,090	6.744%	208	-	208
40	2012	Boise	Historical	4,425	6.657%	295	-	295
41	2012	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
42	2012	Bonneville Dam	Historical	139,071	5.638%	7,840	-	7,840
43	2012	Chief Joseph	Historical	238,215	6.818%	16,242	-	16,242
44	2012	Columbia Basin	Historical	93,409	5.806%	5,423	-	5,423
45	2012	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
46	2012	Columbia River Fish Mitigation	Historical	1,120,955	4.682%	52,482	-	52,482
47	2012	Cougar	Historical	52,463	5.188%	2,722	-	2,722
48	2012	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
49	2012	Dworshak	Historical	121,052	7.090%	8,582	-	8,582
50	2012	Green Peter/Foster	Historical	227	6.011%	14	-	14
51	2012	Hills Creek	Historical	7,976	6.805%	543	-	543
52	2012	Hungry Horse Dam	Historical	12,766	6.373%	814	-	814
53	2012	Ice Harbor	Historical	35,286	6.388%	2,254	-	2,254
54	2012	John Day	Historical	23,956	5.981%	1,433	-	1,433
55	2012	Libby	Historical	235,541	7.106%	16,738	-	16,738
56	2012	Little Goose	Historical	63,762	6.911%	4,406	-	4,406
57	2012	Lookout Dam	Historical	13,232	5.516%	730	-	730
58	2012	Lost Creek	Historical	14,096	7.136%	1,006	-	1,006
59	2012	Lower Granite	Historical	177,491	7.009%	12,441	-	12,441
60	2012	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
61	2012	Lower Snake Fish and Wildlife	Historical	232,396	7.109%	16,521	-	16,521
62	2012	McNary	Historical	13,142	5.265%	692	-	692
63	2012	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
64	2012	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
65	2012	The Dalles	Historical	63,332	5.779%	3,660	-	3,660
66	2012	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43

TABLE 14A: Interest Calculation Summary
October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

	A	B	C	D	E	F	G	H
	Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total
67	2012	Yakima Roza	Historical	14	5.892%	1	-	1
68	2012	Bureau Direct	Historical	631,000	4.159%	26,244	-	26,244
69	2012	Bureau Direct	New	211,051	3.005%	6,342	-	6,342
70	2012	Conservation	Historical	227,800	3.802%	8,660	-	8,660
71	2012	Conservation	New	104,000	2.330%	2,423	-	2,423
72	2012	Construction	Historical	61,450	2.542%	1,562	-	1,562
73	2012	Construction	New	21,399	1.945%	416	-	416
74	2012	Fish and Wildlife	Historical	236,000	4.581%	10,812	-	10,812
75	2012	Fish and Wildlife	New	50,000	2.440%	1,220	-	1,220
76	2012	Float	Historical	-	-	(7,755)	-	(7,755)
77	FY 2012	Subtotal:		5,148,335		271,791	-	271,791
78	2013	Albeni Falls	Historical	3,090	6.744%	208	-	208
79	2013	Boise	Historical	4,425	6.657%	295	-	295
80	2013	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
81	2013	Bonneville Dam	Historical	139,071	5.638%	7,840	-	7,840
82	2013	Chief Joseph	Historical	238,215	6.818%	16,242	-	16,242
83	2013	Columbia Basin	Historical	93,409	5.806%	5,423	-	5,423
84	2013	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
85	2013	Columbia River Fish Mitigation	Historical	1,224,234	4.667%	57,140	-	57,140
86	2013	Cougar	Historical	52,463	5.188%	2,722	-	2,722
87	2013	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
88	2013	Dworshak	Historical	83,553	7.045%	5,886	-	5,886
89	2013	Green Peter/Foster	Historical	227	6.011%	14	-	14
90	2013	Hills Creek	Historical	2,713	6.118%	166	-	166
91	2013	Hungry Horse Dam	Historical	12,766	6.373%	814	-	814
92	2013	Ice Harbor	Historical	35,285	6.388%	2,254	-	2,254
93	2013	John Day	Historical	23,956	5.981%	1,433	-	1,433
94	2013	Libby	Historical	235,541	7.106%	16,738	-	16,738
95	2013	Little Goose	Historical	63,762	6.911%	4,406	-	4,406
96	2013	Lookout Dam	Historical	13,232	5.516%	730	-	730
97	2013	Lost Creek	Historical	14,096	7.136%	1,006	-	1,006
98	2013	Lower Granite	Historical	177,491	7.009%	12,441	-	12,441
99	2013	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
100	2013	Lower Snake Fish and Wildlife	Historical	232,396	7.109%	16,521	-	16,521
101	2013	McNary	Historical	13,142	5.265%	692	-	692
102	2013	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
103	2013	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
104	2013	The Dalles	Historical	53,095	5.507%	2,924	-	2,924
105	2013	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
106	2013	Yakima Roza	Historical	14	5.892%	1	-	1
107	2013	Bureau Direct	Historical	742,051	4.738%	35,162	-	35,162
108	2013	Bureau Direct	New	225,694	3.140%	7,087	-	7,087
109	2013	Conservation	Historical	331,800	4.071%	13,507	-	13,507
110	2013	Conservation	New	111,000	2.640%	2,930	-	2,930
111	2013	Construction	Historical	62,849	2.753%	1,730	-	1,730
112	2013	Construction	New	20,326	2.405%	489	-	489
113	2013	Fish and Wildlife	Historical	266,000	4.723%	12,563	-	12,563
114	2013	Fish and Wildlife	New	50,000	2.725%	1,363	-	1,363
115	2013	Float	Historical	-	-	(9,058)	-	(9,058)
116	FY 2013	Subtotal:		5,465,634		288,486	-	288,486
117	2014	Albeni Falls	Historical	3,090	6.744%	208	-	208
118	2014	Boise	Historical	4,425	6.657%	295	-	295
119	2014	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
120	2014	Bonneville Dam	Historical	139,071	5.638%	7,840	-	7,840
121	2014	Chief Joseph	Historical	238,215	6.818%	16,242	-	16,242
122	2014	Columbia Basin	Historical	93,409	5.806%	5,423	-	5,423
123	2014	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
124	2014	Columbia River Fish Mitigation	Historical	1,340,707	4.695%	62,940	-	62,940
125	2014	Cougar	Historical	52,463	5.188%	2,722	-	2,722
126	2014	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
127	2014	Dworshak	Historical	83,553	7.045%	5,886	-	5,886
128	2014	Green Peter/Foster	Historical	227	6.011%	14	-	14
129	2014	Hills Creek	Historical	2,713	6.118%	166	-	166
130	2014	Hungry Horse Dam	Historical	12,766	6.373%	814	-	814
131	2014	Ice Harbor	Historical	35,285	6.388%	2,254	-	2,254
132	2014	John Day	Historical	23,956	5.981%	1,433	-	1,433

TABLE 14A: Interest Calculation Summary
October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

A	B	C	D	E	F	G	H	
Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total	
133	2014	Libby	Historical	235,541	7.106%	16,738	-	16,738
134	2014	Little Goose	Historical	63,762	6.911%	4,406	-	4,406
135	2014	Lookout Dam	Historical	13,232	5.516%	730	-	730
136	2014	Lost Creek	Historical	14,096	7.136%	1,006	-	1,006
137	2014	Lower Granite	Historical	177,491	7.009%	12,441	-	12,441
138	2014	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
139	2014	Lower Snake Fish and Wildlife	Historical	232,396	7.109%	16,521	-	16,521
140	2014	McNary	Historical	13,142	5.265%	692	-	692
141	2014	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
142	2014	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
143	2014	The Dalles	Historical	53,095	5.507%	2,924	-	2,924
144	2014	Yakima Chandler/Kennewick	Historical	848	5.111%	43	-	43
145	2014	Yakima Roza	Historical	14	5.892%	1	-	1
146	2014	Bureau Direct	Historical	967,745	5.098%	49,335	-	49,335
147	2014	Conservation	Historical	380,000	4.221%	16,041	-	16,041
148	2014	Construction	Historical	83,175	3.256%	2,708	-	2,708
149	2014	Fish and Wildlife	Historical	256,000	4.542%	11,628	-	11,628
150	2014	Float	Historical	-	-	(7,946)	-	(7,946)
151	FY 2014	Subtotal:		5,459,307		300,280	-	300,280
152	2015	Albeni Falls	Historical	174,570	6.288%	10,977	-	10,977
153	2015	Boise	Historical	4,425	6.657%	295	-	295
154	2015	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
155	2015	Bonneville Dam	Historical	139,071	5.638%	7,840	-	7,840
156	2015	Chief Joseph	Historical	238,215	6.818%	16,242	-	16,242
157	2015	Columbia Basin	Historical	93,409	5.806%	5,423	-	5,423
158	2015	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
159	2015	Columbia River Fish Mitigation	Historical	1,340,707	4.695%	62,940	-	62,940
160	2015	Cougar	Historical	52,463	5.188%	2,722	-	2,722
161	2015	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
162	2015	Dworshak	Historical	40,747	6.892%	2,808	-	2,808
163	2015	Green Peter/Foster	Historical	227	6.011%	14	-	14
164	2015	Hills Creek	Historical	2,713	6.118%	166	-	166
165	2015	Hungry Horse Dam	Historical	12,766	6.373%	814	-	814
166	2015	Ice Harbor	Historical	35,285	6.388%	2,254	-	2,254
167	2015	John Day	Historical	23,956	5.981%	1,433	-	1,433
168	2015	Libby	Historical	235,541	7.106%	16,738	-	16,738
169	2015	Little Goose	Historical	63,762	6.911%	4,406	-	4,406
170	2015	Lookout Dam	Historical	13,232	5.516%	730	-	730
171	2015	Lost Creek	Historical	14,096	7.136%	1,006	-	1,006
172	2015	Lower Granite	Historical	177,491	7.009%	12,441	-	12,441
173	2015	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
174	2015	Lower Snake Fish and Wildlife	Historical	232,396	7.109%	16,521	-	16,521
175	2015	McNary	Historical	13,142	5.265%	692	-	692
176	2015	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
177	2015	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
178	2015	The Dalles	Historical	53,095	5.507%	2,924	-	2,924
179	2015	Yakima Chandler/Kennewick	Historical	848	5.111%	43	-	43
180	2015	Yakima Roza	Historical	14	5.892%	1	-	1
181	2015	Bureau Direct	Historical	967,745	5.098%	49,335	-	49,335
182	2015	Conservation	Historical	365,000	4.282%	15,629	-	15,629
183	2015	Construction	Historical	68,225	3.323%	2,267	-	2,267
184	2015	Fish and Wildlife	Historical	256,000	4.542%	11,628	-	11,628
185	2015	Float	Historical	-	-	(8,863)	-	(8,863)
186	FY 2015	Subtotal:		5,558,031		306,203	-	306,203
187	2016	Albeni Falls	Historical	345,238	6.284%	21,695	-	21,695
188	2016	Boise	Historical	4,425	6.657%	295	-	295
189	2016	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
190	2016	Bonneville Dam	Historical	139,071	5.638%	7,840	-	7,840
191	2016	Chief Joseph	Historical	238,215	6.818%	16,242	-	16,242
192	2016	Columbia Basin	Historical	93,409	5.806%	5,423	-	5,423
193	2016	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
194	2016	Columbia River Fish Mitigation	Historical	1,340,707	4.695%	62,940	-	62,940
195	2016	Cougar	Historical	52,463	5.188%	2,722	-	2,722
196	2016	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
197	2016	Dworshak	Historical	14,111	6.330%	893	-	893
198	2016	Green Peter/Foster	Historical	227	6.011%	14	-	14

TABLE 14A: Interest Calculation Summary
October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

	A	B	C	D	E	F	G	H
	Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total
199	2016	Hills Creek	Historical	2,713	6.118%	166	-	166
200	2016	Hungry Horse Dam	Historical	12,766	6.373%	814	-	814
201	2016	Ice Harbor	Historical	35,285	6.388%	2,254	-	2,254
202	2016	John Day	Historical	23,956	5.981%	1,433	-	1,433
203	2016	Libby	Historical	235,541	7.106%	16,738	-	16,738
204	2016	Little Goose	Historical	63,762	6.911%	4,406	-	4,406
205	2016	Lookout Dam	Historical	13,232	5.516%	730	-	730
206	2016	Lost Creek	Historical	14,096	7.136%	1,006	-	1,006
207	2016	Lower Granite	Historical	177,491	7.009%	12,441	-	12,441
208	2016	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
209	2016	Lower Snake Fish and Wildlife	Historical	232,396	7.109%	16,521	-	16,521
210	2016	McNary	Historical	13,142	5.265%	692	-	692
211	2016	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
212	2016	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
213	2016	The Dalles	Historical	47,394	5.307%	2,515	-	2,515
214	2016	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
215	2016	Yakima Roza	Historical	14	5.892%	1	-	1
216	2016	Bureau Direct	Historical	967,745	5.098%	49,335	-	49,335
217	2016	Conservation	Historical	305,000	4.690%	14,306	-	14,306
218	2016	Construction	Historical	55,725	3.901%	2,174	-	2,174
219	2016	Fish and Wildlife	Historical	256,000	4.542%	11,628	-	11,628
220	2016	Float	Historical	-	-	(8,554)	-	(8,554)
221	FY 2016	Subtotal:		5,623,862		313,489	-	313,489
222	2017	Albeni Falls	Historical	511,104	6.283%	32,112	-	32,112
223	2017	Boise	Historical	4,425	6.657%	295	-	295
224	2017	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
225	2017	Bonneville Dam	Historical	139,071	5.638%	7,840	-	7,840
226	2017	Chief Joseph	Historical	238,215	6.818%	16,242	-	16,242
227	2017	Columbia Basin	Historical	93,409	5.806%	5,423	-	5,423
228	2017	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
229	2017	Columbia River Fish Mitigation	Historical	1,340,707	4.695%	62,940	-	62,940
230	2017	Cougar	Historical	52,463	5.188%	2,722	-	2,722
231	2017	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
232	2017	Dworshak	Historical	14,111	6.330%	893	-	893
233	2017	Green Peter/Foster	Historical	227	6.011%	14	-	14
234	2017	Hills Creek	Historical	2,713	6.118%	166	-	166
235	2017	Hungry Horse Dam	Historical	12,766	6.373%	814	-	814
236	2017	Ice Harbor	Historical	35,285	6.388%	2,254	-	2,254
237	2017	John Day	Historical	23,956	5.981%	1,433	-	1,433
238	2017	Libby	Historical	235,541	7.106%	16,738	-	16,738
239	2017	Little Goose	Historical	63,762	6.911%	4,406	-	4,406
240	2017	Lookout Dam	Historical	13,232	5.516%	730	-	730
241	2017	Lost Creek	Historical	14,096	7.136%	1,006	-	1,006
242	2017	Lower Granite	Historical	109,151	6.915%	7,547	-	7,547
243	2017	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
244	2017	Lower Snake Fish and Wildlife	Historical	232,396	7.109%	16,521	-	16,521
245	2017	McNary	Historical	13,142	5.265%	692	-	692
246	2017	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
247	2017	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
248	2017	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
249	2017	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
250	2017	Yakima Roza	Historical	14	5.892%	1	-	1
251	2017	Bureau Direct	Historical	967,745	5.098%	49,335	-	49,335
252	2017	Conservation	Historical	305,000	4.690%	14,306	-	14,306
253	2017	Construction	Historical	41,725	4.338%	1,810	-	1,810
254	2017	Fish and Wildlife	Historical	256,000	4.542%	11,628	-	11,628
255	2017	Float	Historical	-	-	(8,876)	-	(8,876)
256	FY 2017	Subtotal:		5,705,821		318,214	-	318,214
257	2018	Albeni Falls	Historical	678,682	6.282%	42,636	-	42,636
258	2018	Boise	Historical	4,425	6.657%	295	-	295

TABLE 14A: Interest Calculation Summary
October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

	A	B	C	D	E	F	G	H
	Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total
259	2018	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
260	2018	Bonneville Dam	Historical	139,071	5.638%	7,840	-	7,840
261	2018	Chief Joseph	Historical	238,215	6.818%	16,242	-	16,242
262	2018	Columbia Basin	Historical	93,409	5.806%	5,423	-	5,423
263	2018	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
264	2018	Columbia River Fish Mitigation	Historical	1,340,707	4.695%	62,940	-	62,940
265	2018	Cougar	Historical	52,463	5.188%	2,722	-	2,722
266	2018	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
267	2018	Dworshak	Historical	14,111	6.330%	893	-	893
268	2018	Green Peter/Foster	Historical	227	6.011%	14	-	14
269	2018	Hills Creek	Historical	2,713	6.118%	166	-	166
270	2018	Hungry Horse Dam	Historical	12,766	6.373%	814	-	814
271	2018	Ice Harbor	Historical	35,285	6.388%	2,254	-	2,254
272	2018	John Day	Historical	23,956	5.981%	1,433	-	1,433
273	2018	Libby	Historical	197,077	7.096%	13,984	-	13,984
274	2018	Little Goose	Historical	63,762	6.911%	4,406	-	4,406
275	2018	Lookout Dam	Historical	13,232	5.516%	730	-	730
276	2018	Lost Creek	Historical	14,096	7.136%	1,006	-	1,006
277	2018	Lower Granite	Historical	55,119	6.674%	3,679	-	3,679
278	2018	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
279	2018	Lower Snake Fish and Wildlife	Historical	232,396	7.109%	16,521	-	16,521
280	2018	McNary	Historical	13,142	5.265%	692	-	692
281	2018	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
282	2018	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
283	2018	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
284	2018	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
285	2018	Yakima Roza	Historical	14	5.892%	1	-	1
286	2018	Bureau Direct	Historical	967,745	5.098%	49,335	-	49,335
287	2018	Conservation	Historical	305,000	4.690%	14,306	-	14,306
288	2018	Construction	Historical	41,725	4.338%	1,810	-	1,810
289	2018	Fish and Wildlife	Historical	256,000	4.542%	11,628	-	11,628
290	2018	Float	Historical	-	-	(10,078)	-	(10,078)
291	FY 2018	Subtotal:		5,780,903		320,913	-	320,913
292	2019	Albeni Falls	Historical	837,850	6.282%	52,631	-	52,631
293	2019	Boise	Historical	4,425	6.657%	295	-	295
294	2019	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
295	2019	Bonneville Dam	Historical	139,071	5.638%	7,840	-	7,840
296	2019	Chief Joseph	Historical	238,215	6.818%	16,242	-	16,242
297	2019	Columbia Basin	Historical	93,337	5.805%	5,418	-	5,418
298	2019	Columbia Basin 3rd Powerhouse	Historical	411,264	7.150%	29,405	-	29,405
299	2019	Columbia River Fish Mitigation	Historical	1,340,707	4.695%	62,940	-	62,940
300	2019	Cougar	Historical	52,463	5.188%	2,722	-	2,722
301	2019	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
302	2019	Dworshak	Historical	14,111	6.330%	893	-	893
303	2019	Green Peter/Foster	Historical	227	6.011%	14	-	14
304	2019	Hills Creek	Historical	2,713	6.118%	166	-	166
305	2019	Hungry Horse Dam	Historical	12,766	6.373%	814	-	814
306	2019	Ice Harbor	Historical	35,264	6.388%	2,253	-	2,253
307	2019	John Day	Historical	23,956	5.981%	1,433	-	1,433
308	2019	Libby	Historical	122,860	7.062%	8,677	-	8,677
309	2019	Little Goose	Historical	63,762	6.911%	4,406	-	4,406
310	2019	Lookout Dam	Historical	13,232	5.516%	730	-	730
311	2019	Lost Creek	Historical	14,096	7.136%	1,006	-	1,006
312	2019	Lower Granite	Historical	55,119	6.674%	3,679	-	3,679
313	2019	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
314	2019	Lower Snake Fish and Wildlife	Historical	232,396	7.109%	16,521	-	16,521
315	2019	McNary	Historical	12,791	5.213%	667	-	667
316	2019	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
317	2019	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
318	2019	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
319	2019	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
320	2019	Yakima Roza	Historical	14	5.892%	1	-	1
321	2019	Bureau Direct	Historical	967,745	5.098%	49,335	-	49,335
322	2019	Conservation	Historical	305,000	4.690%	14,306	-	14,306
323	2019	Construction	Historical	20,326	4.810%	978	-	978
324	2019	Fish and Wildlife	Historical	256,000	4.542%	11,628	-	11,628
325	2019	Float	Historical	-	-	(14,519)	-	(14,519)
326	FY 2019	Subtotal:		5,799,886		317,138	-	317,138
327	2020	Albeni Falls	Historical	996,947	6.281%	62,623	-	62,623

TABLE 14A: Interest Calculation Summary
October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

	A	B	C	D	E	F	G	H
	Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total
328	2020	Boise	Historical	4,425	6.657%	295	-	295
329	2020	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
330	2020	Bonneville Dam	Historical	139,071	5.638%	7,840	-	7,840
331	2020	Chief Joseph	Historical	238,215	6.818%	16,242	-	16,242
332	2020	Columbia Basin	Historical	93,337	5.805%	5,418	-	5,418
333	2020	Columbia Basin 3rd Powerhouse	Historical	351,298	7.150%	25,118	-	25,118
334	2020	Columbia River Fish Mitigation	Historical	1,340,707	4.695%	62,940	-	62,940
335	2020	Cougar	Historical	52,463	5.188%	2,722	-	2,722
336	2020	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
337	2020	Dworshak	Historical	14,111	6.330%	893	-	893
338	2020	Green Peter/Foster	Historical	227	6.011%	14	-	14
339	2020	Hills Creek	Historical	2,713	6.118%	166	-	166
340	2020	Hungry Horse Dam	Historical	12,766	6.373%	814	-	814
341	2020	Ice Harbor	Historical	14,564	5.304%	773	-	773
342	2020	John Day	Historical	23,956	5.981%	1,433	-	1,433
343	2020	Libby	Historical	22,912	6.680%	1,530	-	1,530
344	2020	Little Goose	Historical	63,762	6.911%	4,406	-	4,406
345	2020	Lookout Dam	Historical	13,232	5.516%	730	-	730
346	2020	Lost Creek	Historical	303	6.503%	20	-	20
347	2020	Lower Granite	Historical	55,119	6.674%	3,679	-	3,679
348	2020	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
349	2020	Lower Snake Fish and Wildlife	Historical	232,396	7.109%	16,521	-	16,521
350	2020	McNary	Historical	12,791	5.213%	667	-	667
351	2020	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
352	2020	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
353	2020	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
354	2020	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
355	2020	Yakima Roza	Historical	14	5.892%	1	-	1
356	2020	Bureau Direct	Historical	898,745	5.244%	47,130	-	47,130
357	2020	Conservation	Historical	305,000	4.690%	14,306	-	14,306
358	2020	Fish and Wildlife	Historical	210,000	4.782%	10,041	-	10,041
359	2020	Float	Historical	-	-	(15,359)	-	(15,359)
360	FY 2020	Subtotal:		5,629,249		307,618	-	307,618
361	2021	Albeni Falls	Historical	1,156,020	6.281%	72,612	-	72,612
362	2021	Boise	Historical	4,425	6.657%	295	-	295
363	2021	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
364	2021	Bonneville Dam	Historical	123,401	5.446%	6,720	-	6,720
365	2021	Chief Joseph	Historical	207,703	6.769%	14,060	-	14,060
366	2021	Columbia Basin	Historical	93,337	5.805%	5,418	-	5,418
367	2021	Columbia Basin 3rd Powerhouse	Historical	280,593	7.150%	20,062	-	20,062
368	2021	Columbia River Fish Mitigation	Historical	1,340,707	4.695%	62,940	-	62,940
369	2021	Cougar	Historical	52,463	5.188%	2,722	-	2,722
370	2021	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
371	2021	Dworshak	Historical	14,111	6.330%	893	-	893
372	2021	Green Peter/Foster	Historical	227	6.011%	14	-	14
373	2021	Hills Creek	Historical	2,713	6.118%	166	-	166
374	2021	Hungry Horse Dam	Historical	12,766	6.373%	814	-	814
375	2021	Ice Harbor	Historical	14,564	5.304%	773	-	773
376	2021	John Day	Historical	23,956	5.981%	1,433	-	1,433
377	2021	Libby	Historical	22,912	6.680%	1,530	-	1,530
378	2021	Little Goose	Historical	14,165	6.073%	860	-	860
379	2021	Lookout Dam	Historical	13,232	5.516%	730	-	730
380	2021	Lost Creek	Historical	303	6.503%	20	-	20
381	2021	Lower Granite	Historical	14,508	5.342%	775	-	775
382	2021	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
383	2021	Lower Snake Fish and Wildlife	Historical	232,396	7.109%	16,521	-	16,521
384	2021	McNary	Historical	12,791	5.213%	667	-	667
385	2021	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
386	2021	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
387	2021	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
388	2021	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
389	2021	Yakima Roza	Historical	14	5.892%	1	-	1
390	2021	Bureau Direct	Historical	733,745	5.622%	41,250	-	41,250
391	2021	Conservation	Historical	305,000	4.690%	14,306	-	14,306
392	2021	Fish and Wildlife	Historical	210,000	4.782%	10,041	-	10,041
393	2021	Float	Historical	-	-	(15,661)	-	(15,661)
394	FY 2021	Subtotal:		5,416,227		296,619	-	296,619
395	2022	Albeni Falls	Historical	1,315,093	6.281%	82,602	-	82,602
396	2022	Boise	Historical	4,425	6.657%	295	-	295
397	2022	Bonneville 2nd Powerhouse	Historical	356,113	7.150%	25,462	-	25,462

TABLE 14A: Interest Calculation Summary
October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

	A	B	C	D	E	F	G	H
	Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total
398	2022	Bonneville Dam	Historical	123,379	5.445%	6,718	-	6,718
399	2022	Chief Joseph	Historical	37,703	5.054%	1,905	-	1,905
400	2022	Columbia Basin	Historical	92,977	5.799%	5,392	-	5,392
401	2022	Columbia Basin 3rd Powerhouse	Historical	161,090	7.150%	11,518	-	11,518
402	2022	Columbia River Fish Mitigation	Historical	1,340,707	4.695%	62,940	-	62,940
403	2022	Cougar	Historical	52,463	5.188%	2,722	-	2,722
404	2022	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
405	2022	Dworshak	Historical	13,684	6.304%	863	-	863
406	2022	Green Peter/Foster	Historical	227	6.011%	14	-	14
407	2022	Hills Creek	Historical	2,713	6.118%	166	-	166
408	2022	Hungry Horse Dam	Historical	11,035	6.251%	690	-	690
409	2022	Ice Harbor	Historical	14,486	5.294%	767	-	767
410	2022	John Day	Historical	23,956	5.981%	1,433	-	1,433
411	2022	Libby	Historical	22,610	6.674%	1,509	-	1,509
412	2022	Little Goose	Historical	14,165	6.073%	860	-	860
413	2022	Lookout Dam	Historical	13,232	5.516%	730	-	730
414	2022	Lost Creek	Historical	272	6.428%	18	-	18
415	2022	Lower Granite	Historical	12,751	5.093%	649	-	649
416	2022	Lower Monument	Historical	12,089	5.604%	677	-	677
417	2022	Lower Snake Fish and Wildlife	Historical	232,396	7.109%	16,521	-	16,521
418	2022	McNary	Historical	12,791	5.213%	667	-	667
419	2022	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
420	2022	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
421	2022	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
422	2022	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
423	2022	Yakima Roza	Historical	14	5.892%	1	-	1
424	2022	Bureau Direct	Historical	686,745	5.769%	39,616	-	39,616
425	2022	Conservation	Historical	305,000	4.690%	14,306	-	14,306
426	2022	Fish and Wildlife	Historical	210,000	4.782%	10,041	-	10,041
427	2022	Float	Historical	-	-	(15,450)	-	(15,450)
428	FY 2022	Subtotal:		5,182,482		280,460	-	280,460
429	2023	Albeni Falls	Historical	1,474,166	6.281%	92,592	-	92,592
430	2023	Boise	Historical	4,425	6.657%	295	-	295
431	2023	Bonneville 2nd Powerhouse	Historical	72,970	7.150%	5,217	-	5,217
432	2023	Bonneville Dam	Historical	122,861	5.438%	6,681	-	6,681
433	2023	Chief Joseph	Historical	37,537	5.045%	1,894	-	1,894
434	2023	Columbia Basin	Historical	92,977	5.799%	5,392	-	5,392
435	2023	Columbia Basin 3rd Powerhouse	Historical	45,633	7.150%	3,263	-	3,263
436	2023	Columbia River Fish Mitigation	Historical	1,340,707	4.695%	62,940	-	62,940
437	2023	Cougar	Historical	52,463	5.188%	2,722	-	2,722
438	2023	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
439	2023	Dworshak	Historical	13,684	6.304%	863	-	863
440	2023	Green Peter/Foster	Historical	227	6.011%	14	-	14
441	2023	Hills Creek	Historical	2,713	6.118%	166	-	166
442	2023	Hungry Horse Dam	Historical	11,035	6.251%	690	-	690
443	2023	Ice Harbor	Historical	14,486	5.294%	767	-	767
444	2023	John Day	Historical	23,956	5.981%	1,433	-	1,433
445	2023	Libby	Historical	22,610	6.674%	1,509	-	1,509
446	2023	Little Goose	Historical	14,165	6.073%	860	-	860
447	2023	Lookout Dam	Historical	13,232	5.516%	730	-	730
448	2023	Lost Creek	Historical	272	6.428%	18	-	18
449	2023	Lower Granite	Historical	12,751	5.093%	649	-	649
450	2023	Lower Monument	Historical	12,089	5.604%	677	-	677
451	2023	Lower Snake Fish and Wildlife	Historical	232,396	7.109%	16,521	-	16,521
452	2023	McNary	Historical	12,761	5.208%	665	-	665
453	2023	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
454	2023	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
455	2023	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
456	2023	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
457	2023	Yakima Roza	Historical	14	5.892%	1	-	1
458	2023	Bureau Direct	Historical	686,745	5.769%	39,616	-	39,616
459	2023	Conservation	Historical	305,000	4.690%	14,306	-	14,306
460	2023	Fish and Wildlife	Historical	210,000	4.782%	10,041	-	10,041
461	2023	Float	Historical	-	-	(15,478)	-	(15,478)
462	FY 2023	Subtotal:		4,942,241		261,871	-	261,871
463	2024	Albeni Falls	Historical	1,633,239	6.281%	102,582	-	102,582
464	2024	Boise	Historical	4,425	6.657%	295	-	295
465	2024	Bonneville 2nd Powerhouse	Historical	9,867	7.150%	705	-	705
466	2024	Bonneville Dam	Historical	122,861	5.438%	6,681	-	6,681
467	2024	Chief Joseph	Historical	37,537	5.045%	1,894	-	1,894
468	2024	Columbia Basin	Historical	92,977	5.799%	5,392	-	5,392

TABLE 14A: Interest Calculation Summary
October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

	A	B	C	D	E	F	G	H
	Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total
469	2024	Columbia Basin 3rd Powerhouse	Historical	12,631	7.150%	903	-	903
470	2024	Columbia River Fish Mitigation	Historical	1,340,707	4.695%	62,940	-	62,940
471	2024	Cougar	Historical	52,463	5.188%	2,722	-	2,722
472	2024	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
473	2024	Dworshak	Historical	13,684	6.304%	863	-	863
474	2024	Green Peter/Foster	Historical	227	6.011%	14	-	14
475	2024	Hills Creek	Historical	2,713	6.118%	166	-	166
476	2024	Hungry Horse Dam	Historical	11,035	6.251%	690	-	690
477	2024	Ice Harbor	Historical	14,115	5.245%	740	-	740
478	2024	John Day	Historical	23,761	5.971%	1,419	-	1,419
479	2024	Libby	Historical	7,829	5.774%	452	-	452
480	2024	Little Goose	Historical	12,965	5.974%	774	-	774
481	2024	Lookout Dam	Historical	13,232	5.516%	730	-	730
482	2024	Lost Creek	Historical	272	6.428%	18	-	18
483	2024	Lower Granite	Historical	12,751	5.093%	649	-	649
484	2024	Lower Monument	Historical	11,825	5.569%	659	-	659
485	2024	Lower Snake Fish and Wildlife	Historical	41,236	6.919%	2,853	-	2,853
486	2024	McNary	Historical	12,761	5.208%	665	-	665
487	2024	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
488	2024	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
489	2024	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
490	2024	Yakima Chandler/Kennewick	Historical	848	5.111%	43	-	43
491	2024	Yakima Roza	Historical	14	5.892%	1	-	1
492	2024	Bureau Direct	Historical	661,745	5.821%	38,518	-	38,518
493	2024	Conservation	Historical	215,000	4.980%	10,707	-	10,707
494	2024	Fish and Wildlife	Historical	210,000	4.782%	10,041	-	10,041
495	2024	Float	Historical	-	-	(17,330)	-	(17,330)
496	FY 2024	Subtotal:		4,682,238		243,571	-	243,571
497	2025	Albeni Falls	Historical	1,612,457	6.280%	101,255	-	101,255
498	2025	Boise	Historical	1,060	5.091%	54	-	54
499	2025	Bonneville Dam	Historical	118,944	5.382%	6,401	-	6,401
500	2025	Chief Joseph	Historical	29,567	4.477%	1,324	-	1,324
501	2025	Columbia Basin	Historical	86,050	5.691%	4,897	-	4,897
502	2025	Columbia River Fish Mitigation	Historical	1,298,994	4.616%	59,958	-	59,958
503	2025	Cougar	Historical	52,437	5.187%	2,720	-	2,720
504	2025	Detroit Lake/Big Cliff	Historical	1,554	5.265%	82	-	82
505	2025	Dworshak	Historical	4,881	4.779%	233	-	233
506	2025	Green Peter/Foster	Historical	201	5.863%	12	-	12
507	2025	Hills Creek	Historical	2,685	6.107%	164	-	164
508	2025	Hungry Horse Dam	Historical	4,717	5.046%	238	-	238
509	2025	Ice Harbor	Historical	14,048	5.236%	736	-	736
510	2025	John Day	Historical	15,284	5.317%	813	-	813
511	2025	Libby	Historical	7,169	5.647%	405	-	405
512	2025	Little Goose	Historical	8,063	5.258%	424	-	424
513	2025	Lookout Dam	Historical	13,160	5.507%	725	-	725
514	2025	Lost Creek	Historical	154	5.874%	9	-	9
515	2025	Lower Granite	Historical	11,440	4.858%	556	-	556
516	2025	Lower Monument	Historical	9,929	5.267%	523	-	523
517	2025	Lower Snake Fish and Wildlife	Historical	5,082	5.273%	268	-	268
518	2025	McNary	Historical	12,126	5.107%	619	-	619
519	2025	Minidoka/Palisades	Historical	42	5.869%	2	-	2
520	2025	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
521	2025	The Dalles	Historical	43,836	5.157%	2,261	-	2,261
522	2025	Yakima Chandler/Kennewick	Historical	848	5.111%	43	-	43
523	2025	Yakima Roza	Historical	14	5.892%	1	-	1
524	2025	Bureau Direct	Historical	661,745	5.821%	38,518	-	38,518
525	2025	Conservation	Historical	111,000	5.280%	5,861	-	5,861
526	2025	Fish and Wildlife	Historical	190,000	4.805%	9,130	-	9,130
527	2025	Float	Historical	-	-	(23,293)	-	(23,293)
528	FY 2025	Subtotal:		4,328,633		215,593	-	215,593
529	2026	Albeni Falls	Historical	1,094,742	6.279%	68,742	-	68,742
530	2026	Boise	Historical	1,060	5.091%	54	-	54
531	2026	Bonneville Dam	Historical	118,944	5.382%	6,401	-	6,401
532	2026	Chief Joseph	Historical	29,567	4.477%	1,324	-	1,324
533	2026	Columbia Basin	Historical	86,050	5.691%	4,897	-	4,897
534	2026	Columbia River Fish Mitigation	Historical	1,298,994	4.616%	59,958	-	59,958
535	2026	Cougar	Historical	52,437	5.187%	2,720	-	2,720
536	2026	Detroit Lake/Big Cliff	Historical	1,554	5.265%	82	-	82
537	2026	Dworshak	Historical	4,881	4.779%	233	-	233
538	2026	Green Peter/Foster	Historical	201	5.863%	12	-	12
539	2026	Hills Creek	Historical	2,685	6.107%	164	-	164

TABLE 14A: Interest Calculation Summary
October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

	A	B	C	D	E	F	G	H
	Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total
540	2026	Hungry Horse Dam	Historical	4,717	5.046%	238	-	238
541	2026	Ice Harbor	Historical	14,048	5.236%	736	-	736
542	2026	John Day	Historical	15,284	5.317%	813	-	813
543	2026	Libby	Historical	7,169	5.647%	405	-	405
544	2026	Little Goose	Historical	8,063	5.258%	424	-	424
545	2026	Lookout Dam	Historical	13,160	5.50698	725	-	725
546	2026	Lost Creek	Historical	154	5.874%	9	-	9
547	2026	Lower Granite	Historical	11,440	4.858%	556	-	556
548	2026	Lower Monument	Historical	9,929	5.267%	523	-	523
549	2026	Lower Snake Fish and Wildlife	Historical	5,082	5.273%	268	-	268
550	2026	McNary	Historical	12,126	5.107%	619	-	619
551	2026	Minidoka/Palisades	Historical	42	5.869%	2	-	2
552	2026	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
553	2026	The Dalles	Historical	43,836	5.157%	2,261	-	2,261
554	2026	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
555	2026	Yakima Roza	Historical	14	5.892%	1	-	1
556	2026	Bureau Direct	Historical	661,745	5.821%	38,518	-	38,518
557	2026	Fish and Wildlife	Historical	190,000	4.805%	9,130	-	9,130
558	2026	Float	Historical	-	-	(23,198)	-	(23,198)
559	FY 2026	Subtotal:		3,699,917		177,314	-	177,314
560	2027	Albeni Falls	Historical	524,636	6.279%	32,940	-	32,940
561	2027	Boise	Historical	1,060	5.091%	54	-	54
562	2027	Bonneville Dam	Historical	118,944	5.382%	6,401	-	6,401
563	2027	Chief Joseph	Historical	29,567	4.477%	1,324	-	1,324
564	2027	Columbia Basin	Historical	86,050	5.691%	4,897	-	4,897
565	2027	Columbia River Fish Mitigation	Historical	1,298,994	4.616%	59,958	-	59,958
566	2027	Cougar	Historical	52,437	5.187%	2,720	-	2,720
567	2027	Detroit Lake/Big Cliff	Historical	1,554	5.265%	82	-	82
568	2027	Dworshak	Historical	4,881	4.779%	233	-	233
569	2027	Green Peter/Foster	Historical	201	5.863%	12	-	12
570	2027	Hills Creek	Historical	2,685	6.107%	164	-	164
571	2027	Hungry Horse Dam	Historical	4,717	5.046%	238	-	238
572	2027	Ice Harbor	Historical	14,048	5.236%	736	-	736
573	2027	John Day	Historical	15,284	5.317%	813	-	813
574	2027	Libby	Historical	7,169	5.647%	405	-	405
575	2027	Little Goose	Historical	8,063	5.258%	424	-	424
576	2027	Lookout Dam	Historical	13,160	5.507%	725	-	725
577	2027	Lost Creek	Historical	154	5.874%	9	-	9
578	2027	Lower Granite	Historical	11,440	4.858%	556	-	556
579	2027	Lower Monument	Historical	9,929	5.267%	523	-	523
580	2027	Lower Snake Fish and Wildlife	Historical	5,082	5.273%	268	-	268
581	2027	McNary	Historical	12,126	5.107%	619	-	619
582	2027	Minidoka/Palisades	Historical	42	5.869%	2	-	2
583	2027	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
584	2027	The Dalles	Historical	43,836	5.157%	2,261	-	2,261
585	2027	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
586	2027	Yakima Roza	Historical	14	5.892%	1	-	1
587	2027	Bureau Direct	Historical	661,745	5.821%	38,518	5,844	44,362
588	2027	Fish and Wildlife	Historical	100,000	5.165%	5,165	-	5,165
589	2027	Float	Historical	-	-	(23,596)	-	(23,596)
590	FY 2027	Subtotal:		3,039,811		137,148	5,844	142,992
591	2028	Albeni Falls	Historical	580	4.989%	29	-	29
592	2028	Boise	Historical	1,060	5.091%	54	-	54
593	2028	Bonneville Dam	Historical	118,944	5.382%	6,401	-	6,401
594	2028	Chief Joseph	Historical	29,567	4.477%	1,324	-	1,324
595	2028	Columbia Basin	Historical	86,050	5.691%	4,897	-	4,897
596	2028	Columbia River Fish Mitigation	Historical	1,298,994	4.616%	59,958	-	59,958
597	2028	Cougar	Historical	52,437	5.187%	2,720	-	2,720
598	2028	Detroit Lake/Big Cliff	Historical	1,554	5.265%	82	-	82
599	2028	Dworshak	Historical	4,881	4.779%	233	-	233
600	2028	Green Peter/Foster	Historical	201	5.863%	12	-	12
601	2028	Hills Creek	Historical	2,685	6.107%	164	-	164
602	2028	Hungry Horse Dam	Historical	4,717	5.046%	238	-	238
603	2028	Ice Harbor	Historical	14,048	5.236%	736	-	736
604	2028	John Day	Historical	15,284	5.317%	813	-	813
605	2028	Libby	Historical	7,169	5.647%	405	-	405
606	2028	Little Goose	Historical	8,063	5.258%	424	-	424
607	2028	Lookout Dam	Historical	13,160	5.507%	725	-	725
608	2028	Lost Creek	Historical	154	5.874%	9	-	9
609	2028	Lower Granite	Historical	11,440	4.858%	556	-	556
610	2028	Lower Monument	Historical	9,929	5.267%	523	-	523

TABLE 14A: Interest Calculation Summary
October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

A	B	C	D	E	F	G	H	
Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total	
611	2028	Lower Snake Fish and Wildlife	Historical	5,082	5.273%	268	-	268
612	2028	McNary	Historical	12,126	5.107%	619	-	619
613	2028	Minidoka/Palisades	Historical	42	5.868%	2	-	2
614	2028	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
615	2028	The Dalles	Historical	43,836	5.157%	2,261	-	2,261
616	2028	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
617	2028	Yakima Roza	Historical	14	5.891%	1	-	1
618	2028	Bureau Direct	Historical	526,660	5.703%	30,035	11,968	42,003
619	2028	Fish and Wildlife	Historical	50,000	5.450%	2,725	-	2,725
620	2028	Float	Historical	-	-	(23,606)	-	(23,606)
621	FY 2028	Subtotal:		2,330,671		93,304	11,968	105,272
622	2029	Albeni Falls	Historical	580	4.989%	29	-	29
623	2029	Boise	Historical	1,060	5.091%	54	-	54
624	2029	Bonneville Dam	Historical	45,412	4.960%	2,252	-	2,252
625	2029	Chief Joseph	Historical	29,220	4.460%	1,303	-	1,303
626	2029	Columbia Basin	Historical	16,824	4.932%	830	-	830
627	2029	Columbia River Fish Mitigation	Historical	1,145,498	4.483%	51,355	-	51,355
628	2029	Cougar	Historical	36,689	5.107%	1,874	-	1,874
629	2029	Detroit Lake/Big Cliff	Historical	1,254	5.125%	64	-	64
630	2029	Dworshak	Historical	4,053	4.651%	189	-	189
631	2029	Green Peter/Foster	Historical	1	3.873%	-	-	-
632	2029	Hills Creek	Historical	46	5.114%	2	-	2
633	2029	Hungry Horse Dam	Historical	4,165	4.936%	206	-	206
634	2029	Ice Harbor	Historical	2,836	4.368%	124	-	124
635	2029	John Day	Historical	5,564	4.788%	266	-	266
636	2029	Libby	Historical	1,607	4.860%	78	-	78
637	2029	Little Goose	Historical	3,214	4.376%	141	-	141
638	2029	Lookout Dam	Historical	7,927	5.116%	406	-	406
639	2029	Lower Granite	Historical	7,242	4.397%	318	-	318
640	2029	Lower Monument	Historical	3,153	4.513%	142	-	142
641	2029	Lower Snake Fish and Wildlife	Historical	2,003	4.418%	89	-	89
642	2029	McNary	Historical	4,845	4.588%	222	-	222
643	2029	The Dalles	Historical	39,840	5.082%	2,025	-	2,025
644	2029	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
645	2029	Bureau Direct	Historical	225,000	5.182%	11,661	-	11,661
646	2029	Float	Historical	-	-	(24,029)	-	(24,029)
647	FY 2029	Subtotal:		1,588,882		49,644	-	49,644
648	2030	Albeni Falls	Historical	99	4.330%	4	-	4
649	2030	Boise	Historical	17	4.498%	1	-	1
650	2030	Bonneville Dam	Historical	5,372	4.436%	238	-	238
651	2030	Chief Joseph	Historical	24,727	4.375%	1,082	-	1,082
652	2030	Columbia Basin	Historical	4,098	4.412%	181	-	181
653	2030	Columbia River Fish Mitigation	Historical	502,006	4.139%	20,776	-	20,776
654	2030	Cougar	Historical	851	4.407%	38	-	38
655	2030	Dworshak	Historical	2,569	4.379%	112	-	112
656	2030	Green Peter/Foster	Historical	1	3.873%	-	-	-
657	2030	Hungry Horse Dam	Historical	844	4.259%	36	-	36
658	2030	Ice Harbor	Historical	2,822	4.366%	123	-	123
659	2030	John Day	Historical	1,903	4.352%	83	-	83
660	2030	Libby	Historical	40	4.261%	2	-	2
661	2030	Little Goose	Historical	3,201	4.374%	140	-	140
662	2030	Lower Granite	Historical	6,826	4.354%	297	-	297
663	2030	Lower Monument	Historical	2,332	4.375%	102	-	102
664	2030	Lower Snake Fish and Wildlife	Historical	1,545	4.375%	68	-	68
665	2030	Yakima Chandler/Kenniwick	Historical	15	4.370%	1	-	1
666	2030	Bureau Direct	Historical	225,000	5.182%	11,661	-	11,661
667	2030	Float	Historical	-	-	(24,074)	-	(24,074)
668	FY 2030	Subtotal:		784,270		10,869	-	10,869
669	2031	Bureau Direct	Historical	225,000	5.182%	11,661	-	11,661
670	2031	Float	Historical	-	-	(23,872)	-	(23,872)
671	FY 2031	Subtotal:		225,000		(12,212)	-	(12,212)
672	2032	Bureau Direct	Historical	225,000	5.182%	11,661	-	11,661
673	2032	Float	Historical	-	-	(24,126)	-	(24,126)
674	FY 2032	Subtotal:		225,000		(12,465)	-	(12,465)
675	2033	Bureau Direct	Historical	225,000	5.182%	11,661	-	11,661
676	2033	Float	Historical	-	-	(24,040)	-	(24,040)

TABLE 14A: Interest Calculation Summary
October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

	A	B	C	D	E	F	G	H
	Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total
677	FY 2033	Subtotal:		225,000		(12,380)	-	(12,380)
678	2034	Bureau Direct	Historical	225,000	5.182%	11,661	-	11,661
679	2034	Float	Historical	-	-	(24,200)	-	(24,200)
680	FY 2034	Subtotal:		225,000		(12,539)	-	(12,539)
681	2035	Bureau Direct	Historical	225,000	5.182%	11,661	-	11,661
682	2035	Float	Historical	-	-	(24,013)	-	(24,013)
683	FY 2035	Subtotal:		225,000		(12,352)	-	(12,352)
684	2036	Bureau Direct	Historical	205,000	5.277%	10,819	-	10,819
685	2036	Float	Historical	-	-	(23,520)	-	(23,520)
686	FY 2036	Subtotal:		205,000		(12,701)	-	(12,701)
687	2037	Bureau Direct	Historical	175,000	5.251%	9,190	-	9,190
688	2037	Float	Historical	-	-	(23,839)	-	(23,839)
689	FY 2037	Subtotal:		175,000		(14,649)	-	(14,649)
690	2038	Bureau Direct	Historical	140,000	5.181%	7,254	-	7,254
691	2038	Float	Historical	-	-	(24,252)	-	(24,252)
692	FY 2038	Subtotal:		140,000		(16,998)	-	(16,998)
693	2039	Bureau Direct	Historical	110,000	5.056%	5,562	-	5,562
694	2039	Float	Historical	-	-	(23,933)	-	(23,933)
695	FY 2039	Subtotal:		110,000		(18,371)	-	(18,371)
696	2040	Bureau Direct	Historical	50,000	5.000%	2,500	-	2,500
697	2040	Float	Historical	-	-	(24,309)	-	(24,309)
698	FY 2040	Subtotal:		50,000		(21,809)	-	(21,809)
699	2041	Float	Historical	-	-	(24,339)	-	(24,339)
700	FY 2041	Subtotal:		-		(24,339)	-	(24,339)
701	2042	Float	Historical	-	-	(22,582)	-	(22,582)
702	FY 2042	Subtotal:		-		(22,582)	-	(22,582)
703	2043	Float	Historical	-	-	(24,339)	-	(24,339)
704	FY 2043	Subtotal:		-		(24,339)	-	(24,339)
705	2044	Float	Historical	-	-	(21,423)	-	(21,423)
706	FY 2044	Subtotal:		-		(21,423)	-	(21,423)
707	2045	Float	Historical	-	-	(12,396)	-	(12,396)
708	FY 2045	Subtotal:		-		(12,396)	-	(12,396)
709	2046	Float	Historical	-	-	(12,675)	-	(12,675)
710	FY 2046	Subtotal:		-		(12,675)	-	(12,675)
711	2047	Float	Historical	-	-	(12,675)	-	(12,675)
712	FY 2047	Subtotal:		-		(12,675)	-	(12,675)
713	2048	Float	Historical	-	-	(12,675)	-	(12,675)
714	FY 2048	Subtotal:		-		(12,675)	-	(12,675)
715	2049	Float	Historical	-	-	(12,675)	-	(12,675)
716	FY 2049	Subtotal:		-		(12,675)	-	(12,675)
717	2050	Float	Historical	-	-	(12,675)	-	(12,675)
718	FY 2050	Subtotal:		-		(12,675)	-	(12,675)
719	2051	Float	Historical	-	-	(12,675)	-	(12,675)
720	FY 2051	Subtotal:		-		(12,675)	-	(12,675)
721	2052	Float	Historical	-	-	(12,675)	-	(12,675)
722	FY 2052	Subtotal:		-		(12,675)	-	(12,675)
723	2053	Float	Historical	-	-	(12,675)	-	(12,675)
724	FY 2053	Subtotal:		-		(12,675)	-	(12,675)
725	2054	Float	Historical	-	-	(12,675)	-	(12,675)
726	FY 2054	Subtotal:		-		(12,675)	-	(12,675)
727	2055	Float	Historical	-	-	(12,675)	-	(12,675)
728	FY 2055	Subtotal:		-		(12,675)	-	(12,675)
729	2056	Float	Historical	-	-	(12,675)	-	(12,675)
730	FY 2056	Subtotal:		-		(12,675)	-	(12,675)
731	2057	Float	Historical	-	-	(12,675)	-	(12,675)
732	FY 2057	Subtotal:		-		(12,675)	-	(12,675)
733	2058	Float	Historical	-	-	(12,675)	-	(12,675)
734	FY 2058	Subtotal:		-		(12,675)	-	(12,675)
735	2059	Float	Historical	-	-	(12,675)	-	(12,675)
736	FY 2059	Subtotal:		-		(12,675)	-	(12,675)
737	2060	Float	Historical	-	-	(12,675)	-	(12,675)
738	FY 2060	Subtotal:		-		(12,675)	-	(12,675)
739	2061	Float	Historical	-	-	(12,675)	-	(12,675)
740	FY 2061	Subtotal:		-		(12,675)	-	(12,675)
741	2062	Float	Historical	-	-	(12,675)	-	(12,675)
742	FY 2062	Subtotal:		-		(12,675)	-	(12,675)
743	2063	Float	Historical	-	-	(12,675)	-	(12,675)
744	FY 2063	Subtotal:		-		(12,675)	-	(12,675)
	Grand Total:			92,625,612		3,845,547	17,812	3,863,359

TABLE 14B: Application of Amortization
October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

A	B	C	D	E	F	G	H	I	J	
Fiscal Year	Project	Appropriation Type	In Service	Due Date	Original Principal	Current Balance	Rate	Rollover	Amount Amortized	
1	FY 2011	Bureau Direct	-	2008	2011	25,000	25,000	3.358%	No	25,000
2	FY 2011	Bureau Direct	-	2008	2011	35,000	35,000	3.358%	No	35,000
3	FY 2011	Bureau Direct	-	2008	2011	20,000	20,000	2.850%	No	20,000
4	FY 2011	Bureau Direct	-	2008	2011	35,000	35,000	2.850%	No	35,000
5	FY 2011	Fish and Wildlife	-	2007	2011	20,000	20,000	4.700%	No	20,000
6	FY 2011	Little Goose	COE	1978	2021	28	28	7.230%	No	28
7	FY 2011	John Day	COE	1972	2022	11,502	8,837	7.210%	No	8,837
8	FY 2011	Dworshak	COE	1974	2023	515	515	7.190%	No	515
9	FY 2011	Dworshak	COE	1975	2023	3	3	7.190%	No	3
10	FY 2011	Dworshak	COE	1975	2023	518	518	7.190%	No	518
11	FY 2011	Dworshak	COE	1976	2023	3	3	7.190%	No	3
12	FY 2011	Dworshak	COE	1976	2023	518	518	7.190%	No	518
13	FY 2011	Dworshak	COE	1977	2023	3	3	7.190%	No	3
14	FY 2011	Dworshak	COE	1977	2023	518	518	7.190%	No	518
15	FY 2011	Dworshak	COE	1978	2023	3	3	7.190%	No	3
16	FY 2011	Dworshak	COE	1978	2023	518	518	7.190%	No	518
17	FY 2011	Dworshak	COE	1979	2023	3	3	7.190%	No	3
18	FY 2011	Dworshak	COE	1979	2023	518	518	7.190%	No	518
19	FY 2011	Dworshak	COE	1980	2023	3	3	7.190%	No	3
20	FY 2011	Dworshak	COE	1980	2023	518	518	7.190%	No	518
21	FY 2011	Dworshak	COE	1981	2023	3	3	7.190%	No	3
22	FY 2011	Dworshak	COE	1981	2023	518	518	7.190%	No	518
23	FY 2011	Dworshak	COE	1982	2023	3	3	7.190%	No	3
24	FY 2011	Dworshak	COE	1982	2023	518	518	7.190%	No	518
25	FY 2011	Dworshak	COE	1983	2023	3	3	7.190%	No	3
26	FY 2011	Dworshak	COE	1983	2023	523	523	7.190%	No	523
27	FY 2011	Dworshak	COE	1985	2023	1,141	1,141	7.190%	No	1,141
28	FY 2011	Dworshak	COE	1986	2023	197	197	7.190%	No	197
29	FY 2011	Dworshak	COE	1987	2023	36	5	7.190%	No	5
30	FY 2011	The Dalles	COE	1973	2023	21,983	21,983	7.190%	No	11,746
31		FY 2011 Subtotal:	-	-	-	175,096	172,400	-	-	162,163
32	FY 2012	Bureau Direct	-	2008	2012	30,000	30,000	3.974%	No	30,000
33	FY 2012	Bureau Direct	-	2008	2012	35,000	35,000	3.913%	No	35,000
34	FY 2012	Bureau Direct	-	2008	2012	35,000	35,000	3.444%	No	35,000
35	FY 2012	Construction	-	2008	2012	10,000	10,000	3.444%	No	10,000
36	FY 2012	Construction	-	2008	2012	10,000	10,000	3.200%	No	10,000
37	FY 2012	Fish and Wildlife	-	2008	2012	20,000	20,000	3.444%	No	20,000
38	FY 2012	Hills Creek	COE	1962	2012	10,353	5,159	7.160%	No	5,159
39	FY 2012	Hills Creek	COE	1974	2012	13	13	7.160%	No	13
40	FY 2012	Hills Creek	COE	1977	2012	13	13	7.160%	No	13
41	FY 2012	Hills Creek	COE	1978	2012	13	13	7.160%	No	13
42	FY 2012	Hills Creek	COE	1979	2012	13	13	7.160%	No	13
43	FY 2012	Hills Creek	COE	1980	2012	13	13	7.160%	No	13
44	FY 2012	Hills Creek	COE	1981	2012	13	13	7.160%	No	13
45	FY 2012	Hills Creek	COE	1982	2012	13	13	7.160%	No	13
46	FY 2012	Hills Creek	COE	1983	2012	13	13	7.160%	No	13
47	FY 2012	Ice Harbor	COE	1973	2012	1	1	7.160%	No	1
48	FY 2012	Dworshak	COE	1973	2023	836	803	7.190%	No	803
49	FY 2012	Dworshak	COE	1973	2023	138,443	106,138	7.190%	No	36,696
50	FY 2012	The Dalles	COE	1973	2023	21,983	10,237	7.190%	No	10,237
51		FY 2012 Subtotal:	-	-	-	311,720	262,442	-	-	193,000
52	FY 2013	Conservation	-	1998	2013	52,800	52,800	5.600%	No	52,800
53	FY 2013	Conservation	-	2008	2013	10,000	10,000	3.701%	No	10,000
54	FY 2013	Fish and Wildlife	-	1998	2013	60,000	60,000	6.100%	No	60,000
55		FY 2013 Subtotal:	-	-	-	122,800	122,800	-	-	122,800
56	FY 2014	Conservation	-	2009	2014	15,000	15,000	2.746%	No	15,000
57	FY 2014	Construction	-	1999	2014	950	950	5.900%	No	950
58	FY 2014	Construction	-	2009	2014	14,000	14,000	2.746%	No	14,000
59	FY 2014	Dworshak	COE	1973	2023	138,443	69,442	7.190%	No	42,806
60		FY 2014 Subtotal:	-	-	-	168,393	99,392	-	-	72,756
61	FY 2015	Conservation	-	2010	2015	20,000	20,000	2.677%	No	20,000
62	FY 2015	Conservation	-	2010	2015	15,000	15,000	2.609%	No	15,000
63	FY 2015	Conservation	-	2010	2015	15,000	15,000	1.619%	No	15,000
64	FY 2015	Conservation	-	2010	2015	10,000	10,000	1.534%	No	10,000
65	FY 2015	Construction	-	2010	2015	5,000	5,000	1.619%	No	5,000

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October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

A	B	C	D	E	F	G	H	I	J	
Fiscal Year	Project	Appropriation Type	In Service	Due Date	Original Principal	Current Balance	Rate	Rollover	Amount Amortized	
66	FY 2015	Construction	-	2010	2015	7,500	7,500	0.165%	No	7,500
67	FY 2015	Dworshak	COE	1973	2023	138,443	26,636	7.190%	No	26,636
68	FY 2015	The Dalles	COE	1974	2024	7,268	7,268	7.170%	No	5,701
69		FY 2015 Subtotal:	-	-	-	218,211	106,404	-	-	104,837
70	FY 2016	Construction	-	2011	2016	14,000	14,000	2.600%	No	14,000
71	FY 2016	The Dalles	COE	1974	2024	7,268	1,567	7.170%	No	1,567
72	FY 2016	Lower Granite	COE	1975	2025	119,237	117,645	7.160%	No	63,612
73	FY 2016	Lower Granite	COE	1976	2025	510	510	7.160%	No	510
74	FY 2016	Lower Granite	COE	1977	2025	510	510	7.160%	No	510
75	FY 2016	Lower Granite	COE	1978	2025	510	510	7.160%	No	510
76	FY 2016	Lower Granite	COE	1979	2025	510	510	7.160%	No	510
77	FY 2016	Lower Granite	COE	1980	2025	510	510	7.160%	No	510
78	FY 2016	Lower Granite	COE	1981	2025	510	510	7.160%	No	510
79	FY 2016	Lower Granite	COE	1982	2025	510	510	7.160%	No	510
80	FY 2016	Lower Granite	COE	1983	2025	510	510	7.160%	No	510
81	FY 2016	Lower Granite	COE	1985	2025	328	328	7.160%	No	328
82	FY 2016	Lower Granite	COE	1986	2025	215	215	7.160%	No	215
83	FY 2016	Lower Granite	COE	1987	2025	8	8	7.160%	No	8
84	FY 2016	Lower Granite	COE	1995	2025	96	96	7.160%	No	96
85		FY 2016 Subtotal:	-	-	-	145,232	137,939	-	-	83,906
86	FY 2017	Libby	COE	1975	2025	54,644	48,138	7.160%	No	38,463
87	FY 2017	Lower Granite	COE	1975	2025	119,237	54,033	7.160%	No	54,033
88		FY 2017 Subtotal:	-	-	-	173,881	102,171	-	-	92,496
89	FY 2018	Construction	-	2012	2018	21,399	21,399	3.890%	No	21,399
90	FY 2018	Columbia Basin 3rd Powerhouse	BOR	1975	2025	8,702	7,435	7.160%	No	7,435
91	FY 2018	Columbia Basin 3rd Powerhouse	BOR	1975	2025	47,328	36,690	7.160%	No	36,690
92	FY 2018	Libby	COE	1975	2025	54,644	9,675	7.160%	No	9,675
93	FY 2018	Columbia Basin	BOR	1996	2026	72	72	7.150%	No	72
94	FY 2018	Ice Harbor	COE	1985	2026	21	21	7.150%	No	21
95	FY 2018	Libby	COE	1976	2026	153,432	153,432	7.150%	No	53,483
96	FY 2018	Libby	COE	1977	2026	1,465	1,465	7.150%	No	1,465
97	FY 2018	Libby	COE	1978	2026	1,465	1,465	7.150%	No	1,465
98	FY 2018	Libby	COE	1979	2026	1,465	1,465	7.150%	No	1,465
99	FY 2018	Libby	COE	1980	2026	1,465	1,465	7.150%	No	1,465
##	FY 2018	Libby	COE	1981	2026	1,465	1,465	7.150%	No	1,465
##	FY 2018	Libby	COE	1982	2026	1,465	1,465	7.150%	No	1,465
##	FY 2018	Libby	COE	1983	2026	1,465	1,465	7.150%	No	1,465
##	FY 2018	Libby	COE	1985	2026	518	518	7.150%	No	518
##	FY 2018	Libby	COE	1986	2026	283	283	7.150%	No	283
##	FY 2018	Libby	COE	1987	2026	2	2	7.150%	No	2
##	FY 2018	Libby	COE	1989	2026	1	1	7.150%	No	1
##	FY 2018	McNary	COE	1996	2026	74	74	7.150%	No	74
##	FY 2018	McNary	COE	1996	2026	277	277	7.150%	No	277
##		FY 2018 Subtotal:	-	-	-	297,008	240,134	-	-	140,185
##	FY 2019	Bureau Direct	-	2009	2019	25,000	25,000	3.699%	No	25,000
##	FY 2019	Bureau Direct	-	2010	2019	24,000	24,000	3.719%	No	24,000
##	FY 2019	Bureau Direct	-	2010	2019	10,000	10,000	3.714%	No	10,000
##	FY 2019	Bureau Direct	-	2010	2019	10,000	10,000	0.165%	No	10,000
##	FY 2019	Construction	-	2013	2019	20,326	20,326	4.810%	No	20,326
##	FY 2019	Fish and Wildlife	-	2010	2019	26,000	26,000	4.069%	No	26,000
##	FY 2019	Fish and Wildlife	-	2010	2019	20,000	20,000	2.646%	No	20,000
##	FY 2019	Columbia Basin 3rd Powerhouse	BOR	1976	2026	8,037	8,037	7.150%	No	8,037
##	FY 2019	Columbia Basin 3rd Powerhouse	BOR	1976	2026	41,330	41,330	7.150%	No	41,330
##	FY 2019	Ice Harbor	COE	1976	2026	228	228	7.150%	No	228
##	FY 2019	Ice Harbor	COE	1976	2026	20,472	20,472	7.150%	No	20,472
##	FY 2019	Libby	COE	1976	2026	153,432	99,949	7.150%	No	99,949
##	FY 2019	Columbia Basin 3rd Powerhouse	BOR	1977	2027	7,964	7,964	7.150%	No	7,964
##	FY 2019	Columbia Basin 3rd Powerhouse	BOR	1977	2027	42,764	42,764	7.150%	No	2,635
##	FY 2019	Lost Creek	COE	1977	2027	13,505	13,413	7.150%	No	13,413
##	FY 2019	Lost Creek	COE	1978	2027	58	58	7.150%	No	58
##	FY 2019	Lost Creek	COE	1979	2027	60	60	7.150%	No	60
##	FY 2019	Lost Creek	COE	1980	2027	60	60	7.150%	No	60
##	FY 2019	Lost Creek	COE	1981	2027	60	60	7.150%	No	60
##	FY 2019	Lost Creek	COE	1982	2027	60	60	7.150%	No	60
##	FY 2019	Lost Creek	COE	1983	2027	60	60	7.150%	No	60

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A	B	C	D	E	F	G	H	I	J	
Fiscal Year	Project	Appropriation Type	In Service	Due Date	Original Principal	Current Balance	Rate	Rollover	Amount Amortized	
##	FY 2019	Lost Creek	COE	1985	2027	12	12	7.150%	No	12
##	FY 2019	Lost Creek	COE	1986	2027	6	6	7.150%	No	6
##	FY 2019	Lost Creek	COE	1987	2027	4	4	7.150%	No	4
##		FY 2019 Subtotal:	-	-	-	423,438	369,863	-	-	329,734
##	FY 2020	Bureau Direct	-	2010	2020	13,000	13,000	4.194%	No	13,000
##	FY 2020	Bureau Direct	-	2010	2020	30,000	30,000	4.083%	No	30,000
##	FY 2020	Bureau Direct	-	2010	2020	18,000	18,000	3.973%	No	18,000
##	FY 2020	Bureau Direct	-	2010	2020	20,000	20,000	3.842%	No	20,000
##	FY 2020	Bureau Direct	-	2010	2020	7,000	7,000	3.637%	No	7,000
##	FY 2020	Bureau Direct	-	2010	2020	15,000	15,000	3.574%	No	15,000
##	FY 2020	Bureau Direct	-	2010	2020	10,000	10,000	3.243%	No	10,000
##	FY 2020	Bureau Direct	-	2010	2020	30,000	30,000	3.243%	No	30,000
##	FY 2020	Bureau Direct	-	2010	2020	17,000	17,000	3.118%	No	17,000
##	FY 2020	Bureau Direct	-	2010	2020	5,000	5,000	0.165%	No	5,000
##	FY 2020	Bonneville Dam	COE	1977	2027	15,670	15,670	7.150%	No	15,670
##	FY 2020	Chief Joseph	COE	1977	2027	30,512	30,512	7.150%	No	30,512
##	FY 2020	Columbia Basin 3rd Powerhouse	BOR	1977	2027	42,764	40,129	7.150%	No	40,129
##	FY 2020	Columbia Basin 3rd Powerhouse	BOR	1978	2028	7,896	7,896	7.150%	No	7,896
##	FY 2020	Columbia Basin 3rd Powerhouse	BOR	1978	2028	42,399	42,399	7.150%	No	22,680
##	FY 2020	Little Goose	COE	1978	2028	49,578	49,550	7.150%	No	49,550
##	FY 2020	Little Goose	COE	1985	2028	47	47	7.150%	No	47
##	FY 2020	Lower Granite	COE	1978	2028	40,611	40,611	7.150%	No	40,611
##		FY 2020 Subtotal:	-	-	-	394,477	391,814	-	-	372,095
##	FY 2021	Bureau Direct	-	2009	2021	25,000	25,000	3.999%	No	25,000
##	FY 2021	Bureau Direct	-	2010	2021	22,000	22,000	2.883%	No	22,000
##	FY 2021	Chief Joseph	COE	1978	2028	75,669	75,669	7.150%	No	75,669
##	FY 2021	Columbia Basin 3rd Powerhouse	BOR	1978	2028	42,399	19,719	7.150%	No	19,719
##	FY 2021	Chief Joseph	COE	1979	2029	60,079	60,079	7.150%	No	60,079
##	FY 2021	Chief Joseph	COE	1985	2029	16,372	16,372	7.150%	No	16,372
##	FY 2021	Chief Joseph	COE	1986	2029	5,363	5,363	7.150%	No	5,363
##	FY 2021	Chief Joseph	COE	1987	2029	3,036	3,036	7.150%	No	3,036
##	FY 2021	Chief Joseph	COE	1988	2029	2,722	2,722	7.150%	No	2,722
##	FY 2021	Chief Joseph	COE	1989	2029	2,227	2,227	7.150%	No	2,227
##	FY 2021	Chief Joseph	COE	1990	2029	4,505	4,505	7.150%	No	4,505
##	FY 2021	Columbia Basin 3rd Powerhouse	BOR	1979	2029	15,666	15,666	7.150%	No	15,666
##	FY 2021	Columbia Basin 3rd Powerhouse	BOR	1979	2029	84,118	84,118	7.150%	No	84,118
##	FY 2021	Libby	COE	1994	2029	286	152	7.150%	No	152
##	FY 2021	Lower Granite	COE	1994	2029	3,543	1,551	7.150%	No	1,551
##	FY 2021	Lower Monument	COE	1979	2029	40,669	40,669	7.150%	No	40,669
##	FY 2021	Lower Monument	COE	1985	2029	256	256	7.150%	No	256
##	FY 2021	Dworshak	COE	1995	2030	218	218	7.150%	No	218
##	FY 2021	Hungry Horse Dam	BOR	1995	2030	536	536	7.150%	No	536
##	FY 2021	Hungry Horse Dam	BOR	1995	2030	1,198	1,195	7.150%	No	1,195
##	FY 2021	Libby	COE	1995	2030	15	15	7.150%	No	15
##	FY 2021	Libby	COE	1995	2030	41	41	7.150%	No	41
##	FY 2021	Libby	COE	1995	2030	94	94	7.150%	No	94
##	FY 2021	Bonneville 2nd Powerhouse	COE	1981	2031	455	455	7.150%	No	455
##	FY 2021	Bonneville 2nd Powerhouse	COE	1981	2031	40,964	40,964	7.150%	No	10,228
##	FY 2021	Bonneville Dam	COE	1996	2031	22	22	7.150%	No	22
##	FY 2021	Chief Joseph	COE	1996	2031	27	27	7.150%	No	27
##	FY 2021	Columbia Basin	BOR	1996	2031	109	109	7.150%	No	109
##	FY 2021	Columbia Basin	BOR	1996	2031	251	251	7.150%	No	251
##	FY 2021	Dworshak	COE	1996	2031	6	6	7.150%	No	6
##	FY 2021	Dworshak	COE	1996	2031	203	203	7.150%	No	203
##	FY 2021	Ice Harbor	COE	1996	2031	78	78	7.150%	No	78
##	FY 2021	Lost Creek	COE	1996	2031	31	31	7.150%	No	31
##	FY 2021	Lower Granite	COE	1996	2031	206	206	7.150%	No	206
##		FY 2021 Subtotal:	-	-	-	448,364	423,555	-	-	392,818
##	FY 2022	Bonneville 2nd Powerhouse	COE	1981	2031	40,964	30,736	7.150%	No	30,736
##	FY 2022	Bonneville 2nd Powerhouse	COE	1982	2032	2,264	2,264	7.150%	No	2,264
##	FY 2022	Bonneville 2nd Powerhouse	COE	1982	2032	203,535	203,535	7.150%	No	203,535
##	FY 2022	Bonneville Dam	COE	1997	2032	518	518	7.150%	No	518
##	FY 2022	Chief Joseph	COE	1997	2032	166	166	7.150%	No	166
##	FY 2022	McNary	COE	1997	2032	30	30	7.150%	No	30
##	FY 2022	Bonneville 2nd Powerhouse	COE	1985	2033	9,138	9,138	7.150%	No	9,138

TABLE 14B: Application of Amortization
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Fiscal Year	Project	Appropriation Type	In Service	Due Date	Original Principal	Current Balance	Rate	Rollover	Amount Amortized	
##	FY 2022	Bonneville 2nd Powerhouse	COE	1986	2033	30,578	30,578	7.150%	No	30,578
##	FY 2022	Bonneville 2nd Powerhouse	COE	1987	2033	2,801	2,801	7.150%	No	2,801
##	FY 2022	Bonneville 2nd Powerhouse	COE	1988	2033	1,271	1,271	7.150%	No	1,271
##	FY 2022	Bonneville 2nd Powerhouse	COE	1989	2033	1,232	1,232	7.150%	No	1,232
##	FY 2022	Bonneville 2nd Powerhouse	COE	1990	2033	1,588	1,588	7.150%	No	1,588
##	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1984	2033	3,160	3,160	7.150%	No	3,160
##	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1984	2033	13,192	13,192	7.150%	No	10,870
##	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1985	2033	107	107	7.150%	No	107
##	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1985	2033	2,060	2,060	7.150%	No	2,060
##	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1985	2033	41,772	41,772	7.150%	No	41,772
##	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1986	2033	1,851	1,851	7.150%	No	1,851
##	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1986	2033	15,538	15,538	7.150%	No	15,538
##	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1987	2033	1,730	1,730	7.150%	No	1,730
##	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1987	2033	14,439	14,439	7.150%	No	14,439
##	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1988	2033	2,294	2,294	7.150%	No	2,294
##	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1988	2033	4,351	4,351	7.150%	No	4,351
##	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1989	2033	10,902	10,902	7.150%	No	10,902
##	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1990	2033	6,383	6,383	7.150%	No	6,383
##		FY 2022 Subtotal:	-	-	-	411,864	401,636	-	-	399,314
##	FY 2023	Bureau Direct	-	2009	2023	25,000	25,000	4.391%	No	25,000
##	FY 2023	Conservation	-	2011	2023	40,000	40,000	4.050%	No	40,000
##	FY 2023	Conservation	-	2011	2023	15,000	15,000	4.020%	No	15,000
##	FY 2023	Conservation	-	2011	2023	35,000	35,000	3.930%	No	35,000
##	FY 2023	Bonneville 2nd Powerhouse	COE	1983	2033	694	694	7.150%	No	694
##	FY 2023	Bonneville 2nd Powerhouse	COE	1983	2033	62,409	62,409	7.150%	No	62,409
##	FY 2023	Columbia Basin 3rd Powerhouse	BOR	1983	2033	712	712	7.150%	No	712
##	FY 2023	Columbia Basin 3rd Powerhouse	BOR	1983	2033	13,003	13,003	7.150%	No	13,003
##	FY 2023	Columbia Basin 3rd Powerhouse	BOR	1984	2033	13,192	2,322	7.150%	No	2,322
##	FY 2023	Columbia Basin 3rd Powerhouse	BOR	1984	2033	16,965	16,965	7.150%	No	16,965
##	FY 2023	Lower Snake Fish and Wildlife	LSFW	1983	2033	30,488	9,472	7.150%	No	9,472
##	FY 2023	John Day	COE	1995	2035	22	22	7.150%	No	22
##	FY 2023	John Day	COE	1995	2035	52	52	7.150%	No	52
##	FY 2023	John Day	COE	1995	2035	121	121	7.150%	No	121
##	FY 2023	Lower Snake Fish and Wildlife	LSFW	1985	2035	47,921	47,921	7.150%	No	47,921
##	FY 2023	Lower Monument	COE	1996	2036	264	264	7.150%	No	264
##	FY 2023	Lower Snake Fish and Wildlife	LSFW	1987	2037	72,536	72,536	7.150%	No	72,536
##	FY 2023	Libby	COE	1988	2038	18,043	14,781	7.150%	No	14,781
##	FY 2023	Lower Snake Fish and Wildlife	LSFW	1988	2038	805	805	7.150%	No	805
##	FY 2023	Little Goose	COE	1995	2040	17	17	7.150%	No	17
##	FY 2023	Little Goose	COE	1995	2040	450	450	7.150%	No	450
##	FY 2023	Little Goose	COE	1995	2040	733	733	7.150%	No	733
##	FY 2023	Lower Snake Fish and Wildlife	LSFW	1990	2040	1,557	1,557	7.150%	No	1,557
##	FY 2023	Ice Harbor	COE	1996	2041	371	371	7.150%	No	371
##	FY 2023	Lower Snake Fish and Wildlife	LSFW	1991	2041	4,411	4,411	7.150%	No	4,411
##	FY 2023	Lower Snake Fish and Wildlife	LSFW	1993	2043	71,632	71,632	7.150%	No	54,457
##		FY 2023 Subtotal:	-	-	-	471,398	436,251	-	-	419,076
##	FY 2024	Conservation	-	2012	2024	104,000	104,000	4.660%	No	104,000
##	FY 2024	Fish and Wildlife	-	2009	2024	20,000	20,000	4.556%	No	20,000
##	FY 2024	Lower Snake Fish and Wildlife	LSFW	1993	2043	71,632	17,175	7.150%	No	17,175
##	FY 2024	Bonneville 2nd Powerhouse	COE	1994	2044	5,700	5,700	7.150%	No	5,700
##	FY 2024	Chief Joseph	COE	1994	2044	4,280	4,017	7.150%	No	4,017
##	FY 2024	Columbia Basin 3rd Powerhouse	BOR	1994	2044	12,631	12,631	7.150%	No	12,631
##	FY 2024	Lower Snake Fish and Wildlife	LSFW	1994	2044	4,722	4,722	7.150%	No	4,722
##	FY 2024	Albeni Falls	COE	1995	2045	443	443	7.150%	No	443
##	FY 2024	Albeni Falls	COE	1995	2045	531	531	7.150%	No	531
##	FY 2024	Albeni Falls	COE	1995	2045	1,105	1,105	7.150%	No	1,105
##	FY 2024	Bonneville 2nd Powerhouse	COE	1995	2045	3,791	3,791	7.150%	No	3,791
##	FY 2024	Bonneville Dam	COE	1995	2045	243	243	7.150%	No	243
##	FY 2024	Bonneville Dam	COE	1995	2045	410	410	7.150%	No	410
##	FY 2024	Bonneville Dam	COE	1995	2045	440	440	7.150%	No	440
##	FY 2024	Chief Joseph	COE	1995	2045	147	147	7.150%	No	147
##	FY 2024	Chief Joseph	COE	1995	2045	562	562	7.150%	No	562
##	FY 2024	Chief Joseph	COE	1995	2045	712	712	7.150%	No	712
##	FY 2024	Chief Joseph	COE	1995	2045	784	784	7.150%	No	784
##	FY 2024	Columbia Basin	BOR	1995	2045	287	287	7.150%	No	287

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Fiscal Year	Project	Appropriation Type	In Service	Due Date	Original Principal	Current Balance	Rate	Rollover	Amount Amortized	
##	FY 2024	Columbia Basin	BOR	1995	2045	2,511	2,453	7.150%	No	2,453
##	FY 2024	Columbia River Fish Mitigation	COE	1995	2045	43,343	39,282	7.150%	No	39,282
##	FY 2024	Detroit Lake/Big Cliff	COE	1995	2045	38	38	7.150%	No	38
##	FY 2024	Dworshak	COE	1995	2045	1,162	1,162	7.150%	No	1,162
##	FY 2024	Hungry Horse Dam	BOR	1995	2045	6,190	6,190	7.150%	No	6,190
##	FY 2024	John Day	COE	1995	2045	37	37	7.150%	No	37
##	FY 2024	John Day	COE	1995	2045	608	608	7.150%	No	608
##	FY 2024	John Day	COE	1995	2045	7,653	7,653	7.150%	No	7,653
##	FY 2024	Lookout Dam	COE	1995	2045	33	33	7.150%	No	33
##	FY 2024	Lookout Dam	COE	1995	2045	80	39	7.150%	No	39
##	FY 2024	Lost Creek	COE	1995	2045	94	94	7.150%	No	94
##	FY 2024	Lower Monument	COE	1995	2045	41	41	7.150%	No	41
##	FY 2024	Lower Monument	COE	1995	2045	99	99	7.150%	No	99
##	FY 2024	Lower Monument	COE	1995	2045	624	624	7.150%	No	624
##	FY 2024	Lower Monument	COE	1995	2045	1,122	1,122	7.150%	No	1,122
##	FY 2024	McNary	COE	1995	2045	16	16	7.150%	No	16
##	FY 2024	Boise	BOR	1996	2046	442	442	7.150%	No	442
##	FY 2024	Boise	BOR	1996	2046	656	656	7.150%	No	656
##	FY 2024	Bonneville 2nd Powerhouse	COE	1996	2046	376	376	7.150%	No	376
##	FY 2024	Bonneville Dam	COE	1996	2046	18	18	7.150%	No	18
##	FY 2024	Bonneville Dam	COE	1996	2046	18	18	7.150%	No	18
##	FY 2024	Bonneville Dam	COE	1996	2046	80	80	7.150%	No	80
##	FY 2024	Bonneville Dam	COE	1996	2046	109	109	7.150%	No	109
##	FY 2024	Bonneville Dam	COE	1996	2046	142	142	7.150%	No	142
##	FY 2024	Bonneville Dam	COE	1996	2046	223	223	7.150%	No	223
##	FY 2024	Bonneville Dam	COE	1996	2046	751	751	7.150%	No	751
##	FY 2024	Bonneville Dam	COE	1996	2046	1,322	1,322	7.150%	No	1,322
##	FY 2024	Chief Joseph	COE	1996	2046	3	3	7.150%	No	3
##	FY 2024	Chief Joseph	COE	1996	2046	4	4	7.150%	No	4
##	FY 2024	Chief Joseph	COE	1996	2046	355	355	7.150%	No	355
##	FY 2024	Chief Joseph	COE	1996	2046	729	729	7.150%	No	729
##	FY 2024	Columbia Basin	BOR	1996	2046	368	368	7.150%	No	368
##	FY 2024	Columbia Basin	BOR	1996	2046	426	426	7.150%	No	426
##	FY 2024	Columbia River Fish Mitigation	COE	1996	2046	2,431	2,431	7.150%	No	2,431
##	FY 2024	Dworshak	COE	1996	2046	3	3	7.150%	No	3
##	FY 2024	Dworshak	COE	1996	2046	4	4	7.150%	No	4
##	FY 2024	Dworshak	COE	1996	2046	46	46	7.150%	No	46
##	FY 2024	Green Peter/Foster	COE	1996	2046	26	26	7.150%	No	26
##	FY 2024	Hills Creek	COE	1996	2046	28	28	7.150%	No	28
##	FY 2024	Hungry Horse Dam	BOR	1996	2046	2	2	7.150%	No	2
##	FY 2024	Hungry Horse Dam	BOR	1996	2046	15	15	7.150%	No	15
##	FY 2024	Little Goose	COE	1996	2046	10	10	7.150%	No	10
##	FY 2024	Little Goose	COE	1996	2046	10	10	7.150%	No	10
##	FY 2024	Little Goose	COE	1996	2046	211	211	7.150%	No	211
##	FY 2024	Little Goose	COE	1996	2046	241	241	7.150%	No	241
##	FY 2024	Little Goose	COE	1996	2046	520	520	7.150%	No	520
##	FY 2024	Little Goose	COE	1996	2046	3,909	3,909	7.150%	No	3,909
##	FY 2024	Lost Creek	COE	1996	2046	24	24	7.150%	No	24
##	FY 2024	Lower Granite	COE	1996	2046	9	9	7.150%	No	9
##	FY 2024	Lower Granite	COE	1996	2046	625	625	7.150%	No	625
##	FY 2024	Lower Monument	COE	1996	2046	10	10	7.150%	No	10
##	FY 2024	Lower Snake Fish and Wildlife	LSFW	1996	2046	12,085	12,085	7.150%	No	12,085
##	FY 2024	McNary	COE	1996	2046	619	619	7.150%	No	619
##	FY 2024	The Dalles	COE	1996	2046	1,991	1,991	7.150%	No	1,991
##	FY 2024	Albeni Falls	COE	1997	2047	431	431	7.150%	No	431
##	FY 2024	Boise	BOR	1997	2047	2,266	2,266	7.150%	No	2,266
##	FY 2024	Bonneville Dam	COE	1997	2047	161	161	7.150%	No	161
##	FY 2024	Chief Joseph	COE	1997	2047	657	657	7.150%	No	657
##	FY 2024	Columbia Basin	BOR	1997	2047	3,393	3,393	7.150%	No	3,393
##	FY 2024	Cougar	COE	1997	2047	26	26	7.150%	No	26
##	FY 2024	Dworshak	COE	1997	2047	7,588	7,588	7.150%	No	7,588
##	FY 2024	Hungry Horse Dam	BOR	1997	2047	111	111	7.150%	No	111
##	FY 2024	Ice Harbor	COE	1997	2047	67	67	7.150%	No	67
##	FY 2024	John Day	COE	1997	2047	179	179	7.150%	No	179
##	FY 2024	Libby	COE	1997	2047	660	660	7.150%	No	660

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Fiscal Year	Project	Appropriation Type	In Service	Due Date	Original Principal	Current Balance	Rate	Rollover	Amount Amortized	
##	FY 2024	Little Goose	COE	1997	2047	1	1	7.150%	No	1
##	FY 2024	Lower Granite	COE	1997	2047	677	677	7.150%	No	677
##	FY 2024	Lower Snake Fish and Wildlife	LSFW	1997	2047	2,173	2,173	7.150%	No	2,173
##	FY 2024	Minidoka/Palispades	BOR	1997	2047	50,911	50,911	7.150%	No	50,911
##	FY 2024	Albeni Falls	-	2014	2059	171,480	171,480	6.280%	No	171,480
##	FY 2024	Albeni Falls	-	2015	2060	170,668	170,668	6.280%	No	5,865
##		FY 2024 Subtotal:	-	-	-	736,361	677,481	-	-	512,678
##	FY 2025	Conservation	-	2013	2025	111,000	111,000	5.280%	No	111,000
##	FY 2025	Albeni Falls	-	2015	2060	170,668	164,803	6.280%	No	164,803
##	FY 2025	Albeni Falls	-	2016	2061	165,866	165,866	6.280%	No	165,866
##	FY 2025	Albeni Falls	-	2017	2062	167,578	167,578	6.280%	No	167,578
##	FY 2025	Albeni Falls	-	2018	2063	159,168	159,168	6.280%	No	159,168
##	FY 2025	Albeni Falls	-	2019	2064	159,097	159,097	6.280%	No	19,373
##		FY 2025 Subtotal:	-	-	-	933,377	927,512	-	-	787,788
##	FY 2026	Columbia Basin	BOR	1996	2026	72	72	7.150%	No	72
##	FY 2026	Fish and Wildlife	-	2011	2026	50,000	50,000	4.440%	No	50,000
##	FY 2026	Fish and Wildlife	-	2011	2026	15,000	15,000	4.400%	No	15,000
##	FY 2026	Fish and Wildlife	-	2011	2026	25,000	25,000	4.340%	No	25,000
##	FY 2026	Albeni Falls	-	2019	2064	159,097	139,724	6.280%	No	139,724
##	FY 2026	Albeni Falls	-	2020	2065	159,073	159,073	6.280%	No	159,073
##	FY 2026	Albeni Falls	-	2021	2066	159,073	159,073	6.280%	No	159,073
##	FY 2026	Albeni Falls	-	2022	2067	159,073	159,073	6.280%	No	159,073
##	FY 2026	Albeni Falls	-	2023	2068	159,073	159,073	6.280%	No	112,236
##		FY 2026 Subtotal:	-	-	-	885,461	866,016	-	-	819,179
##	FY 2027	Fish and Wildlife	-	2012	2027	50,000	50,000	4.880%	No	50,000
##	FY 2027	Bureau Direct	-	2013	2058	225,694	225,694	6.280%	No	135,085
##	FY 2027	Albeni Falls	-	2023	2068	159,073	46,837	6.280%	No	46,837
##	FY 2027	Albeni Falls	-	2024	2069	159,073	159,073	6.280%	No	159,073
##	FY 2027	Albeni Falls	-	2025	2070	159,073	159,073	6.280%	No	159,073
##	FY 2027	Albeni Falls	-	2026	2071	159,073	159,073	6.280%	No	159,073
##	FY 2027	Albeni Falls	-	2027	2072	159,073	159,073	6.280%	No	159,073
##		FY 2027 Subtotal:	-	-	-	1,071,059	958,823	-	-	868,213
##	FY 2028	Fish and Wildlife	-	2013	2028	50,000	50,000	5.450%	No	50,000
##	FY 2028	Bonneville Dam	COE	1999	2049	19,368	19,368	5.375%	No	19,368
##	FY 2028	Columbia River Fish Mitigation	COE	1999	2049	14,115	14,115	5.375%	No	14,115
##	FY 2028	Dworshak	COE	1999	2049	630	630	5.375%	No	630
##	FY 2028	Ice Harbor	COE	1999	2049	5,516	5,516	5.375%	No	5,516
##	FY 2028	John Day	COE	1999	2049	3,510	3,510	5.375%	No	3,510
##	FY 2028	Lower Granite	COE	1999	2049	856	856	5.375%	No	856
##	FY 2028	Lower Snake Fish and Wildlife	LSFW	1999	2049	7	7	5.375%	No	7
##	FY 2028	Bonneville Dam	COE	2000	2050	24,446	24,446	6.125%	No	24,446
##	FY 2028	Columbia River Fish Mitigation	COE	2000	2050	47,006	47,006	6.125%	No	47,006
##	FY 2028	Hills Creek	COE	2000	2050	2,630	2,630	6.125%	No	2,630
##	FY 2028	Ice Harbor	COE	2000	2050	548	548	6.125%	No	548
##	FY 2028	John Day	COE	2000	2050	2,761	2,761	6.125%	No	2,761
##	FY 2028	Lookout Dam	COE	2000	2050	5,098	5,098	6.125%	No	5,098
##	FY 2028	Lower Snake Fish and Wildlife	LSFW	2000	2050	1,529	1,529	6.125%	No	1,529
##	FY 2028	The Dalles	COE	2000	2050	2,588	2,588	6.125%	No	2,588
##	FY 2028	Bonneville Dam	COE	2001	2051	2,530	2,530	5.875%	No	2,530
##	FY 2028	Chief Joseph	COE	2001	2051	345	345	5.875%	No	345
##	FY 2028	Columbia Basin	BOR	2001	2051	69,226	69,226	5.875%	No	69,226
##	FY 2028	Columbia River Fish Mitigation	COE	2001	2051	6,168	6,168	5.875%	No	6,168
##	FY 2028	Detroit Lake/Big Cliff	COE	2001	2051	282	282	5.875%	No	282
##	FY 2028	Green Peter/Foster	COE	2001	2051	200	200	5.875%	No	200
##	FY 2028	Hills Creek	COE	2001	2051	8	8	5.875%	No	8
##	FY 2028	Hungry Horse Dam	BOR	2001	2051	552	552	5.875%	No	552
##	FY 2028	Ice Harbor	COE	2001	2051	764	764	5.875%	No	764
##	FY 2028	John Day	COE	2001	2051	619	619	5.875%	No	619
##	FY 2028	Libby	COE	2001	2051	5,562	5,562	5.875%	No	5,562
##	FY 2028	Little Goose	COE	2001	2051	4,608	4,608	5.875%	No	4,608
##	FY 2028	Lost Creek	COE	2001	2051	154	154	5.875%	No	154
##	FY 2028	Lower Granite	COE	2001	2051	2,025	2,025	5.875%	No	2,025
##	FY 2028	Lower Monument	COE	2001	2051	3,301	3,301	5.875%	No	3,301
##	FY 2028	Lower Snake Fish and Wildlife	LSFW	2001	2051	325	325	5.875%	No	325
##	FY 2028	McNary	COE	2001	2051	1,046	1,046	5.875%	No	1,046

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A	B	C	D	E	F	G	H	I	J	
Fiscal Year	Project	Appropriation Type	In Service	Due Date	Original Principal	Current Balance	Rate	Rollover	Amount Amortized	
##	FY 2028	Minidoka/Palisades	BOR	2001	2051	42	42	5.875%	No	42
##	FY 2028	Rogue River Projects - Green Springs	BOR	2001	2051	11,145	11,145	5.875%	No	11,145
##	FY 2028	Yakima Roza	BOR	2001	2051	15	14	5.875%	No	14
##	FY 2028	Bonneville Dam	COE	2002	2052	448	448	5.500%	No	448
##	FY 2028	Chief Joseph	COE	2002	2052	2	2	5.500%	No	2
##	FY 2028	Columbia River Fish Mitigation	COE	2002	2052	8,797	8,797	5.500%	No	8,797
##	FY 2028	Detroit Lake/Big Cliff	COE	2002	2052	18	18	5.500%	No	18
##	FY 2028	Dworshak	COE	2002	2052	199	199	5.500%	No	199
##	FY 2028	Hills Creek	COE	2002	2052	2	2	5.500%	No	2
##	FY 2028	Ice Harbor	COE	2002	2052	1,014	1,014	5.500%	No	1,014
##	FY 2028	Little Goose	COE	2002	2052	27	27	5.500%	No	27
##	FY 2028	Lower Granite	COE	2002	2052	1,275	1,275	5.500%	No	1,275
##	FY 2028	Lower Monument	COE	2002	2052	29	29	5.500%	No	29
##	FY 2028	Lower Snake Fish and Wildlife	LSFW	2002	2052	890	890	5.500%	No	890
##	FY 2028	The Dalles	COE	2002	2052	1,226	1,226	5.500%	No	1,226
##	FY 2028	Columbia River Fish Mitigation	COE	2003	2053	68,440	68,440	5.125%	No	16,829
##	FY 2028	Ice Harbor	COE	2003	2053	50	50	5.125%	No	50
##	FY 2028	Little Goose	COE	2003	2053	146	146	5.125%	No	146
##	FY 2028	Lookout Dam	COE	2003	2053	135	135	5.125%	No	135
##	FY 2028	Lower Granite	COE	2003	2053	42	42	5.125%	No	42
##	FY 2028	Lower Monument	COE	2003	2053	22	22	5.125%	No	22
##	FY 2028	Lower Snake Fish and Wildlife	LSFW	2003	2053	98	98	5.125%	No	98
##	FY 2028	McNary	COE	2003	2053	97	97	5.750%	No	97
##	FY 2028	Bonneville Dam	COE	2004	2054	26,741	26,741	5.375%	No	26,741
##	FY 2028	Columbia River Fish Mitigation	COE	2004	2054	60,581	60,581	5.375%	No	60,581
##	FY 2028	Cougar	COE	2004	2054	15,748	15,748	5.375%	No	15,748
##	FY 2028	Ice Harbor	COE	2004	2054	3,321	3,321	5.375%	No	3,321
##	FY 2028	John Day	COE	2004	2054	2,830	2,830	5.375%	No	2,830
##	FY 2028	Little Goose	COE	2004	2054	67	67	5.375%	No	68
##	FY 2028	Lower Monument	COE	2004	2054	3,423	3,423	5.375%	No	3,423
##	FY 2028	Lower Snake Fish and Wildlife	LSFW	2004	2054	230	230	5.375%	No	230
##	FY 2028	McNary	COE	2004	2054	6,138	6,138	5.375%	No	6,138
##	FY 2028	The Dalles	COE	2004	2054	182	182	5.375%	No	182
##	FY 2028	Bureau Direct	-	2012	2057	211,051	211,051	6.010%	No	211,051
##	FY 2028	Bureau Direct	-	2013	2058	225,694	90,609	6.280%	No	90,609
##	FY 2028	Albeni Falls	-	2028	2073	159,073	159,073	6.280%	No	159,073
##		FY 2028 Subtotal:	-	-	-	1,087,558	952,473	-	-	900,862
##	FY 2029	Bonneville Dam	COE	2003	2053	4,581	4,581	5.125%	No	4,581
##	FY 2029	Chief Joseph	COE	2003	2053	992	992	5.125%	No	992
##	FY 2029	Columbia River Fish Mitigation	COE	2003	2053	68,440	51,610	5.125%	No	51,610
##	FY 2029	Detroit Lake/Big Cliff	COE	2003	2053	223	223	5.125%	No	223
##	FY 2029	Dworshak	COE	2003	2053	761	761	5.125%	No	761
##	FY 2029	Albeni Falls	COE	2005	2055	481	481	5.125%	No	481
##	FY 2029	Boise	BOR	2005	2055	903	903	5.125%	No	903
##	FY 2029	Bonneville Dam	COE	2005	2055	19,725	19,725	5.125%	No	19,725
##	FY 2029	Columbia Basin	BOR	2005	2055	10,963	10,963	5.125%	No	10,963
##	FY 2029	Columbia River Fish Mitigation	COE	2005	2055	52,039	52,039	5.125%	No	52,039
##	FY 2029	Cougar	COE	2005	2055	35,317	35,317	5.125%	No	35,317
##	FY 2029	Detroit Lake/Big Cliff	COE	2005	2055	1,031	1,031	5.125%	No	1,031
##	FY 2029	Dworshak	COE	2005	2055	713	713	5.125%	No	713
##	FY 2029	Hills Creek	COE	2005	2055	46	46	5.125%	No	46
##	FY 2029	Hungry Horse Dam	BOR	2005	2055	2,951	2,951	5.125%	No	2,951
##	FY 2029	John Day	COE	2005	2055	2,827	2,827	5.125%	No	2,828
##	FY 2029	Lookout Dam	COE	2005	2055	7,355	7,355	5.125%	No	7,355
##	FY 2029	Lower Granite	COE	2005	2055	393	393	5.125%	No	393
##	FY 2029	Lower Monument	COE	2005	2055	527	527	5.125%	No	527
##	FY 2029	Lower Snake Fish and Wildlife	LSFW	2005	2055	4	4	5.125%	No	4
##	FY 2029	McNary	COE	2005	2055	550	550	5.125%	No	550
##	FY 2029	The Dalles	COE	2005	2055	36,019	36,019	5.125%	No	36,019
##	FY 2029	Yakima Chandler/Kenniwick	BOR	2005	2055	833	833	5.125%	No	833
##	FY 2029	Columbia River Fish Mitigation	COE	2006	2056	366,395	366,395	4.500%	No	230,012
##	FY 2029	John Day	COE	2006	2056	601	601	4.500%	No	601
##	FY 2029	Lower Monument	COE	2006	2056	285	285	4.500%	No	285
##	FY 2029	Lower Snake Fish and Wildlife	LSFW	2006	2056	379	379	4.500%	No	379
##	FY 2029	McNary	COE	2006	2056	4,080	4,080	4.500%	No	4,080

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A	B	C	D	E	F	G	H	I	J	
Fiscal Year	Project	Appropriation Type	In Service	Due Date	Original Principal	Current Balance	Rate	Rollover	Amount Amortized	
##	FY 2029	The Dalles	COE	2006	2056	2,030	2,030	4.500%	No	2,030
##	FY 2029	Boise	BOR	2007	2057	76	76	5.000%	No	76
##	FY 2029	Bonneville Dam	COE	2007	2057	1,124	1,124	5.000%	No	1,124
##	FY 2029	Columbia Basin	BOR	2007	2057	929	929	5.000%	No	929
##	FY 2029	Columbia River Fish Mitigation	COE	2007	2057	53,525	53,525	5.000%	No	53,525
##	FY 2029	Cougar	COE	2007	2057	521	521	5.000%	No	521
##	FY 2029	Hungry Horse Dam	BOR	2007	2057	294	294	5.000%	No	294
##	FY 2029	John Day	COE	2007	2057	233	233	5.000%	No	233
##	FY 2029	Lookout Dam	COE	2007	2057	572	572	5.000%	No	572
##	FY 2029	The Dalles	COE	2007	2057	140	140	5.000%	No	140
##	FY 2029	Boise	BOR	2008	2058	64	64	4.875%	No	64
##	FY 2029	Bonneville Dam	COE	2008	2058	14,609	14,609	4.875%	No	14,609
##	FY 2029	Chief Joseph	COE	2008	2058	3,500	3,500	4.875%	No	3,500
##	FY 2029	Columbia Basin	BOR	2008	2058	835	835	4.875%	No	835
##	FY 2029	Columbia River Fish Mitigation	COE	2008	2058	36,554	36,554	4.875%	No	36,554
##	FY 2029	Dworshak	COE	2008	2058	10	10	4.875%	No	10
##	FY 2029	Hungry Horse Dam	BOR	2008	2058	76	76	4.875%	No	76
##	FY 2029	Ice Harbor	COE	2008	2058	14	14	4.875%	No	14
##	FY 2029	Libby	COE	2008	2058	1,567	1,567	4.875%	No	1,567
##	FY 2029	Little Goose	COE	2008	2058	13	13	4.875%	No	13
##	FY 2029	Lower Granite	COE	2008	2058	24	24	4.875%	No	24
##	FY 2029	Lower Monument	COE	2008	2058	9	9	4.875%	No	9
##	FY 2029	Lower Snake Fish and Wildlife	LSFW	2008	2058	74	74	4.875%	No	74
##	FY 2029	McNary	COE	2008	2058	215	215	4.875%	No	215
##	FY 2029	The Dalles	COE	2008	2058	1,652	1,652	4.875%	No	1,652
##	FY 2029	Columbia River Fish Mitigation	-	2012	2062	103,279	103,279	4.510%	No	103,279
##	FY 2029	Columbia River Fish Mitigation	-	2013	2063	116,473	116,473	4.980%	No	116,473
##	FY 2029	Albeni Falls	-	2029	2074	159,073	159,073	6.280%	No	159,073
##		FY 2029 Subtotal:	-	-	-	1,116,897	1,100,068	-	-	963,685
##	FY 2030	Boise	BOR	2006	2056	15	15	4.500%	No	15
##	FY 2030	Bonneville Dam	COE	2006	2056	2,628	2,628	4.500%	No	2,628
##	FY 2030	Columbia Basin	BOR	2006	2056	1,987	1,987	4.500%	No	1,987
##	FY 2030	Columbia River Fish Mitigation	COE	2006	2056	366,395	366,395	4.500%	No	366,395
##	FY 2030	Cougar	COE	2006	2056	474	474	4.500%	No	474
##	FY 2030	Dworshak	COE	2006	2056	73	73	4.500%	No	73
##	FY 2030	Albeni Falls	COE	2009	2059	57	57	4.375%	No	57
##	FY 2030	Boise	BOR	2009	2059	2	2	4.375%	No	2
##	FY 2030	Bonneville Dam	COE	2009	2059	2,744	2,744	4.375%	No	2,744
##	FY 2030	Chief Joseph	COE	2009	2059	24,727	24,727	4.375%	No	24,727
##	FY 2030	Columbia Basin	BOR	2009	2059	1,338	1,338	4.375%	No	1,338
##	FY 2030	Columbia River Fish Mitigation	COE	2009	2059	103,203	103,203	4.375%	No	103,203
##	FY 2030	Cougar	COE	2009	2059	121	121	4.375%	No	121
##	FY 2030	Dworshak	COE	2009	2059	2,496	2,496	4.375%	No	2,496
##	FY 2030	Hungry Horse Dam	BOR	2009	2059	60	60	4.375%	No	60
##	FY 2030	Ice Harbor	COE	2009	2059	2,615	2,615	4.375%	No	2,615
##	FY 2030	John Day	COE	2009	2059	1,548	1,548	4.375%	No	1,548
##	FY 2030	Little Goose	COE	2009	2059	3,171	3,171	4.375%	No	3,171
##	FY 2030	Lower Granite	COE	2009	2059	5,669	5,669	4.375%	No	5,669
##	FY 2030	Lower Monument	COE	2009	2059	2,332	2,332	4.375%	No	2,332
##	FY 2030	Lower Snake Fish and Wildlife	LSFW	2009	2059	1,540	1,540	4.375%	No	1,540
##	FY 2030	Yakima Chandler/Kenniwick	BOR	2009	2059	15	15	4.375%	No	15
##	FY 2030	Albeni Falls	COE	2010	2060	42	42	4.250%	No	42
##	FY 2030	Columbia Basin	BOR	2010	2060	773	773	4.250%	No	773
##	FY 2030	Columbia River Fish Mitigation	COE	2010	2060	56,586	56,586	4.250%	No	56,586
##	FY 2030	Cougar	COE	2010	2060	256	256	4.250%	No	256
##	FY 2030	Green Peter/Foster	COE	2010	2060	1	1	4.250%	No	1
##	FY 2030	Hungry Horse Dam	BOR	2010	2060	783	783	4.250%	No	783
##	FY 2030	Ice Harbor	COE	2010	2060	207	207	4.250%	No	207
##	FY 2030	John Day	COE	2010	2060	356	356	4.250%	No	356
##	FY 2030	Libby	COE	2010	2060	40	40	4.250%	No	40
##	FY 2030	Little Goose	COE	2010	2060	30	30	4.250%	No	30
##	FY 2030	Lower Granite	COE	2010	2060	1,157	1,157	4.250%	No	1,157
##	FY 2030	Lower Snake Fish and Wildlife	LSFW	2010	2060	6	6	4.250%	No	6
##	FY 2030	Columbia River Fish Mitigation	-	2011	2061	205,834	205,834	3.750%	No	205,834
##	FY 2030	Albeni Falls	-	2030	2075	159,073	159,073	6.280%	No	159,073

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A	B	C	D	E	F	G	H	I	J
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##	FY 2030 Subtotal:	-	-	-	948,355	718,343	-	-	718,343
##	FY 2031 Albeni Falls	-	2031	2076	159,073	159,073	6.280%	No	159,073
##	FY 2031 Subtotal:	-	-	-	159,073	159,073	-	-	159,073
##	FY 2032 Albeni Falls	-	2032	2077	159,073	159,073	6.280%	No	159,073
##	FY 2032 Subtotal:	-	-	-	159,073	159,073	-	-	159,073
##	FY 2033 Lower Snake Fish and Wildlife	LSFW	1983	2033	30,488		7.150%	No	
##	FY 2033 Albeni Falls	-	2033	2078	159,073	159,073	6.280%	No	159,073
##	FY 2033 Subtotal:	-	-	-	189,561	159,073	-	-	159,073
##	FY 2034 Albeni Falls	-	2034	2079	159,073	159,073	6.280%	No	159,073
##	FY 2034 Subtotal:	-	-	-	159,073	159,073	-	-	159,073
##	FY 2035 Bureau Direct	-	2011	2035	20,000	20,000	4.210%	No	20,000
##	FY 2035 Albeni Falls	-	2035	2080	159,073	159,073	6.280%	No	159,073
##	FY 2035 Subtotal:	-	-	-	179,073	179,073	-	-	179,073
##	FY 2036 Bureau Direct	-	2011	2036	30,000	30,000	5.430%	No	30,000
##	FY 2036 Albeni Falls	-	2036	2081	159,073	159,073	6.280%	No	159,073
##	FY 2036 Subtotal:	-	-	-	189,073	189,073	-	-	189,073
##	FY 2037 Bureau Direct	-	2011	2037	35,000	35,000	5.530%	No	35,000
##	FY 2037 Albeni Falls	-	2037	2082	159,073	159,073	6.280%	No	159,073
##	FY 2037 Subtotal:	-	-	-	194,073	194,073	-	-	194,073
##	FY 2038 Bureau Direct	-	2011	2038	30,000	30,000	5.640%	No	30,000
##	FY 2038 Albeni Falls	-	2038	2083	159,073	159,073	6.280%	No	159,073
##	FY 2038 Subtotal:	-	-	-	189,073	189,073	-	-	189,073
##	FY 2039 Bureau Direct	-	2009	2039	25,000	25,000	5.192%	No	25,000
##	FY 2039 Bureau Direct	-	2011	2039	35,000	35,000	5.040%	No	35,000
##	FY 2039 Albeni Falls	-	2039	2084	159,073	159,073	6.280%	No	159,073
##	FY 2039 Subtotal:	-	-	-	219,073	219,073	-	-	219,073
##	FY 2040 Bureau Direct	-	2011	2040	50,000	50,000	5.000%	No	50,000
##	FY 2040 Albeni Falls	-	2040	2085	159,073	159,073	6.280%	No	159,073
##	FY 2040 Subtotal:	-	-	-	209,073	209,073	-	-	209,073
##	FY 2041 Albeni Falls	-	2041	2086	159,073	159,073	6.280%	No	159,073
##	FY 2041 Subtotal:	-	-	-	159,073	159,073	-	-	159,073
##	FY 2042 Albeni Falls	-	2042	2087	159,073	159,073	6.280%	No	159,073
##	FY 2042 Subtotal:	-	-	-	159,073	159,073	-	-	159,073
##	FY 2043 Albeni Falls	-	2043	2088	159,073	159,073	6.280%	No	159,073
##	FY 2043 Subtotal:	-	-	-	159,073	159,073	-	-	159,073
##	FY 2044 Albeni Falls	-	2044	2089	159,073	159,073	6.280%	No	159,073
##	FY 2044 Subtotal:	-	-	-	159,073	159,073	-	-	159,073
##	FY 2045 Columbia Basin	BOR	1995	2045	287		7.150%	No	
##	FY 2045 Albeni Falls	-	2045	2090	159,073	159,073	6.280%	No	159,073
##	FY 2045 Subtotal:	-	-	-	159,360	159,073	-	-	159,073
##	FY 2046 Boise	BOR	1996	2046	442		7.150%	No	
##	FY 2046 Albeni Falls	-	2046	2091	159,073	159,073	6.280%	No	159,073
##	FY 2046 Subtotal:	-	-	-	159,515	159,073	-	-	159,073
##	FY 2047 Hungry Horse Dam	BOR	1997	2047	111		7.150%	No	
##	FY 2047 Minidoka/Palisades	BOR	1997	2047	50,911	50,911	7.150%	No	
##	FY 2047 Albeni Falls	-	2047	2092	159,073	159,073	6.280%	No	159,073
##	FY 2047 Subtotal:	-	-	-	210,095	209,984	-	-	159,073
##	FY 2048 Albeni Falls	-	2048	2093	159,073	159,073	6.280%	No	159,073
##	FY 2048 Subtotal:	-	-	-	159,073	159,073	-	-	159,073
##	FY 2049 Bonneville Dam	COE	1999	2049	19,368		5.375%	No	
##	FY 2049 Columbia River Fish Mitigation	COE	1999	2049	14,115		5.375%	No	
##	FY 2049 John Day	COE	1999	2049	3,510		5.375%	No	
##	FY 2049 Albeni Falls	-	2049	2094	159,073	159,073	6.280%	No	159,073
##	FY 2049 Subtotal:	-	-	-	196,065	159,073	-	-	159,073
##	FY 2050 Bonneville Dam	COE	2000	2050	24,446		6.125%	No	
##	FY 2050 Hills Creek	COE	2000	2050	2,630		6.125%	No	
##	FY 2050 Ice Harbor	COE	2000	2050	548		6.125%	No	
##	FY 2050 John Day	COE	2000	2050	2,761		6.125%	No	
##	FY 2050 Lookout Dam	COE	2000	2050	5,098		6.125%	No	
##	FY 2050 The Dalles	COE	2000	2050	2,588		6.125%	No	
##	FY 2050 Albeni Falls	-	2050	2095	159,073	159,073	6.280%	No	159,073
##	FY 2050 Subtotal:	-	-	-	197,145	159,073	-	-	159,073
##	FY 2051 Bonneville Dam	COE	2001	2051	2,530		5.875%	No	
##	FY 2051 Chief Joseph	COE	2001	2051	345		5.875%	No	
##	FY 2051 Detroit Lake/Big Cliff	COE	2001	2051	282		5.875%	No	

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##	FY 2051	Green Peter/Foster	COE	2001	2051	200		5.875%	No	
##	FY 2051	Hungry Horse Dam	BOR	2001	2051	552		5.875%	No	
##	FY 2051	Ice Harbor	COE	2001	2051	764		5.875%	No	
##	FY 2051	Little Goose	COE	2001	2051	4,608		5.875%	No	
##	FY 2051	Lost Creek	COE	2001	2051	154		5.875%	No	
##	FY 2051	Lower Monument	COE	2001	2051	3,301		5.875%	No	
##	FY 2051	Albeni Falls	-	2051	2096	159,073	159,073	6.280%	No	159,073
##		FY 2051 Subtotal:	-	-	-	171,811	159,073	-	-	159,073
##	FY 2052	Detroit Lake/Big Cliff	COE	2002	2052	18		5.500%	No	
##	FY 2052	Dworshak	COE	2002	2052	199		5.500%	No	
##	FY 2052	Hills Creek	COE	2002	2052	2		5.500%	No	
##	FY 2052	Little Goose	COE	2002	2052	27		5.500%	No	
##	FY 2052	Lower Monument	COE	2002	2052	29		5.500%	No	
##	FY 2052	Albeni Falls	-	2052	2097	159,073	159,073	6.280%	No	159,073
##		FY 2052 Subtotal:	-	-	-	159,348	159,073	-	-	159,073
##	FY 2053	Bonneville Dam	COE	2003	2053	4,581		5.125%	No	
##	FY 2053	Detroit Lake/Big Cliff	COE	2003	2053	223		5.125%	No	
##	FY 2053	Ice Harbor	COE	2003	2053	50		5.125%	No	
##	FY 2053	Lookout Dam	COE	2003	2053	135		5.125%	No	
##	FY 2053	Lower Monument	COE	2003	2053	22		5.125%	No	
##	FY 2053	Albeni Falls	-	2053	2098	159,073	159,073	6.280%	No	159,073
##		FY 2053 Subtotal:	-	-	-	164,084	159,073	-	-	159,073
##	FY 2054	Bonneville Dam	COE	2004	2054	26,741		5.375%	No	
##	FY 2054	Ice Harbor	COE	2004	2054	3,321		5.375%	No	
##	FY 2054	Lower Monument	COE	2004	2054	3,423		5.375%	No	
##	FY 2054	Lower Snake Fish and Wildlife	LSFW	2004	2054	230		5.375%	No	
##	FY 2054	The Dalles	COE	2004	2054	182		5.375%	No	
##	FY 2054	Albeni Falls	-	2054	2099	159,073	159,073	6.280%	No	159,073
##		FY 2054 Subtotal:	-	-	-	192,970	159,073	-	-	159,073
##	FY 2055	Columbia Basin	BOR	2005	2055	10,963		5.125%	No	
##	FY 2055	Hungry Horse Dam	BOR	2005	2055	2,951		5.125%	No	
##	FY 2055	McNary	COE	2005	2055	550		5.125%	No	
##	FY 2055	The Dalles	COE	2005	2055	36,019	36,019	5.125%	No	
##	FY 2055	Yakima Chandler/Kenniwick	BOR	2005	2055	833		5.125%	No	
##	FY 2055	Albeni Falls	-	2055	2100	159,073	159,073	6.280%	No	159,073
##		FY 2055 Subtotal:	-	-	-	210,388	195,092	-	-	159,073
##	FY 2056	Columbia Basin	BOR	2006	2056	1,987		4.500%	No	
##	FY 2056	Lower Snake Fish and Wildlife	LSFW	2006	2056	379		4.500%	No	
##	FY 2056	Albeni Falls	-	2056	2101	159,073	159,073	6.280%	No	159,073
##		FY 2056 Subtotal:	-	-	-	161,439	159,073	-	-	159,073
##	FY 2057	Boise	BOR	2007	2057	76		5.000%	No	
##	FY 2057	Columbia Basin	BOR	2007	2057	929		5.000%	No	
##	FY 2057	Cougar	COE	2007	2057	521		5.000%	No	
##	FY 2057	Hungry Horse Dam	BOR	2007	2057	294		5.000%	No	
##	FY 2057	Lookout Dam	COE	2007	2057	572		5.000%	No	
##	FY 2057	Albeni Falls	-	2057	2102	159,073	159,073	6.280%	No	159,073
##		FY 2057 Subtotal:	-	-	-	161,464	159,073	-	-	159,073
##	FY 2058	Columbia Basin	BOR	2008	2058	835		4.875%	No	
##	FY 2058	Columbia River Fish Mitigation	COE	2008	2058	36,554	36,554	4.875%	No	
##	FY 2058	Dworshak	COE	2008	2058	10		4.875%	No	
##	FY 2058	Hungry Horse Dam	BOR	2008	2058	76		4.875%	No	
##	FY 2058	Libby	COE	2008	2058	1,567		4.875%	No	
##	FY 2058	Lower Granite	COE	2008	2058	24		4.875%	No	
##	FY 2058	Lower Snake Fish and Wildlife	LSFW	2008	2058	74		4.875%	No	
##	FY 2058	Albeni Falls	-	2058	2103	159,073	159,073	6.280%	No	159,073
##		FY 2058 Subtotal:	-	-	-	198,213	195,627	-	-	159,073
##	FY 2059	Albeni Falls	COE	2009	2059	57		4.375%	No	
##	FY 2059	Chief Joseph	COE	2009	2059	24,727		4.375%	No	
##	FY 2059	Hungry Horse Dam	BOR	2009	2059	60		4.375%	No	
##	FY 2059	Ice Harbor	COE	2009	2059	2,615		4.375%	No	
##	FY 2059	Little Goose	COE	2009	2059	3,171		4.375%	No	
##	FY 2059	Yakima Chandler/Kenniwick	BOR	2009	2059	15		4.375%	No	
##	FY 2059	Albeni Falls	-	2059	2104	159,073	159,073	6.280%	No	159,073
##		FY 2059 Subtotal:	-	-	-	189,719	159,073	-	-	159,073
##	FY 2060	Columbia Basin	BOR	2010	2060	773		4.250%	No	

TABLE 14B: Application of Amortization
October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

	A	B	C	D	E	F	G	H	I	J
	Fiscal Year	Project	Appropriation Type	In Service	Due Date	Original Principal	Current Balance	Rate	Rollover	Amount Amortized
##	FY 2060	Cougar	COE	2010	2060	256		4.250%	No	
##	FY 2060	Green Peter/Foster	COE	2010	2060	1		4.250%	No	
##	FY 2060	Hungry Horse Dam	BOR	2010	2060	783		4.250%	No	
##	FY 2060	Ice Harbor	COE	2010	2060	207		4.250%	No	
##	FY 2060	Libby	COE	2010	2060	40		4.250%	No	
##	FY 2060	Lower Granite	COE	2010	2060	1,157		4.250%	No	
##	FY 2060	Albeni Falls	-	2060	2105	159,073	159,073	6.280%	No	159,073
##		FY 2060 Subtotal:	-	-	-	162,290	159,073		-	159,073
##	FY 2061	Albeni Falls	-	2061	2106	159,073	159,073	6.280%	No	159,073
##		FY 2061 Subtotal:	-	-	-	159,073	159,073	-	-	159,073
##	FY 2062	Albeni Falls	-	2062	2107	159,073	159,073	6.280%	No	159,073
##		FY 2062 Subtotal:	-	-	-	159,073	159,073	-	-	159,073
##	FY 2063	Albeni Falls	-	2063	2108	159,073	159,073	6.280%	No	159,073
##		FY 2063 Subtotal:	-	-	-	159,073	159,073	-	-	159,073
##	Grand Total:		-	-	-	16,353,658	15,065,408		-	13,930,339

TABLE 14C: Summary of Interest
October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	
1		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	
2	Boise	295	295	295	295	295	295	295	295	295	295	295	295	295	295	295	54	54
3	Columbia Basin	5,423	5,423	5,423	5,423	5,423	5,423	5,423	5,423	5,418	5,418	5,418	5,392	5,392	5,392	4,897	4,897	
4	Columbia Basin 3rd Powerhouse	32,565	32,565	32,565	32,565	32,565	32,565	32,565	32,565	29,405	25,118	20,062	11,518	3,263	903	-	-	
5	Hungry Horse Dam	814	814	814	814	814	814	814	814	814	814	814	690	690	690	238	238	
6	Minidoka/Palisades	3,643	3,643	3,643	3,643	3,643	3,643	3,643	3,643	3,643	3,643	3,643	3,643	3,643	3,643	2	2	
7	Rogue River Projects - Green Springs	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655	655	
8	Yakima Chandler/Kennewick	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
9	Yakima Roza	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10	Bureau of Reclamation Subtotal:	43,437	43,437	43,437	43,437	43,437	43,437	43,437	43,437	40,273	35,985	30,930	22,236	13,981	11,621	5,890	5,890	
11	Albeni Falls	208	208	208	208	10,977	21,695	32,112	42,636	52,631	62,623	72,612	82,602	92,592	102,582	101,255	68,742	
12	Bonneville 2nd Powerhouse	26,226	26,226	26,226	26,226	26,226	26,226	26,226	26,226	26,226	26,226	26,226	25,462	5,217	705	-	-	
13	Bonneville Dam	7,840	7,840	7,840	7,840	7,840	7,840	7,840	7,840	7,840	7,840	6,720	6,718	6,681	6,681	6,401	6,401	
14	Chief Joseph	16,242	16,242	16,242	16,242	16,242	16,242	16,242	16,242	16,242	16,242	14,060	1,905	1,894	1,894	1,324	1,324	
15	Columbia River Fish Mitigation	44,763	52,482	57,140	62,940	62,940	62,940	62,940	62,940	62,940	62,940	62,940	62,940	62,940	62,940	59,958	59,958	
16	Cougar	2,722	2,722	2,722	2,722	2,722	2,722	2,722	2,722	2,722	2,722	2,722	2,722	2,722	2,722	2,720	2,720	
17	Detroit Lake/Big Cliff	85	85	85	85	85	85	85	85	85	85	85	85	85	85	82	82	
18	Dworshak	9,053	8,582	5,886	5,886	2,808	893	893	893	893	893	893	863	863	863	233	233	
19	Green Peter/Foster	14	14	14	14	14	14	14	14	14	14	14	14	14	14	12	12	
20	Hills Creek	543	543	166	166	166	166	166	166	166	166	166	166	166	166	164	164	
21	Ice Harbor	2,254	2,254	2,254	2,254	2,254	2,254	2,254	2,254	2,253	773	773	767	767	740	736	736	
22	John Day	2,070	1,433	1,433	1,433	1,433	1,433	1,433	1,433	1,433	1,433	1,433	1,433	1,433	1,419	813	813	
23	Libby	16,738	16,738	16,738	16,738	16,738	16,738	16,738	13,984	8,677	1,530	1,530	1,509	1,509	452	405	405	
24	Little Goose	4,408	4,406	4,406	4,406	4,406	4,406	4,406	4,406	4,406	860	860	860	860	774	424	424	
25	Lookout Dam	730	730	730	730	730	730	730	730	730	730	730	730	730	730	725	725	
26	Lost Creek	1,006	1,006	1,006	1,006	1,006	1,006	1,006	1,006	1,006	20	20	18	18	18	9	9	
27	Lower Granite	12,441	12,441	12,441	12,441	12,441	12,441	7,547	3,679	3,679	3,679	775	649	649	649	556	556	
28	Lower Monument	3,604	3,604	3,604	3,604	3,604	3,604	3,604	3,604	3,604	3,604	3,604	677	677	659	523	523	
29	McNary	692	692	692	692	692	692	692	692	667	667	667	667	665	665	619	619	
30	The Dalles	4,505	3,660	2,924	2,924	2,924	2,515	2,403	2,403	2,403	2,403	2,403	2,403	2,403	2,403	2,261	2,261	
31	Corps of Engineers Subtotal:	156,143	161,907	162,756	168,557	176,248	184,642	190,053	193,954	198,616	198,994	199,232	193,190	182,884	187,160	179,218	146,705	
32	Lower Snake Fish and Wildlife	16,521	16,521	16,521	16,521	16,521	16,521	16,521	16,521	16,521	16,521	16,521	16,521	16,521	2,853	268	268	
33	Lower Snake Fish & Wildlife Subtotal:	16,521	16,521	16,521	16,521	16,521	16,521	16,521	16,521	16,521	16,521	16,521	16,521	16,521	2,853	268	268	
34	Appropriation Subtotal:	216,102	221,866	222,715	228,515	236,206	244,600	250,011	253,912	255,409	251,500	246,683	231,947	213,386	201,634	185,376	152,863	
35	Bureau Direct	23,419	32,587	42,248	49,335	49,335	49,335	49,335	49,335	49,335	47,130	41,250	39,616	39,616	38,518	38,518	38,518	
36	Conservation	6,715	11,084	16,437	16,041	15,629	14,306	14,306	14,306	14,306	14,306	14,306	14,306	14,306	10,707	5,861	-	
37	Construction	1,198	1,978	2,219	2,708	2,267	2,174	1,810	1,810	978	-	-	-	-	-	-	-	
38	Fish and Wildlife	9,743	12,032	13,926	11,628	11,628	11,628	11,628	11,628	11,628	10,041	10,041	10,041	10,041	10,041	9,130	9,130	
39	(Less Interest Income)	(4,373)	(7,755)	(9,058)	(7,946)	(8,863)	(8,554)	(8,876)	(10,078)	(14,519)	(15,359)	(15,661)	(15,450)	(15,478)	(17,330)	(23,293)	(23,198)	
40	Coupon Scale Down Premiums	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
41	BPA Borrowing Subtotal:	36,702	49,926	65,772	71,766	69,997	68,889	68,203	67,001	61,728	56,118	49,936	48,513	48,485	41,937	30,217	24,450	
42	Treasury Subtotal:	36,702	49,926	65,772	71,766	69,997	68,889	68,203	67,001	61,728	56,118	49,936	48,513	48,485	41,937	30,217	24,450	
43	GRAND TOTAL:	252,803	271,791	288,486	300,280	306,203	313,489	318,214	320,913	317,138	307,618	296,619	280,460	261,871	243,571	215,593	177,314	

TABLE 14C: Summary of Interest
October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

	A	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
1		2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043
2	Boise	54	54	54	1	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Columbia Basin	4,897	4,897	830	181	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Columbia Basin 3rd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Hungry Horse Dam	238	238	206	36	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Minidoka/Palisades	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Rogue River Projects - Green Springs	655	655	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Yakima Chandler/Kennewick	43	43	43	1	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Yakima Roza	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Bureau of Reclamation Subtotal:	5,890	5,890	1,133	218	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Albeni Falls	32,940	29	29	4	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Bonneville Dam	6,401	6,401	2,252	238	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Chief Joseph	1,324	1,324	1,303	1,082	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Columbia River Fish Mitigation	59,958	59,958	51,355	20,776	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Cougar	2,720	2,720	1,874	38	-	-	-	-	-	-	-	-	-	-	-	-	-
17	Detroit Lake/Big Cliff	82	82	64	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Dworshak	233	233	189	112	-	-	-	-	-	-	-	-	-	-	-	-	-
19	Green Peter/Foster	12	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Hills Creek	164	164	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	Ice Harbor	736	736	124	123	-	-	-	-	-	-	-	-	-	-	-	-	-
22	John Day	813	813	266	83	-	-	-	-	-	-	-	-	-	-	-	-	-
23	Libby	405	405	78	2	-	-	-	-	-	-	-	-	-	-	-	-	-
24	Little Goose	424	424	141	140	-	-	-	-	-	-	-	-	-	-	-	-	-
25	Lookout Dam	725	725	406	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	Lost Creek	9	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	Lower Granite	556	556	318	297	-	-	-	-	-	-	-	-	-	-	-	-	-
28	Lower Monument	523	523	142	102	-	-	-	-	-	-	-	-	-	-	-	-	-
29	McNary	619	619	222	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	The Dalles	2,261	2,261	2,025	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	Corps of Engineers Subtotal:	110,903	77,992	60,791	22,997	-	-	-	-	-	-	-	-	-	-	-	-	-
32	Lower Snake Fish and Wildlife	268	268	89	68	-	-	-	-	-	-	-	-	-	-	-	-	-
33	Lower Snake Fish & Wildlife Subtotal:	268	268	89	68	-	-	-	-	-	-	-	-	-	-	-	-	-
34	Appropriation Subtotal:	117,061	84,150	62,012	23,283	-	-	-	-	-	-	-	-	-	-	-	-	-
35	Bureau Direct	38,518	30,035	11,661	11,661	11,661	11,661	11,661	11,661	11,661	10,819	9,190	7,254	5,562	2,500	-	-	-
36	Conservation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	Fish and Wildlife	5,165	2,725	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	(Less Interest Income)	(23,596)	(23,606)	(24,029)	(24,074)	(23,872)	(24,126)	(24,040)	(24,200)	(24,013)	(23,520)	(23,839)	(24,252)	(23,933)	(24,309)	(24,339)	(22,582)	(24,339)
40	Coupon Scale Down Premiums	5,844	11,968	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	BPA Borrowing Subtotal:	25,931	21,122	(12,368)	(12,414)	(12,212)	(12,465)	(12,380)	(12,539)	(12,352)	(12,701)	(14,649)	(16,998)	(18,371)	(21,809)	(24,339)	(22,582)	(24,339)
42	Treasury Subtotal:	25,931	21,122	(12,368)	(12,414)	(12,212)	(12,465)	(12,380)	(12,539)	(12,352)	(12,701)	(14,649)	(16,998)	(18,371)	(21,809)	(24,339)	(22,582)	(24,339)
43	GRAND TOTAL:	142,992	105,272	49,644	10,869	(12,212)	(12,465)	(12,380)	(12,539)	(12,352)	(12,701)	(14,649)	(16,998)	(18,371)	(21,809)	(24,339)	(22,582)	(24,339)

TABLE 14C: Summary of Interest
October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

	A	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX
		2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
1																	
2	Boise	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Columbia Basin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Columbia Basin 3rd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Hungry Horse Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Minidoka/Palisades	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Rogue River Projects - Green Springs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Yakima Chandler/Kenniwick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Yakima Roza	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Bureau of Reclamation Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Albeni Falls	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Bonneville Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Chief Joseph	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Columbia River Fish Mitigation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Cougar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Dworshak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	Green Peter/Foster	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Hills Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	Ice Harbor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	John Day	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	Libby	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	Little Goose	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	Lookout Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	Lost Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	Lower Granite	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	Lower Monument	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	McNary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	The Dalles	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	Corps of Engineers Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	Lower Snake Fish and Wildlife	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	Appropriation Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	Bureau Direct	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	Conservation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	Fish and Wildlife	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	(Less Interest Income)	(21,423)	(12,396)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)
40	Coupon Scale Down Premiums	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	BPA Borrowing Subtotal:	(21,423)	(12,396)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)
42	Treasury Subtotal:	(21,423)	(12,396)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)
43	GRAND TOTAL:	(21,423)	(12,396)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)	(12,675)

TABLE 14C: Summary of Interest
October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

	A	AY	AZ	BA	BB	BC
		2060	2061	2062	2063	Total
1						
2	Boise	-	-	-	-	4,394
3	Columbia Basin	-	-	-	-	96,411
4	Columbia Basin 3rd Powerhouse	-	-	-	-	350,788
5	Hungry Horse Dam	-	-	-	-	12,212
6	Minidoka/Palisades	-	-	-	-	51,007
7	Rogue River Projects - Green Springs	-	-	-	-	11,786
8	Yakima Chandler/Kennewick	-	-	-	-	824
9	Yakima Roza	-	-	-	-	15
10	Bureau of Reclamation Subtotal:	-	-	-	-	527,436
11	Albeni Falls	-	-	-	-	776,895
12	Bonneville 2nd Powerhouse	-	-	-	-	319,870
13	Bonneville Dam	-	-	-	-	133,302
14	Chief Joseph	-	-	-	-	189,853
15	Columbia River Fish Mitigation	-	-	-	-	1,158,691
16	Cougar	-	-	-	-	50,897
17	Detroit Lake/Big Cliff	-	-	-	-	1,575
18	Dworshak	-	-	-	-	41,397
19	Green Peter/Foster	-	-	-	-	238
20	Hills Creek	-	-	-	-	3,736
21	Ice Harbor	-	-	-	-	27,294
22	John Day	-	-	-	-	24,281
23	Libby	-	-	-	-	148,059
24	Little Goose	-	-	-	-	49,399
25	Lookout Dam	-	-	-	-	13,523
26	Lost Creek	-	-	-	-	9,182
27	Lower Granite	-	-	-	-	98,789
28	Lower Monument	-	-	-	-	43,989
29	McNary	-	-	-	-	12,230
30	The Dalles	-	-	-	-	<u>49,742</u>
31	Corps of Engineers Subtotal:	-	-	-	-	3,152,942
32	Lower Snake Fish and Wildlife	-	-	-	-	<u>218,853</u>
33	Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	<u>218,853</u>
34	Appropriation Subtotal:	-	-	-	-	3,899,231
35	Bureau Direct	-	-	-	-	862,931
36	Conservation	-	-	-	-	196,918
37	Construction	-	-	-	-	17,143
38	Fish and Wildlife	-	-	-	-	181,827
39	(Less Interest Income)	(12,675)	(12,675)	(12,675)	(12,675)	(874,433)
40	Coupon Scale Down Premiums	-	-	-	-	17,812
41	BPA Borrowing Subtotal:	(12,675)	(12,675)	(12,675)	(12,675)	402,198
42	Treasury Subtotal:	(12,675)	(12,675)	(12,675)	(12,675)	402,198
43	GRAND TOTAL:	(12,675)	(12,675)	(12,675)	(12,675)	4,301,429

TABLE 14D: Summary of Amortization
October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
1																		
2	Boise	-	-	-	-	-	-	-	-	-	-	-	-	-	3,365	-	-	-
3	Columbia Basin	-	-	-	-	-	-	-	72	-	360	-	-	-	6,927	-	-	-
4	Columbia Basin 3rd Powerhouse	-	-	-	-	-	-	-	44,125	59,966	70,705	119,503	115,457	33,002	12,631	-	-	-
5	Hungry Horse Dam	-	-	-	-	-	-	-	-	-	-	1,731	-	-	6,318	-	-	-
6	Minidoka/Palisades	-	-	-	-	-	-	-	-	-	-	-	-	-	50,911	-	-	-
7	Rogue River Projects - Green Springs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Yakima Chandler/Kenwick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Yakima Roza	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Bureau of Reclamation Subtotal:	-	-	-	-	-	-	-	44,197	59,966	70,705	121,594	115,457	33,002	80,151	-	-	-
11	Albeni Falls	-	-	-	-	-	-	-	-	-	-	-	-	-	179,855	676,788	729,179	683,129
12	Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	-	-	10,683	283,143	63,103	9,867	-	-	-
13	Bonneville Dam	-	-	-	-	-	-	-	-	-	15,670	22	518	-	3,917	-	-	-
14	Chief Joseph	-	-	-	-	-	-	-	-	-	30,512	170,000	166	-	7,970	-	-	-
15	Columbia River Fish Mitigation	-	-	-	-	-	-	-	-	-	-	-	-	-	41,713	-	-	-
16	Cougar	-	-	-	-	-	-	-	-	-	-	-	-	-	26	-	-	-
17	Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	-	-	-	-	-	38	-	-	-
18	Dworshak	6,552	37,499	-	42,806	26,636	-	-	-	-	-	427	-	-	8,803	-	-	-
19	Green Peter/Foster	-	-	-	-	-	-	-	-	-	-	-	-	-	26	-	-	-
20	Hills Creek	-	5,263	-	-	-	-	-	-	-	-	-	-	-	28	-	-	-
21	Ice Harbor	-	1	-	-	-	-	-	21	20,700	-	78	-	371	67	-	-	-
22	John Day	8,837	-	-	-	-	-	-	-	-	-	-	-	195	8,477	-	-	-
23	Libby	-	-	-	-	-	-	38,463	74,217	99,949	-	302	-	14,781	660	-	-	-
24	Little Goose	28	-	-	-	-	-	-	-	-	49,597	-	-	1,200	4,902	-	-	-
25	Lookout Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	72	-	-	-
26	Lost Creek	-	-	-	-	-	-	-	-	13,793	-	31	-	-	118	-	-	-
27	Lower Granite	-	-	-	-	-	68,339	54,033	-	-	40,611	1,757	-	-	1,311	-	-	-
28	Lower Monument	-	-	-	-	-	-	-	-	-	-	40,925	-	264	1,896	-	-	-
29	McNary	-	-	-	-	-	-	-	351	-	-	-	30	-	635	-	-	-
30	The Dalles	11,746	10,237	-	-	5,701	1,567	-	-	-	-	-	-	-	1,991	-	-	-
31	Corps of Engineers Subtotal:	27,163	53,000	-	42,806	32,337	69,906	92,496	74,589	134,442	136,390	224,225	283,857	79,914	272,372	676,788	729,179	683,129
32	Lower Snake Fish and Wildlife	-	-	-	-	-	-	-	-	-	-	-	-	191,160	36,155	-	-	-
33	Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	191,160	36,155	-	-	-
34	Appropriation Subtotal:	27,163	53,000	-	42,806	32,337	69,906	92,496	118,786	194,408	207,095	345,818	399,314	304,076	388,678	676,788	729,179	683,129
35	Bureau Direct	115,000	100,000	-	-	-	-	-	-	69,000	165,000	47,000	-	25,000	-	-	-	135,085
36	Conservation	-	-	62,800	15,000	60,000	-	-	-	-	-	-	-	90,000	104,000	111,000	-	-
37	Construction	-	20,000	-	14,950	12,500	14,000	-	21,399	20,326	-	-	-	-	-	-	-	-
38	Fish and Wildlife	20,000	20,000	60,000	-	-	-	-	-	46,000	-	-	-	-	20,000	-	90,000	50,000
39	BPA Borrowing Subtotal:	135,000	140,000	122,800	29,950	72,500	14,000	-	21,399	135,326	165,000	47,000	-	115,000	124,000	111,000	90,000	185,085
40	Discounts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	Premiums	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	Make Whole Call Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	Treasury Subtotal:	135,000	140,000	122,800	29,950	72,500	14,000	-	21,399	135,326	165,000	47,000	-	115,000	124,000	111,000	90,000	185,085
44	GRAND TOTAL:	162,163	193,000	122,800	72,756	104,837	83,906	92,496	140,185	329,734	372,095	392,818	399,314	419,076	512,678	787,788	819,179	868,214

TABLE 14D: Summary of Amortization
October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

A	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK
1	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
2 Boise	-	1,043	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3 Columbia Basin	69,226	12,726	4,098	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4 Columbia Basin 3rd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5 Hungry Horse Dam	552	3,321	844	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6 Minidoka/Palisades	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7 Rogue River Projects - Green Springs	11,145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8 Yakima Chandler/Kenniwick	-	833	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9 Yakima Roza	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Bureau of Reclamation Subtotal:	80,980	17,923	4,974	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11 Albeni Falls	159,073	159,554	159,172	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073
12 Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Bonneville Dam	73,532	40,040	5,372	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14 Chief Joseph	347	4,492	24,727	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 Columbia River Fish Mitigation	153,495	643,492	502,006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16 Cougar	15,748	35,838	851	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 Detroit Lake/Big Cliff	301	1,254	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18 Dworshak	828	1,484	2,569	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 Green Peter/Foster	200	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 Hills Creek	2,639	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21 Ice Harbor	11,212	14	2,822	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22 John Day	9,720	3,661	1,903	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23 Libby	5,562	1,567	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24 Little Goose	4,848	13	3,201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25 Lookout Dam	5,233	7,927	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26 Lost Creek	154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27 Lower Granite	4,197	417	6,826	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28 Lower Monument	6,776	821	2,332	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29 McNary	7,281	4,845	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30 The Dalles	3,996	39,840	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31 Corps of Engineers Subtotal:	465,143	945,305	711,823	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073
32 Lower Snake Fish and Wildlife	3,079	457	1,545	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33 Lower Snake Fish & Wildlife Subtotal:	3,079	457	1,545	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34 Appropriation Subtotal:	549,202	963,685	718,343	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073
35 Bureau Direct	301,660	-	-	-	-	-	-	20,000	30,000	35,000	30,000	60,000	50,000	-	-	-	-	-	-
36 Conservation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37 Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38 Fish and Wildlife	50,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39 BPA Borrowing Subtotal:	351,660	-	-	-	-	-	-	20,000	30,000	35,000	30,000	60,000	50,000	-	-	-	-	-	-
40 Discounts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41 Premiums	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42 Make Whole Call Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43 Treasury Subtotal:	351,660	-	-	-	-	-	-	20,000	30,000	35,000	30,000	60,000	50,000	-	-	-	-	-	-
44 GRAND TOTAL:	900,862	963,685	718,343	159,073	159,073	159,073	159,073	179,073	189,073	194,073	189,073	219,073	209,073	159,073	159,073	159,073	159,073	159,073	159,073

TABLE 14D: Summary of Amortization
October 1, 2010 - September 30, 2013 Cost Evaluation Period
(\$000s) (FY 2013)

	A	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC
		2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	Total
1																			
2	Boise	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,425
3	Columbia Basin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	93,409
4	Columbia Basin 3rd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	455,389
5	Hungry Horse Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12,766
6	Minidoka/Palisades	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50,953
7	Rogue River Projects - Green Springs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11,145
8	Yakima Chandler/Kenniwick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	848
9	Yakima Roza	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
10	Bureau of Reclamation Subtotal:																		628,949
11	Albeni Falls	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	7,996,159
12	Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	366,796
13	Bonneville Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	139,071
14	Chief Joseph	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	238,215
15	Columbia River Fish Mitigation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,340,707
16	Cougar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52,463
17	Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,592
18	Dworshak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	127,604
19	Green Peter/Foster	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	227
20	Hills Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7,976
21	Ice Harbor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35,286
22	John Day	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32,793
23	Libby	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	235,541
24	Little Goose	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63,790
25	Lookout Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13,232
26	Lost Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14,096
27	Lower Granite	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	177,491
28	Lower Monument	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53,014
29	McNary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13,142
30	The Dalles	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75,078
31	Corps of Engineers Subtotal:	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	10,984,273
32	Lower Snake Fish and Wildlife	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	232,396
33	Lower Snake Fish & Wildlife Subtotal:																		232,396
34	Appropriation Subtotal:	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	11,845,619
35	Bureau Direct	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,182,745
36	Conservation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	442,800
37	Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	103,175
38	Fish and Wildlife	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	356,000
39	BPA Borrowing Subtotal:																		2,084,720
40	Discounts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	Premiums	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	Make Whole Call Subtotal:																		
43	Treasury Subtotal:																		2,084,720
44	GRAND TOTAL:	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	159,073	13,930,339

15. REPAYMENT THEORY AND OPERATION

15.1 Introduction

The Bonneville Power Administration (BPA) is required to collect sufficient revenues to meet the annual expenses and cover the long-term obligations of the Federal Columbia River Power System (FCRPS).

The Repayment Program is used to determine whether a given set of annual revenues is sufficient to meet a given set of annual expenses and cover a given set of long-term obligations when applied in accordance with the requirements of Department of energy (DOE) Order RA 6120.2. The Program is also used to determine by what *minimum* factor the future revenues can be multiplied to obtain a new set of revenues which will be sufficient.

The revenues and expenses of the cost evaluation year will be assigned to all future years. This will have the effect of levelizing the long-term obligations over all future years.

15.2 Repayment Program Logic

The diagrams on the following pages show the flow of logic in BPA's repayment program. The first diagram shows the logic of the binary search used to locate minimum sufficient revenues. A necessary part of this search is the test for sufficiency. The logic of the test for sufficiency is shown on the remaining two diagrams.

The equations which are referred to are:

Revenue Equation: Net revenues of each year are expended on interest and payments on the principles.

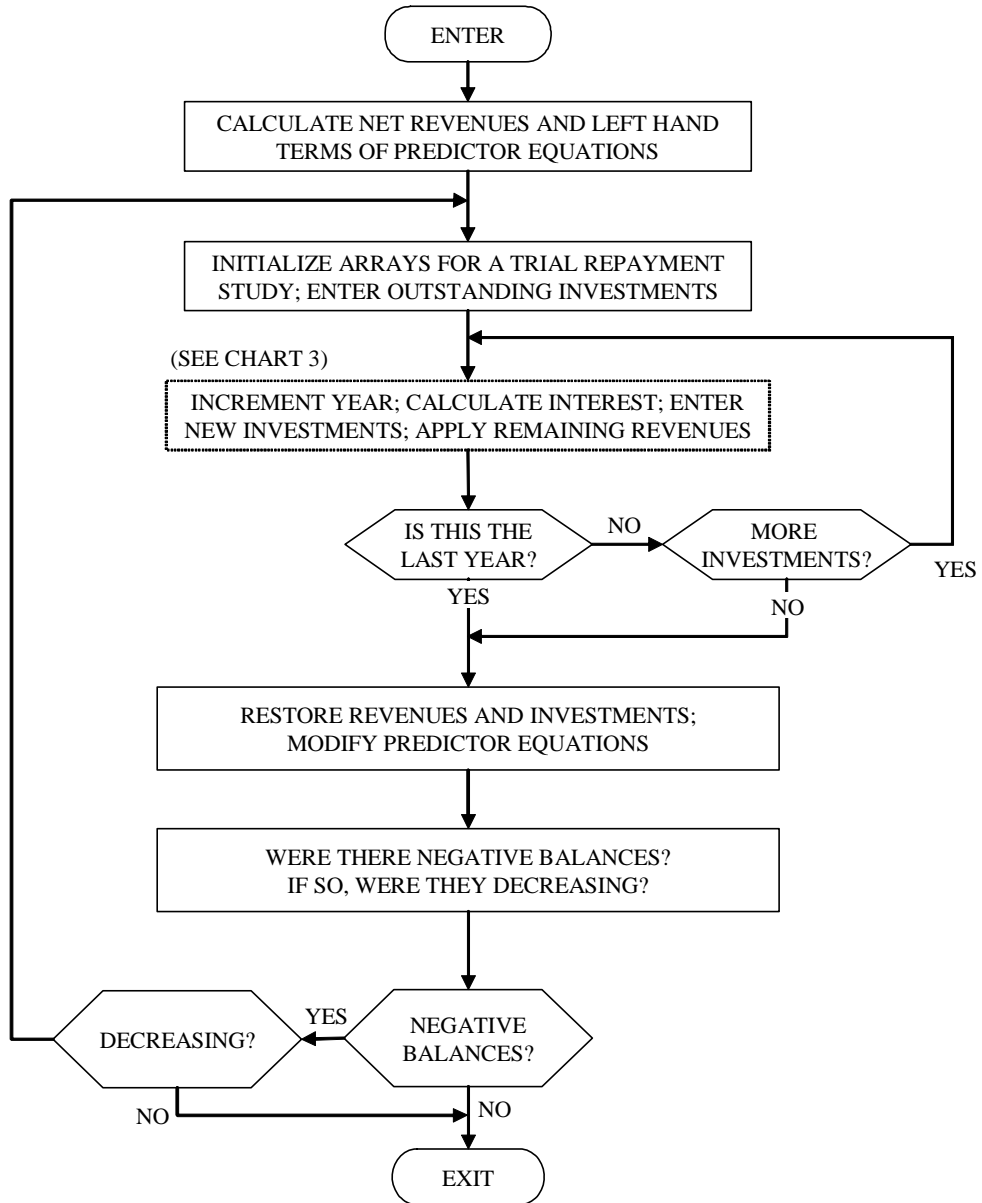
Investment equation: The payments on each investment are less than or equal to the principle of that investment (and equal to the principle of that investment after the investment is due).

Predictor equation: For each future year the accumulated revenues less the accumulated interest less the accumulated investments due is equal to the accumulated payments on high interest rate investments which are not due.

15.3 Bond Rollover Feature

Since the 2002 Wholesale Power Rate Case, BPA has incorporated a new data manipulation feature associated with the repayment program. This does not change any methodology of the model. It allows the user to assume that short-term bond(s) associated with assets with average service lives considerably longer than the bond maturity date are refinanced on the original maturity date, and recognizes replacement bonds with new maturity dates and corresponding interest rates. This feature reflects BPA's practice of rolling over a bond when it comes due if funds are not available to pay it at that time or if market conditions justify refinancing such bonds within the allowable repayment period of the associated assets. Reflecting this practice in the model allows a more realistic calculation of interest expense.

**REPAYMENT PROGRAM
(TEST FOR SUFFICIENCY)**



**REPAYMENT PROGRAM
(APPLICATION OF REVENUES)**

