

BP-14 Final Rate Proposal

# Power Revenue Requirement Study Documentation

BP-14-FS-BPA-02A

July 2013





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## COMMONLY USED ACRONYMS AND SHORT FORMS

AAC	Anticipated Accumulation of Cash
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
COE, Corps, or USACE Commission	U.S. Army Corps of Engineers Federal Energy Regulatory Commission
Corps, COE, or USACE	U.S. Army Corps of Engineers
COSA	Cost of Service Analysis
COU	consumer-owned utility
Council or NPCC	Northwest Power and Conservation Council
CP	Coincidental Peak
CRAC	Cost Recovery Adjustment Clause
CSP	Customer System Peak
CT	combustion turbine
CY	calendar year (January through December)
DDC	Dividend Distribution Clause
<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
FHFO	Funds Held for Others
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)
GEP	Green Energy Premium
GRSPs	General Rate Schedule Provisions
GTA	General Transfer Agreement
GWh	gigawatthour
HDD	heating degree day(s)
HLH	Heavy Load Hour(s)
HOSS	Hourly Operating and Scheduling Simulator (computer model)
HYDSIM	Hydrosystem Simulator (computer model)
ICE	Intercontinental Exchange
<i>inc</i>	increase, increment, or incremental
IOU	investor-owned utility
IP	Industrial Firm Power (rate)
IPR	Integrated Program Review
IRD	Irrigation Rate Discount
IRM	Irrigation Rate Mitigation
IRMP	Irrigation Rate Mitigation Product
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
NCP	Non-Coincidental Peak
NEPA	National Environmental Policy Act
NERC	North American Electric Reliability Corporation
NFB	National Marine Fisheries Service (NMFS) Federal Columbia River Power System (FCRPS) Biological Opinion (BiOp)
NLSL	New Large Single Load
NMFS	National Marine Fisheries Service
NOAA Fisheries	National Oceanographic and Atmospheric Administration Fisheries
NORM	Non-Operating Risk Model (computer model)
Northwest Power Act	Pacific Northwest Electric Power Planning and Conservation Act
NPCC or Council	Pacific Northwest Electric Power and Conservation Planning Council

NPV	net present value
NR	New Resource Firm Power (rate)
NT	Network Transmission
NTSA	Non-Treaty Storage Agreement
NUG	non-utility generation
NWPP	Northwest Power Pool
OATT	Open Access Transmission Tariff
O&M	operation and maintenance
OATI	Open Access Technology International, Inc.
OMB	Office of Management and Budget
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)
RRS	Resource Remarketing Service
RSS	Resource Support Services
RT1SC	RHWM Tier 1 System Capability
RTO	Regional Transmission Operator
SCADA	Supervisory Control and Data Acquisition

SCS	Secondary Crediting Service
Slice	Slice of the System (product)
T1SFCO	Tier 1 System Firm Critical Output
TCMS	Transmission Curtailment Management Service
TOCA	Tier 1 Cost Allocator
TPP	Treasury Payment Probability
TRAM	Transmission Risk Analysis Model
Transmission System Act	Federal Columbia River Transmission System Act
TRL	Total Retail Load
TRM	Tiered Rate Methodology
TS	BPA Transmission Services
TSS	Transmission Scheduling Service
UAI	Unauthorized Increase
ULS	Unanticipated Load Service
USACE, Corps, or COE	U.S. Army Corps of Engineers
USBR or Reclamation	U.S. Bureau of Reclamation
USFWS	U.S. Fish and Wildlife Service
VERBS	Variable Energy Resources Balancing Service (rate)
VOR	Value of Reserves
VR1-2014	First Vintage rate of the BP-14 rate period
WECC	Western Electricity Coordinating Council (formerly WSCC)
WIT	Wind Integration Team
WSPP	Western Systems Power Pool



## 1. 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 (FY 2014-2015). On the first table, revenue requirements for FY 2014-2015 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. These revenue requirements form the basis of the program.

### 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 Corps and Reclamation and power obtained through contracts for non-Federal resources and through energy conservation. This category includes lines 3 through 10, described below. *See* Documentation, BP-14-FS-BPA-02A, Chapter 3.

Operating Generation Resources (Line 3). This category includes the operations and maintenance expenses associated with power-producing resources including the CGS, Reclamation, and Corps, 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 are calculated as part of the Residential Exchange Program. *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.*

Power Non-Generation Operations (Line 11). 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.*

PS 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 Corps and Reclamation projects onto the transmission system; and metering and communication requirements. *Id.*

F&W/USF&W/Planning Council/Environmental Requirements (Line 13). 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 14). 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 15). This category would include costs for items that do not fit in any other category.

Non-Federal Debt Service (Line 16). 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 17). Depreciation is the annual capital recovery expense associated with FCRPS plant-in-service. Reclamation and Corps (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 18). Amortization is the annual capital recovery expense associated with non-revenue-producing assets. Conservation investments are amortized over three different periods, 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 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 19). Total Operating Expenses is the sum of the above expenses (Lines 2 through 18).

Interest on Appropriated Funds (Line 22). Interest on Appropriated Funds includes interest on Corps and Reclamation appropriations, as calculated in the generation repayment studies. *Id.*, Chapters 4 and 6. *Id.*, Chapter 3.

Capitalization Adjustment (Line 23). 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 24). 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 Corps 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.*

Non-Federal Interest (Line 25). This line recognizes the interest component of the annual credits associated with the prepay program. *Id.*

Allowance for Funds Used During Construction (AFUDC) (Line 26). 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 Corps and Reclamation capital investments direct-funded by BPA, and BPA capital equipment. *Id.*

Interest Credit on Cash Reserves (Line 27). 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 28). Net Interest Expense is computed as the sum of Interest on Appropriated Funds (Line 22), Capitalization Adjustment (Line 23), Interest on Bonds Issued to U.S. Treasury (Line 24), Amortization of Capitalized Bond Premiums (Line 25), AFUDC (Line 26), and Interest Credit (Line 27).

Total Expenses (Line 29). Total Expenses are the sum of Total Operating Expenses (Line 20) and Net Interest Expense (Line 28).

Minimum Required Net Revenues (Line 30). 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 31). 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 2014-2015, as discussed in the Power Risk and Market Price Study, BP-14-FS-BPA-03.

Planned Net Revenues, Total (Line 32). Planned Net Revenues is the sum of Minimum Required Net Revenues (Line 29) and PNRR (Line 31).

Total Revenue Requirement (Line 33). Total Revenue Requirement is the sum of Total Expenses (Line 29) and Total Planned Net Revenues (Line 32).

### **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).

Non-Federal Interest (Line 4). The interest component of the prepay credits is a non-cash item.

Depreciation and Amortization (Line 5). Depreciation and Amortization are from the Income Statement (Table 1A), lines 17 and 18 respectively. They are included in computing Cash Provided By Operating Activities (Line 9) because they are non-cash expenses of the FCRPS.

Capitalization Adjustment (Line 6). Capitalization Adjustment is from the Income Statement (Table 1A, Line 23). It is a non-cash contra-expense.

Revenues (Line 7). Revenues are associated with settlement agreements reached in prior periods as well as the credits associated with the prepay program. 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.

Customer Proceeds (Line 20). The prepay funds are a source of cash for capital investment. This line recognizes the drawdown of prepay funds as they are used to finance capital investments. *See* Chapter 3.

Payment of Irrigation Assistance (Line 21). 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 22). Cash Provided by Borrowing and Appropriations is the sum of Lines 16 through 21. 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 23). Annual Increase (Decrease) in Cash is the sum of Lines 8, 14, and 22 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 24). PNRR reflects the amounts included in revenue requirements to meet BPA's risk mitigation objectives from Table 1A, Line 31.

Total Annual Increase (Decrease) in Cash (Line 25). Total Annual Increase (Decrease) in Cash is the sum of Lines 23 and 24. 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)**

	<b><u>A</u></b>	<b><u>B</u></b>
	<b>2014</b>	<b>2015</b>
1 OPERATING EXPENSES		
2 POWER SYSTEM GENERATION RESOURCES		
3 OPERATING GENERATION RESOURCES	691,038	740,089
4 OPERATING GENERATION SETTLEMENT PAYMENTS	21,405	21,906
5 NON-OPERATING GENERATION	2,206	2,228
6 CONTRACTED POWER PURCHASES	70,718	54,618
7 AUGMENTATION POWER PURCHASES	6,198	94,913
8 EXCHANGES & SETTLEMENTS	278,456	278,436
9 RENEWABLE GENERATION	39,049	39,397
10 GENERATION CONSERVATION	48,408	49,320
11 POWER NON-GENERATION OPERATIONS	91,856	94,710
12 PS TRANSMISSION ACQUISITION AND ANCILLARY SERVICES	164,845	165,102
13 F&W/USF&W/PLANNING COUNCIL/ENVIRONMENTAL REQUIREMENTS	295,538	302,769
14 GENERAL AND ADMINISTRATIVE/SHARED SERVICES	73,603	76,034
15 OTHER INCOME, EXPENSES AND ADJUSTMENTS	0	0
16 NON-FEDERAL DEBT SERVICE	514,848	441,278
17 DEPRECIATION	126,508	134,164
18 AMORTIZATION	97,940	95,117
19 TOTAL OPERATING EXPENSES	2,522,615	2,590,081
20 INTEREST EXPENSE:		
21 INTEREST		
22 APPROPRIATED FUNDS	222,306	220,657
23 CAPITALIZATION ADJUSTMENT	(45,937)	(45,937)
24 BONDS ISSUED TO U.S. TREASURY	63,653	73,235
25 NON-FEDERAL INTEREST	14,775	14,041
26 ALLOWANCE FOR FUNDS USED DURING CONSTRUCTION	(11,168)	(11,175)
27 INTEREST CREDIT ON CASH RESERVES	(15,806)	(13,829)
28 NET INTEREST EXPENSE	227,822	236,991
29 TOTAL EXPENSES	2,750,437	2,827,072
30 MINIMUM REQUIRED NET REVENUE 1/	0	0
31 PLANNED NET REVENUE FOR RISK		
32 PLANNED NET REVENUE, TOTAL (30+31)	0	0
33 TOTAL REVENUE REQUIREMENT	2,750,437	2,827,072

1/ SEE NOTE ON TABLE 1B

**Table 1B**

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

	<b><u>A</u></b>	<b><u>B</u></b>
	<b>2014</b>	<b>2013</b>
1 CASH FROM OPERATING ACTIVITIES		
2 MINIMUM REQUIRED NET REVENUES 1/	0	0
3 NON-CASH ITEMS:		
4 NON-FEDERAL INTEREST	14,775	14,041
5 DEPRECIATION AND AMORTIZATION	224,447	229,281
6 CAPITALIZATION ADJUSTMENT	(45,937)	(45,937)
7 REVENUES	(34,124)	(34,124)
8 CASH PROVIDED BY OPERATING ACTIVITIES	159,161	163,261
9 CASH USED FOR INVESTMENT ACTIVITIES:		
10 INVESTMENT IN:		
11 FEDERAL UTILITY PLANT (INCLUDING AFUDC)	(390,279)	(284,925)
12 CONSERVATION	(75,200)	(92,000)
13 FISH & WILDLIFE	(60,275)	(51,284)
14 CASH USED FOR INVESTMENT ACTIVITIES	(525,754)	(428,208)
15 CASH FROM AND (USED FOR) FINANCING ACTIVITIES		
16 INCREASE IN TREASURY BORROWINGS	223,850	294,339
17 REPAYMENT OF TREASURY BORROWINGS	(30,611)	(111,151)
18 INCREASE IN FEDERAL CONSTRUCTION APPROPRIATIONS	143,303	38,981
19 REPAYMENT OF FEDERAL CONSTRUCTION APPROPRIATIONS	(76,000)	0
20 CUSTOMER PROCEEDS	158,601	94,888
21 PAYMENT OF IRRIGATION ASSISTANCE	(52,550)	(52,110)
22 CASH USED FOR FINANCING ACTIVITIES	366,593	264,947
23 ANNUAL INCREASE (DECREASE) IN CASH	0	0
24 PLANNED NET REVENUES FOR RISK	0	0
25 TOTAL ANNUAL INCREASE (DECREASE) IN CASH	0	0

1/ Line 26 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 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 Corps 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 Corps 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: Tables related to Operating Reserves and Regulation have been deleted because they were not necessary due to the Generation Inputs Settlement.

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 Corps/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.

### Corps and Reclamation Transmission Costs:

- O&M: sum of transmission O&M for each project with transmission facilities, as identified in Chapter 3, Functionalization of Corps 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 net of the total annual credit calculated in the generation revenue requirement less the amount calculated for the Composite cost pool and the interest earned on the prepay funds. 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 2014	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	535,860	127,587	663,446
3. HYDRO		182,054	0	Percent	81%	19%	100%
4. FISH AND WILDLIFE	323,548	19,631	0				
5. TROJAN				Net Interest Expense	182,054	43,347	225,401
6. WNP #1							
7. CGS				Planned Net Revenues	-	-	-
8. WNP #3							
9. SYSTEM AUGMENTATION							
10. BALANCING POWER PURCHASES							
11. TOTAL FEDERAL BASE SYSTEM	323,548	201,685	0				
12. NEW RESOURCES							
13. IDAHO FALLS							
14. COWLITZ FALLS							
15. OTHER LONG-TERM POWER PURCHASES							
16. TOTAL NEW RESOURCES							
17. RESIDENTIAL EXCHANGE							
18. CONSERVATION	342,606	20,788	0				
19. OTHER GENERATION COSTS							
20. BPA PROGRAMS	48,258	2,928	0				
21. WNP #3 PLANT							
22. TOTAL OTHER GENERATION COSTS	48,258	2,928	0				
23. TOTAL GENERATION COSTS	714,412	225,401	0				
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		225,401	0				

Table 2A

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

FY 2015

	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	553,307	128,936	682,243
3. HYDRO		191,514	0	Percent	81%	19%	100%
4. FISH AND WILDLIFE	346,434	20,254	0				
5. TROJAN				Net Interest Expense	191,514	44,628	236,142
6. WNP #1							
7. CGS				Planned Net Revenues	0	-	0
8. WNP #3							
9. SYSTEM AUGMENTATION							
10. BALANCING POWER PURCHASES							
11. TOTAL FEDERAL BASE SYSTEM	346,434	211,768	0				
12. NEW RESOURCES							
13. IDAHO FALLS							
14. COWLITZ FALLS							
15. OTHER LONG-TERM POWER PURCHASES							
16. TOTAL NEW RESOURCES							
17. RESIDENTIAL EXCHANGE							
18. CONSERVATION	370,300	21,649	0				
19. OTHER GENERATION COSTS							
20. BPA PROGRAMS	46,604	2,725	0				
21. WNP #3 PLANT							
22. TOTAL OTHER GENERATION COSTS	46,604	2,725	0				
23. TOTAL GENERATION COSTS	763,338	236,142	0				
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		236,142	0				

**Table 2B**

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

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>
	<b>AVG</b>	<b>COMP</b>	<b>WT AV</b>	<b>2014</b>	<b>COMP</b>	<b>WT AV</b>	<b>2015</b>
	<b>LIFE</b>	<b>PLANT</b>	<b>INT</b>	<b>EQ ANN</b>	<b>PLANT</b>	<b>INT</b>	<b>EQ ANN</b>
		<b>9/30/2014</b>	<b>RATE</b>	<b>COSTS</b>	<b>9/30/2015</b>	<b>RATE</b>	<b>COSTS</b>
1 Corps of Engineers/Bureau of Reclamation	50	9,038,395	5.53%	\$535,860	9,387,616	5.49%	\$553,307
2 BPA F&W							
3 PBL General Plant	15	475,920	3.57%	41,534	517,376	3.78%	45,824
4 CONSERVATION	6	87,714	2.08%	15,779	100,538	2.24%	18,348
5 Sub-Total	13	672,008	0	70,274	649,102	0	64,765
				127,587			128,936
	<b>WTD</b>	<b>INV. BASE</b>	<b>ANNUAL</b>	<b>AVG</b>	<b>INV. BASE</b>	<b>ANNUAL</b>	
	<b>LIFE</b>	<b>AS OF</b>	<b>DEPR/AMORT</b>	<b>LIFE</b>	<b>AS OF</b>	<b>DEPR/AMORT</b>	
		<b>9/30/2014</b>			<b>9/30/2015</b>		
6 OFFICE FURNITURE & FIXTURES							
7 DATA PROCESSING EQUIPMENT							
8 DATA PROCESSING SOFTWARE							
9 TOTAL GENERAL PLANT - PBL CONSERVATION	6	87,714	14,699	6	100,538	17,006	
10 LEGACY							
11 CONAUG							
12 CONSERVATION ACQUISITION							
13 TOTAL CONSERVATION	11	672,008	58,790	12	649,102	53,022	

Table 2C

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

	A	B	C	D	E	F
	Average Investment <u>2014</u>	<u>Percent</u>	O&M <u>2014</u>	Average Investment <u>2015</u>	<u>Percent</u>	O&M <u>2015</u>
1 BOISE						
2 <b>GENERATION</b>		100.00%	6,998		100.00%	7,119
3 COLUMBIA BASIN						
4 <b>GENERATION</b>	1,613,603	95.63%	104,365	1,715,050	95.87%	106,446
5 TRANSMISSION	73,795	4.37%	4,773	73,795	4.13%	4,580
6 <b>TOTAL</b>	1,687,398	100.00%	109,138	1,788,845	100.00%	111,026
7 GREEN SPRINGS						
8 <b>GENERATION</b>		100.00%	1,320		100.00%	1,343
9 HUNGRY HORSE						
10 GENERATION	136,441	98.54%	7,003	137,191	98.55%	7,125
11 TRANSMISSION	2,019	1.46%	104	2,019	1.45%	105
12 <b>TOTAL</b>	138,460	100.00%	7,107	139,210	100.00%	7,230
13 MINIDOKA-PALISADES						
14 GENERATION	114,038	98.79%	12,195	114,121	98.79%	12,407
15 TRANSMISSION	1,393	1.21%	149	1,393	1.21%	151
16 <b>TOTAL</b>	115,431	100.00%	12,344	115,514	100.00%	12,558
17 <b>YAKIMA</b>						
18 GENERATION		100.00%	3,692		100.00%	3,756
19 GENERATION 1/			156,977			160,101
20 TRANSMISSION			5,026			4,836
21 <b>TOTAL USBR</b>			162,003			164,937
1/ INCLUDES COLVILLE PAYMENT OF			21,404			21,905
22 BONNEVILLE						
23 GENERATION	1,130,886	99.76%	29,851	1,152,710	99.77%	30,669
24 TRANSMISSION	2,700	0.24%	71	2,700	0.23%	72
25 <b>TOTAL</b>	1,133,586	100.00%	29,922	1,155,410	100.00%	30,741
26 OTHER PROJECTS						
27 <b>CORPS - GENERATION ONLY</b>			195,765			201,137
28 USF&W (LSRCP)			30,670			31,670
29 GENERATION			256,286			263,476
30 TRANSMISSION			71			72
31 <b>TOTAL CORPS</b>			256,357			263,548

**Table 2D**

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

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>
	<b><u>FY 2009</u></b>	<b><u>FY 2010</u></b>	<b><u>FY 2011</u></b>	<b><u>AVERAGE</u></b>	<b><u>FY 2014</u></b>	<b><u>FY 2015</u></b>
1 BOISE	4,358	3,736	4,157	4,084	6,998	7,119
2 COLUMBIA BASIN	59,728	64,080	67,247	63,685	109,138	111,026
3 GREEN SPRINGS	581	837	893	770	1,320	1,343
4 HUNGRY HORSE	3,976	4,278	4,188	4,147	7,107	7,230
5 MINIDOKA	6,939	7,170	7,500	7,203	12,344	12,558
6 YAKIMA	2,185	2,388	1,890	<u>2,154</u>	<u>3,692</u>	<u>3,756</u>
7 <b>Total Reclamation</b>				<b>82,044</b>	<b>140,601</b>	<b>143,033</b>
8 ALBENI FALLS	5,000	5,074	6,877	5,650	6,867	7,056
9 BONNEVILLE	21,211	27,862	24,784	24,619	29,922	30,741
10 CHIEF JOSEPH	22,785	19,270	19,474	20,510	24,927	25,611
11 COUGAR	1,134	2,467	1,407	1,669	2,029	2,085
12 DETROIT	7,431	5,518	4,379	5,776	7,020	7,213
13 DWORSHAK	10,672	13,103	13,460	12,412	15,085	15,499
14 GREEN-PETER	4,831	4,523	4,058	4,471	5,434	5,583
15 HILLS CREEK	1,000	898	1,098	999	1,214	1,247
16 ICE HARBOR	7,838	8,090	8,799	8,242	10,018	10,292
17 JOHN DAY	19,737	19,478	20,730	19,982	24,285	24,951
18 LIBBY	7,112	7,617	8,744	7,824	9,509	9,770
19 LITTLE GOOSE	7,457	7,782	8,507	7,915	9,620	9,884
20 LOOKOUT POINT	5,600	6,914	5,878	6,131	7,451	7,655
21 LOST CREEK	1,844	2,025	2,101	1,990	2,419	2,485
22 LOWER GRANITE	11,603	12,066	14,421	12,697	15,431	15,855
23 LOWER MONUMENTAL	8,072	8,118	8,496	8,229	10,001	10,275
24 MCNARY	16,510	20,424	18,761	18,565	22,563	23,182
25 THE DALLIES	18,560	18,516	16,964	<u>18,013</u>	<u>21,893</u>	<u>22,494</u>
26 <b>Total COE</b>				<b>185,693</b>	<b>225,687</b>	<b>231,878</b>

Table 2E

Synchronous Condensers  
 Net Plant Calculation  
 (\$000s)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
			Plant-in-Service		Accumulated Depreciation															
	Life	Project	1999	Annual Deprec	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
1	75.0	John Day	3,956	53	53	106	159	212	265	318	371	424	477	530	583	636	689	742	795	848
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>	<u>750</u>	<u>800</u>
3			7,709	103	103	206	309	412	515	618	721	824	927	1,030	1,133	1,236	1,339	1,442	1,545	1,648
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	6,164	6,061



**Table 2F**

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

	<b>A</b>	<b>B</b>
	<b><u>2014</u></b>	<b><u>2015</u></b>
1 Synchronous Condensers Net Plant	6,216	6,113
2 Total Corps/Bureau Average Net Plant	6,124,428	6,351,414
3 percent	0.101%	0.096%
4 Corps/Bureau Net Interest	182,054	191,514
5 Sync Cond Net Interest	185	184
6 Corps/Bureau MRNR	-	-
7 Sync Cond MRNR	-	-
8 Sync Cond Depreciation	103	103
9 Total Sync Cond Costs	288	287

Table 2G

COE/BOR Transmission Costs  
(\$000s)

	A	B	C	D	E	F	G	H	I
	<u>Total FY 2014</u>	<u>Network</u>	<u>Utility Delivery</u>	<u>Total FY 2015</u>	<u>Network</u>	<u>Utility Delivery</u>	<u>Annual Total</u>	<u>Annual Network</u>	<u>Annual Average Utility Delivery</u>
1 O&M	5,097	4,939	158	4,908	4,756	152	5,003	4,848	155
2 Depreciation	1,066	1,033	33	1,066	1,033	33	1,066	1,033	33
3 Interest Expense	1,536	1,489	47	1,526	1,479	47	1,531	1,484	47
4 MRNR	0	0	0	0	0	0	0	0	0
<b>5 Total COE/BOR Trans Costs</b>	<b>7,699</b>	<b>7,461</b>	<b>238</b>	<b>7,500</b>	<b>7,268</b>	<b>232</b>	<b>7,600</b>	<b>7,365</b>	<b>235</b>
6 Average Net Transmission Plant	51,660	50,072	1,587	50,594	49,040	1,553			
7 Total Hydro Projects Average Net Plant	6,124,428			6,351,414					
8 percent Transmission	0.84%			0.80%					
9 Revenue Requirement MRNR	0			0					
10 Revenue Requirement Total PNR	0			0					
11 percent MRNR	100%			100%					
12 Revenue Requirement PNRR	-			0					
13 percent PNRR	0%			0%					

Table 2H

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

		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>
		<u>2014</u>	<u>2014</u>	<u>2014</u>	<u>2014</u>	<u>2015</u>	<u>2015</u>	<u>2015</u>	<u>2015</u>
		<b>GROSS</b>	<b>DEPREC</b>	<b>O&amp;M</b>	<b>AVG NET</b>	<b>GROSS</b>	<b>DEPREC</b>	<b>O&amp;M</b>	<b>AVG NET</b>
		<b>PLANT</b>	<b>EXP</b>		<b>PLANT</b>	<b>PLANT</b>	<b>EXP</b>		<b>PLANT</b>
<b>1 Bureau of Reclamation</b>									
2 COLUMBIA BASIN									
3	Network	71,345	951	4,615	46,215	71,345	951	4,428	45,265
4	Delivery	2,450	33	158	1,587	2,450	33	152	1,553
5	<b>TOTAL</b>	<b>73,795</b>	<b>984</b>	<b>4,773</b>	<b>47,802</b>	<b>73,795</b>	<b>984</b>	<b>4,580</b>	<b>46,820</b>
6 HUNGRY HORSE									
7	Network	2,019	27	104	1,142	2,019	27	105	1,115
8 MINIDOKA-PALISADES									
9	Network	1,393	19	149	958	1,393	19	151	939
10	Delivery	-	-	-	-	-	-	-	-
11	<b>TOTAL</b>	<b>1,393</b>	<b>19</b>	<b>149</b>	<b>958</b>	<b>1,393</b>	<b>19</b>	<b>151</b>	<b>939</b>
<b>12 Corps of Engineers</b>									
13 BONNEVILLE									
14	Network	2,700	36	71	1,757	2,700	36	72	1,721
<b>15 TOTAL TRANSMISSION</b>									
16	Network	77,457	1,033	4,939	50,072	77,457	1,033	4,756	49,040
17	Delivery	2,450	33	158	1,587	2,450	33	152	1,553
18	<b>TOTAL</b>	<b>79,907</b>	<b>1,066</b>	<b>5,097</b>	<b>51,659</b>	<b>79,907</b>	<b>1,066</b>	<b>4,908</b>	<b>50,593</b>

**Table 2I**

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

	<b>A</b>	<b>B</b>
	<b><u>2014</u></b>	<b><u>2015</u></b>
1 Starting Reserve Balance	495,600	570,255
2 Adjustments for pre-2002 Transactions	74,655	-
3 Other Adjustments	<u>-</u>	<u>-</u>
4 Total Reserves for Composite Cost Pool (Line 1 + Line 2 + Line 3)	570,255	570,255
5 Interest rate	1.39%	2.09%
6 Composite Pool interest credit (Line 4 X Line 5)	(7,927)	(11,918)
7 Prepay Offset Credit	(6,950)	(2,035)
8 Total interest credit from Rev Req	(15,806)	(13,829)
9 Non-Slice Pool interest credit (Line 8 - Line 7)	(930)	124

### **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-14-FS-BPA-02, Tables 4 and 5.

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.

Corps 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 Corps and Reclamation power-related capital projects.

Table 3A

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

	<b>A</b>	<b>B</b>
	<b>Rate Period</b>	
	<b>FY 2014</b>	<b>FY 2015</b>
<b>1 Power System Generation Resources</b>		
<b>2 Operating Generation</b>		
3 COLUMBIA GENERATING STATION	298,751	338,558
4 BUREAU OF RECLAMATION	140,601	143,033
5 CORPS OF ENGINEERS	225,687	231,878
6 LONG-TERM CONTRACT GENERATING PROJECTS	<u>25,999</u>	<u>26,620</u>
7 <b>Sub-Total</b>	<b>691,038</b>	<b>740,089</b>
<b>8 Operating Generation Settlements and Other Payments</b>		
9 COLVILLE GENERATION SETTLEMENT	21,405	21,906
10 SPOKANE LEGISLATION PAYMENT	<u>0</u>	<u>0</u>
11 <b>Sub-Total</b>	<b>21,405</b>	<b>21,906</b>
<b>12 Non-Operating Generation</b>		
13 TROJAN DECOMMISSIONING	1,500	1,500
14 WNP-1&3 DECOMMISSIONING	<u>706</u>	<u>728</u>
15 <b>Sub-Total</b>	<b>2,206</b>	<b>2,228</b>
<b>16 Gross Contracted Power Purchases</b> (excluding bookout adjustments) <Note 1		
17 DSI MONETIZED POWER SALES	0	0
18 PNCA HEADWATER BENEFITS	2,957	3,030
19 HEDGING/MITIGATION	0	0
20 OTHER POWER PURCHASES - (e.g. Short-Term)	62,464	26,719
21 TIER 2 PURCHASES	<u>5,296</u>	<u>24,869</u>
22 <b>Sub-Total</b>	<b>70,718</b>	<b>54,618</b>
23 <b>Bookout Adjustments to Contracted Power Purchases</b> <Note 1	0	0
24 <b>Augmentation Power Purchases (includes IOU Load Reduc. and Buy Backs)</b>		
25 AUGMENTATION POWER PURCHASES	6,198	94,913
26 CONSERVATION AUGMENTATION	<u>0</u>	<u>0</u>
27 <b>Sub-Total</b>	<b>6,198</b>	<b>94,913</b>
<b>28 Exchanges &amp; Settlements</b>		
29 RESIDENTIAL EXCHANGE PROGRAM	277,056	277,036
30 RESIDENTIAL EXCHANGE INTEREST ACCRUAL	1,400	1,400
31 OTHER SETTLEMENTS	<u>0</u>	<u>0</u>
32 <b>Sub-Total</b>	<b>278,456</b>	<b>278,436</b>
<b>33 Renewable Generation</b>		
34 RENEWABLES	39,799	40,147
35 CONTRA-EXPENSE FOR GEP REVENUES	<u>(750)</u>	<u>(750)</u>
36 <b>Sub-Total</b>	<b>39,049</b>	<b>39,397</b>
<b>37 Generation Conservation</b>		
38 DSM TECHNOLOGY	0	0
39 CONSERVATION ACQUISITION	16,444	16,754
40 LOW INCOME WEATHERIZATION & TRIBAL	5,155	5,252
41 ENERGY EFFICIENCY DEVELOPMENT	11,859	12,083
42 LEGACY	1,031	1,050
43 MARKET TRANSFORMATION	<u>13,919</u>	<u>14,180</u>
44 <b>Sub-Total</b>	<b>48,408</b>	<b>49,320</b>
45 <b>Power System Generation Sub-Total</b>	<b>1,157,477</b>	<b>1,280,906</b>

Table 3A

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

	<b>A</b>	<b>B</b>
	<b>Rate Period</b>	
	<b>FY 2014</b>	<b>FY 2015</b>
46		
47	<b>Power Non-Generation Operations</b>	
48	<b>Power Services System Operations</b>	
49	INFORMATION TECHNOLOGY	6,602 6,735
50	GENERATION PROJECT COORDINATION	6,826 6,968
51	SLICE IMPLEMENTATION	<u>1,099</u> <u>1,126</u>
52	<b>Sub-Total</b>	<b>14,527 14,829</b>
53	<b>Power Services Scheduling</b>	
54	OPERATIONS SCHEDULING	10,398 10,621
55	OPERATIONS PLANNING	<u>7,641</u> <u>7,948</u>
56	<b>Sub-Total</b>	<b>18,039 18,569</b>
57	<b>Power Services Marketing and Business Support</b>	
58	POWER R&D	5,816 5,936
59	SALES & SUPPORT	20,951 21,339
60	STRATEGY, FINANCE & RISK MGMT	19,263 20,360
61	EXECUTIVE AND ADMINISTRATIVE SERVICES	4,166 4,369
62	CONSERVATION SUPPORT	<u>9,094</u> <u>9,309</u>
63	<b>Sub-Total</b>	<b>59,290 61,312</b>
64	<b>Power Non-Generation Operations Sub-Total</b>	<b>91,856 94,710</b>
65		
66	<b>Power Services Transmission Acquisition and Ancillary Services</b>	
67	<b>PBL Transmission Acquisition and Ancillary Services</b>	
68	POWER SERVICES TRANSMISSION & ANCILLARY SERVICES	95,867 94,618
69	3RD PARTY GTA WHEELING	55,533 56,578
70	POWER SERVICES - 3RD PARTY TRANS & ANCILLARY SVCS	2,288 2,333
71	GENERATION INTEGRATION / TS WIT	11,256 11,664
72	TELEMETERING/EQUIP REPLACEMT	<u>52</u> <u>53</u>
73	<b>Power Svcs Trans Acquisition and Ancillary Services Sub-Total</b>	<b>164,996 165,246</b>
74		
75	<b>Fish and Wildlife/USF&amp;W/Planning Council/Environmental Req</b>	
76	BPA Fish and Wildlife (includes F&W Shared Services)	
77	Fish & Wildlife	254,000 260,000
78	USF&W Lower Snake Hatcheries	30,670 31,670
79	Planning Council	10,568 10,799
80	Environmental Requirements	<u>300</u> <u>300</u>
81	<b>Fish and Wildlife/USF&amp;W/Planning Council Sub-Total</b>	<b>295,538 302,769</b>
82		
83	<b>BPA Internal Support</b>	
84	Additional Post-Retirement Contribution	18,501 18,819
85	Agency Services G&A (excludes direct project support)	55,102 57,215
86	Shared Services (includes Supply Chain & excludes direct project support)	0 0
87	<b>BPA Internal Support Sub-Total</b>	<b>73,603 76,034</b>
88		

Table 3A

Power Services Program Spending Levels  
(\$000s)

		A	B
		Rate Period	
		FY 2014	FY 2015
89	<b>Bad Debt Expense</b>	0	0
90	<b>Other Income, Expenses, Adjustments</b>	0	0
91	<b>Non-Federal Debt Service</b>		
92	<b>Energy Northwest Debt Service</b>		
93	COLUMBIA GENERATING STATION DEBT SVC	89,776	80,636
94	WNP-1 DEBT SVC	248,237	184,536
95	WNP-3 DEBT SVC	165,601	166,975
96	EN RETIRED DEBT	0	0
97	EN LIBOR INTEREST RATE SWAP	<u>0</u>	<u>0</u>
98	<b>Sub-Total</b>	<b>503,614</b>	<b>432,147</b>
99	<b>Non-Energy Northwest Debt Service</b>		
100	CONSERVATION DEBT SVC	2,418	312
101	COWLITZ FALLS DEBT SVC	6,885	6,890
102	NORTHERN WASCO DEBT SVC	1,931	1,929
103	<b>Sub-Total</b>	<b>11,234</b>	<b>9,131</b>
104	<b>Non-Federal Debt Service Sub-Total</b>	<b>514,848</b>	<b>441,278</b>
105			
106			
107	<b>Disaggregation of Selected Expenses From Revenue Requirement to RAM Cost Table</b>		
108	<b>RENEWABLES (line 34)</b>	<u>39,799</u>	<u>40,147</u>
109	Tier 1 Augmentation Resource (i.e. Klondike III)	10,000	9,997
110	Renewable Generation (excl. Klondike III)	29,798	30,150
111			
112	<b>POWER R&amp;D (line 57)</b>	<u>5,816</u>	<u>5,936</u>
113	Renewables R&D	4,944	5,045
114	Generation Conservation R&D	872	890
115			
116	<b>POWER SERVICES TRANSMISSION &amp; ANCILLARY SERVICES (line 67)</b>	<u>95,867</u>	<u>94,618</u>
117	Transmission & Ancillary Services	59,341	57,543
118	Transmission & Ancillary Services (sys. oblig.)	36,526	37,075
119			



**Table 3B****Summary of Generation Current Repayment Study Data  
(\$000s)**

	<b>A</b>	<b>B</b>
	<b><u>2014</u></b>	<b><u>2015</u></b>
1 INTEREST EXPENSE (GROSS)		
2 CORPS	162,255	160,606
3 RECLAMATION	43,526	43,526
4 LOWER SNAKE RIVER COMPENSATION PLAN	<u>16,525</u>	<u>16,525</u>
5 TOTAL APPROPRIATIONS	222,306	220,657
6 BONDS ISSUED TO TREASURY	<u>63,653</u>	<u>73,235</u>
7 TOTAL INTEREST EXPENSE	285,959	293,892
8 PLANNED AMORTIZATION		
9 CORPS	76,000	0
10 BUREAU	0	0
11 LOWER SNAKE RIVER COMPENSATION PLAN	0	0
12 TOTAL APPROPRIATIONS	76,000	0
13 LONG-TERM DEBT	<u>30,611</u>	<u>111,151</u>
14 TOTAL GENERATION AMORTIZATION	106,611	111,151
15 IRRIGATION ASSISTANCE	<u>52,550</u>	<u>52,110</u>
16 TOTAL AMORTIZATION/IRRIGATION	159,161	163,261
17		
18 <b>Adjustment to Repayment Study Amortization &amp; Interest</b>		
19		
20 Repayment study amortization	105,490	109,884
21 Additional appropriation amortization	1,121	1,267
22 Interest on Dworshak 1973 Appropriation	7.19%	7.19%
23 Interest on additional appropriation amortization	81	91
24 reduction realized the following year		
25		
26 Total revenue requirement amortization	106,611	111,151
27 Repayment study interest	285,959	293,972
28 Total revenue requirement interest	285,959	293,892

**Table 3C**

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

	<b><u>A</u></b>	<b><u>B</u></b>
	<b>2014</b>	<b>2015</b>
1 BPA (Power + CORP GP)	14,699	17,006
2 Corps 1/ 2/	85,081	88,984
3 Reclamation	<u>26,728</u>	<u>28,174</u>
<b>4 Total Depreciation</b>	<b>126,508</b>	<b>134,164</b>
5 Amortization of Legacy Conservation	13,930	9,649
6 Amortization of Conservation Acquisitions	44,860	43,373
7 Amortization of CRFM Intangible Investment	7,729	7,729
8 Amortization of Fish & Wildlife	<u>31,421</u>	<u>34,366</u>
<b>9 Total Amortization</b>	<b>97,940</b>	<b>95,117</b>
<b>10 Total Federal Projects Depreciation</b>	<b>224,447</b>	<b>229,281</b>
1/ Excludes depreciation from investments paid for by BPA-TS	23	23
2/ Includes US Fish & Wildlife	3,228	3,228

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

	<b>A</b>	<b>B</b>
	<b><u>2014</u></b>	<b><u>2015</u></b>
1 Strategy, Finance, & Risk Mgmt	19,263	20,360
2 Residential Exchange Program Support portion	<u>964</u>	<u>986</u>
3 Net to Power Non-Generating Operations (In 1 - In 2)	18,299	19,374
4 Executive & Administrative Svc	4,166	4,369
5 Residential Exchange Program Support portion	<u>9</u>	<u>9</u>
6 Net to Power Non-Generating Operations (In 4 - In 5)	4,157	4,360
7 Residential Exchange Program Support (In 2 + In 5)	973	996
8 Strategy, Finance, & Risk Mgmt (to Pwr NonGen Ops) (In 3)	18,299	19,374
9 Executive & Administrative Svc (to Pwr NonGen Ops) (In 6)	4,157	4,360

**Table 3E**

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

		<b>A</b>	<b>B</b>
		<b><u>FY 2014</u></b>	<b><u>FY 2015</u></b>
1	Terminated Nuclear Facilities	367,841	248,382
2	REP Refunds	76,537	76,537
3	Columbia River Fish Mitigation amortization	7,729	7,729
4	Conservation Measures		
5	Additions	75,200	92,000
6	Amortization	31,178	38,145
7	Direct Service Industries' benefit 1/	-	-
8	Fish and Wildlife Measures		
9	Additions	60,275	41,807
10	Amortization	31,421	34,366
11	Settlements	21,405	21,906
12	FECA 2/	-	-
13	Sponsored Conservation	2,296	298
14	Trojan Decommissioning/Restoration	1,500	1,500
15	Terminated Hydro Facilities	1,378	1,388
16	Capitalized Bond Premiums	-	-

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

**Table 3F**  
**Allowance for Funds Used During Construction**  
**(\$000s)**

	<u>A</u> <b>2013</b>	<u>B</u> <b>2014</b>	<u>C</u> <b>2015</b>
<b>Direct Funding Projects</b>			
1 capital expenditures		240,329	238,767
2 plant-in-service		267,693	244,686
3 SOY CWIP Balance	224,280	246,802	229,695
4 EOY CWIP Balance	237,000	219,438	223,775
5 Average CWIP Balance	230,640	233,120	226,735
6 AFUDC Rate	4.25%	4.40%	4.55%
7 Total Direct Funding AFUDC	9,802	10,257	10,316
<b>Capital Equipment</b>			
8 Power IT (lapsed)	5,885	6,032	6,179
9 Corporate (IT unexpired/facilities lapsed)	16,877	12,631	12,936
10 Total Capital Equipment AFUDC	1,542	911	859
<b>11 Total PS AFUDC</b>	<b>11,344</b>	<b>11,168</b>	<b>11,175</b>

**Table 3G**  
**Prepay Program Cost Components**  
**(\$000s)**

A	B	C	D	
	<u>Interest</u>	<u>Principal</u>	<u>Total Credit</u>	
1	2013	7,653	7,647	15,300
2	2014	14,775	15,825	30,600
3	2015	14,041	16,559	30,600
4	2016	13,273	17,327	30,600
5	2017	12,469	18,131	30,600
6	2018	11,628	18,972	30,600
7	2019	10,747	19,853	30,600
8	2020	9,826	20,774	30,600
9	2021	8,863	21,737	30,600
10	2022	7,854	22,746	30,600
11	2023	6,799	23,801	30,600
12	2024	5,694	24,906	30,600
13	2025	4,539	26,061	30,600
14	2026	3,329	27,271	30,600
15	2027	2,064	28,536	30,600
16	2028	<u>740</u>	<u>29,860</u>	<u>30,600</u>
17	<b>Total</b>	<b>134,294</b>	<b>340,006</b>	<b>474,300</b>

## **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 Corps, 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 forecast additions are depreciated according to their adjusted group life.

BPA conservation investments affecting this revenue requirement use three different amortization schedules depending on when the investment occurred. Legacy investments, made before 2002, are amortized over 20 years. 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.

Corps 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 2013  
(\$000s)**

	<b>A</b>	<b>B</b>	<b>C</b>
	<b>BALANCE-AS-OF</b>		<b>AVERAGE</b>
	<b><u>9/30/2012</u></b>	<b><u>9/30/2013</u></b>	<b><u>2013</u></b>
<b>1 CORPS OF ENGINEERS</b>			
2 COMPLETED PLANT			
3 HYDROELECTRIC GEN	6,542,990	6,897,582	6,720,286
4 TRANSMISSION	<u>2,700</u>	<u>2,700</u>	<u>2,700</u>
5 TOTAL COMPLETED PLANT	6,545,690	6,900,282	6,722,986
6 ACCUMULATED DEPRECIATION			
7 HYDROELECTRIC GEN	2,132,999	2,221,662	2,177,331
8 TRANSMISSION	<u>889</u>	<u>925</u>	<u>907</u>
9 TOTAL ACCUMULATED DEPRECIATION	2,133,888	2,222,587	2,178,238
10 NET COMPLETED PLANT			
11 HYDROELECTRIC GEN	4,409,991	4,675,920	4,542,955
12 TRANSMISSION	<u>1,811</u>	<u>1,775</u>	<u>1,793</u>
13 TOTAL NET COMPLETED PLANT	4,411,802	4,677,695	4,544,748
<b>14 BUREAU OF RECLAMATION</b>			
15 COMPLETED PLANT			
16 HYDROELECTRIC GEN	1,715,587	1,854,570	1,785,079
17 TRANSMISSION	<u>77,207</u>	<u>77,207</u>	<u>77,207</u>
18 TOTAL COMPLETED PLANT	1,792,794	1,931,777	1,862,286
19 ACCUMULATED DEPRECIATION			
20 HYDROELECTRIC GEN	581,010	604,810	592,910
21 TRANSMISSION	<u>25,759</u>	<u>26,789</u>	<u>26,274</u>
22 TOTAL ACCUM DEPRECIATION	606,769	631,599	619,184
23 NET COMPLETED PLANT			
24 HYDROELECTRIC GEN	1,134,577	1,249,760	1,192,169
25 TRANSMISSION	<u>51,448</u>	<u>50,418</u>	<u>50,933</u>
26 TOTAL NET COMPLETED PLANT	1,186,025	1,300,178	1,243,102
<b>27 CONSERVATION</b>			
28 CUMULATIVE INVESTMENT	723,960	696,304	710,132
29 ACCUM PREPAID EXPENSE	406,334	361,903	384,119
30 NET CONSERVATION	317,626	334,401	326,013
<b>31 FISH AND WILDLIFE</b>			
32 CUMULATIVE INVESTMENT	415,151	453,156	434,154
33 ACCUM PREPAID EXPENSE	137,150	144,035	140,593
34 NET FISH AND WILDLIFE	278,001	309,121	293,561
<b>35 BPA PLANT (PBL)</b>			
36 CUMULATIVE INVESTMENT	53,500	81,247	67,373
37 ACCUMULATED DEPRECIATION	21,023	32,760	26,891
38 NET BPA PLANT INVESTMENT	32,477	48,487	40,482
<b>39 TOTAL NET PLANT INVESTMENT</b>	<b>6,225,930</b>	<b>6,669,882</b>	<b>6,447,906</b>



Table 4B

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

	A	B	C
	<b>BALANCE-AS-OF</b>		<b>AVERAGE</b>
	<u>9/30/2013</u>	<u>9/30/2014</u>	<u>2014</u>
<b>1 CORPS OF ENGINEERS</b>			
2 COMPLETED PLANT			
3 HYDROELECTRIC GEN	6,897,582	7,164,867	7,031,225
4 TRANSMISSION	<u>2,700</u>	<u>2,700</u>	<u>2,700</u>
5 TOTAL COMPLETED PLANT	6,900,282	7,167,567	7,033,925
6 ACCUMULATED DEPRECIATION			
7 HYDROELECTRIC GEN	2,221,662	2,314,459	2,268,061
8 TRANSMISSION	<u>925</u>	<u>961</u>	<u>943</u>
9 TOTAL ACCUMULATED DEPRECIATION	2,222,587	2,315,420	2,269,004
10 NET COMPLETED PLANT			
11 HYDROELECTRIC GEN	4,675,920	4,850,408	4,763,164
12 TRANSMISSION	<u>1,775</u>	<u>1,739</u>	<u>1,757</u>
13 TOTAL NET COMPLETED PLANT	4,677,695	4,852,147	4,764,921
<b>14 BUREAU OF RECLAMATION</b>			
15 COMPLETED PLANT			
16 HYDROELECTRIC GEN	1,854,570	1,999,956	1,927,263
17 TRANSMISSION	<u>77,207</u>	<u>77,207</u>	<u>77,207</u>
18 TOTAL COMPLETED PLANT	1,931,777	2,077,163	2,004,470
19 ACCUMULATED DEPRECIATION			
20 HYDROELECTRIC GEN	604,810	630,508	617,659
21 TRANSMISSION	<u>26,789</u>	<u>27,819</u>	<u>27,304</u>
22 TOTAL ACCUM DEPRECIATION	631,599	658,327	644,963
23 NET COMPLETED PLANT			
24 HYDROELECTRIC GEN	1,249,760	1,369,448	1,309,604
25 TRANSMISSION	<u>50,418</u>	<u>49,388</u>	<u>49,903</u>
26 TOTAL NET COMPLETED PLANT	1,300,178	1,418,836	1,359,507
<b>27 CONSERVATION</b>			
28 CUMULATIVE INVESTMENT	696,304	647,711	672,008
29 ACCUM PREPAID EXPENSE	361,903	296,900	329,402
30 NET CONSERVATION	334,401	350,811	342,606
<b>31 FISH AND WILDLIFE</b>			
32 CUMULATIVE INVESTMENT	453,156	498,683	475,920
33 ACCUM PREPAID EXPENSE	144,035	160,708	152,372
34 NET FISH AND WILDLIFE	309,121	337,975	323,548
<b>35 BPA PLANT (PBL)</b>			
36 CUMULATIVE INVESTMENT	81,247	94,182	87,714
37 ACCUMULATED DEPRECIATION	32,760	46,153	39,456
38 NET BPA PLANT INVESTMENT	48,487	48,029	48,258
<b>39 TOTAL NET PLANT INVESTMENT</b>	<b>6,669,882</b>	<b>7,007,798</b>	<b>6,838,840</b>

Table 4C

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

	A	B	C
	<b>BALANCE-AS-OF</b>		<b>AVERAGE</b>
	<u>9/30/2014</u>	<u>9/30/2015</u>	<u>2015</u>
<b>1 CORPS OF ENGINEERS</b>			
2 COMPLETED PLANT			
3 HYDROELECTRIC GEN	7,164,867	7,378,952	7,271,909
4 TRANSMISSION	<u>2,700</u>	<u>2,700</u>	<u>2,700</u>
5 TOTAL COMPLETED PLANT	7,167,567	7,381,652	7,274,609
6 ACCUMULATED DEPRECIATION			
7 HYDROELECTRIC GEN	2,314,459	2,411,159	2,362,809
8 TRANSMISSION	<u>961</u>	<u>997</u>	<u>979</u>
9 TOTAL ACCUMULATED DEPRECIATION	2,315,420	2,412,156	2,363,788
10 NET COMPLETED PLANT			
11 HYDROELECTRIC GEN	4,850,408	4,967,793	4,909,100
12 TRANSMISSION	<u>1,739</u>	<u>1,703</u>	<u>1,721</u>
13 TOTAL NET COMPLETED PLANT	4,852,147	4,969,496	4,910,821
<b>14 BUREAU OF RECLAMATION</b>			
15 COMPLETED PLANT			
16 HYDROELECTRIC GEN	1,999,956	2,071,643	2,035,800
17 TRANSMISSION	<u>77,207</u>	<u>77,207</u>	<u>77,207</u>
18 TOTAL COMPLETED PLANT	2,077,163	2,148,850	2,113,007
19 ACCUMULATED DEPRECIATION			
20 HYDROELECTRIC GEN	630,508	657,652	644,080
21 TRANSMISSION	<u>27,819</u>	<u>28,849</u>	<u>28,334</u>
22 TOTAL ACCUM DEPRECIATION	658,327	686,501	672,414
23 NET COMPLETED PLANT			
24 HYDROELECTRIC GEN	1,369,448	1,413,991	1,391,720
25 TRANSMISSION	<u>49,388</u>	<u>48,358</u>	<u>48,873</u>
26 TOTAL NET COMPLETED PLANT	1,418,836	1,462,349	1,440,593
<b>27 CONSERVATION</b>			
28 CUMULATIVE INVESTMENT	647,711	650,493	649,102
29 ACCUM PREPAID EXPENSE	296,900	260,704	278,802
30 NET CONSERVATION	350,811	389,789	370,300
<b>31 FISH AND WILDLIFE</b>			
32 CUMULATIVE INVESTMENT	498,683	536,069	517,376
33 ACCUM PREPAID EXPENSE	160,708	181,175	170,942
34 NET FISH AND WILDLIFE	337,975	354,894	346,434
<b>35 BPA PLANT (PBL)</b>			
36 CUMULATIVE INVESTMENT	94,182	106,895	100,538
37 ACCUMULATED DEPRECIATION	46,153	61,715	53,934
38 NET BPA PLANT INVESTMENT	48,029	45,180	46,604
<b>39 TOTAL NET PLANT INVESTMENT</b>	7,007,798	7,221,707	7,114,752

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

**Table 4D**  
**(\$000s)**

**FERC ACCOUNT 391.1 OFFICE FURNITURE AND FIXTURES**  
**ASL, Remaining Life, Annual Percent=5.27% 9.9% as of FY 2006**

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>
	<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	2012	-	-	-	95	1,337	1,910	573
2	2013	-	-	-	95	1,432	1,910	478
3	2014	-	-	-	95	1,527	1,910	383
4	2015	-	-	-	95	1,622	1,910	288

**Table 4E**  
**(\$000s)**

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

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>
	<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	2012	5,817	409	817	2,021	4,739	15,293	10,554
2	2013		-	-	2,712	7,451	15,293	7,842
3	2014		-	-	2,712	10,163	15,293	5,130
4	2015		-	-	2,712	12,875	15,293	2,418

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

**Table 4F**  
**(\$000s)**

**FERC ACCOUNT 391.3 DATA PROCESSING SOFTWARE**  
**ASL, Remaining Life, Annual Percent=20% 18.33% as of FY 2006**

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>
	<b>FY</b>	<b>INVEST</b>	<b>FIRST YEAR</b>	<b>FULL YEAR</b>	<b>ANNUAL DEPR</b>	<b>ACCUM DEPR</b>	<b>CUMUL INVEST</b>	<b>NET INVEST</b>	<b>CORP ADDITNS</b>	<b>PS ADDITNS</b>
1	2012	10,443	1,219	2,089	6,209	14,348	35,393	21,045	11,716	9,340
2	2013	22,762	2,276	4,552	8,702	23,050	58,155	35,105	16,877	5,885
3	2014	18,663	1,866	3,733	11,470	33,214	70,289	37,076	12,631	6,032
4	2015	19,115	1,911	3,823	13,722	45,492	82,186	36,694	12,936	6,179

**Table 4G**  
**(\$000s)**

**FERC ACCOUNT 397/398 COMMUNICATION/MISC EQUIPMENT**  
**ASL, Remaining Life, Annual Percent=6.70%**

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>
	<b>FY</b>	<b>INVEST</b>	<b>FIRST YEAR</b>	<b>FULL YEAR</b>	<b>ANNUAL DEPR</b>	<b>ACCUM DEPR</b>	<b>CUMUL INVEST</b>	<b>NET INVEST</b>
1	2012	904	45	61	45	599	904	305
2	2013	4,985	167	334	228	827	5,889	5,062
3	2014	801	27	54	422	1,249	6,690	5,441
4	2015	817	28	55	477	1,726	7,506	5,780

**Table 4H**  
**(\$000s)**

**SUMMARY - PBL GENERAL PLANT**

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
	<b>FY</b>	<b>ANNUAL DEPR</b>	<b>ACCUM DEPR</b>	<b>CUMUL INVEST</b>	<b>NET INVEST</b>
1	2012	8,370	21,023	53,500	32,477
2	2013	11,737	32,760	81,247	48,487
3	2014	14,699	46,153	94,182	48,029
4	2015	17,006	61,715	106,895	45,180

**Table 4I**

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

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>
	<b><u>FY</u></b>	<b><u>INVEST</u></b>	<b><u>FIRST YEAR</u></b>	<b><u>FULL YEAR</u></b>	<b><u>ANNUAL AMORT</u></b>	<b><u>ACCUM AMORT</u></b>	<b><u>CUMUL INVEST</u></b>	<b><u>NET INVEST</u></b>
1	2013	60,000	2,000	4,000	28,880	144,035	453,156	309,121
2	2014	60,275	2,009	4,018	31,421	160,708	498,683	337,975
3	2015	51,284	1,709	3,419	34,366	181,175	536,069	354,894

Table 4J

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

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>
	<b><u>FY</u></b>	<b><u>INVEST</u></b>	<b><u>FIRST YEAR</u></b>	<b><u>FULL YEAR</u></b>	<b><u>ANNUAL AMORT</u></b>	<b><u>ACCUM AMORT</u></b>	<b><u>CUMUL INVEST</u></b>	<b><u>NET INVEST</u></b>
1	2013	-	-	-	17,408	252,043	275,622	23,579
2	2014	-	-	-	13,930	150,943	160,592	9,649
3	2015	-	-	-	9,649	88,164	88,164	-

Table 4K

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

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>
	<b><u>FY</u></b>	<b><u>INVEST</u></b>	<b><u>FIRST</u></b>	<b><u>FULL</u></b>	<b><u>ANNUAL</u></b>	<b><u>ACCUM</u></b>	<b><u>CUMUL</u></b>	<b><u>NET</u></b>
			<b><u>YEAR</u></b>	<b><u>YEAR</u></b>	<b><u>AMORT</u></b>	<b><u>AMORT</u></b>	<b><u>INVEST</u></b>	<b><u>INVEST</u></b>
1	2013		-	-	16,106	65,247	84,157	18,910
2	2014		-	-	13,682	70,166	75,394	5,228
3	2015		-	-	5,228	58,604	58,604	-

Table 4L

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

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>
	<b><u>FY</u></b>	<b><u>INVEST</u></b>	<b><u>FIRST</u></b>	<b><u>FULL</u></b>	<b><u>ANNUAL</u></b>	<b><u>ACCUM</u></b>	<b><u>CUMUL</u></b>	<b><u>NET</u></b>
			<b><u>YEAR</u></b>	<b><u>YEAR</u></b>	<b><u>AMORT</u></b>	<b><u>AMORT</u></b>	<b><u>INVEST</u></b>	<b><u>INVEST</u></b>
1	2013	75,200	3,134	6,267	24,911	44,614	336,526	291,912
2	2014	75,200	3,134	6,267	31,178	75,792	411,726	335,934
3	2015	92,000	3,834	7,667	38,145	113,937	503,726	389,789
4	2016	94,700	3,946	7,892	45,924	159,861	598,426	438,565
5	2017	97,600	4,067	8,133	53,937	213,798	696,026	482,228
6	2018	100,600	4,192	8,383	62,195	275,993	796,626	520,633
7	2019	103,600	4,317	8,633	70,703	346,696	900,226	553,530
8	2020	106,653	4,444	8,888	79,463	426,159	1,006,879	580,720
9	2021	109,853	4,577	9,154	88,484	514,643	1,116,732	602,089
10	2022	109,853	4,577	9,154	97,638	612,281	1,226,585	614,304
11	2023	109,853	4,577	9,154	102,604	714,885	1,336,438	621,553
12	2024	109,853	4,577	9,154	100,433	666,444	1,297,416	630,972
13	2025	109,853	4,577	9,154	100,185	654,177	1,294,817	640,640
14	2026	109,853	4,577	9,154	103,072	682,049	1,329,470	647,421
15	2027	109,853	4,577	9,154	105,259	712,108	1,364,123	652,015
16	2028	109,853	4,577	9,154	106,634	726,742	1,381,976	655,234
17	2029	109,853	4,577	9,154	107,783	739,825	1,397,129	657,304
18	2030	109,853	4,577	9,154	108,679	750,904	1,409,381	658,477

Table 4M

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

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
	Table 4M													
	INVESTMENT	2013	2013	2013	INVESTMENT	2014	2014	2014	INVESTMENT	2015	2015	2015	INVESTMENT	
	<u>9/30/2012</u>	<u>ADDTNS</u>	<u>DEPR</u>	<u>ACCUM</u>	<u>9/30/2013</u>	<u>ADDTNS</u>	<u>DEPR</u>	<u>ACCUM</u>	<u>9/30/2014</u>	<u>ADDTNS</u>	<u>DEPR</u>	<u>ACCUM</u>	<u>9/30/2015</u>	
6	<b>BOISE</b>													
7	GENERATION	30,170	2,029	415	10,649	32,142	-	428	11,077	32,085	-	427	11,504	32,028
8	<b>COLUMBIA BASIN</b>													
9	GENERATION	1,414,799	137,029	19,746	489,740	1,547,050	137,883	21,515	511,255	1,680,155	74,568	22,867	534,122	1,749,945
10	TRANSMISSION /DELIVERY	<u>73,795</u>		<u>984</u>	<u>25,499</u>	<u>73,795</u>		<u>984</u>	<u>26,483</u>	<u>73,795</u>		<u>984</u>	<u>27,467</u>	<u>73,795</u>
11	TOTAL	1,488,594	137,029	20,730	515,239	1,620,845	137,883	22,499	537,738	1,753,950	74,568	23,851	561,589	1,823,740
12	<b>GREEN SPRINGS</b>													
13	GENERATION	10,889	-	145	8,617	10,889	4,403	175	8,792	15,292	2,047	218	9,010	17,339
14	<b>HUNGRY HORSE</b>													
15	GENERATION	133,747	1,984	1,796	57,231	135,649	1,665	1,819	59,050	137,232	-	1,829	60,879	137,150
16	TRANSMISSION /DELIVERY	<u>2,019</u>		<u>27</u>	<u>864</u>	<u>2,019</u>		<u>27</u>	<u>891</u>	<u>2,019</u>		<u>27</u>	<u>918</u>	<u>2,019</u>
17	TOTAL	135,766	1,984	1,823	58,095	137,668	1,665	1,846	59,941	139,251	-	1,856	61,797	139,169
18	<b>MINIDOKA-PALISADES</b>													
19	GENERATION	112,605	1,353	1,510	34,431	113,950	183	1,521	35,952	114,125	-	1,522	37,474	114,117
20	TRANSMISSION /DELIVERY	<u>1,393</u>		<u>19</u>	<u>426</u>	<u>1,393</u>		<u>19</u>	<u>445</u>	<u>1,393</u>		<u>19</u>	<u>464</u>	<u>1,393</u>
21	TOTAL	113,998	1,353	1,529	34,857	115,343	183	1,540	36,397	115,518	-	1,541	37,938	115,510
22	<b>YAKIMA</b>													
23	GENERATION	13,377	1,516	188	4,142	14,890	6,180	240	4,382	21,067	-	281	4,663	21,064
24	<b>TOTAL USBR</b>													
25		<b>1,792,794</b>	<b>143,911</b>	<b>24,830</b>	<b>631,599</b>	<b>1,931,777</b>	<b>150,314</b>	<b>26,728</b>	<b>658,327</b>	<b>2,077,163</b>	<b>76,615</b>	<b>28,174</b>	<b>686,501</b>	<b>2,148,850</b>
26														
27	GENERATION	1,715,587		23,800	604,810	1,854,570		25,698	630,508	1,999,956		27,144	657,652	2,071,643
28	TRANSMISSION	<u>77,207</u>		<u>1,030</u>	<u>26,789</u>	<u>77,207</u>		<u>1,030</u>	<u>27,819</u>	<u>77,207</u>		<u>1,030</u>	<u>28,849</u>	<u>77,207</u>
29	TOTAL	<b>1,792,794</b>		<b>24,830</b>	<b>631,599</b>	<b>1,931,777</b>		<b>26,728</b>	<b>658,327</b>	<b>2,077,163</b>		<b>28,174</b>	<b>686,501</b>	<b>2,148,850</b>



Table 4N

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

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1		INVESTMENT	2013	2013	2013	INVESTMENT	2014	2014	2014	INVESTMENT	2015	2015	2015	INVESTMENT	
2		9/30/2012	ADDTNS	DEPR	ACCUM	9/30/2013	ADDTNS	DEPR	ACCUM	9/30/2014	ADDTNS	DEPR	ACCUM	9/30/2015	
3				EXP	DEPR			EXP	DEPR			EXP	DEPR		
4	BONNEVILLE														
5	GENERATION	1,051,724	67,144	14,458	361,487	1,116,937	29,828	15,078	376,565	1,144,834	17,683	15,369	391,934	1,160,586	
6	TRANSMISSION	2,700		36	925	2,700		36	961	2,700		36	997	2,700	
7	TOTAL	1,054,424	67,144	14,494	362,412	1,119,637	29,828	15,114	377,526	1,147,534	17,683	15,405	392,931	1,163,286	
8	OTHER PROJECTS														
9	(GENERATION ONLY)														
10	ALBENI FALLS	48,847	8,269	706	20,967	57,004	7,662	810	21,777	64,554	210	861	22,638	64,652	
11	CHIEF JOSEPH	616,800	4,574	8,251	282,026	620,898	8,665	8,333	290,359	629,087	2,617	8,402	298,761	631,228	
12	COUGAR	43,049	692	579	5,993	43,741	2,500	600	6,593	46,241	0	617	7,210	46,241	
13	DETROIT-BIG CLIFF	64,399	14,138	953	27,467	78,537	13,293	1,136	28,603	91,830	19,181	1,352	29,955	111,011	
14	DWORSHAK	305,215	9,738	4,133	109,282	314,745	1,343	4,204	113,486	315,880	0	4,210	117,696	315,672	
15	GREEN PETER-FOSTER	56,798	0	757	23,090	56,791	1,236	765	23,855	58,021	8,450	830	24,685	66,464	
16	HILLS CREEK	21,249	3,501	307	12,158	24,750	4,813	362	12,520	29,563	0	394	12,914	29,563	
17	ICE HARBOR	173,806	13,636	2,408	80,189	187,374	7,958	2,551	82,740	195,263	0	2,603	85,343	195,195	
18	JOHN DAY	523,655	21,530	7,124	216,257	544,951	1,470	7,274	223,531	546,187	2,944	7,301	230,832	548,897	
19	LIBBY	440,737	3,350	5,897	150,589	443,805	0	5,916	156,505	443,524	3,556	5,935	162,440	446,798	
20	LITTLE GOOSE	224,692	4,889	3,026	100,144	229,244	12,996	3,141	103,285	241,904	5,576	3,260	106,545	247,144	
21	LOOKOUT POINT-DEXTER	61,844	1,063	830	39,363	62,684	539	838	40,201	63,001	24,245	1,000	41,201	87,024	
22	LOST CREEK	28,619	0	382	12,539	28,618	2,591	399	12,938	31,209	0	416	13,354	31,208	
23	LOWER GRANITE	373,310	14,937	5,075	131,929	387,992	3,891	5,197	137,126	391,627	0	5,220	142,346	391,372	
24	LOWER MONUMENTAL	255,063	20,027	3,534	110,617	274,969	4,415	3,695	114,312	279,262	0	3,723	118,035	279,140	
25	MCMARY	358,329	7,046	4,820	187,392	364,664	6,175	4,899	192,291	370,128	84,697	5,495	197,786	454,114	
26	THE DALLES	415,935	23,929	5,704	200,161	439,657	20,300	5,996	206,157	459,750	11,638	6,206	212,363	471,181	
27	LOWER SNAKE F&W	246,249		3,283	1,432	246,249		3,283	4,715	246,249		3,283	7,998	246,249	
28	COLUMBIA R. FISH BYPASS	1,232,671	141,823	16,436	148,580	1,373,972	143,303	18,320	166,900	1,516,753	38,981	20,223	187,123	1,555,212	
29	TOTAL OTHER	5,491,266	293,142	74,205	1,860,175	5,780,645	243,150	77,719	1,937,894	6,020,033	202,095	81,331	2,019,225	6,218,366	
30															
31	<b>TOTAL CORPS</b>	<b>6,545,690</b>	<b>360,286</b>	<b>88,699</b>	<b>2,222,587</b>	<b>6,900,282</b>	<b>272,978</b>	<b>92,833</b>	<b>2,315,420</b>	<b>7,167,567</b>	<b>219,778</b>	<b>96,736</b>	<b>2,412,156</b>	<b>7,381,652</b>	
32															
33	GENERATION	6,542,990		88,663	2,221,662	6,897,582		92,797	2,314,459	7,164,867		96,700	2,411,159	7,378,952	
34	TRANSMISSION	2,700		36	925	2,700		36	961	2,700		36	997	2,700	
35	<b>TOTAL</b>	<b>6,545,690</b>		<b>88,699</b>	<b>2,222,587</b>	<b>6,900,282</b>		<b>92,833</b>	<b>2,315,420</b>	<b>7,167,567</b>		<b>96,736</b>	<b>2,412,156</b>	<b>7,381,652</b>	
36															
37	1/ Includes USFW Plant Investment	242,068		3,228	44,903	242,068		3,228	48,131	242,068		3,228	51,359	242,068	
38	2/ Includes FAS 71 Intangible Asset	579,675		7,729	40,800	579,675		7,729	48,529	579,675		7,729	56,258	579,675	
39															
40		<u>Gross Plant</u>	<u>Net Plant</u>		<u>Acc Dep</u>	<u>Gross Plant</u>	<u>Net Plant</u>		<u>Acc Dep</u>	<u>Gross Plant</u>	<u>Net Plant</u>		<u>Acc Dep</u>	<u>Gross Plant</u>	<u>Net Plant</u>
41	COE portion of Big 10	3,993,314	2,377,512		1,670,202	4,166,685	2,496,483	56,164	1,726,366	4,258,043	2,531,677		1,783,945	4,378,858	2,673,510
42	F&W portion	1,478,920	1,348,627		150,012	1,620,221	1,470,209		171,615	1,763,002	1,591,387		195,121	1,801,461	1,559,461

## **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 separately for the program 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 on the BPA Fund/Investments. The resulting interest income is applied as a credit against interest expense in the generation revenue requirements.

### **5.3 Interest credits on funds held for others**

The expected draw down of funds held for others (FHFO) is added to the ending rate period FHFO cash balance and averaged with the starting cash balance. The expected drawdown of FHFO is due to forecast residential exchange payments and an anticipated decline in energy efficiency revenues. The projected interest earnings rate is multiplied by the FHFO average cash balance to determine the annual interest income. The resulting interest income on FHFO is applied as a credit against interest expense in the generation revenue requirement.

### **5.4 Interest credits on prepay funds**

The funds generated by the prepay program are held in the Bonneville Fund and earn interest until they have been expended. The interest earnings reflect the expected drawdown of the funds. The method for calculating interest is the same as that used to calculate total interest income.

### **5.5 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 Corps 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)**

	<b>A</b>	<b>B</b>
	<b><u>2014</u></b>	<b><u>2015</u></b>
1 Annual Cash Surplus/(Deficit)	-	-
2 SOY Cash Balance	135,000	135,000
3 EOY Cash Balance	135,000	135,000
4 Average Cash Balance	135,000	135,000
5 Interest Income Rate	1.39%	2.09%
6 Interest on BPA Fund/Investments (ln 4 x ln 5)	1,877	2,822
7 Repayment Study Interest Income	3,514	3,892
<b>8 Annual Interest Income (ln 6+7+12+17)</b>	<b>15,806</b>	<b>13,829</b>
<b>Interest Earned on Funds Held for Others</b>		
9 SOY Cash Balance	253,517	245,118
10 EOY Cash Balance	245,118	241,000
11 Average Cash Balance	249,317	243,059
12 Interest Income (ln 11 x ln 5)	3,466	5,080
<b>Interest Earned on Prepayment Program Proceeds</b>		
13 SOY Cash Balance	253,483	94,882
14 EOY Cash Balance	94,882	-
15 Average Cash Balance	174,183	47,441
16 BPA Fund Rate	3.99%	4.29%
17 Interest Income (ln 15 x ln 16)	6,950	2,035

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

	<b>A</b>	<b>B</b>
	<b><u>2014</u></b>	<b><u>2015</u></b>
1 Annual Cash Surplus/(Deficit)	(86,507)	(87,503)
2 Adjustments	(750)	(750)
3 SOY Cash Balance	135,000	50,374
4 EOY Cash Balance	47,614	(38,004)
5 Average Cash Balance	91,307	6,185
6 Interest Income Rate	1.39%	2.09%
7 Interest on BPA Fund/Investments (ln 5 X ln 6)	1,270	133
8 Repayment Study Interest Income	3,514	3,892
<b>9 Annual Interest Income (ln 7+8+13+18)</b>	<b>15,199</b>	<b>11,140</b>
<b>Interest Earned on Funds Held for Others</b>		
10 SOY Cash Balance	253,517	245,118
11 EOY Cash Balance	245,118	241,000
12 Average Cash Balance	249,317	243,059
13 Interest Income (ln 12 x ln 6)	3,466	5,080
<b>Interest Earned on Prepayment Program Proceeds</b>		
14 SOY Cash Balance	253,483	94,882
15 EOY Cash Balance	94,882	-
16 Average Cash Balance	174,183	47,441
17 BPA Fund Rate	3.99%	4.29%
18 Interest Income (ln 16 x ln 17)	6,950	2,035

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

	<b>A</b>	<b>B</b>
	<b><u>2014</u></b>	<b><u>2015</u></b>
1 Annual Cash Surplus/(Deficit)	6,407	(9,510)
2 Adjustments	(750)	(750)
3 SOY Cash Balance	135,000	144,061
4 EOY Cash Balance	140,654	133,804
5 Average Cash Balance	137,827	138,933
6 Interest Income Rate	1.39%	2.09%
7 Interest on BPA Fund/Investments (ln 5 X ln 6)	1,916	2,904
8 Repayment Study Interest Income	3,514	3,892
<b>9 Annual Interest Income (ln 7+8+13+18)</b>	<b>15,845</b>	<b>13,911</b>
<b>Interest Earned on Funds Held for Others</b>		
10 SOY Cash Balance	253,517	245,118
11 EOY Cash Balance	245,118	241,000
12 Average Cash Balance	249,317	243,059
13 Interest Income (ln 12 x ln 6)	3,466	5,080
<b>Interest Earned on Prepayment Program Proceeds</b>		
14 SOY Cash Balance	253,483	94,882
15 EOY Cash Balance	94,882	-
16 Average Cash Balance	174,183	47,441
17 BPA Fund Rate	3.99%	4.29%
18 Interest Income (ln 16 x ln 17)	6,950	2,035

## **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 Corps 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 222 basis points depending on the length of time to maturity and call option. 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.

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.

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

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 2014-2015 spending levels they are based on the price deflators from the September 2012 GI Base Case forecast.

# memorandum

DATE: November 23, 2012

REPLY TO  
ATTN OF: FTC-2

SUBJECT: FY 2013 Interest Rate and Inflation Forecast

TO: See Attached "cc:" List

Please see the attached BPA interest rate and inflation forecast for the period FY 2013 through 2042.

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 2013 forecast is summarized in the following tables:

- Table 1: 30 Year Treasury Yields and BPA Borrowing Rates
- Table 2: Forecast Comparison – 30 Year BPA Borrowing Rate – Callable at Par
- Table 3: 20 Year Treasury Yields and BPA Borrowing Rates
- Table 4: 15 Year Treasury Yields and BPA Borrowing Rates
- Table 5: BPA FY 2013 Appropriation Borrowing Rate Forecast
- Table 6: BPA FY 2013 BPA Borrowing Rate – No Premium
- Table 7: BPA FY 2013 BPA Borrowing Rate – Coupon Scale-Down Redemption Premium
- Table 8: BPA FY 2013 BPA Borrowing Rate – Callable at Par
- Table 9: BPA FY 2013 Third-Party Taxable Borrowing Rate Forecast
- Table 10: BPA FY 2013 Third-Party Tax-Exempt Borrowing Rate Forecast
- Table 11: BPA FY 2013 FERC Borrowing Rate (Bank Prime) Forecast
- Table 12: BPA FY 2013 May 3-Month LIBOR Rate Forecast
- Table 13: Comparison of FY 2013 Inflation Forecast Components

## **Borrowing Rate Forecast Methodology**

The FY 2013 forecast is based on the IHS Global Insight (GI) Third Quarter September 2012 Long-Term Economic Outlook.

Tables 1, 3 and 4 illustrate the components of BPA's Treasury borrowing rate forecasts. GI calendar year (CY) projections of 30, 15 and 20-year Treasury bond yields are shown in Column A of the corresponding Tables. BPA fiscal year (FY) projections are shown in Column B. Column C, D and E reflect BPA's Treasury borrowing rate options.

BPA borrowing rates from the U.S. Treasury reflect a credit spread over the Treasury yield curve. Table 6 is the Government Agency borrowing rate and reflects the rate BPA would borrow at without a call premium. The other two rates (Table 7 and Table 8) reflect the two additional borrowing options BPA can exercise with Treasury; callable at par and coupon scale-down. Callable at par allows BPA to redeem the bond before maturity without paying a call

premium at the time of the call. The cost of this call option results in a spread over the coupon rate, resulting in higher interest expense paid over the life of the bond. With a coupon scale-down call option the call premium is determined at the time of bond issuance for each option call date over the bond's term; the call premium is only paid if the bond is called. In addition to paying a call premium at the time the bond is called, there is also a spread over the coupon rate for the coupon scale-down option. These two options are calculated using historical spread premiums.

### **Table Descriptions**

*Tables 1, 3 and 4:* Shows the steps involved to arrive at the BPA borrowing rate.

*Table 2:* Shows the difference between the BPA borrowing rate - callable at par between last year and this year.

*Table 5:* Forecasts a rate equivalent to the Treasury yield curve.

*Table 6:* Forecasts the rate at which Bonneville would borrow from Treasury when using Borrowing Authority, without including any premiums (make-whole call).

*Table 7:* Forecasts the rate at which Bonneville would borrow from Treasury for a bullet bond with a coupon scale-down redemption premium.

*Table 8:* Forecasts the rate at which Bonneville would borrow from Treasury for a bullet bond callable at par.

*Table 9:* Forecasts the rate at which Bonneville would back third-party bonds on a taxable basis, as with Bonneville-backed Port of Morrow bonds.

*Table 10:* Forecasts the rate at which Bonneville would back third-party bonds on a tax-exempt basis, as with Bonneville-backed Energy Northwest bonds.

*Table 11:* Forecasts the Prime rate, the rate at which banks charge interest for their most creditworthy customers.

*Table 12:* Forecasts the 3-month LIBOR rate, the rate charged by London banks, used as a benchmark rate worldwide.

*Table 13:* Forecasts the projected change in the Gross Domestic Product (GDP) price deflator and compares to the FY 2012 inflation forecast. The table also forecasts future inflation rates.

### **Inflation Forecast**

BPA inflation assumptions reflect projected changes in the U.S. GDP Price Deflator. The GDP Price Deflator is a broad 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 2012 inflation forecast is summarized in Table 13. Column A shows the projected trend in GDP inflation rates between 2013-2042 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.



If you have questions, or suggestions concerning the FY 2013 Common Agency Assumptions, please contact Anna-Lisa Miller at (503) 230-4243.



Anna-Lisa Miller  
Financial Analyst, Debt and Investment Management

Attachment

Table 1  
**30 Year Treasury Yields and BPA Borrowing Rates**  
 FY 2013 Forecast of BPA Borrowing Rates

Calendar/Fiscal Years 2013-2042

<u>Year</u>	A	B	C	D	E
	Bond Rate 1/ <u>Calendar Year</u>	Bond Rate <u>Fiscal Year</u>	BPA Rate 2/ No Premium <u>Fiscal Year</u>	BPA Rate 3/ Coupon Scale-Down <u>Fiscal Year</u>	BPA Rate 4/ Callable at Par <u>Fiscal Year</u>
2012	3.90				
2013	3.22	3.39	4.11	5.31	5.61
2014	4.05	3.84	4.51	5.51	5.76
2015	4.58	4.45	5.06	5.91	6.11
2016	5.27	5.09	5.65	6.20	6.37
2017	5.38	5.35	5.85	6.25	6.40
2018	5.38	5.38	5.88	6.33	6.43
2019	5.38	5.38	5.88	6.33	6.43
2020	5.38	5.38	5.88	6.33	6.43
2021	5.38	5.38	5.88	6.33	6.43
2022	5.38	5.38	5.88	6.33	6.43
2023	5.38	5.38	5.88	6.33	6.43
2024	5.38	5.38	5.88	6.33	6.43
2025	5.38	5.38	5.88	6.33	6.43
2026	5.38	5.38	5.88	6.33	6.43
2027	5.38	5.38	5.88	6.33	6.43
2028	5.38	5.38	5.88	6.33	6.43
2029	5.38	5.38	5.88	6.33	6.43
2030	5.38	5.38	5.88	6.33	6.43
2031	5.38	5.38	5.88	6.33	6.43
2032	5.38	5.38	5.88	6.33	6.43
2033	5.38	5.38	5.88	6.33	6.43
2034	5.38	5.38	5.88	6.33	6.43
2035	5.38	5.38	5.88	6.33	6.43
2036	5.38	5.38	5.88	6.33	6.43
2037	5.38	5.38	5.88	6.33	6.43
2038	5.38	5.38	5.88	6.33	6.43
2039	5.38	5.38	5.88	6.33	6.43
2040	5.38	5.38	5.88	6.33	6.43
2041	5.38	5.38	5.88	6.33	6.43
2042	5.38	5.38	5.88	6.33	6.43

1/ Global Insight: The U.S. Economy: 30-Year Focus, August 2012 Forecast, Base Case.

2/ Column C = Column B + U.S. Treasury borrowing markup, no premium

3/ Column D = Column B + U.S. Treasury borrowing markup + Coupon Scale-Down premium

4/ Column E = Column B + U.S. Treasury borrowing markup + Callable at Par premium

Table 2  
**Forecast Comparison - 30 Year BPA Borrowing Rate - Callable at Par**  
 BPA FY 2013 vs. BPA FY 2012

Calendar/Fiscal Years 2013-2042

<u>Year</u>	A FY 2013 Forecast BPA Rate 1/ <u>Callable at Par</u>	B FY 2012 Forecast BPA Rate 2/ <u>Callable at Par</u>	C Difference <u>(A-B)</u>
2013	5.61	5.91	-0.30
2014	5.76	6.02	-0.26
2015	6.11	6.20	-0.09
2016	6.37	6.31	0.06
2017	6.40	6.32	0.08
2018	6.43	6.32	0.11
2019	6.43	6.32	0.11
2020	6.43	6.32	0.11
2021	6.43	6.32	0.11
2022	6.43	6.32	0.11
2023	6.43	6.32	0.11
2024	6.43	6.32	0.11
2025	6.43	6.32	0.11
2026	6.43	6.32	0.11
2027	6.43	6.32	0.11
2028	6.43	6.32	0.11
2029	6.43	6.32	0.11
2030	6.43	6.32	0.11
2031	6.43	6.32	0.11
2032	6.43	6.32	0.11
2033	6.43	6.32	0.11
2034	6.43	6.32	0.11
2035	6.43	6.32	0.11
2036	6.43	6.32	0.11
2037	6.43	6.32	0.11
2038	6.43	6.32	0.11
2039	6.43	6.32	0.11
2040	6.43	6.32	0.11
2041	6.43	6.32	0.11
2042	6.43		

1/ Global Insight: The U.S. Economy: 30-Year Focus, August 2012 Forecast, Base Case.

2/ Global Insight The U.S. Economy: 30-year Focus, September 2011 Forecast, Base Case.

Table 3  
**20 Year Treasury Yields and BPA Borrowing Rates**  
 FY 2013 Forecast of BPA Borrowing Rates

Calendar/Fiscal Years 2013-2042

<u>Year</u>	A	B	C	D	E
	Bond Rate 1/ <u>Calendar Year</u>	Bond Rate <u>Fiscal Year</u>	BPA Rate 2/ No Premium <u>Fiscal Year</u>	BPA Rate 3/ Coupon Scale-Down <u>Fiscal Year</u>	BPA Rate 4/ Callable at Par <u>Fiscal Year</u>
2012	3.29				
2013	2.69	2.84	3.44	4.47	4.77
2014	3.54	3.33	3.90	4.75	5.00
2015	4.25	4.07	4.62	5.37	5.57
2016	5.00	4.81	5.34	5.78	5.95
2017	5.13	5.10	5.59	5.88	6.04
2018	5.13	5.13	5.63	5.95	6.08
2019	5.13	5.13	5.63	5.95	6.08
2020	5.13	5.13	5.63	5.95	6.08
2021	5.13	5.13	5.63	5.95	6.08
2022	5.13	5.13	5.63	5.95	6.08
2023	5.13	5.13	5.63	5.95	6.08
2024	5.13	5.13	5.63	5.95	6.08
2025	5.13	5.13	5.63	5.95	6.08
2026	5.13	5.13	5.63	5.95	6.08
2027	5.13	5.13	5.63	5.95	6.08
2028	5.13	5.13	5.63	5.95	6.08
2029	5.13	5.13	5.63	5.95	6.08
2030	5.13	5.13	5.63	5.95	6.08
2031	5.13	5.13	5.63	5.95	6.08
2032	5.13	5.13	5.63	5.95	6.08
2033	5.13	5.13	5.63	5.95	6.08
2034	5.13	5.13	5.63	5.95	6.08
2035	5.13	5.13	5.63	5.95	6.08
2036	5.13	5.13	5.63	5.95	6.08
2037	5.13	5.13	5.63	5.95	6.08
2038	5.13	5.13	5.63	5.95	6.08
2039	5.13	5.13	5.63	5.95	6.08
2040	5.13	5.13	5.63	5.95	6.08
2041	5.13	5.13	5.63	5.95	6.08
2042	5.13	5.13	5.63	5.95	6.08

1/ Global Insight: The U.S. Economy: 30-Year Focus, August 2012 Forecast, Base Case.

2/ Column C = Column B + U.S. Treasury borrowing markup, no premium

3/ Column D = Column B + U.S. Treasury borrowing markup + Coupon Scale-Down premium

4/ Column E = Column B + U.S. Treasury borrowing markup + Callable at Par premium

Table 4  
**15 Year Treasury Yields and BPA Borrowing Rates**  
 FY 2013 Forecast of BPA Borrowing Rates

Calendar/Fiscal Years 2013-2042

Year	A	B	C	D	E
	Bond Rate 1/ <u>Calendar Year</u>	Bond Rate <u>Fiscal Year</u>	BPA Rate 2/ No Premium <u>Fiscal Year</u>	BPA Rate 3/ Coupon Scale-Down <u>Fiscal Year</u>	BPA Rate 4/ Callable at Par <u>Fiscal Year</u>
2012	2.99				
2013	2.42	2.57	3.11	4.05	4.35
2014	3.28	3.07	3.60	4.38	4.63
2015	4.08	3.88	4.40	5.10	5.30
2016	4.87	4.67	5.18	5.56	5.73
2017	5.00	4.97	5.47	5.70	5.87
2018	5.00	5.00	5.50	5.76	5.90
2019	5.00	5.00	5.50	5.76	5.90
2020	5.00	5.00	5.50	5.76	5.90
2021	5.00	5.00	5.50	5.76	5.90
2022	5.00	5.00	5.50	5.76	5.90
2023	5.00	5.00	5.50	5.76	5.90
2024	5.00	5.00	5.50	5.76	5.90
2025	5.00	5.00	5.50	5.76	5.90
2026	5.00	5.00	5.50	5.76	5.90
2027	5.00	5.00	5.50	5.76	5.90
2028	5.00	5.00	5.50	5.76	5.90
2029	5.00	5.00	5.50	5.76	5.90
2030	5.00	5.00	5.50	5.76	5.90
2031	5.00	5.00	5.50	5.76	5.90
2032	5.00	5.00	5.50	5.76	5.90
2033	5.00	5.00	5.50	5.76	5.90
2034	5.00	5.00	5.50	5.76	5.90
2035	5.00	5.00	5.50	5.76	5.90
2036	5.00	5.00	5.50	5.76	5.90
2037	5.00	5.00	5.50	5.76	5.90
2038	5.00	5.00	5.50	5.76	5.90
2039	5.00	5.00	5.50	5.76	5.90
2040	5.00	5.00	5.50	5.76	5.90
2041	5.00	5.00	5.50	5.76	5.90
2042	5.00	5.00	5.50	5.76	5.90

1/ Global Insight: The U.S. Economy: 30-Year Focus, August 2012 Forecast, Base Case.

2/ Column C = Column B + U.S. Treasury borrowing markup, no premium

3/ Column D = Column B + U.S. Treasury borrowing markup + Coupon Scale-Down premium

4/ Column E = Column B + U.S. Treasury borrowing markup + Callable at Par premium

Table 5  
**BPA FY 2013 Appropriation Borrowing Rate Forecast 1/**

Fiscal Years 2013-2042  
 (continued on next page)

**Maturity**

<b><u>Year</u></b>	<b><u>1 Year</u></b>	<b><u>2 Year</u></b>	<b><u>3 Year</u></b>	<b><u>4 Year</u></b>	<b><u>5 Year</u></b>	<b><u>6 Year</u></b>	<b><u>7 Year</u></b>	<b><u>8 Year</u></b>	<b><u>9 Year</u></b>	<b><u>10 Year</u></b>	<b><u>11 Year</u></b>	<b><u>12 Year</u></b>	<b><u>13 Year</u></b>	<b><u>14 Year</u></b>	<b><u>15 Year</u></b>
<b>2013 2/</b>	0.23	0.29	0.41	0.57	0.79	1.01	1.23	1.44	1.63	1.78	1.89	2.00	2.08	2.13	2.24
<b>2014</b>	0.41	0.68	0.98	1.28	1.59	1.83	2.08	2.32	2.57	2.81	2.86	2.91	2.97	3.02	3.07
<b>2015</b>	1.80	2.05	2.27	2.49	2.72	2.91	3.11	3.30	3.50	3.69	3.73	3.77	3.81	3.84	3.88
<b>2016</b>	3.50	3.65	3.77	3.89	4.01	4.12	4.22	4.32	4.43	4.53	4.56	4.59	4.61	4.64	4.67
<b>2017</b>	4.05	4.15	4.25	4.35	4.44	4.52	4.60	4.68	4.76	4.84	4.87	4.89	4.92	4.94	4.97
<b>2018</b>	4.10	4.19	4.29	4.38	4.48	4.56	4.64	4.72	4.80	4.88	4.90	4.93	4.95	4.98	5.00
<b>2019</b>	4.10	4.19	4.29	4.38	4.48	4.56	4.64	4.72	4.80	4.88	4.90	4.93	4.95	4.98	5.00
<b>2020</b>	4.10	4.19	4.29	4.38	4.48	4.56	4.64	4.72	4.80	4.88	4.90	4.93	4.95	4.98	5.00
<b>2021</b>	4.10	4.19	4.29	4.38	4.48	4.56	4.64	4.72	4.80	4.88	4.90	4.93	4.95	4.98	5.00
<b>2022</b>	4.10	4.19	4.29	4.38	4.48	4.56	4.64	4.72	4.80	4.88	4.90	4.93	4.95	4.98	5.00
<b>2023</b>	4.10	4.19	4.29	4.38	4.48	4.56	4.64	4.72	4.80	4.88	4.90	4.93	4.95	4.98	5.00
<b>2024</b>	4.10	4.19	4.29	4.38	4.48	4.56	4.64	4.72	4.80	4.88	4.90	4.93	4.95	4.98	5.00
<b>2025</b>	4.10	4.19	4.29	4.38	4.48	4.56	4.64	4.72	4.80	4.88	4.90	4.93	4.95	4.98	5.00
<b>2026</b>	4.10	4.19	4.29	4.38	4.48	4.56	4.64	4.72	4.80	4.88	4.90	4.93	4.95	4.98	5.00
<b>2027</b>	4.10	4.19	4.29	4.38	4.48	4.56	4.64	4.72	4.80	4.88	4.90	4.93	4.95	4.98	5.00
<b>2028</b>	4.10	4.19	4.29	4.38	4.48	4.56	4.64	4.72	4.80	4.88	4.90	4.93	4.95	4.98	5.00
<b>2029</b>	4.10	4.19	4.29	4.38	4.48	4.56	4.64	4.72	4.80	4.88	4.90	4.93	4.95	4.98	5.00
<b>2030</b>	4.10	4.19	4.29	4.38	4.48	4.56	4.64	4.72	4.80	4.88	4.90	4.93	4.95	4.98	5.00
<b>2031</b>	4.10	4.19	4.29	4.38	4.48	4.56	4.64	4.72	4.80	4.88	4.90	4.93	4.95	4.98	5.00
<b>2032</b>	4.10	4.19	4.29	4.38	4.48	4.56	4.64	4.72	4.80	4.88	4.90	4.93	4.95	4.98	5.00
<b>2033</b>	4.10	4.19	4.29	4.38	4.48	4.56	4.64	4.72	4.80	4.88	4.90	4.93	4.95	4.98	5.00
<b>2034</b>	4.10	4.19	4.29	4.38	4.48	4.56	4.64	4.72	4.80	4.88	4.90	4.93	4.95	4.98	5.00
<b>2035</b>	4.10	4.19	4.29	4.38	4.48	4.56	4.64	4.72	4.80	4.88	4.90	4.93	4.95	4.98	5.00
<b>2036</b>	4.10	4.19	4.29	4.38	4.48	4.56	4.64	4.72	4.80	4.88	4.90	4.93	4.95	4.98	5.00
<b>2037</b>	4.10	4.19	4.29	4.38	4.48	4.56	4.64	4.72	4.80	4.88	4.90	4.93	4.95	4.98	5.00
<b>2038</b>	4.10	4.19	4.29	4.38	4.48	4.56	4.64	4.72	4.80	4.88	4.90	4.93	4.95	4.98	5.00
<b>2039</b>	4.10	4.19	4.29	4.38	4.48	4.56	4.64	4.72	4.80	4.88	4.90	4.93	4.95	4.98	5.00
<b>2040</b>	4.10	4.19	4.29	4.38	4.48	4.56	4.64	4.72	4.80	4.88	4.90	4.93	4.95	4.98	5.00
<b>2041</b>	4.10	4.19	4.29	4.38	4.48	4.56	4.64	4.72	4.80	4.88	4.90	4.93	4.95	4.98	5.00
<b>2042</b>	4.10	4.19	4.29	4.38	4.48	4.56	4.64	4.72	4.80	4.88	4.90	4.93	4.95	4.98	5.00

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2012 Forecast, Base Case.

2\ FY 2012 Appropriation rates are determined in accordance with BPA Appropriations Refinancing Act, 16 U.S.C. 8381 enacted on April 26, 1996, and are independent of the Global Insight Treasury Yield forecasts.

Table 5  
**BPA FY 2013 Appropriation Borrowing Rate Forecast 1/**

Fiscal Years 2013-2042

<u>Maturity</u>																
<u>16 Year</u>	<u>17 Year</u>	<u>18 Year</u>	<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>
2.27	2.38	2.38	2.47	2.50	2.50	2.56	2.63	2.63	2.63	2.75	2.75	2.77	2.88	2.88	2.88	<b>2013 2/</b>
3.12	3.17	3.22	3.28	3.33	3.38	3.43	3.48	3.53	3.59	3.64	3.69	3.74	3.79	3.84	3.84	<b>2014</b>
3.92	3.96	4.00	4.03	4.07	4.11	4.15	4.18	4.22	4.26	4.30	4.33	4.37	4.41	4.45	4.45	<b>2015</b>
4.70	4.73	4.76	4.78	4.81	4.84	4.87	4.90	4.92	4.95	4.98	5.01	5.04	5.07	5.09	5.09	<b>2016</b>
4.99	5.02	5.05	5.07	5.10	5.12	5.15	5.17	5.20	5.22	5.25	5.27	5.30	5.32	5.35	5.35	<b>2017</b>
5.03	5.05	5.08	5.10	5.13	5.15	5.18	5.20	5.23	5.25	5.28	5.30	5.33	5.35	5.38	5.38	<b>2018</b>
5.03	5.05	5.08	5.10	5.13	5.15	5.18	5.20	5.23	5.25	5.28	5.30	5.33	5.35	5.38	5.38	<b>2019</b>
5.03	5.05	5.08	5.10	5.13	5.15	5.18	5.20	5.23	5.25	5.28	5.30	5.33	5.35	5.38	5.38	<b>2020</b>
5.03	5.05	5.08	5.10	5.13	5.15	5.18	5.20	5.23	5.25	5.28	5.30	5.33	5.35	5.38	5.38	<b>2021</b>
5.03	5.05	5.08	5.10	5.13	5.15	5.18	5.20	5.23	5.25	5.28	5.30	5.33	5.35	5.38	5.38	<b>2022</b>
5.03	5.05	5.08	5.10	5.13	5.15	5.18	5.20	5.23	5.25	5.28	5.30	5.33	5.35	5.38	5.38	<b>2023</b>
5.03	5.05	5.08	5.10	5.13	5.15	5.18	5.20	5.23	5.25	5.28	5.30	5.33	5.35	5.38	5.38	<b>2024</b>
5.03	5.05	5.08	5.10	5.13	5.15	5.18	5.20	5.23	5.25	5.28	5.30	5.33	5.35	5.38	5.38	<b>2025</b>
5.03	5.05	5.08	5.10	5.13	5.15	5.18	5.20	5.23	5.25	5.28	5.30	5.33	5.35	5.38	5.38	<b>2026</b>
5.03	5.05	5.08	5.10	5.13	5.15	5.18	5.20	5.23	5.25	5.28	5.30	5.33	5.35	5.38	5.38	<b>2027</b>
5.03	5.05	5.08	5.10	5.13	5.15	5.18	5.20	5.23	5.25	5.28	5.30	5.33	5.35	5.38	5.38	<b>2028</b>
5.03	5.05	5.08	5.10	5.13	5.15	5.18	5.20	5.23	5.25	5.28	5.30	5.33	5.35	5.38	5.38	<b>2029</b>
5.03	5.05	5.08	5.10	5.13	5.15	5.18	5.20	5.23	5.25	5.28	5.30	5.33	5.35	5.38	5.38	<b>2030</b>
5.03	5.05	5.08	5.10	5.13	5.15	5.18	5.20	5.23	5.25	5.28	5.30	5.33	5.35	5.38	5.38	<b>2031</b>
5.03	5.05	5.08	5.10	5.13	5.15	5.18	5.20	5.23	5.25	5.28	5.30	5.33	5.35	5.38	5.38	<b>2032</b>
5.03	5.05	5.08	5.10	5.13	5.15	5.18	5.20	5.23	5.25	5.28	5.30	5.33	5.35	5.38	5.38	<b>2033</b>
5.03	5.05	5.08	5.10	5.13	5.15	5.18	5.20	5.23	5.25	5.28	5.30	5.33	5.35	5.38	5.38	<b>2034</b>
5.03	5.05	5.08	5.10	5.13	5.15	5.18	5.20	5.23	5.25	5.28	5.30	5.33	5.35	5.38	5.38	<b>2035</b>
5.03	5.05	5.08	5.10	5.13	5.15	5.18	5.20	5.23	5.25	5.28	5.30	5.33	5.35	5.38	5.38	<b>2036</b>
5.03	5.05	5.08	5.10	5.13	5.15	5.18	5.20	5.23	5.25	5.28	5.30	5.33	5.35	5.38	5.38	<b>2037</b>
5.03	5.05	5.08	5.10	5.13	5.15	5.18	5.20	5.23	5.25	5.28	5.30	5.33	5.35	5.38	5.38	<b>2038</b>
5.03	5.05	5.08	5.10	5.13	5.15	5.18	5.20	5.23	5.25	5.28	5.30	5.33	5.35	5.38	5.38	<b>2039</b>
5.03	5.05	5.08	5.10	5.13	5.15	5.18	5.20	5.23	5.25	5.28	5.30	5.33	5.35	5.38	5.38	<b>2040</b>
5.03	5.05	5.08	5.10	5.13	5.15	5.18	5.20	5.23	5.25	5.28	5.30	5.33	5.35	5.38	5.38	<b>2041</b>
5.03	5.05	5.08	5.10	5.13	5.15	5.18	5.20	5.23	5.25	5.28	5.30	5.33	5.35	5.38	5.38	<b>2042</b>

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2012 Forecast, Base Case.

2\ FY 2012 Appropriation rates are determined in accordance with BPA Appropriations Refinancing Act, 16 U.S.C. 8381 enacted on April 26, 1996, and are independent of the Global Insight Treasury Yield forecasts.

Table 6  
**BPA FY 2013 BPA Borrowing Rate - No Premium 1/**

Fiscal Years 2013-2042  
 (continued on next page)

**Maturity**

<b><u>Year</u></b>	<b><u>1 Year</u></b>	<b><u>2 Year</u></b>	<b><u>3 Year</u></b>	<b><u>4 Year</u></b>	<b><u>5 Year</u></b>	<b><u>6 Year</u></b>	<b><u>7 Year</u></b>	<b><u>8 Year</u></b>	<b><u>9 Year</u></b>	<b><u>10 Year</u></b>	<b><u>11 Year</u></b>	<b><u>12 Year</u></b>	<b><u>13 Year</u></b>	<b><u>14 Year</u></b>	<b><u>15 Year</u></b>
<b>2013</b>	0.33	0.58	0.90	1.22	1.54	1.79	2.03	2.28	2.53	2.78	2.84	2.91	2.98	3.04	3.11
<b>2014</b>	0.56	0.89	1.25	1.60	1.96	2.23	2.50	2.76	3.03	3.30	3.36	3.42	3.48	3.54	3.60
<b>2015</b>	1.98	2.29	2.57	2.84	3.12	3.33	3.54	3.76	3.97	4.18	4.23	4.27	4.32	4.36	4.40
<b>2016</b>	3.72	3.93	4.10	4.27	4.44	4.56	4.67	4.79	4.91	5.02	5.05	5.09	5.12	5.15	5.18
<b>2017</b>	4.30	4.47	4.61	4.75	4.89	4.98	5.07	5.16	5.25	5.34	5.36	5.39	5.42	5.44	5.47
<b>2018</b>	4.35	4.51	4.65	4.78	4.92	5.01	5.10	5.19	5.29	5.38	5.40	5.43	5.45	5.48	5.50
<b>2019</b>	4.35	4.51	4.65	4.78	4.92	5.01	5.10	5.19	5.29	5.38	5.40	5.43	5.45	5.48	5.50
<b>2020</b>	4.35	4.51	4.65	4.78	4.92	5.01	5.10	5.19	5.29	5.38	5.40	5.43	5.45	5.48	5.50
<b>2021</b>	4.35	4.51	4.65	4.78	4.92	5.01	5.10	5.19	5.29	5.38	5.40	5.43	5.45	5.48	5.50
<b>2022</b>	4.35	4.51	4.65	4.78	4.92	5.01	5.10	5.19	5.29	5.38	5.40	5.43	5.45	5.48	5.50
<b>2023</b>	4.35	4.51	4.65	4.78	4.92	5.01	5.10	5.19	5.29	5.38	5.40	5.43	5.45	5.48	5.50
<b>2024</b>	4.35	4.51	4.65	4.79	4.92	5.01	5.10	5.19	5.29	5.38	5.40	5.43	5.45	5.48	5.50
<b>2025</b>	4.35	4.51	4.65	4.79	4.92	5.01	5.10	5.19	5.29	5.38	5.40	5.43	5.45	5.48	5.50
<b>2026</b>	4.35	4.51	4.65	4.79	4.92	5.01	5.10	5.19	5.29	5.38	5.40	5.43	5.45	5.48	5.50
<b>2027</b>	4.35	4.51	4.65	4.79	4.92	5.01	5.10	5.19	5.29	5.38	5.40	5.43	5.45	5.48	5.50
<b>2028</b>	4.35	4.51	4.65	4.79	4.92	5.01	5.10	5.19	5.29	5.38	5.40	5.43	5.45	5.48	5.50
<b>2029</b>	4.35	4.51	4.65	4.79	4.92	5.01	5.10	5.19	5.29	5.38	5.40	5.43	5.45	5.48	5.50
<b>2030</b>	4.35	4.51	4.65	4.79	4.92	5.01	5.10	5.19	5.29	5.38	5.40	5.43	5.45	5.48	5.50
<b>2031</b>	4.35	4.51	4.65	4.79	4.92	5.01	5.10	5.19	5.29	5.38	5.40	5.43	5.45	5.48	5.50
<b>2032</b>	4.35	4.51	4.65	4.79	4.92	5.01	5.10	5.19	5.29	5.38	5.40	5.43	5.45	5.48	5.50
<b>2033</b>	4.35	4.51	4.65	4.79	4.92	5.01	5.10	5.19	5.29	5.38	5.40	5.43	5.45	5.48	5.50
<b>2034</b>	4.35	4.51	4.65	4.79	4.92	5.01	5.10	5.19	5.29	5.38	5.40	5.43	5.45	5.48	5.50
<b>2035</b>	4.35	4.51	4.65	4.79	4.92	5.01	5.10	5.19	5.29	5.38	5.40	5.43	5.45	5.48	5.50
<b>2036</b>	4.35	4.51	4.65	4.79	4.92	5.01	5.10	5.19	5.29	5.38	5.40	5.43	5.45	5.48	5.50
<b>2037</b>	4.35	4.51	4.65	4.79	4.92	5.01	5.10	5.19	5.29	5.38	5.40	5.43	5.45	5.48	5.50
<b>2038</b>	4.35	4.51	4.65	4.79	4.92	5.01	5.10	5.19	5.29	5.38	5.40	5.43	5.45	5.48	5.50
<b>2039</b>	4.35	4.51	4.65	4.79	4.92	5.01	5.10	5.19	5.29	5.38	5.40	5.43	5.45	5.48	5.50
<b>2040</b>	4.35	4.51	4.65	4.79	4.92	5.01	5.10	5.19	5.29	5.38	5.40	5.43	5.45	5.48	5.50
<b>2041</b>	4.35	4.51	4.65	4.79	4.92	5.01	5.10	5.19	5.29	5.38	5.40	5.43	5.45	5.48	5.50
<b>2042</b>	4.35	4.51	4.65	4.79	4.92	5.01	5.10	5.19	5.29	5.38	5.40	5.43	5.45	5.48	5.50

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2012 Forecast, Base Case.



Table 6  
**BPA FY 2013 BPA Borrowing Rate - No Premium 1/**

Fiscal Years 2013-2042

<u>Maturity</u>																
<u>16 Year</u>	<u>17 Year</u>	<u>18 Year</u>	<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>
3.18	3.24	3.31	3.38	3.44	3.51	3.58	3.64	3.71	3.78	3.84	3.91	3.98	4.04	4.11	4.11	<b>2013</b>
3.66	3.72	3.78	3.84	3.90	3.97	4.03	4.09	4.15	4.21	4.27	4.33	4.39	4.45	4.51	4.51	<b>2014</b>
4.45	4.49	4.53	4.58	4.62	4.67	4.71	4.75	4.80	4.84	4.88	4.93	4.97	5.02	5.06	5.06	<b>2015</b>
5.21	5.24	5.27	5.30	5.34	5.37	5.40	5.43	5.46	5.49	5.52	5.56	5.59	5.62	5.65	5.65	<b>2016</b>
5.49	5.52	5.54	5.57	5.59	5.62	5.65	5.67	5.70	5.72	5.75	5.77	5.80	5.82	5.85	5.85	<b>2017</b>
5.53	5.55	5.58	5.60	5.63	5.65	5.68	5.70	5.73	5.75	5.78	5.80	5.83	5.85	5.88	5.88	<b>2018</b>
5.53	5.55	5.58	5.60	5.63	5.65	5.68	5.70	5.73	5.75	5.78	5.80	5.83	5.85	5.88	5.88	<b>2019</b>
5.53	5.55	5.58	5.60	5.63	5.65	5.68	5.70	5.73	5.75	5.78	5.80	5.83	5.85	5.88	5.88	<b>2020</b>
5.53	5.55	5.58	5.60	5.63	5.65	5.68	5.70	5.73	5.75	5.78	5.80	5.83	5.85	5.88	5.88	<b>2021</b>
5.53	5.55	5.58	5.60	5.63	5.65	5.68	5.70	5.73	5.75	5.78	5.80	5.83	5.85	5.88	5.88	<b>2022</b>
5.53	5.55	5.58	5.60	5.63	5.65	5.68	5.70	5.73	5.75	5.78	5.80	5.83	5.85	5.88	5.88	<b>2023</b>
5.53	5.55	5.58	5.60	5.63	5.65	5.68	5.70	5.73	5.75	5.78	5.80	5.83	5.85	5.88	5.88	<b>2024</b>
5.53	5.55	5.58	5.60	5.63	5.65	5.68	5.70	5.73	5.75	5.78	5.80	5.83	5.85	5.88	5.88	<b>2025</b>
5.53	5.55	5.58	5.60	5.63	5.65	5.68	5.70	5.73	5.75	5.78	5.80	5.83	5.85	5.88	5.88	<b>2026</b>
5.53	5.55	5.58	5.60	5.63	5.65	5.68	5.70	5.73	5.75	5.78	5.80	5.83	5.85	5.88	5.88	<b>2027</b>
5.53	5.55	5.58	5.60	5.63	5.65	5.68	5.70	5.73	5.75	5.78	5.80	5.83	5.85	5.88	5.88	<b>2028</b>
5.53	5.55	5.58	5.60	5.63	5.65	5.68	5.70	5.73	5.75	5.78	5.80	5.83	5.85	5.88	5.88	<b>2029</b>
5.53	5.55	5.58	5.60	5.63	5.65	5.68	5.70	5.73	5.75	5.78	5.80	5.83	5.85	5.88	5.88	<b>2030</b>
5.53	5.55	5.58	5.60	5.63	5.65	5.68	5.70	5.73	5.75	5.78	5.80	5.83	5.85	5.88	5.88	<b>2031</b>
5.53	5.55	5.58	5.60	5.63	5.65	5.68	5.70	5.73	5.75	5.78	5.80	5.83	5.85	5.88	5.88	<b>2032</b>
5.53	5.55	5.58	5.60	5.63	5.65	5.68	5.70	5.73	5.75	5.78	5.80	5.83	5.85	5.88	5.88	<b>2033</b>
5.53	5.55	5.58	5.60	5.63	5.65	5.68	5.70	5.73	5.75	5.78	5.80	5.83	5.85	5.88	5.88	<b>2034</b>
5.53	5.55	5.58	5.60	5.63	5.65	5.68	5.70	5.73	5.75	5.78	5.80	5.83	5.85	5.88	5.88	<b>2035</b>
5.53	5.55	5.58	5.60	5.63	5.65	5.68	5.70	5.73	5.75	5.78	5.80	5.83	5.85	5.88	5.88	<b>2036</b>
5.53	5.55	5.58	5.60	5.63	5.65	5.68	5.70	5.73	5.75	5.78	5.80	5.83	5.85	5.88	5.88	<b>2037</b>
5.53	5.55	5.58	5.60	5.63	5.65	5.68	5.70	5.73	5.75	5.78	5.80	5.83	5.85	5.88	5.88	<b>2038</b>
5.53	5.55	5.58	5.60	5.63	5.65	5.68	5.70	5.73	5.75	5.78	5.80	5.83	5.85	5.88	5.88	<b>2039</b>
5.53	5.55	5.58	5.60	5.63	5.65	5.68	5.70	5.73	5.75	5.78	5.80	5.83	5.85	5.88	5.88	<b>2040</b>
5.53	5.55	5.58	5.60	5.63	5.65	5.68	5.70	5.73	5.75	5.78	5.80	5.83	5.85	5.88	5.88	<b>2041</b>
5.53	5.55	5.58	5.60	5.63	5.65	5.68	5.70	5.73	5.75	5.78	5.80	5.83	5.85	5.88	5.88	<b>2042</b>

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2012 Forecast, Base Case.

Table 7  
**BPA FY 2013 BPA Borrowing Rate - Coupon Scale-Down Redemption Premium 1/**

Fiscal Years 2013-2042  
 (continued on next page)

**Maturity**

<b><u>Year</u></b>	<b><u>1 Year</u></b>	<b><u>2 Year</u></b>	<b><u>3 Year</u></b>	<b><u>4 Year</u></b>	<b><u>5 Year</u></b>	<b><u>6 Year</u></b>	<b><u>7 Year</u></b>	<b><u>8 Year</u></b>	<b><u>9 Year</u></b>	<b><u>10 Year</u></b>	<b><u>11 Year</u></b>	<b><u>12 Year</u></b>	<b><u>13 Year</u></b>	<b><u>14 Year</u></b>	<b><u>15 Year</u></b>
2013	0.42	0.75	1.15	1.56	1.96	2.30	2.63	2.96	3.29	3.63	3.71	3.79	3.88	3.96	4.05
2014	0.63	1.03	1.46	1.88	2.31	2.65	2.99	3.32	3.66	4.00	4.07	4.15	4.22	4.30	4.38
2015	2.05	2.42	2.76	3.10	3.44	3.72	4.00	4.28	4.56	4.83	4.89	4.94	5.00	5.05	5.10
2016	3.75	3.99	4.20	4.40	4.60	4.75	4.90	5.05	5.20	5.35	5.39	5.44	5.48	5.52	5.56
2017	4.32	4.50	4.66	4.82	4.98	5.09	5.20	5.30	5.41	5.52	5.56	5.59	5.63	5.67	5.70
2018	4.37	4.55	4.71	4.86	5.02	5.13	5.24	5.35	5.47	5.58	5.61	5.65	5.69	5.73	5.76
2019	4.37	4.55	4.71	4.86	5.02	5.13	5.24	5.35	5.47	5.58	5.61	5.65	5.69	5.73	5.76
2020	4.37	4.55	4.71	4.86	5.02	5.13	5.24	5.35	5.47	5.58	5.61	5.65	5.69	5.73	5.76
2021	4.37	4.55	4.71	4.86	5.02	5.13	5.24	5.35	5.47	5.58	5.61	5.65	5.69	5.73	5.76
2022	4.37	4.55	4.71	4.86	5.02	5.13	5.24	5.35	5.47	5.58	5.61	5.65	5.69	5.73	5.76
2023	4.37	4.55	4.71	4.86	5.02	5.13	5.24	5.35	5.47	5.58	5.61	5.65	5.69	5.73	5.76
2024	4.37	4.55	4.71	4.87	5.02	5.13	5.24	5.35	5.47	5.58	5.61	5.65	5.69	5.73	5.76
2025	4.37	4.55	4.71	4.87	5.02	5.13	5.24	5.35	5.47	5.58	5.61	5.65	5.69	5.73	5.76
2026	4.37	4.55	4.71	4.87	5.02	5.13	5.24	5.35	5.47	5.58	5.61	5.65	5.69	5.73	5.76
2027	4.37	4.55	4.71	4.87	5.02	5.13	5.24	5.35	5.47	5.58	5.61	5.65	5.69	5.73	5.76
2028	4.37	4.55	4.71	4.87	5.02	5.13	5.24	5.35	5.47	5.58	5.61	5.65	5.69	5.73	5.76
2029	4.37	4.55	4.71	4.87	5.02	5.13	5.24	5.35	5.47	5.58	5.61	5.65	5.69	5.73	5.76
2030	4.37	4.55	4.71	4.87	5.02	5.13	5.24	5.35	5.47	5.58	5.61	5.65	5.69	5.73	5.76
2031	4.37	4.55	4.71	4.87	5.02	5.13	5.24	5.35	5.47	5.58	5.61	5.65	5.69	5.73	5.76
2032	4.37	4.55	4.71	4.87	5.02	5.13	5.24	5.35	5.47	5.58	5.61	5.65	5.69	5.73	5.76
2033	4.37	4.55	4.71	4.87	5.02	5.13	5.24	5.35	5.47	5.58	5.61	5.65	5.69	5.73	5.76
2034	4.37	4.55	4.71	4.87	5.02	5.13	5.24	5.35	5.47	5.58	5.61	5.65	5.69	5.73	5.76
2035	4.37	4.55	4.71	4.87	5.02	5.13	5.24	5.35	5.47	5.58	5.61	5.65	5.69	5.73	5.76
2036	4.37	4.55	4.71	4.86	5.02	5.13	5.24	5.35	5.47	5.58	5.61	5.65	5.69	5.73	5.76
2037	4.37	4.55	4.71	4.86	5.02	5.13	5.24	5.35	5.47	5.58	5.61	5.65	5.69	5.73	5.76
2038	4.37	4.55	4.71	4.86	5.02	5.13	5.24	5.35	5.47	5.58	5.61	5.65	5.69	5.73	5.76
2039	4.37	4.55	4.71	4.86	5.02	5.13	5.24	5.35	5.47	5.58	5.61	5.65	5.69	5.73	5.76
2040	4.37	4.55	4.71	4.86	5.02	5.13	5.24	5.35	5.47	5.58	5.61	5.65	5.69	5.73	5.76
2041	4.37	4.55	4.71	4.86	5.02	5.13	5.24	5.35	5.47	5.58	5.61	5.65	5.69	5.73	5.76
2042	4.37	4.55	4.71	4.86	5.02	5.13	5.24	5.35	5.47	5.58	5.61	5.65	5.69	5.73	5.76

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2012 Forecast, Base Case.

Table 7  
**BPA FY 2013 BPA Borrowing Rate - Coupon Scale-Down Redemption Premium 1/**

Fiscal Years 2013-2042

<u>Maturity</u>																
<u>16 Year</u>	<u>17 Year</u>	<u>18 Year</u>	<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>
4.13	4.22	4.30	4.38	4.47	4.55	4.64	4.72	4.81	4.89	4.97	5.06	5.14	5.23	5.31	5.31	<b>2013</b>
4.45	4.53	4.60	4.68	4.75	4.83	4.91	4.98	5.06	5.13	5.21	5.28	5.36	5.44	5.51	5.51	<b>2014</b>
5.16	5.21	5.26	5.32	5.37	5.43	5.48	5.53	5.59	5.64	5.69	5.75	5.80	5.86	5.91	5.91	<b>2015</b>
5.61	5.65	5.69	5.73	5.78	5.82	5.86	5.90	5.95	5.99	6.03	6.07	6.12	6.16	6.20	6.20	<b>2016</b>
5.74	5.77	5.81	5.85	5.88	5.92	5.96	5.99	6.03	6.07	6.10	6.14	6.18	6.21	6.25	6.25	<b>2017</b>
5.80	5.84	5.88	5.91	5.95	5.99	6.03	6.06	6.10	6.14	6.18	6.21	6.25	6.29	6.33	6.33	<b>2018</b>
5.80	5.84	5.88	5.91	5.95	5.99	6.03	6.06	6.10	6.14	6.18	6.21	6.25	6.29	6.33	6.33	<b>2019</b>
5.80	5.84	5.88	5.91	5.95	5.99	6.03	6.06	6.10	6.14	6.18	6.21	6.25	6.29	6.33	6.33	<b>2020</b>
5.80	5.84	5.88	5.91	5.95	5.99	6.03	6.06	6.10	6.14	6.18	6.21	6.25	6.29	6.33	6.33	<b>2021</b>
5.80	5.84	5.88	5.91	5.95	5.99	6.03	6.06	6.10	6.14	6.18	6.21	6.25	6.29	6.33	6.33	<b>2022</b>
5.80	5.84	5.88	5.91	5.95	5.99	6.03	6.06	6.10	6.14	6.18	6.21	6.25	6.29	6.33	6.33	<b>2023</b>
5.80	5.84	5.88	5.91	5.95	5.99	6.03	6.06	6.10	6.14	6.18	6.21	6.25	6.29	6.33	6.33	<b>2024</b>
5.80	5.84	5.88	5.91	5.95	5.99	6.03	6.06	6.10	6.14	6.18	6.21	6.25	6.29	6.33	6.33	<b>2025</b>
5.80	5.84	5.88	5.91	5.95	5.99	6.03	6.06	6.10	6.14	6.18	6.21	6.25	6.29	6.33	6.33	<b>2026</b>
5.80	5.84	5.88	5.91	5.95	5.99	6.03	6.06	6.10	6.14	6.18	6.21	6.25	6.29	6.33	6.33	<b>2027</b>
5.80	5.84	5.88	5.91	5.95	5.99	6.03	6.06	6.10	6.14	6.18	6.21	6.25	6.29	6.33	6.33	<b>2028</b>
5.80	5.84	5.88	5.91	5.95	5.99	6.03	6.06	6.10	6.14	6.18	6.21	6.25	6.29	6.33	6.33	<b>2029</b>
5.80	5.84	5.88	5.91	5.95	5.99	6.03	6.06	6.10	6.14	6.18	6.21	6.25	6.29	6.33	6.33	<b>2030</b>
5.80	5.84	5.88	5.91	5.95	5.99	6.03	6.06	6.10	6.14	6.18	6.21	6.25	6.29	6.33	6.33	<b>2031</b>
5.80	5.84	5.88	5.91	5.95	5.99	6.03	6.06	6.10	6.14	6.18	6.21	6.25	6.29	6.33	6.33	<b>2032</b>
5.80	5.84	5.88	5.91	5.95	5.99	6.03	6.06	6.10	6.14	6.18	6.21	6.25	6.29	6.33	6.33	<b>2033</b>
5.80	5.84	5.88	5.91	5.95	5.99	6.03	6.06	6.10	6.14	6.18	6.21	6.25	6.29	6.33	6.33	<b>2034</b>
5.80	5.84	5.88	5.91	5.95	5.99	6.03	6.06	6.10	6.14	6.18	6.21	6.25	6.29	6.33	6.33	<b>2035</b>
5.80	5.84	5.88	5.91	5.95	5.99	6.03	6.06	6.10	6.14	6.18	6.21	6.25	6.29	6.33	6.33	<b>2036</b>
5.80	5.84	5.88	5.91	5.95	5.99	6.03	6.06	6.10	6.14	6.18	6.21	6.25	6.29	6.33	6.33	<b>2037</b>
5.80	5.84	5.88	5.91	5.95	5.99	6.03	6.06	6.10	6.14	6.18	6.21	6.25	6.29	6.33	6.33	<b>2038</b>
5.80	5.84	5.88	5.91	5.95	5.99	6.03	6.06	6.10	6.14	6.18	6.21	6.25	6.29	6.33	6.33	<b>2039</b>
5.80	5.84	5.88	5.91	5.95	5.99	6.03	6.06	6.10	6.14	6.18	6.21	6.25	6.29	6.33	6.33	<b>2040</b>
5.80	5.84	5.88	5.91	5.95	5.99	6.03	6.06	6.10	6.14	6.18	6.21	6.25	6.29	6.33	6.33	<b>2041</b>
5.80	5.84	5.88	5.91	5.95	5.99	6.03	6.06	6.10	6.14	6.18	6.21	6.25	6.29	6.33	6.33	<b>2042</b>

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2012 Forecast, Base Case.

Table 8  
**BPA FY 2013 BPA Borrowing Rate - Callable at Par 1/**

Fiscal Years 2013-2042  
 (continued on next page)

**Maturity**

<b><u>Year</u></b>	<b><u>1 Year</u></b>	<b><u>2 Year</u></b>	<b><u>3 Year</u></b>	<b><u>4 Year</u></b>	<b><u>5 Year</u></b>	<b><u>6 Year</u></b>	<b><u>7 Year</u></b>	<b><u>8 Year</u></b>	<b><u>9 Year</u></b>	<b><u>10 Year</u></b>	<b><u>11 Year</u></b>	<b><u>12 Year</u></b>	<b><u>13 Year</u></b>	<b><u>14 Year</u></b>	<b><u>15 Year</u></b>
2013	0.45	0.81	1.24	1.68	2.11	2.48	2.84	3.20	3.56	3.93	4.01	4.09	4.18	4.26	4.35
2014	0.65	1.08	1.53	1.98	2.44	2.80	3.16	3.52	3.89	4.25	4.32	4.40	4.47	4.55	4.63
2015	2.07	2.46	2.82	3.18	3.54	3.84	4.14	4.44	4.74	5.03	5.09	5.14	5.20	5.25	5.30
2016	3.77	4.03	4.25	4.47	4.69	4.86	5.02	5.19	5.36	5.52	5.56	5.61	5.65	5.69	5.73
2017	4.34	4.54	4.71	4.89	5.06	5.19	5.31	5.44	5.56	5.69	5.72	5.76	5.80	5.83	5.87
2018	4.38	4.58	4.75	4.92	5.10	5.22	5.35	5.47	5.60	5.73	5.76	5.80	5.83	5.87	5.90
2019	4.38	4.58	4.75	4.92	5.10	5.22	5.35	5.47	5.60	5.73	5.76	5.80	5.83	5.87	5.90
2020	4.38	4.58	4.75	4.92	5.10	5.22	5.35	5.47	5.60	5.73	5.76	5.80	5.83	5.87	5.90
2021	4.38	4.58	4.75	4.92	5.10	5.22	5.35	5.47	5.60	5.73	5.76	5.80	5.83	5.87	5.90
2022	4.38	4.58	4.75	4.92	5.10	5.22	5.35	5.47	5.60	5.73	5.76	5.80	5.83	5.87	5.90
2023	4.38	4.58	4.75	4.92	5.10	5.22	5.35	5.47	5.60	5.73	5.76	5.80	5.83	5.87	5.90
2024	4.38	4.58	4.75	4.93	5.10	5.22	5.35	5.47	5.60	5.73	5.76	5.80	5.83	5.87	5.90
2025	4.38	4.58	4.75	4.93	5.10	5.22	5.35	5.47	5.60	5.73	5.76	5.80	5.83	5.87	5.90
2026	4.38	4.58	4.75	4.93	5.10	5.22	5.35	5.47	5.60	5.73	5.76	5.80	5.83	5.87	5.90
2027	4.38	4.58	4.75	4.93	5.10	5.22	5.35	5.47	5.60	5.73	5.76	5.80	5.83	5.87	5.90
2028	4.38	4.58	4.75	4.93	5.10	5.22	5.35	5.47	5.60	5.73	5.76	5.80	5.83	5.87	5.90
2029	4.38	4.58	4.75	4.93	5.10	5.22	5.35	5.47	5.60	5.73	5.76	5.80	5.83	5.87	5.90
2030	4.38	4.58	4.75	4.93	5.10	5.22	5.35	5.47	5.60	5.73	5.76	5.80	5.83	5.87	5.90
2031	4.38	4.58	4.75	4.93	5.10	5.22	5.35	5.47	5.60	5.73	5.76	5.80	5.83	5.87	5.90
2032	4.38	4.58	4.75	4.93	5.10	5.22	5.35	5.47	5.60	5.73	5.76	5.80	5.83	5.87	5.90
2033	4.38	4.58	4.75	4.93	5.10	5.22	5.35	5.47	5.60	5.73	5.76	5.80	5.83	5.87	5.90
2034	4.38	4.58	4.75	4.93	5.10	5.22	5.35	5.47	5.60	5.73	5.76	5.80	5.83	5.87	5.90
2035	4.38	4.58	4.75	4.93	5.10	5.22	5.35	5.47	5.60	5.73	5.76	5.80	5.83	5.87	5.90
2036	4.38	4.58	4.75	4.92	5.10	5.22	5.35	5.47	5.60	5.73	5.76	5.80	5.83	5.87	5.90
2037	4.38	4.58	4.75	4.92	5.10	5.22	5.35	5.47	5.60	5.73	5.76	5.80	5.83	5.87	5.90
2038	4.38	4.58	4.75	4.92	5.10	5.22	5.35	5.47	5.60	5.73	5.76	5.80	5.83	5.87	5.90
2039	4.38	4.58	4.75	4.92	5.10	5.22	5.35	5.47	5.60	5.73	5.76	5.80	5.83	5.87	5.90
2040	4.38	4.58	4.75	4.92	5.10	5.22	5.35	5.47	5.60	5.73	5.76	5.80	5.83	5.87	5.90
2041	4.38	4.58	4.75	4.92	5.10	5.22	5.35	5.47	5.60	5.73	5.76	5.80	5.83	5.87	5.90
2042	4.38	4.58	4.75	4.92	5.10	5.22	5.35	5.47	5.60	5.73	5.76	5.80	5.83	5.87	5.90

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2012 Forecast, Base Case.

Table 8  
**BPA FY 2013 BPA Borrowing Rate - Callable at Par 1/**

Fiscal Years 2013-2042

<u>Maturity</u>																
<u>16 Year</u>	<u>17 Year</u>	<u>18 Year</u>	<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>
4.43	4.52	4.60	4.68	4.77	4.85	4.94	5.02	5.11	5.19	5.27	5.36	5.44	5.53	5.61	5.61	<b>2013</b>
4.70	4.78	4.85	4.93	5.00	5.08	5.16	5.23	5.31	5.38	5.46	5.53	5.61	5.69	5.76	5.76	<b>2014</b>
5.36	5.41	5.46	5.52	5.57	5.63	5.68	5.73	5.79	5.84	5.89	5.95	6.00	6.06	6.11	6.11	<b>2015</b>
5.78	5.82	5.86	5.90	5.95	5.99	6.03	6.07	6.12	6.16	6.20	6.24	6.29	6.33	6.37	6.37	<b>2016</b>
5.90	5.94	5.97	6.01	6.04	6.08	6.12	6.15	6.19	6.22	6.26	6.29	6.33	6.36	6.40	6.40	<b>2017</b>
5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.25	6.29	6.32	6.36	6.39	6.43	6.43	<b>2018</b>
5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.25	6.29	6.32	6.36	6.39	6.43	6.43	<b>2019</b>
5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.25	6.29	6.32	6.36	6.39	6.43	6.43	<b>2020</b>
5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.25	6.29	6.32	6.36	6.39	6.43	6.43	<b>2021</b>
5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.25	6.29	6.32	6.36	6.39	6.43	6.43	<b>2022</b>
5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.25	6.29	6.32	6.36	6.39	6.43	6.43	<b>2023</b>
5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.25	6.29	6.32	6.36	6.39	6.43	6.43	<b>2024</b>
5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.25	6.29	6.32	6.36	6.39	6.43	6.43	<b>2025</b>
5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.25	6.29	6.32	6.36	6.39	6.43	6.43	<b>2026</b>
5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.25	6.29	6.32	6.36	6.39	6.43	6.43	<b>2027</b>
5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.25	6.29	6.32	6.36	6.39	6.43	6.43	<b>2028</b>
5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.25	6.29	6.32	6.36	6.39	6.43	6.43	<b>2029</b>
5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.25	6.29	6.32	6.36	6.39	6.43	6.43	<b>2030</b>
5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.25	6.29	6.32	6.36	6.39	6.43	6.43	<b>2031</b>
5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.25	6.29	6.32	6.36	6.39	6.43	6.43	<b>2032</b>
5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.25	6.29	6.32	6.36	6.39	6.43	6.43	<b>2033</b>
5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.25	6.29	6.32	6.36	6.39	6.43	6.43	<b>2034</b>
5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.25	6.29	6.32	6.36	6.39	6.43	6.43	<b>2035</b>
5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.25	6.29	6.32	6.36	6.39	6.43	6.43	<b>2036</b>
5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.25	6.29	6.32	6.36	6.39	6.43	6.43	<b>2037</b>
5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.25	6.29	6.32	6.36	6.39	6.43	6.43	<b>2038</b>
5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.25	6.29	6.32	6.36	6.39	6.43	6.43	<b>2039</b>
5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.25	6.29	6.32	6.36	6.39	6.43	6.43	<b>2040</b>
5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.25	6.29	6.32	6.36	6.39	6.43	6.43	<b>2041</b>
5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.25	6.29	6.32	6.36	6.39	6.43	6.43	<b>2042</b>

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2012 Forecast, Base Case.

Table 9

**BPA FY 2012 Third-Party Taxable Borrowing Rate Forecast 1/**

Fiscal Years 2012-2041

(continued on next page)

**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>
2013	0.57	0.74	1.07	1.41	1.74	2.03	2.32	2.61	2.90	3.19	3.27	3.35	3.43	3.51	3.59
2014	0.92	1.10	1.49	1.88	2.27	2.60	2.92	3.24	3.56	3.89	3.97	4.05	4.13	4.21	4.29
2015	3.39	2.91	3.19	3.47	3.75	4.01	4.27	4.53	4.79	5.04	5.11	5.17	5.23	5.30	5.36
2016	4.34	4.23	4.41	4.59	4.77	4.92	5.06	5.21	5.35	5.50	5.54	5.58	5.62	5.67	5.71
2017	4.54	4.60	4.76	4.92	5.09	5.20	5.32	5.44	5.56	5.67	5.71	5.75	5.78	5.82	5.86
2018	4.58	4.64	4.80	4.96	5.12	5.24	5.36	5.48	5.60	5.71	5.75	5.79	5.82	5.86	5.89
2019	4.58	4.64	4.80	4.96	5.12	5.24	5.36	5.48	5.60	5.71	5.75	5.79	5.82	5.86	5.89
2020	4.58	4.64	4.80	4.96	5.12	5.24	5.36	5.48	5.60	5.71	5.75	5.79	5.82	5.86	5.89
2021	4.58	4.64	4.80	4.96	5.12	5.24	5.36	5.48	5.60	5.71	5.75	5.79	5.82	5.86	5.89
2022	4.58	4.64	4.80	4.96	5.12	5.24	5.36	5.48	5.60	5.71	5.75	5.79	5.82	5.86	5.89
2023	4.58	4.64	4.80	4.96	5.12	5.24	5.36	5.48	5.60	5.71	5.75	5.79	5.82	5.86	5.89
2024	4.58	4.64	4.80	4.96	5.12	5.24	5.36	5.48	5.60	5.71	5.75	5.79	5.82	5.86	5.89
2025	4.58	4.64	4.80	4.96	5.12	5.24	5.36	5.48	5.60	5.71	5.75	5.79	5.82	5.86	5.89
2026	4.58	4.64	4.80	4.96	5.12	5.24	5.36	5.48	5.60	5.71	5.75	5.79	5.82	5.86	5.89
2027	4.58	4.64	4.80	4.96	5.12	5.24	5.36	5.48	5.60	5.71	5.75	5.79	5.82	5.86	5.89
2028	4.58	4.64	4.80	4.96	5.12	5.24	5.36	5.48	5.60	5.71	5.75	5.79	5.82	5.86	5.89
2029	4.58	4.64	4.80	4.96	5.12	5.24	5.36	5.48	5.60	5.71	5.75	5.79	5.82	5.86	5.89
2030	4.58	4.64	4.80	4.96	5.12	5.24	5.36	5.48	5.60	5.71	5.75	5.79	5.82	5.86	5.89
2031	4.58	4.64	4.80	4.96	5.12	5.24	5.36	5.48	5.60	5.71	5.75	5.79	5.82	5.86	5.89
2032	4.58	4.64	4.80	4.96	5.12	5.24	5.36	5.48	5.60	5.71	5.75	5.79	5.82	5.86	5.89
2033	4.58	4.64	4.80	4.96	5.12	5.24	5.36	5.48	5.60	5.71	5.75	5.79	5.82	5.86	5.89
2034	4.58	4.64	4.80	4.96	5.12	5.24	5.36	5.48	5.60	5.71	5.75	5.79	5.82	5.86	5.89
2035	4.58	4.64	4.80	4.96	5.12	5.24	5.36	5.48	5.60	5.71	5.75	5.79	5.82	5.86	5.89
2036	4.58	4.64	4.80	4.96	5.12	5.24	5.36	5.48	5.60	5.71	5.75	5.79	5.82	5.86	5.89
2037	4.58	4.64	4.80	4.96	5.12	5.24	5.36	5.48	5.60	5.71	5.75	5.79	5.82	5.86	5.89
2038	4.58	4.64	4.80	4.96	5.12	5.24	5.36	5.48	5.60	5.71	5.75	5.79	5.82	5.86	5.89
2038	4.58	4.64	4.80	4.96	5.12	5.24	5.36	5.48	5.60	5.71	5.75	5.79	5.82	5.86	5.89
2040	4.58	4.64	4.80	4.96	5.12	5.24	5.36	5.48	5.60	5.71	5.75	5.79	5.82	5.86	5.89
2041	4.58	4.64	4.80	4.96	5.12	5.24	5.36	5.48	5.60	5.71	5.75	5.79	5.82	5.86	5.89
2042	4.58	4.64	4.80	4.96	5.12	5.24	5.36	5.48	5.60	5.71	5.75	5.79	5.82	5.86	5.89

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2012 Forecast, Base Case.

Table 9

**BPA FY 2012 Third-Party Taxable Borrowing Rate Forecast 1/**

Fiscal Years 2012-2041

**Maturity**

<u>16 Year</u>	<u>17 Year</u>	<u>18 Year</u>	<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>
3.67	3.75	3.83	3.91	3.99	4.07	4.15	4.23	4.31	4.38	4.46	4.54	4.62	4.70	4.78	4.78	<b>2013</b>
4.37	4.44	4.52	4.60	4.68	4.76	4.84	4.92	5.00	5.08	5.16	5.24	5.32	5.40	5.48	5.48	<b>2014</b>
5.42	5.49	5.55	5.62	5.68	5.74	5.81	5.87	5.93	6.00	6.06	6.12	6.19	6.25	6.31	6.31	<b>2015</b>
5.75	5.80	5.84	5.88	5.93	5.97	6.01	6.05	6.10	6.14	6.18	6.23	6.27	6.31	6.35	6.35	<b>2016</b>
5.89	5.93	5.97	6.00	6.04	6.08	6.11	6.15	6.19	6.22	6.26	6.30	6.33	6.37	6.41	6.41	<b>2017</b>
5.93	5.97	6.00	6.04	6.08	6.11	6.15	6.18	6.22	6.26	6.29	6.33	6.37	6.40	6.44	6.44	<b>2018</b>
5.93	5.97	6.00	6.04	6.08	6.11	6.15	6.18	6.22	6.26	6.29	6.33	6.37	6.40	6.44	6.44	<b>2019</b>
5.93	5.97	6.00	6.04	6.08	6.11	6.15	6.18	6.22	6.26	6.29	6.33	6.37	6.40	6.44	6.44	<b>2020</b>
5.93	5.97	6.00	6.04	6.08	6.11	6.15	6.18	6.22	6.26	6.29	6.33	6.37	6.40	6.44	6.44	<b>2021</b>
5.93	5.97	6.00	6.04	6.08	6.11	6.15	6.18	6.22	6.26	6.29	6.33	6.37	6.40	6.44	6.44	<b>2022</b>
5.93	5.97	6.00	6.04	6.08	6.11	6.15	6.18	6.22	6.26	6.29	6.33	6.37	6.40	6.44	6.44	<b>2023</b>
5.93	5.97	6.00	6.04	6.08	6.11	6.15	6.18	6.22	6.26	6.29	6.33	6.37	6.40	6.44	6.44	<b>2024</b>
5.93	5.97	6.00	6.04	6.08	6.11	6.15	6.18	6.22	6.26	6.29	6.33	6.37	6.40	6.44	6.44	<b>2025</b>
5.93	5.97	6.00	6.04	6.08	6.11	6.15	6.18	6.22	6.26	6.29	6.33	6.37	6.40	6.44	6.44	<b>2026</b>
5.93	5.97	6.00	6.04	6.08	6.11	6.15	6.18	6.22	6.26	6.29	6.33	6.37	6.40	6.44	6.44	<b>2027</b>
5.93	5.97	6.00	6.04	6.08	6.11	6.15	6.18	6.22	6.26	6.29	6.33	6.37	6.40	6.44	6.44	<b>2028</b>
5.93	5.97	6.00	6.04	6.08	6.11	6.15	6.18	6.22	6.26	6.29	6.33	6.37	6.40	6.44	6.44	<b>2029</b>
5.93	5.97	6.00	6.04	6.08	6.11	6.15	6.18	6.22	6.26	6.29	6.33	6.37	6.40	6.44	6.44	<b>2030</b>
5.93	5.97	6.00	6.04	6.08	6.11	6.15	6.18	6.22	6.26	6.29	6.33	6.37	6.40	6.44	6.44	<b>2031</b>
5.93	5.97	6.00	6.04	6.08	6.11	6.15	6.18	6.22	6.26	6.29	6.33	6.37	6.40	6.44	6.44	<b>2032</b>
5.93	5.97	6.00	6.04	6.08	6.11	6.15	6.18	6.22	6.26	6.29	6.33	6.37	6.40	6.44	6.44	<b>2033</b>
5.93	5.97	6.00	6.04	6.08	6.11	6.15	6.18	6.22	6.26	6.29	6.33	6.37	6.40	6.44	6.44	<b>2034</b>
5.93	5.97	6.00	6.04	6.08	6.11	6.15	6.18	6.22	6.26	6.29	6.33	6.37	6.40	6.44	6.44	<b>2035</b>
5.93	5.97	6.00	6.04	6.08	6.11	6.15	6.18	6.22	6.26	6.29	6.33	6.37	6.40	6.44	6.44	<b>2036</b>
5.93	5.97	6.00	6.04	6.08	6.11	6.15	6.18	6.22	6.26	6.29	6.33	6.37	6.40	6.44	6.44	<b>2037</b>
5.93	5.97	6.00	6.04	6.08	6.11	6.15	6.18	6.22	6.26	6.29	6.33	6.37	6.40	6.44	6.44	<b>2038</b>
5.93	5.97	6.00	6.04	6.08	6.11	6.15	6.18	6.22	6.26	6.29	6.33	6.37	6.40	6.44	6.44	<b>2038</b>
5.93	5.97	6.00	6.04	6.08	6.11	6.15	6.18	6.22	6.26	6.29	6.33	6.37	6.40	6.44	6.44	<b>2040</b>
5.93	5.97	6.00	6.04	6.08	6.11	6.15	6.18	6.22	6.26	6.29	6.33	6.37	6.40	6.44	6.44	<b>2041</b>
5.93	5.97	6.00	6.04	6.08	6.11	6.15	6.18	6.22	6.26	6.29	6.33	6.37	6.40	6.44	6.44	<b>2042</b>

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2012 Forecast, Base Case.

Table 10  
**BPA FY 2012 Third-Party Tax-Exempt Borrowing Rate Forecast 1/**

Fiscal Years 2012-2041  
 (continued on next page)

**Maturity**

<b><u>Year</u></b>	<b><u>1 Year</u></b>	<b><u>2 Year</u></b>	<b><u>3 Year</u></b>	<b><u>4 Year</u></b>	<b><u>5 Year</u></b>	<b><u>6 Year</u></b>	<b><u>7 Year</u></b>	<b><u>8 Year</u></b>	<b><u>9 Year</u></b>	<b><u>10 Year</u></b>	<b><u>11 Year</u></b>	<b><u>12 Year</u></b>	<b><u>13 Year</u></b>	<b><u>14 Year</u></b>	<b><u>15 Year</u></b>
<b>2013</b>	0.38	0.55	0.77	1.00	1.23	1.45	1.67	1.89	2.11	2.33	2.39	2.46	2.52	2.58	2.65
<b>2014</b>	0.55	0.78	1.04	1.31	1.58	1.83	2.07	2.32	2.57	2.81	2.88	2.94	3.00	3.06	3.12
<b>2015</b>	1.73	1.94	2.15	2.36	2.56	2.78	2.99	3.21	3.42	3.64	3.69	3.74	3.79	3.84	3.89
<b>2016</b>	2.70	2.85	2.99	3.13	3.27	3.41	3.54	3.68	3.81	3.95	3.99	4.03	4.06	4.10	4.14
<b>2017</b>	3.00	3.11	3.23	3.36	3.49	3.60	3.72	3.84	3.96	4.07	4.11	4.14	4.18	4.21	4.24
<b>2018</b>	3.03	3.13	3.26	3.39	3.51	3.63	3.75	3.87	3.99	4.10	4.14	4.17	4.20	4.24	4.27
<b>2019</b>	3.03	3.13	3.26	3.39	3.51	3.63	3.75	3.87	3.99	4.10	4.14	4.17	4.20	4.24	4.27
<b>2020</b>	3.03	3.13	3.26	3.39	3.51	3.63	3.75	3.87	3.99	4.10	4.14	4.17	4.20	4.24	4.27
<b>2021</b>	3.03	3.13	3.26	3.39	3.51	3.63	3.75	3.87	3.99	4.10	4.14	4.17	4.20	4.24	4.27
<b>2022</b>	3.03	3.13	3.26	3.39	3.51	3.63	3.75	3.87	3.99	4.10	4.14	4.17	4.20	4.24	4.27
<b>2023</b>	3.03	3.13	3.26	3.39	3.51	3.63	3.75	3.87	3.99	4.10	4.14	4.17	4.20	4.24	4.27
<b>2024</b>	3.03	3.13	3.26	3.39	3.51	3.63	3.75	3.87	3.99	4.10	4.14	4.17	4.20	4.24	4.27
<b>2025</b>	3.03	3.13	3.26	3.39	3.51	3.63	3.75	3.87	3.99	4.10	4.14	4.17	4.20	4.24	4.27
<b>2026</b>	3.03	3.13	3.26	3.39	3.51	3.63	3.75	3.87	3.99	4.10	4.14	4.17	4.20	4.24	4.27
<b>2027</b>	3.03	3.13	3.26	3.39	3.51	3.63	3.75	3.87	3.99	4.10	4.14	4.17	4.20	4.24	4.27
<b>2028</b>	3.03	3.13	3.26	3.39	3.51	3.63	3.75	3.87	3.99	4.10	4.14	4.17	4.20	4.24	4.27
<b>2029</b>	3.03	3.13	3.26	3.39	3.51	3.63	3.75	3.87	3.99	4.10	4.14	4.17	4.20	4.24	4.27
<b>2030</b>	3.03	3.13	3.26	3.39	3.51	3.63	3.75	3.87	3.99	4.10	4.14	4.17	4.20	4.24	4.27
<b>2031</b>	3.03	3.13	3.26	3.39	3.51	3.63	3.75	3.87	3.99	4.10	4.14	4.17	4.20	4.24	4.27
<b>2032</b>	3.03	3.13	3.26	3.39	3.51	3.63	3.75	3.87	3.99	4.10	4.14	4.17	4.20	4.24	4.27
<b>2033</b>	3.03	3.13	3.26	3.39	3.51	3.63	3.75	3.87	3.99	4.10	4.14	4.17	4.20	4.24	4.27
<b>2034</b>	3.03	3.13	3.26	3.39	3.51	3.63	3.75	3.87	3.99	4.10	4.14	4.17	4.20	4.24	4.27
<b>2035</b>	3.03	3.13	3.26	3.39	3.51	3.63	3.75	3.87	3.99	4.10	4.14	4.17	4.20	4.24	4.27
<b>2036</b>	3.03	3.13	3.26	3.39	3.51	3.63	3.75	3.87	3.99	4.10	4.14	4.17	4.20	4.24	4.27
<b>2037</b>	3.03	3.13	3.26	3.39	3.51	3.63	3.75	3.87	3.99	4.10	4.14	4.17	4.20	4.24	4.27
<b>2038</b>	3.03	3.13	3.26	3.39	3.51	3.63	3.75	3.87	3.99	4.10	4.14	4.17	4.20	4.24	4.27
<b>2038</b>	3.03	3.13	3.26	3.39	3.51	3.63	3.75	3.87	3.99	4.10	4.14	4.17	4.20	4.24	4.27
<b>2040</b>	3.03	3.13	3.26	3.39	3.51	3.63	3.75	3.87	3.99	4.10	4.14	4.17	4.20	4.24	4.27
<b>2041</b>	3.03	3.13	3.26	3.39	3.51	3.63	3.75	3.87	3.99	4.10	4.14	4.17	4.20	4.24	4.27
<b>2042</b>	3.03	3.13	3.26	3.39	3.51	3.63	3.75	3.87	3.99	4.10	4.14	4.17	4.20	4.24	4.27

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2012 Forecast, Base Case.



Table 10  
**BPA FY 2012 Third-Party Tax-Exempt Borrowing Rate Forecast 1/**

Fiscal Years 2012-2041

**Maturity**

<b><u>16 Year</u></b>	<b><u>17 Year</u></b>	<b><u>18 Year</u></b>	<b><u>19 Year</u></b>	<b><u>20 Year</u></b>	<b><u>21 Year</u></b>	<b><u>22 Year</u></b>	<b><u>23 Year</u></b>	<b><u>24 Year</u></b>	<b><u>25 Year</u></b>	<b><u>26 Year</u></b>	<b><u>27 Year</u></b>	<b><u>28 Year</u></b>	<b><u>29 Year</u></b>	<b><u>30 Year</u></b>	<b><u>50 Year</u></b>	<b><u>Year</u></b>
2.71	2.77	2.83	2.90	2.96	3.02	3.09	3.15	3.21	3.27	3.34	3.40	3.46	3.52	3.59	3.59	<b>2013</b>
3.18	3.24	3.31	3.37	3.43	3.49	3.55	3.61	3.67	3.74	3.80	3.86	3.92	3.98	4.04	4.04	<b>2014</b>
3.94	3.99	4.04	4.09	4.14	4.19	4.24	4.29	4.34	4.39	4.45	4.50	4.55	4.60	4.65	4.65	<b>2015</b>
4.18	4.21	4.25	4.29	4.33	4.36	4.40	4.44	4.48	4.51	4.55	4.59	4.63	4.66	4.70	4.70	<b>2016</b>
4.28	4.31	4.34	4.38	4.41	4.44	4.48	4.51	4.55	4.58	4.61	4.65	4.68	4.71	4.75	4.75	<b>2017</b>
4.30	4.34	4.37	4.40	4.44	4.47	4.50	4.54	4.57	4.60	4.64	4.67	4.70	4.74	4.77	4.77	<b>2018</b>
4.30	4.34	4.37	4.40	4.44	4.47	4.50	4.54	4.57	4.60	4.64	4.67	4.70	4.74	4.77	4.77	<b>2019</b>
4.30	4.34	4.37	4.40	4.44	4.47	4.50	4.54	4.57	4.60	4.64	4.67	4.70	4.74	4.77	4.77	<b>2020</b>
4.30	4.34	4.37	4.40	4.44	4.47	4.50	4.54	4.57	4.60	4.64	4.67	4.70	4.74	4.77	4.77	<b>2021</b>
4.30	4.34	4.37	4.40	4.44	4.47	4.50	4.54	4.57	4.60	4.64	4.67	4.70	4.74	4.77	4.77	<b>2022</b>
4.30	4.34	4.37	4.40	4.44	4.47	4.50	4.54	4.57	4.60	4.64	4.67	4.70	4.74	4.77	4.77	<b>2023</b>
4.30	4.34	4.37	4.40	4.44	4.47	4.50	4.54	4.57	4.60	4.64	4.67	4.70	4.74	4.77	4.77	<b>2024</b>
4.30	4.34	4.37	4.40	4.44	4.47	4.50	4.54	4.57	4.60	4.64	4.67	4.70	4.74	4.77	4.77	<b>2025</b>
4.30	4.34	4.37	4.40	4.44	4.47	4.50	4.54	4.57	4.60	4.64	4.67	4.70	4.74	4.77	4.77	<b>2026</b>
4.30	4.34	4.37	4.40	4.44	4.47	4.50	4.54	4.57	4.60	4.64	4.67	4.70	4.74	4.77	4.77	<b>2027</b>
4.30	4.34	4.37	4.40	4.44	4.47	4.50	4.54	4.57	4.60	4.64	4.67	4.70	4.74	4.77	4.77	<b>2028</b>
4.30	4.34	4.37	4.40	4.44	4.47	4.50	4.54	4.57	4.60	4.64	4.67	4.70	4.74	4.77	4.77	<b>2029</b>
4.30	4.34	4.37	4.40	4.44	4.47	4.50	4.54	4.57	4.60	4.64	4.67	4.70	4.74	4.77	4.77	<b>2030</b>
4.30	4.34	4.37	4.40	4.44	4.47	4.50	4.54	4.57	4.60	4.64	4.67	4.70	4.74	4.77	4.77	<b>2031</b>
4.30	4.34	4.37	4.40	4.44	4.47	4.50	4.54	4.57	4.60	4.64	4.67	4.70	4.74	4.77	4.77	<b>2032</b>
4.30	4.34	4.37	4.40	4.44	4.47	4.50	4.54	4.57	4.60	4.64	4.67	4.70	4.74	4.77	4.77	<b>2033</b>
4.30	4.34	4.37	4.40	4.44	4.47	4.50	4.54	4.57	4.60	4.64	4.67	4.70	4.74	4.77	4.77	<b>2034</b>
4.30	4.34	4.37	4.40	4.44	4.47	4.50	4.54	4.57	4.60	4.64	4.67	4.70	4.74	4.77	4.77	<b>2035</b>
4.30	4.34	4.37	4.40	4.44	4.47	4.50	4.54	4.57	4.60	4.64	4.67	4.70	4.74	4.77	4.77	<b>2036</b>
4.30	4.34	4.37	4.40	4.44	4.47	4.50	4.54	4.57	4.60	4.64	4.67	4.70	4.74	4.77	4.77	<b>2037</b>
4.30	4.34	4.37	4.40	4.44	4.47	4.50	4.54	4.57	4.60	4.64	4.67	4.70	4.74	4.77	4.77	<b>2038</b>
4.30	4.34	4.37	4.40	4.44	4.47	4.50	4.54	4.57	4.60	4.64	4.67	4.70	4.74	4.77	4.77	<b>2038</b>
4.30	4.34	4.37	4.40	4.44	4.47	4.50	4.54	4.57	4.60	4.64	4.67	4.70	4.74	4.77	4.77	<b>2040</b>
4.30	4.34	4.37	4.40	4.44	4.47	4.50	4.54	4.57	4.60	4.64	4.67	4.70	4.74	4.77	4.77	<b>2041</b>
4.30	4.34	4.37	4.40	4.44	4.47	4.50	4.54	4.57	4.60	4.64	4.67	4.70	4.74	4.77	4.77	<b>2042</b>

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2012 Forecast, Base Case.

Table 11  
**BPA FY 2013 FERC Borrowing Rate (Bank Prime) Forecast 1/**

Calendar/Fiscal Years 2013-2042

<u>Year</u>	<u>A</u> <u>FERC Rate</u> <u>Calendar Year</u>	<u>B</u> <u>FERC Rate</u> <u>Fiscal Year</u>
2013	3.25	3.25
2014	3.32	3.30
2015	4.81	4.44
2016	6.67	6.20
2017	7.00	6.92
2018	7.00	7.00
2019	7.00	7.00
2020	7.00	7.00
2021	7.00	7.00
2022	7.00	7.00
2023	7.00	7.00
2024	7.00	7.00
2025	7.00	7.00
2026	7.00	7.00
2027	7.00	7.00
2028	7.00	7.00
2029	7.00	7.00
2030	7.00	7.00
2031	7.00	7.00
2032	7.00	7.00
2033	7.00	7.00
2034	7.00	7.00
2035	7.00	7.00
2036	7.00	7.00
2037	7.00	7.00
2038	7.00	7.00
2039	7.00	7.00
2040	7.00	7.00
2041	7.00	7.00
2042	7.00	7.00

1/ Global Insight: The U.S. Economy: 30-Year Focus, September 2012 Forecast, Base Case.

Table 12  
**BPA FY 2013 May 3-Month LIBOR Rate Forecast 1/**

Calendar/Fiscal Years 2013-2042

<u>Year</u>	<u>A</u> 3-Mo LIBOR <u>Calendar Year</u>	<u>B</u> 3-Mo LIBOR <u>Fiscal Year</u>
2013	0.45	0.45
2014	0.58	0.55
2015	2.10	1.72
2016	3.95	3.49
2017	4.25	4.17
2018	4.25	4.25
2019	4.25	4.25
2020	4.25	4.25
2021	4.25	4.25
2022	4.25	4.25
2023	4.25	4.25
2024	4.25	4.25
2025	4.25	4.25
2026	4.25	4.25
2027	4.25	4.25
2028	4.25	4.25
2029	4.25	4.25
2030	4.25	4.25
2031	4.25	4.25
2032	4.25	4.25
2033	4.25	4.25
2034	4.25	4.25
2035	4.25	4.25
2036	4.25	4.25
2037	4.25	4.25
2038	4.25	4.25
2039	4.25	4.25
2040	4.25	4.25
2041	4.25	4.25
2042	4.25	4.25

1/ Global Insight: The U.S. Economy: 30-Year Focus, September 2012 Forecast, Base Case.

Table 13  
**Comparison of FY 2013 Inflation Forecast Components**  
 Calendar/Fiscal Year Forecasts 2013 vs. 2012

Calendar/Fiscal Years 2013-2042							
	A	B	C	D	E	F	G
	CY 2013 1/ Calendar Year GDP Price <u>Deflator</u> (%)	FY 2013 1/ Fiscal Year GDP Price <u>Deflator</u> (%)	FY 2013 2/ Fiscal Year Cumulative <u>Price Deflator</u> (Base Year 2012)	FY 2012 3/ Fiscal Year FY Price <u>Deflator</u> (%)	FY 2012 3/ Fiscal Year FY Cumulative <u>Price Deflator</u> (Base Year 2011)	Change in the FY Price <u>Deflator</u> (B-D)	Change in the FY Cumulative <u>Price Deflator</u> (C-E)
<u>YEAR</u>							
2013	1.78%	1.78%	1.009	1.32%	1.018	0.45%	-0.009
2014	1.54%	1.60%	1.027	1.76%	1.032	-0.16%	-0.005
2015	1.61%	1.59%	1.044	1.88%	1.050	-0.29%	-0.006
2016	1.65%	1.64%	1.060	1.88%	1.070	-0.23%	-0.009
2017	1.60%	1.61%	1.078	1.83%	1.090	-0.22%	-0.012
2018	1.68%	1.66%	1.095	1.76%	1.110	-0.10%	-0.015
2019	1.63%	1.64%	1.113	1.69%	1.129	-0.05%	-0.016
2020	1.67%	1.66%	1.132	1.65%	1.148	0.01%	-0.017
2021	1.71%	1.70%	1.150	1.63%	1.167	0.07%	-0.017
2022	1.74%	1.74%	1.170	1.66%	1.186	0.08%	-0.016
2023	1.74%	1.74%	1.190	1.67%	1.206	0.07%	-0.016
2024	1.71%	1.72%	1.211	1.67%	1.226	0.05%	-0.015
2025	1.71%	1.71%	1.232	1.68%	1.247	0.03%	-0.015
2026	1.72%	1.72%	1.253	1.71%	1.268	0.01%	-0.015
2027	1.73%	1.73%	1.274	1.72%	1.289	0.01%	-0.015
2028	1.74%	1.74%	1.296	1.73%	1.312	0.01%	-0.015
2029	1.79%	1.78%	1.319	1.76%	1.334	0.02%	-0.015
2030	1.81%	1.80%	1.343	1.77%	1.358	0.03%	-0.015
2031	1.85%	1.84%	1.367	1.81%	1.382	0.02%	-0.015
2032	1.82%	1.83%	1.392	1.82%	1.407	0.01%	-0.015
2033	1.81%	1.82%	1.417	1.81%	1.432	0.00%	-0.015
2034	1.83%	1.83%	1.443	1.83%	1.458	0.00%	-0.015
2035	1.82%	1.82%	1.469	1.80%	1.485	0.03%	-0.016
2036	1.83%	1.82%	1.496	1.75%	1.512	0.08%	-0.015
2037	1.84%	1.84%	1.523	1.73%	1.538	0.11%	-0.015
2038	1.86%	1.85%	1.551	1.74%	1.565	0.11%	-0.013
2039	1.86%	1.86%	1.580	1.76%	1.592	0.09%	-0.012
2040	1.84%	1.85%	1.609	1.76%	1.620	0.09%	-0.010
2041	1.85%	1.85%	1.639	1.76%	1.648	0.09%	-0.009
2042	1.85%	1.85%	1.670				

1/ BPA FY 2013 Forecast: Global Insight CY 2012.Q3 long-term outlook. The U.S. Economy: 30-Year Focus, September 2012 Forecast, Base Case.

2/ Fiscal Year Cumulative Price Deflator escalates to midyear dollars. The first year, 2013, is determined as follows:  $1.009 = ((1.78/100) \cdot 5) + 1$ . An example of subsequent year cumulative growth such as in 2014 is found as:  $1.027 = (1 + (1.604/100)) \cdot 1.009$

3/ Global Insight The U.S. Economy: 30-year Focus, September 2011 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/Corps 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/Corps direct-funded. Construction bonds included in the generation study are the portions of bonds that fund furniture, information technology (IT) hardware and software for PS. (Construction bonds are also issued to fund capital expenditures of the transmission function including IT 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/Corps generation efficiency and reliability improvements. All bonds projected for issuance have been entered into the generation repayment study.

Reclamation/Corps 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 either 5 or 12 years consistent with BPA's policy on amortizing conservation investments.

New bonds for the cost evaluation period (FY 2013 - 2015) are based on projected BPA and Reclamation/Corps 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.

	A	B	C	D	E	F	G	H	I	J
1	<b>Table 7A</b>									
2	<b>BPA Projected Generation Federal Borrowing</b>									
3	<b>FY 2013 - 2015</b>									
4	<b>(\$000s)</b>									
5										
6										
7										
8	<b>FY</b>		<b>Description</b>		<b>Interest Rate</b>		<b>Term</b>		<b>Total Borrowing</b>	
9										
10										
11	2013		Power Agency Services		1.80%		6		8,820	
12			Power Agency Services		1.80%		6		7,610	
13			Power Agency Services		1.10%		6		6,300	
14			Fish and Wildlife		5.00%		15		25,000	
15			Fish and Wildlife		3.10%		15		11,690	
16			Fish and Wildlife		3.10%		15		13,310	
17			Fish and Wildlife		5.40%		15		10,000	
18			Conservation		5.00%		3		9,000	
19			Conservation		6.00%		4		20,000	
20			Conservation		2.90%		12		14,480	
21			Conservation		5.00%		12		10,000	
22			Conservation		2.90%		12		21,720	
23			USBR/COE <sup>1/</sup>		6.00%		30		18,000	
24			USBR/COE <sup>1/</sup>		4.10%		30		8,370	
25			USBR/COE <sup>1/</sup>		4.10%		30		7,390	
26			USBR/COE <sup>1/</sup>		4.10%		30		8,900	
27			USBR/COE <sup>1/</sup>		4.10%		30		5,160	
28			USBR/COE <sup>1/</sup>		4.10%		30		4,100	
29			USBR/COE <sup>1/</sup>		4.10%		30		2,490	
30			USBR/COE <sup>1/</sup>		6.00%		30		15,000	
31			USBR/COE <sup>1/</sup>		5.00%		30		70,000	
32										
33									<b>297,340</b>	
34										
35	2012		Power Agency Services		2.20%		6		4,430	
36			Power Agency Services		2.20%		6		4,140	
37			Power Agency Services		2.20%		6		5,140	
38			Power Agency Services		2.20%		6		4,830	
39			Fish and Wildlife		3.60%		15		11,850	
40			Fish and Wildlife		4.40%		15		10,060	
41			Fish and Wildlife		3.60%		15		24,880	
42			Fish and Wildlife		3.60%		15		13,490	
43			Conservation		3.40%		12		24,000	
44			Conservation		3.60%		12		15,590	
45			Conservation		3.40%		12		22,190	
46			Conservation		3.42%		12		13,840	
47			USBR/COE <sup>1/</sup>		4.50%		30		6,090	
48			USBR/COE <sup>1/</sup>		4.50%		30		4,140	
49			USBR/COE <sup>1/</sup>		4.50%		30		7,170	
50			USBR/COE <sup>1/</sup>		4.50%		30		6,720	
51			USBR/COE <sup>1/</sup>		4.50%		30		6,240	
52			USBR/COE <sup>1/</sup>		4.50%		30		5,560	
53			USBR/COE <sup>1/</sup>		4.50%		30		6,460	
54			USBR/COE <sup>1/</sup>		4.50%		30		5,670	
55			USBR/COE <sup>1/</sup>		4.50%		30		4,760	
56			USBR/COE <sup>1/</sup>		4.50%		30		5,390	

	A	B	C	D	E	F	G	H	I	J	
1	<b>Table 7A</b>										
2											
3	<b>BPA Projected Generation Federal Borrowing</b>										
4	<b>FY 2013 - 2015</b>										
5	<b>(\$000s)</b>										
6											
7					<b>Interest</b>				<b>Total</b>		
8	<b>FY</b>		<b>Description</b>		<b>Rate</b>		<b>Term</b>		<b>Borrowing</b>		
9											
57			USBR/COE <sup>1/</sup>		4.50%		30		6,510		
58			USBR/COE <sup>1/</sup>		4.50%		30		5,020		
59											
60									<b>224,170</b>		
61											
62	2013		Power Agency Services		3.30%		6		4,240		
63			Power Agency Services		3.30%		6		5,260		
64			Power Agency Services		3.30%		6		4,940		
65			Power Agency Services		3.30%		6		4,540		
66			Fish and Wildlife		4.40%		15		11,480		
67			Fish and Wildlife		4.40%		15		10,090		
68			Fish and Wildlife		4.40%		15		21,160		
69			Fish and Wildlife		4.40%		15		8,560		
70			Conservation		4.30%		12		16,930		
71			Conservation		4.30%		12		27,140		
72			Conservation		4.30%		12		28,860		
73			Conservation		4.30%		12		19,070		
74			USBR/COE <sup>1/</sup>		5.10%		30		7,830		
75			USBR/COE <sup>1/</sup>		5.10%		30		13,570		
76			USBR/COE <sup>1/</sup>		5.10%		30		12,710		
77			USBR/COE <sup>1/</sup>		5.10%		30		11,800		
78			USBR/COE <sup>1/</sup>		5.10%		30		10,510		
79			USBR/COE <sup>1/</sup>		5.10%		30		12,230		
80			USBR/COE <sup>1/</sup>		5.10%		30		12,320		
81			USBR/COE <sup>1/</sup>		5.10%		30		10,730		
82			USBR/COE <sup>1/</sup>		5.10%		30		9,010		
83			USBR/COE <sup>1/</sup>		5.10%		30		10,190		
84			USBR/COE <sup>1/</sup>		5.10%		30		11,530		
85			USBR/COE <sup>1/</sup>		5.10%		30		9,490		
86											
87									<b>294,190</b>		
88											
89											
90			1/ Bonds issued for this purpose are for direct funding efficiency and reliability.								
91											

## **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 8A are based on the amount of non-Federal debt outstanding. The debt service streams reflect all EN refinancings to date. Debt service streams include assumptions about projected CGS capital investments, fuel purchases, and projected refinancing of Lewis County (Cowlitz Falls) and CGS debt. CGS debt service is displayed net of anticipated revenues expected from the Tennessee Valley Authority for the purchase of nuclear fuel from EN. Projected CGS capital investments are identified in Table 8B. Debt service streams are derived from such sources as Official Statements, Agency agreements, Agency contracts, and budgetary data.



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

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>
	<b>Fiscal Year</b>	<b>WNP-1</b>	<b>CGS</b>	<b>WNP-3</b>	<b>CARES</b>	<b>Tacoma</b>	<b>Wasco</b>	<b>Cowlitz</b>	<b>Total</b>
1	2013	238,021	97,050	172,895	547	1,872	1,890	12,646	524,921
2	2014	249,161	84,607	165,932	546	1,872	1,931	6,885	510,934
3	2015	185,460	70,497	165,403	-	312	1,929	6,890	430,491
4	2016	244,506	84,877	215,070	-	-	1,931	6,886	553,270
5	2017	189,602	106,374	254,884	-	-	1,935	6,887	559,682
6	2018	-	199,314	345,481	-	-	1,934	6,889	553,618
7	2019	-	302,595	(890)	-	-	1,932	6,888	310,525
8	2020	-	350,321	-	-	-	1,937	6,890	359,148
9	2021	-	330,680	-	-	-	1,948	6,887	339,515
10	2022	-	337,495	-	-	-	1,950	6,886	346,331
11	2023	-	336,713	-	-	-	1,947	6,890	345,550
12	2024	-	261,829	-	-	-	1,947	6,889	270,665
13	2025	-	36,213	-	-	-	325	6,887	43,425
14	2026	-	36,992	-	-	-	-	6,889	43,881
15	2027	-	29,865	-	-	-	-	6,890	36,755
16	2028	-	18,236	-	-	-	-	6,888	25,124
17	<b>Total</b>	<b>1,106,750</b>	<b>2,683,658</b>	<b>1,318,775</b>	<b>1,093</b>	<b>4,056</b>	<b>23,536</b>	<b>115,967</b>	<b>5,253,835</b>

**Table 8B**

**CGS New Investment  
(\$000s)**

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
	<b>Fiscal Year</b>	<b><u>Principal</u></b>	<b><u>Interest</u></b>	<b>Total Debt <u>Service</u></b>
1	2013	-	1,828	1,828
2	2014	-	5,752	5,752
3	2015	-	10,716	10,716
4	2016	-	16,997	16,997
5	2017	-	23,071	23,071
6	2018	-	28,193	28,193
7	2019	-	32,188	32,188
8	2020	-	35,378	35,378
9	2021	-	38,618	38,618
10	2022	-	41,910	41,910
11	2023	-	45,984	45,984
12	2024	10,228	50,437	60,665
13	2025	42,344	54,649	96,993
14	2026	48,109	57,835	105,944
15	2027	54,330	60,930	115,260
16	2028	<u>61,689</u>	<u>63,889</u>	<u>125,578</u>
17	<b>Total</b>	<b>337,986</b>	<b>315,545</b>	<b>653,531</b>

## **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	2013	Columbia Basin	58,961
2	<b>2013 Total:</b>		<b>58,961</b>
3	2014	Columbia Basin	52,550
4	<b>2014 Total:</b>		<b>52,550</b>
5	2015	Columbia Basin	52,110
6	<b>2015 Total:</b>		<b>52,110</b>
7	2016	Columbia Basin	60,957
8	<b>2016 Total:</b>		<b>60,957</b>
9	2017	Columbia Basin	49,241
10		Greater Wenatchee	1,073
11		Yakima, Roza	1,078
12	<b>2017 Total:</b>		<b>51,393</b>
13	2018	Columbia Basin	26,113
14		Foster Creek	684
15		Yakima, Roza	770
16	<b>2018 Total:</b>		<b>27,567</b>
17	2019	Columbia Basin	51,385
18		FosterCreek	1,117
19		Michaud Flats	2,081
20		Michaud-Fort Hall	2,081
21		Yaklma,Roza	564
22	<b>2019 Total:</b>		<b>57,228</b>
23	2020	Columbia Basin	22,219
24		Crooked River	2,380
25	<b>2020 Total:</b>		<b>24,599</b>
26	2021	Columbia Basin	10,145
27		Yakirna, Roza	2,087
28	<b>2021 Total:</b>		<b>12,232</b>
29	2022	Columbia Basin	13,769
30		Yakima, Rosa	623
31	<b>2022 Total:</b>		<b>14,392</b>
32	2023	Columbia Basin	9,880
33		Rogue River	3,091
34	<b>2023 Total:</b>		<b>12,971</b>
35	2024	Columbia Basin	7,877
36		Greater Wenatchee	1,961
37		Yakirna, Kennewick	5,308
38	<b>2024 Total:</b>		<b>15,146</b>
39	2025	Columbia Basin	12,580
40		Crooked River Ext	1,172
41	<b>2025 Total:</b>		<b>13,752</b>
42	2026	Columbia Basin	13,048
43		Greater Wenatchee	930
44		Whitestone Coulee Unit	3,810
45		Yakima, Rosa	3,180
46	<b>2026 Total:</b>		<b>20,969</b>
47	2027	Columbia Basin	3,974

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

	A	B	C
	Fiscal Year Due	Project	Amount
48		Rogue River	<u>2,222</u>
49	<b>2027 Total:</b>		<b>6,196</b>
50	<b>2028</b>	Columbia Basin	7,072
51		The Dalles	<u>4,204</u>
52	<b>2028 Total:</b>		<b>11,276</b>
53	<b>2029</b>	Baker	<u>4,065</u>
54	<b>2029 Total:</b>		<b>4,065</b>
55	<b>2030</b>	East Greenacres	<u>1,996</u>
56	<b>2030 Total:</b>		<b>1,996</b>
57	<b>2031</b>	Columbia Basin	<u>10,658</u>
58	<b>2031 Total:</b>		<b>10,658</b>
59	<b>2033</b>	Rogue River	<u>4,347</u>
60	<b>2033 Total:</b>		<b>4,347</b>
61	<b>2035</b>	Columbia Basin	<u>7,861</u>
62	<b>2035 Total:</b>		<b>7,861</b>
63	<b>2036</b>	Manson Unit	16,163
64		Tualatin	9,098
65		Whltestone Coulee Unit	<u>3,660</u>
66	<b>2036 Total:</b>		<b>28,920</b>
67	<b>2037</b>	Columbia Basin	12,221
68		East Greenacres	<u>3,962</u>
69	<b>2037 Total:</b>		<b>16,183</b>
70	<b>2039</b>	Tualatin	14,229
71	<b>2039 Total:</b>		<b>14,229</b>
72	<b>2042</b>	Oroville Tonasket	<u>73,659</u>
73	<b>2042 Total:</b>		<b>73,659</b>
74	<b>2045</b>	Columbia Basin	<u>11,728</u>
75	<b>2045 Total:</b>		<b>11,728</b>
76			
	<b>Grand Total:</b>		<b><u>665,944</u></b>

## **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 2014 and 2015, is based on the amount of investment in the generating projects for the Corps 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 2012 dollars. We relied on data projected through 2019. 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 to account for the lapse factor, upgrades, and 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 Replacements (FY 2014)**  
**(\$000s)**

	A	B	C	D
	In Service Date	Current Principal	Interest Rate	Due Date
3	2015	188,851	4.510%	2060
4	2016	187,748	4.510%	2061
5	2017	181,331	4.510%	2062
6	2018	182,180	4.510%	2063
7	2019	179,674	4.510%	2064
8	2020	177,244	4.510%	2065
9	2021	175,579	4.510%	2066
10	2022	168,627	4.510%	2067
11	2023	168,627	4.510%	2068
12	2024	168,627	4.510%	2069
13	2025	168,627	4.510%	2070
14	2026	168,627	4.510%	2071
15	2027	168,627	4.510%	2072
16	2028	168,627	4.510%	2073
17	2029	168,627	4.510%	2074
18	2030	168,627	4.510%	2075
19	2031	168,627	4.510%	2076
20	2032	168,627	4.510%	2077
21	2033	168,627	4.510%	2078
22	2034	168,627	4.510%	2079
23	2035	168,627	4.510%	2080
24	2036	168,627	4.510%	2081
25	2037	168,627	4.510%	2082
26	2038	168,627	4.510%	2083
27	2039	168,627	4.510%	2084
28	2040	168,627	4.510%	2085
29	2041	168,627	4.510%	2086
30	2042	168,627	4.510%	2087
31	2043	168,627	4.510%	2088
32	2044	168,627	4.510%	2089
33	2045	168,627	4.510%	2090
34	2046	168,627	4.510%	2091
35	2047	168,627	4.510%	2092
36	2048	168,627	4.510%	2093
37	2049	168,627	4.510%	2094
38	2050	168,627	4.510%	2095
39	2051	168,627	4.510%	2096
40	2052	168,627	4.510%	2097
41	2053	168,627	4.510%	2098
42	2054	168,627	4.510%	2099
43	2055	168,627	4.510%	2100
44	2056	168,627	4.510%	2101
45	2057	168,627	4.510%	2102
46	2058	168,627	4.510%	2103
47	2059	168,627	4.510%	2104
48	2060	168,627	4.510%	2105
49	2061	168,627	4.510%	2106
50	2062	168,627	4.510%	2107
51	2063	168,627	4.510%	2108
52	2064	168,627	4.510%	2109



**Table 10B: Corps/Reclamation Replacements (FY 2015)**  
**(\$000s)**

	A	B	C	D
	In Service Date	Current Principal	Interest Rate	Due Date
1	2016	191,022	5.400%	2061
2	2017	184,494	5.400%	2062
3	2018	185,357	5.400%	2063
4	2019	182,808	5.400%	2064
5	2020	180,336	5.400%	2065
6	2021	178,641	5.400%	2066
7	2022	171,569	5.400%	2067
8	2023	171,569	5.400%	2068
9	2024	171,569	5.400%	2069
10	2025	171,569	5.400%	2070
11	2026	171,569	5.400%	2071
12	2027	171,569	5.400%	2072
13	2028	171,569	5.400%	2073
14	2029	171,569	5.400%	2074
15	2030	171,569	5.400%	2075
16	2031	171,569	5.400%	2076
17	2032	171,569	5.400%	2077
18	2033	171,569	5.400%	2078
19	2034	171,569	5.400%	2079
20	2035	171,569	5.400%	2080
21	2036	171,569	5.400%	2081
22	2037	171,569	5.400%	2082
23	2038	171,569	5.400%	2083
24	2039	171,569	5.400%	2084
25	2040	171,569	5.400%	2085
26	2041	171,569	5.400%	2086
27	2042	171,569	5.400%	2087
28	2043	171,569	5.400%	2088
29	2044	171,569	5.400%	2089
30	2045	171,569	5.400%	2090
31	2046	171,569	5.400%	2091
32	2047	171,569	5.400%	2092
33	2048	171,569	5.400%	2093
34	2049	171,569	5.400%	2094
35	2050	171,569	5.400%	2095
36	2051	171,569	5.400%	2096
37	2052	171,569	5.400%	2097
38	2053	171,569	5.400%	2098
39	2054	171,569	5.400%	2099
40	2055	171,569	5.400%	2100
41	2056	171,569	5.400%	2101
42	2057	171,569	5.400%	2102
43	2058	171,569	5.400%	2103
44	2059	171,569	5.400%	2104
45	2060	171,569	5.400%	2105
46	2061	171,569	5.400%	2106
47	2062	171,569	5.400%	2107
48	2063	171,569	5.400%	2108
49	2064	171,569	5.400%	2109
50	2065	171,569	5.400%	2110

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

	<b>Fiscal Year</b>	<b>Total Debt Service</b>
1	2045	489,036,730
2	2046	489,034,180
3	2047	489,038,110
4	2048	489,034,890
5	2049	489,035,890
6	2050	489,036,030
7	2051	489,034,650
8	2052	489,035,220
9	2053	489,035,050
10	2054	489,035,580
11	2055	489,037,090
12	2056	489,033,700
13	2057	489,033,660
14	2058	489,033,480
15	2059	489,038,510
16	2060	489,037,360
17	2061	489,037,770
18	2062	489,035,450
19	2063	489,034,660
20	2064	489,037,630
21	2065	489,034,560
22	2066	489,034,200
23	2067	489,037,690
24	2068	489,033,850
25	2069	489,034,760
26	2070	489,034,310
27	2071	489,034,070
28	2072	489,037,710
29	2073	489,035,710
30	2074	489,035,940
31	2075	489,037,500
32	2076	489,036,010
33	2077	489,033,610
34	2078	489,033,380
35	2079	489,034,050
36	2080	462,225,000

**11. REPAYMENT STUDY INPUT DATA, FY 2014 STUDY**

**TABLE 11A: HISTORICAL INVESTMENTS**  
**October 1, 2013 - September 30, 2015 Cost Evaluation period**  
**(\$000s) (FY 2014)**

	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	-	-
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	-	-

**TABLE 11A: HISTORICAL INVESTMENTS**  
**October 1, 2013 - September 30, 2015 Cost Evaluation period**  
**(\$000s) (FY 2014)**

	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
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	-	-
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	-	-

**TABLE 11A: HISTORICAL INVESTMENTS**  
**October 1, 2013 - September 30, 2015 Cost Evaluation period**  
**(\$000s) (FY 2014)**

	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
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	-	-
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	-	-

**TABLE 11A: HISTORICAL INVESTMENTS**  
**October 1, 2013 - September 30, 2015 Cost Evaluation period**  
**(\$000s) (FY 2014)**

	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
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	-	-
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	-	-

**TABLE 11A: HISTORICAL INVESTMENTS**  
**October 1, 2013 - September 30, 2015 Cost Evaluation period**  
**(\$000s) (FY 2014)**

	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
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	Bonneville Dam	1,425	1,425	4.250%	2060	2010	9	-	-
306	Bonneville Dam	10,962	10,962	3.750%	2061	2011	9	-	-
307	Chief Joseph	29,164	-	6.910%	2005	1955	9	-	-
308	Chief Joseph	13,643	-	6.950%	2006	1956	9	-	-
309	Chief Joseph	39,586	-	6.980%	2007	1957	9	-	-
310	Chief Joseph	31,901	-	7.020%	2008	1958	9	-	-
311	Chief Joseph	223	-	7.020%	2008	1959	9	-	-
312	Chief Joseph	223	-	7.020%	2008	1960	9	-	-
313	Chief Joseph	223	-	7.020%	2008	1961	9	-	-
314	Chief Joseph	223	-	7.020%	2008	1962	9	-	-
315	Chief Joseph	224	-	7.020%	2008	1963	9	-	-
316	Chief Joseph	223	-	7.020%	2008	1964	9	-	-
317	Chief Joseph	223	-	7.020%	2008	1965	9	-	-
318	Chief Joseph	223	-	7.020%	2008	1966	9	-	-
319	Chief Joseph	223	-	7.020%	2008	1967	9	-	-
320	Chief Joseph	224	-	7.020%	2008	1968	9	-	-
321	Chief Joseph	223	-	7.020%	2008	1969	9	-	-
322	Chief Joseph	223	-	7.020%	2008	1970	9	-	-
323	Chief Joseph	223	-	7.020%	2008	1971	9	-	-
324	Chief Joseph	223	-	7.020%	2008	1972	9	-	-
325	Chief Joseph	224	-	7.020%	2008	1973	9	-	-
326	Chief Joseph	223	-	7.020%	2008	1974	9	-	-
327	Chief Joseph	223	-	7.020%	2008	1975	9	-	-
328	Chief Joseph	223	-	7.020%	2008	1976	9	-	-
329	Chief Joseph	223	-	7.020%	2008	1977	9	-	-
330	Chief Joseph	30,512	30,512	7.150%	2027	1977	9	-	-
331	Chief Joseph	224	-	7.020%	2008	1978	9	-	-
332	Chief Joseph	75,669	75,669	7.150%	2028	1978	9	-	-
333	Chief Joseph	223	-	7.020%	2008	1979	9	-	-
334	Chief Joseph	60,079	60,079	7.150%	2029	1979	9	-	-
335	Chief Joseph	223	-	7.020%	2008	1980	9	-	-
336	Chief Joseph	223	-	7.020%	2008	1981	9	-	-
337	Chief Joseph	223	-	7.020%	2008	1982	9	-	-
338	Chief Joseph	224	-	7.020%	2008	1983	9	-	-
339	Chief Joseph	909	-	10.750%	2008	1984	9	-	-
340	Chief Joseph	46	-	7.020%	2008	1985	9	-	-
341	Chief Joseph	16,372	16,372	7.150%	2029	1985	9	-	-
342	Chief Joseph	5,363	5,363	7.150%	2029	1986	9	-	-
343	Chief Joseph	104	-	8.875%	2008	1987	9	-	-
344	Chief Joseph	3,036	3,036	7.150%	2029	1987	9	-	-
345	Chief Joseph	2,722	2,722	7.150%	2029	1988	9	-	-
346	Chief Joseph	327	-	9.250%	2008	1989	9	-	-
347	Chief Joseph	2,227	2,227	7.150%	2029	1989	9	-	-
348	Chief Joseph	1,024	-	8.875%	2008	1990	9	-	-
349	Chief Joseph	4,505	4,505	7.150%	2029	1990	9	-	-
350	Chief Joseph	34	-	8.750%	2008	1991	9	-	-
351	Chief Joseph	293	-	8.750%	2008	1991	9	-	-
352	Chief Joseph	3,840	-	8.750%	2029	1991	9	-	-
353	Chief Joseph	142	-	8.500%	2008	1992	9	-	-
354	Chief Joseph	717	-	8.500%	2008	1992	9	-	-
355	Chief Joseph	2,032	-	8.500%	2029	1992	9	-	-
356	Chief Joseph	42	-	7.875%	2008	1993	9	-	-
357	Chief Joseph	794	-	7.875%	2008	1993	9	-	-
358	Chief Joseph	1,360	-	7.875%	2029	1993	9	-	-
359	Chief Joseph	129	-	7.125%	2029	1994	9	-	-
360	Chief Joseph	65	-	7.125%	2029	1994	9	-	-
361	Chief Joseph	4,280	4,017	7.150%	2044	1994	9	-	-
362	Chief Joseph	15	-	7.090%	2010	1995	9	-	-
363	Chief Joseph	147	147	7.150%	2045	1995	9	-	-
364	Chief Joseph	562	562	7.150%	2045	1995	9	-	-
365	Chief Joseph	712	712	7.150%	2045	1995	9	-	-
366	Chief Joseph	784	784	7.150%	2045	1995	9	-	-
367	Chief Joseph	27	27	7.150%	2031	1996	9	-	-
368	Chief Joseph	3	3	7.150%	2046	1996	9	-	-
369	Chief Joseph	4	4	7.150%	2046	1996	9	-	-
370	Chief Joseph	355	355	7.150%	2046	1996	9	-	-
371	Chief Joseph	729	729	7.150%	2046	1996	9	-	-
372	Chief Joseph	166	166	7.150%	2032	1997	9	-	-
373	Chief Joseph	657	657	7.150%	2047	1997	9	-	-
374	Chief Joseph	345	345	5.875%	2051	2001	9	-	-
375	Chief Joseph	2	2	5.500%	2052	2002	9	-	-



**TABLE 11A: HISTORICAL INVESTMENTS**  
**October 1, 2013 - September 30, 2015 Cost Evaluation period**  
**(\$000s) (FY 2014)**

	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
376	Chief Joseph	992	992	5.125%	2053	2003	9	-	-
377	Chief Joseph	3,500	3,500	4.875%	2058	2008	9	-	-
378	Chief Joseph	24,727	24,727	4.375%	2059	2009	9	-	-
379	Chief Joseph	4	4	3.750%	2061	2011	9	-	-
380	Chief Joseph	24	24	3.375%	2062	2012	9	-	-
381	Columbia Basin	10,919	-	3.000%	1991	1941	9	-	-
382	Columbia Basin	1,505	-	3.000%	1991	1941	9	-	-
383	Columbia Basin	16,165	-	3.000%	1992	1942	9	-	-
384	Columbia Basin	3,011	-	3.000%	1992	1942	9	-	-
385	Columbia Basin	8,083	-	3.000%	1993	1943	9	-	-
386	Columbia Basin	1,505	-	3.000%	1993	1943	9	-	-
387	Columbia Basin	16,165	-	3.000%	1994	1944	9	-	-
388	Columbia Basin	3,011	-	3.000%	1994	1944	9	-	-
389	Columbia Basin	24,247	-	3.000%	1998	1948	9	-	-
390	Columbia Basin	4,516	-	3.000%	1998	1948	9	-	-
391	Columbia Basin	24,247	-	3.000%	1999	1949	9	-	-
392	Columbia Basin	4,516	-	3.000%	1999	1949	9	-	-
393	Columbia Basin	16,165	-	3.000%	2000	1950	9	-	-
394	Columbia Basin	3,011	-	3.000%	2000	1950	9	-	-
395	Columbia Basin	28,255	-	6.710%	2001	1951	9	-	-
396	Columbia Basin	5,790	-	6.710%	2001	1951	9	-	-
397	Columbia Basin	258	-	6.710%	2001	1952	9	-	-
398	Columbia Basin	48	-	6.710%	2001	1952	9	-	-
399	Columbia Basin	258	-	6.710%	2001	1953	9	-	-
400	Columbia Basin	48	-	6.710%	2001	1953	9	-	-
401	Columbia Basin	258	-	6.710%	2001	1954	9	-	-
402	Columbia Basin	48	-	6.710%	2001	1954	9	-	-
403	Columbia Basin	258	-	6.710%	2001	1955	9	-	-
404	Columbia Basin	48	-	6.710%	2001	1955	9	-	-
405	Columbia Basin	259	-	6.710%	2001	1956	9	-	-
406	Columbia Basin	48	-	6.710%	2001	1956	9	-	-
407	Columbia Basin	258	-	6.710%	2001	1957	9	-	-
408	Columbia Basin	48	-	6.710%	2001	1957	9	-	-
409	Columbia Basin	258	-	6.710%	2001	1958	9	-	-
410	Columbia Basin	48	-	6.710%	2001	1958	9	-	-
411	Columbia Basin	258	-	6.710%	2001	1959	9	-	-
412	Columbia Basin	48	-	6.710%	2001	1959	9	-	-
413	Columbia Basin	258	-	6.710%	2001	1960	9	-	-
414	Columbia Basin	48	-	6.710%	2001	1960	9	-	-
415	Columbia Basin	259	-	6.710%	2001	1961	9	-	-
416	Columbia Basin	48	-	6.710%	2001	1961	9	-	-
417	Columbia Basin	258	-	6.710%	2001	1962	9	-	-
418	Columbia Basin	48	-	6.710%	2001	1962	9	-	-
419	Columbia Basin	258	-	6.710%	2001	1963	9	-	-
420	Columbia Basin	48	-	6.710%	2001	1963	9	-	-
421	Columbia Basin	258	-	6.710%	2001	1964	9	-	-
422	Columbia Basin	48	-	6.710%	2001	1964	9	-	-
423	Columbia Basin	258	-	6.710%	2001	1965	9	-	-
424	Columbia Basin	48	-	6.710%	2001	1965	9	-	-
425	Columbia Basin	259	-	6.710%	2001	1966	9	-	-
426	Columbia Basin	48	-	6.710%	2001	1966	9	-	-
427	Columbia Basin	258	-	6.710%	2001	1967	9	-	-
428	Columbia Basin	48	-	6.710%	2001	1967	9	-	-
429	Columbia Basin	758	-	7.290%	2017	1967	9	-	-
430	Columbia Basin	258	-	6.710%	2001	1968	9	-	-
431	Columbia Basin	48	-	6.710%	2001	1968	9	-	-
432	Columbia Basin	258	-	6.710%	2001	1969	9	-	-
433	Columbia Basin	48	-	6.710%	2001	1969	9	-	-
434	Columbia Basin	258	-	6.710%	2001	1970	9	-	-
435	Columbia Basin	48	-	6.710%	2001	1970	9	-	-
436	Columbia Basin	259	-	6.710%	2001	1971	9	-	-
437	Columbia Basin	48	-	6.710%	2001	1971	9	-	-
438	Columbia Basin	258	-	6.710%	2001	1972	9	-	-
439	Columbia Basin	48	-	6.710%	2001	1972	9	-	-
440	Columbia Basin	258	-	6.710%	2001	1973	9	-	-
441	Columbia Basin	48	-	6.710%	2001	1973	9	-	-
442	Columbia Basin	258	-	6.710%	2001	1974	9	-	-
443	Columbia Basin	48	-	6.710%	2001	1974	9	-	-
444	Columbia Basin	258	-	6.710%	2001	1975	9	-	-
445	Columbia Basin	48	-	6.710%	2001	1975	9	-	-
446	Columbia Basin	259	-	6.710%	2001	1976	9	-	-
447	Columbia Basin	48	-	6.710%	2001	1976	9	-	-
448	Columbia Basin	258	-	6.710%	2001	1977	9	-	-
449	Columbia Basin	48	-	6.710%	2001	1977	9	-	-
450	Columbia Basin	258	-	6.710%	2001	1978	9	-	-

**TABLE 11A: HISTORICAL INVESTMENTS**  
**October 1, 2013 - September 30, 2015 Cost Evaluation period**  
**(\$000s) (FY 2014)**

	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
451	Columbia Basin	48	-	6.710%	2001	1978	9	-	-
452	Columbia Basin	258	-	6.710%	2001	1979	9	-	-
453	Columbia Basin	48	-	6.710%	2001	1979	9	-	-
454	Columbia Basin	258	-	6.710%	2001	1980	9	-	-
455	Columbia Basin	48	-	6.710%	2001	1980	9	-	-
456	Columbia Basin	259	-	6.710%	2001	1981	9	-	-
457	Columbia Basin	48	-	6.710%	2001	1981	9	-	-
458	Columbia Basin	258	-	6.710%	2001	1982	9	-	-
459	Columbia Basin	48	-	6.710%	2001	1982	9	-	-
460	Columbia Basin	258	-	6.710%	2001	1983	9	-	-
461	Columbia Basin	48	-	6.710%	2001	1983	9	-	-
462	Columbia Basin	7,815	-	10.750%	2001	1984	9	-	-
463	Columbia Basin	1,455	-	10.750%	2001	1984	9	-	-
464	Columbia Basin	236	-	6.710%	2001	1985	9	-	-
465	Columbia Basin	11	-	6.710%	2001	1985	9	-	-
466	Columbia Basin	7,338	-	12.375%	2001	1985	9	-	-
467	Columbia Basin	362	-	12.375%	2001	1985	9	-	-
468	Columbia Basin	127	-	6.710%	2001	1986	9	-	-
469	Columbia Basin	13	-	6.710%	2001	1987	9	-	-
470	Columbia Basin	184	-	8.500%	2001	1988	9	-	-
471	Columbia Basin	2	-	8.500%	2001	1988	9	-	-
472	Columbia Basin	1,166	-	9.250%	2001	1989	9	-	-
473	Columbia Basin	928	-	8.875%	2001	1990	9	-	-
474	Columbia Basin	177	-	8.750%	2001	1991	9	-	-
475	Columbia Basin	1,661	-	8.750%	2001	1991	9	-	-
476	Columbia Basin	445	-	8.500%	2001	1992	9	-	-
477	Columbia Basin	652	-	8.500%	2001	1992	9	-	-
478	Columbia Basin	792	-	6.710%	2001	1993	9	-	-
479	Columbia Basin	25	-	6.620%	2000	1995	9	-	-
480	Columbia Basin	206	-	7.250%	2020	1995	9	-	-
481	Columbia Basin	25	-	7.150%	2030	1995	9	-	-
482	Columbia Basin	20	-	7.860%	2030	1995	9	-	-
483	Columbia Basin	270	-	7.860%	2030	1995	9	-	-
484	Columbia Basin	321	-	7.860%	2030	1995	9	-	-
485	Columbia Basin	323	-	7.860%	2030	1995	9	-	-
486	Columbia Basin	287	287	7.150%	2045	1995	9	-	-
487	Columbia Basin	2,511	2,453	7.150%	2045	1995	9	-	-
488	Columbia Basin	450	-	7.860%	2045	1995	9	-	-
489	Columbia Basin	450	-	7.860%	2045	1995	9	-	-
490	Columbia Basin	72	72	7.150%	2026	1996	9	-	-
491	Columbia Basin	109	109	7.150%	2031	1996	9	-	-
492	Columbia Basin	251	251	7.150%	2031	1996	9	-	-
493	Columbia Basin	426	426	7.150%	2046	1996	9	-	-
494	Columbia Basin	368	368	7.150%	2046	1996	9	-	-
495	Columbia Basin	3,393	3,393	7.150%	2047	1997	9	-	-
496	Columbia Basin	69,226	69,226	5.875%	2051	2001	9	-	-
497	Columbia Basin	10,963	10,963	5.125%	2055	2005	9	-	-
498	Columbia Basin	1,987	1,987	4.500%	2056	2006	9	-	-
499	Columbia Basin	929	929	5.000%	2057	2007	9	-	-
500	Columbia Basin	835	835	4.875%	2058	2008	9	-	-
501	Columbia Basin	1,338	1,338	4.375%	2059	2009	9	-	-
502	Columbia Basin	877	877	4.250%	2060	2010	9	-	-
503	Columbia Basin	1,723	1,723	3.750%	2061	2011	9	-	-
504	Columbia Basin 3rd Powerhouse	47,328	36,690	7.160%	2025	1975	9	-	-
505	Columbia Basin 3rd Powerhouse	8,702	7,435	7.160%	2025	1975	9	-	-
506	Columbia Basin 3rd Powerhouse	41,330	41,330	7.150%	2026	1976	9	-	-
507	Columbia Basin 3rd Powerhouse	8,037	8,037	7.150%	2026	1976	9	-	-
508	Columbia Basin 3rd Powerhouse	42,764	42,764	7.150%	2027	1977	9	-	-
509	Columbia Basin 3rd Powerhouse	7,964	7,964	7.150%	2027	1977	9	-	-
510	Columbia Basin 3rd Powerhouse	42,399	42,399	7.150%	2028	1978	9	-	-
511	Columbia Basin 3rd Powerhouse	7,896	7,896	7.150%	2028	1978	9	-	-
512	Columbia Basin 3rd Powerhouse	84,118	84,118	7.150%	2029	1979	9	-	-
513	Columbia Basin 3rd Powerhouse	15,666	15,666	7.150%	2029	1979	9	-	-
514	Columbia Basin 3rd Powerhouse	712	712	7.150%	2033	1983	9	-	-
515	Columbia Basin 3rd Powerhouse	13,003	13,003	7.150%	2033	1983	9	-	-
516	Columbia Basin 3rd Powerhouse	16,965	16,965	7.150%	2033	1984	9	-	-
517	Columbia Basin 3rd Powerhouse	13,192	13,192	7.150%	2033	1984	9	-	-
518	Columbia Basin 3rd Powerhouse	3,160	3,160	7.150%	2033	1984	9	-	-
519	Columbia Basin 3rd Powerhouse	2,060	2,060	7.150%	2033	1985	9	-	-
520	Columbia Basin 3rd Powerhouse	41,772	41,772	7.150%	2033	1985	9	-	-
521	Columbia Basin 3rd Powerhouse	107	107	7.150%	2033	1985	9	-	-
522	Columbia Basin 3rd Powerhouse	1,851	1,851	7.150%	2033	1986	9	-	-
523	Columbia Basin 3rd Powerhouse	15,538	15,538	7.150%	2033	1986	9	-	-
524	Columbia Basin 3rd Powerhouse	1,730	1,730	7.150%	2033	1987	9	-	-
525	Columbia Basin 3rd Powerhouse	14,439	14,439	7.150%	2033	1987	9	-	-

**TABLE 11A: HISTORICAL INVESTMENTS**  
**October 1, 2013 - September 30, 2015 Cost Evaluation period**  
**(\$000s) (FY 2014)**

	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
526	Columbia Basin 3rd Powerhouse	2,294	2,294	7.150%	2033	1988	9	-	-
527	Columbia Basin 3rd Powerhouse	4,351	4,351	7.150%	2033	1988	9	-	-
528	Columbia Basin 3rd Powerhouse	10,902	10,902	7.150%	2033	1989	9	-	-
529	Columbia Basin 3rd Powerhouse	6,383	6,383	7.150%	2033	1990	9	-	-
530	Columbia Basin 3rd Powerhouse	12,631	12,631	7.150%	2044	1994	9	-	-
531	Columbia River Fish Mitigation	3,969	-	8.500%	2041	1991	9	-	-
532	Columbia River Fish Mitigation	874	-	8.500%	2042	1992	9	-	-
533	Columbia River Fish Mitigation	85,846	-	8.500%	2043	1993	9	-	-
534	Columbia River Fish Mitigation	39,454	-	8.500%	2044	1994	9	-	-
535	Columbia River Fish Mitigation	43,343	39,282	7.150%	2045	1995	9	-	-
536	Columbia River Fish Mitigation	2,431	2,431	7.150%	2046	1996	9	-	-
537	Columbia River Fish Mitigation	14,115	14,115	5.375%	2049	1999	9	-	-
538	Columbia River Fish Mitigation	47,006	47,006	6.125%	2050	2000	9	-	-
539	Columbia River Fish Mitigation	6,168	6,168	5.875%	2051	2001	9	-	-
540	Columbia River Fish Mitigation	8,797	8,797	5.500%	2052	2002	9	-	-
541	Columbia River Fish Mitigation	68,440	68,440	5.125%	2053	2003	9	-	-
542	Columbia River Fish Mitigation	60,581	60,581	5.375%	2054	2004	9	-	-
543	Columbia River Fish Mitigation	52,039	52,039	5.125%	2055	2005	9	-	-
544	Columbia River Fish Mitigation	366,395	366,395	4.500%	2056	2006	9	-	-
545	Columbia River Fish Mitigation	53,525	53,525	5.000%	2057	2007	9	-	-
546	Columbia River Fish Mitigation	36,554	36,554	4.875%	2058	2008	9	-	-
547	Columbia River Fish Mitigation	103,203	103,203	4.375%	2059	2009	9	-	-
548	Columbia River Fish Mitigation	56,832	56,832	4.250%	2060	2010	9	-	-
549	Columbia River Fish Mitigation	106,014	106,014	3.750%	2061	2011	9	-	-
550	Columbia River Fish Mitigation	102,794	102,794	3.375%	2062	2012	9	-	-
551	Cougar	10,414	-	7.230%	2014	1964	9	-	-
552	Cougar	20	-	7.230%	2014	1965	9	-	-
553	Cougar	20	-	7.230%	2014	1966	9	-	-
554	Cougar	20	-	7.230%	2014	1967	9	-	-
555	Cougar	20	-	7.230%	2014	1968	9	-	-
556	Cougar	20	-	7.230%	2014	1969	9	-	-
557	Cougar	20	-	7.230%	2014	1970	9	-	-
558	Cougar	20	-	7.230%	2014	1971	9	-	-
559	Cougar	20	-	7.230%	2014	1972	9	-	-
560	Cougar	20	-	7.230%	2014	1973	9	-	-
561	Cougar	19	-	7.230%	2014	1974	9	-	-
562	Cougar	20	-	7.230%	2014	1975	9	-	-
563	Cougar	20	-	7.230%	2014	1976	9	-	-
564	Cougar	20	-	7.230%	2014	1977	9	-	-
565	Cougar	20	-	7.230%	2014	1978	9	-	-
566	Cougar	20	-	7.230%	2014	1979	9	-	-
567	Cougar	20	-	7.230%	2014	1980	9	-	-
568	Cougar	20	-	7.230%	2014	1981	9	-	-
569	Cougar	20	-	7.230%	2014	1982	9	-	-
570	Cougar	20	-	7.230%	2014	1983	9	-	-
571	Cougar	1	-	10.750%	2014	1984	9	-	-
572	Cougar	1	-	7.230%	2014	1985	9	-	-
573	Cougar	104	-	7.230%	2014	1986	9	-	-
574	Cougar	55	-	11.375%	2014	1986	9	-	-
575	Cougar	45	-	7.230%	2014	1987	9	-	-
576	Cougar	2	-	8.500%	2014	1988	9	-	-
577	Cougar	6	-	9.250%	2014	1989	9	-	-
578	Cougar	10	-	8.875%	2014	1990	9	-	-
579	Cougar	1,015	-	8.750%	2014	1991	9	-	-
580	Cougar	1	-	8.750%	2014	1991	9	-	-
581	Cougar	2	-	8.500%	2014	1992	9	-	-
582	Cougar	539	-	7.875%	2014	1993	9	-	-
583	Cougar	31	-	7.125%	2019	1994	9	-	-
584	Cougar	3	-	7.330%	2000	1995	9	-	-
585	Cougar	26	26	7.150%	2047	1997	9	-	-
586	Cougar	3,622	3,622	5.375%	2054	2004	9	-	-
587	Cougar	8,130	8,130	5.125%	2055	2005	9	-	-
588	Cougar	109	109	4.500%	2056	2006	9	-	-
589	Cougar	120	120	5.000%	2057	2007	9	-	-
590	Cougar	121	121	4.375%	2059	2009	9	-	-
591	Cougar	59	59	4.250%	2060	2010	9	-	-
592	Cougar	282	282	3.750%	2061	2011	9	-	-
593	Cougar	170	170	3.375%	2062	2012	9	-	-
594	Detroit Lake/Big Cliff	12,533	-	6.840%	2003	1953	9	-	-
595	Detroit Lake/Big Cliff	20,162	-	6.880%	2004	1954	9	-	-
596	Detroit Lake/Big Cliff	18	-	6.880%	2004	1955	9	-	-
597	Detroit Lake/Big Cliff	19	-	6.880%	2004	1956	9	-	-
598	Detroit Lake/Big Cliff	18	-	6.880%	2004	1957	9	-	-
599	Detroit Lake/Big Cliff	19	-	6.880%	2004	1958	9	-	-
600	Detroit Lake/Big Cliff	18	-	6.880%	2004	1959	9	-	-

**TABLE 11A: HISTORICAL INVESTMENTS**  
**October 1, 2013 - September 30, 2015 Cost Evaluation period**  
**(\$000s) (FY 2014)**

	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
601	Detroit Lake/Big Cliff	19	-	6.880%	2004	1960	9	-	-
602	Detroit Lake/Big Cliff	18	-	6.880%	2004	1961	9	-	-
603	Detroit Lake/Big Cliff	19	-	6.880%	2004	1962	9	-	-
604	Detroit Lake/Big Cliff	18	-	6.880%	2004	1963	9	-	-
605	Detroit Lake/Big Cliff	19	-	6.880%	2004	1964	9	-	-
606	Detroit Lake/Big Cliff	18	-	6.880%	2004	1965	9	-	-
607	Detroit Lake/Big Cliff	19	-	6.880%	2004	1966	9	-	-
608	Detroit Lake/Big Cliff	18	-	6.880%	2004	1967	9	-	-
609	Detroit Lake/Big Cliff	19	-	6.880%	2004	1968	9	-	-
610	Detroit Lake/Big Cliff	18	-	6.880%	2004	1969	9	-	-
611	Detroit Lake/Big Cliff	19	-	6.880%	2004	1970	9	-	-
612	Detroit Lake/Big Cliff	18	-	6.880%	2004	1971	9	-	-
613	Detroit Lake/Big Cliff	19	-	6.880%	2004	1972	9	-	-
614	Detroit Lake/Big Cliff	18	-	6.880%	2004	1973	9	-	-
615	Detroit Lake/Big Cliff	19	-	6.880%	2004	1974	9	-	-
616	Detroit Lake/Big Cliff	18	-	6.880%	2004	1975	9	-	-
617	Detroit Lake/Big Cliff	19	-	6.880%	2004	1976	9	-	-
618	Detroit Lake/Big Cliff	18	-	6.880%	2004	1977	9	-	-
619	Detroit Lake/Big Cliff	19	-	6.880%	2004	1978	9	-	-
620	Detroit Lake/Big Cliff	18	-	6.880%	2004	1979	9	-	-
621	Detroit Lake/Big Cliff	19	-	6.880%	2004	1980	9	-	-
622	Detroit Lake/Big Cliff	18	-	6.880%	2004	1981	9	-	-
623	Detroit Lake/Big Cliff	19	-	6.880%	2004	1982	9	-	-
624	Detroit Lake/Big Cliff	18	-	6.880%	2004	1983	9	-	-
625	Detroit Lake/Big Cliff	21	-	10.750%	2004	1984	9	-	-
626	Detroit Lake/Big Cliff	6	-	6.880%	2004	1985	9	-	-
627	Detroit Lake/Big Cliff	38	-	11.375%	2004	1986	9	-	-
628	Detroit Lake/Big Cliff	3	-	6.880%	2004	1987	9	-	-
629	Detroit Lake/Big Cliff	233	-	8.875%	2004	1987	9	-	-
630	Detroit Lake/Big Cliff	68	-	8.500%	2004	1988	9	-	-
631	Detroit Lake/Big Cliff	26	-	9.250%	2004	1989	9	-	-
632	Detroit Lake/Big Cliff	115	-	8.875%	2004	1990	9	-	-
633	Detroit Lake/Big Cliff	9	-	8.750%	2004	1991	9	-	-
634	Detroit Lake/Big Cliff	20	-	8.750%	2004	1991	9	-	-
635	Detroit Lake/Big Cliff	8	-	8.500%	2004	1992	9	-	-
636	Detroit Lake/Big Cliff	211	-	7.875%	2004	1993	9	-	-
637	Detroit Lake/Big Cliff	7	-	7.125%	1999	1994	9	-	-
638	Detroit Lake/Big Cliff	13	-	7.330%	2000	1995	9	-	-
639	Detroit Lake/Big Cliff	38	38	7.150%	2045	1995	9	-	-
640	Detroit Lake/Big Cliff	24	-	6.950%	2006	1996	9	-	-
641	Detroit Lake/Big Cliff	282	282	5.875%	2051	2001	9	-	-
642	Detroit Lake/Big Cliff	18	18	5.500%	2052	2002	9	-	-
643	Detroit Lake/Big Cliff	223	223	5.125%	2053	2003	9	-	-
644	Detroit Lake/Big Cliff	1,031	1,031	5.125%	2055	2005	9	-	-
645	Dworshak	138,443	76,000	7.190%	2014	1973	9	-	-
646	Dworshak	138,443	15,942	7.190%	2023	1973	9	-	-
647	Dworshak	836	-	7.190%	2023	1973	9	-	-
648	Dworshak	515	-	7.190%	2023	1974	9	-	-
649	Dworshak	3	-	7.190%	2023	1974	9	-	-
650	Dworshak	518	-	7.190%	2023	1975	9	-	-
651	Dworshak	3	-	7.190%	2023	1975	9	-	-
652	Dworshak	518	-	7.190%	2023	1976	9	-	-
653	Dworshak	3	-	7.190%	2023	1976	9	-	-
654	Dworshak	518	-	7.190%	2023	1977	9	-	-
655	Dworshak	3	-	7.190%	2023	1977	9	-	-
656	Dworshak	518	-	7.190%	2023	1978	9	-	-
657	Dworshak	3	-	7.190%	2023	1978	9	-	-
658	Dworshak	518	-	7.190%	2023	1979	9	-	-
659	Dworshak	3	-	7.190%	2023	1979	9	-	-
660	Dworshak	518	-	7.190%	2023	1980	9	-	-
661	Dworshak	3	-	7.190%	2023	1980	9	-	-
662	Dworshak	518	-	7.190%	2023	1981	9	-	-
663	Dworshak	3	-	7.190%	2023	1981	9	-	-
664	Dworshak	518	-	7.190%	2023	1982	9	-	-
665	Dworshak	3	-	7.190%	2023	1982	9	-	-
666	Dworshak	523	-	7.190%	2023	1983	9	-	-
667	Dworshak	3	-	7.190%	2023	1983	9	-	-
668	Dworshak	2,499	-	10.750%	2023	1984	9	-	-
669	Dworshak	15	-	10.750%	2023	1984	9	-	-
670	Dworshak	1,141	-	7.190%	2023	1985	9	-	-
671	Dworshak	197	-	7.190%	2023	1986	9	-	-
672	Dworshak	36	-	7.190%	2023	1987	9	-	-
673	Dworshak	65	-	8.875%	2023	1987	9	-	-
674	Dworshak	61	-	8.500%	2023	1988	9	-	-
675	Dworshak	63	-	9.250%	2023	1989	9	-	-

**TABLE 11A: HISTORICAL INVESTMENTS**  
**October 1, 2013 - September 30, 2015 Cost Evaluation period**  
**(\$000s) (FY 2014)**

	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
676	Dworshak	245	-	8.875%	2023	1990	9	-	-
677	Dworshak	24	-	8.875%	2023	1990	9	-	-
678	Dworshak	224	-	8.750%	2023	1991	9	-	-
679	Dworshak	4	-	2.625%	2023	1992	9	-	-
680	Dworshak	28	-	8.500%	2023	1992	9	-	-
681	Dworshak	24	-	8.500%	2023	1992	9	-	-
682	Dworshak	41	-	7.875%	2023	1993	9	-	-
683	Dworshak	1,872	-	7.875%	2023	1993	9	-	-
684	Dworshak	1,351	-	7.125%	2029	1994	9	-	-
685	Dworshak	964	-	7.125%	2029	1994	9	-	-
686	Dworshak	55	-	7.930%	2020	1995	9	-	-
687	Dworshak	218	218	7.150%	2030	1995	9	-	-
688	Dworshak	1,162	1,162	7.150%	2045	1995	9	-	-
689	Dworshak	107	-	7.130%	2011	1996	9	-	-
690	Dworshak	26	-	7.230%	2021	1996	9	-	-
691	Dworshak	184	-	7.230%	2021	1996	9	-	-
692	Dworshak	6	6	7.150%	2031	1996	9	-	-
693	Dworshak	203	203	7.150%	2031	1996	9	-	-
694	Dworshak	3	3	7.150%	2046	1996	9	-	-
695	Dworshak	4	4	7.150%	2046	1996	9	-	-
696	Dworshak	46	46	7.150%	2046	1996	9	-	-
697	Dworshak	7,588	7,588	7.150%	2047	1997	9	-	-
698	Dworshak	630	630	5.375%	2049	1999	9	-	-
699	Dworshak	199	199	5.500%	2052	2002	9	-	-
700	Dworshak	761	761	5.125%	2053	2003	9	-	-
701	Dworshak	713	713	5.125%	2055	2005	9	-	-
702	Dworshak	73	73	4.500%	2056	2006	9	-	-
703	Dworshak	10	10	4.875%	2058	2008	9	-	-
704	Dworshak	2,480	2,480	4.375%	2059	2009	9	-	-
705	Green Peter/Foster	24,445	-	7.290%	2017	1967	9	-	-
706	Green Peter/Foster	12,180	-	7.280%	2018	1968	9	-	-
707	Green Peter/Foster	39	-	7.280%	2018	1969	9	-	-
708	Green Peter/Foster	40	-	7.280%	2018	1970	9	-	-
709	Green Peter/Foster	39	-	7.280%	2018	1971	9	-	-
710	Green Peter/Foster	39	-	7.280%	2018	1972	9	-	-
711	Green Peter/Foster	39	-	7.280%	2018	1973	9	-	-
712	Green Peter/Foster	39	-	7.280%	2018	1974	9	-	-
713	Green Peter/Foster	39	-	7.280%	2018	1975	9	-	-
714	Green Peter/Foster	39	-	7.280%	2018	1976	9	-	-
715	Green Peter/Foster	39	-	7.280%	2018	1977	9	-	-
716	Green Peter/Foster	39	-	7.280%	2018	1978	9	-	-
717	Green Peter/Foster	39	-	7.280%	2018	1979	9	-	-
718	Green Peter/Foster	40	-	7.280%	2018	1980	9	-	-
719	Green Peter/Foster	39	-	7.280%	2018	1981	9	-	-
720	Green Peter/Foster	39	-	7.280%	2018	1982	9	-	-
721	Green Peter/Foster	39	-	7.280%	2018	1983	9	-	-
722	Green Peter/Foster	15	-	10.750%	2018	1984	9	-	-
723	Green Peter/Foster	16	-	7.280%	2018	1985	9	-	-
724	Green Peter/Foster	3	-	7.280%	2018	1986	9	-	-
725	Green Peter/Foster	3	-	11.375%	2018	1986	9	-	-
726	Green Peter/Foster	1	-	7.280%	2018	1987	9	-	-
727	Green Peter/Foster	2	-	8.875%	2018	1987	9	-	-
728	Green Peter/Foster	13	-	8.500%	2018	1988	9	-	-
729	Green Peter/Foster	24	-	9.250%	2018	1989	9	-	-
730	Green Peter/Foster	5	-	8.875%	2018	1990	9	-	-
731	Green Peter/Foster	48	-	8.750%	2018	1991	9	-	-
732	Green Peter/Foster	2	-	8.500%	2018	1992	9	-	-
733	Green Peter/Foster	41	-	7.875%	2018	1993	9	-	-
734	Green Peter/Foster	6	-	7.125%	1999	1994	9	-	-
735	Green Peter/Foster	4	-	7.330%	2000	1995	9	-	-
736	Green Peter/Foster	11	-	7.250%	2020	1995	9	-	-
737	Green Peter/Foster	24	-	7.250%	2020	1995	9	-	-
738	Green Peter/Foster	26	26	7.150%	2046	1996	9	-	-
739	Green Peter/Foster	200	200	5.875%	2051	2001	9	-	-
740	Green Peter/Foster	87	87	3.750%	2061	2011	9	-	-
741	Green Peter/Foster	44	44	3.375%	2062	2012	9	-	-
742	Hills Creek	10,353	-	7.160%	2012	1962	9	-	-
743	Hills Creek	12	-	7.160%	2012	1963	9	-	-
744	Hills Creek	13	-	7.160%	2012	1964	9	-	-
745	Hills Creek	13	-	7.160%	2012	1965	9	-	-
746	Hills Creek	13	-	7.160%	2012	1966	9	-	-
747	Hills Creek	13	-	7.160%	2012	1967	9	-	-
748	Hills Creek	13	-	7.160%	2012	1968	9	-	-
749	Hills Creek	13	-	7.160%	2012	1969	9	-	-
750	Hills Creek	13	-	7.160%	2012	1970	9	-	-

**TABLE 11A: HISTORICAL INVESTMENTS**  
**October 1, 2013 - September 30, 2015 Cost Evaluation period**  
**(\$000s) (FY 2014)**

	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
751	Hills Creek	13	-	7.160%	2012	1971	9	-	-
752	Hills Creek	13	-	7.160%	2012	1972	9	-	-
753	Hills Creek	13	-	7.160%	2012	1973	9	-	-
754	Hills Creek	13	-	7.160%	2012	1974	9	-	-
755	Hills Creek	13	-	7.160%	2012	1975	9	-	-
756	Hills Creek	13	-	7.160%	2012	1976	9	-	-
757	Hills Creek	13	-	7.160%	2012	1977	9	-	-
758	Hills Creek	13	-	7.160%	2012	1978	9	-	-
759	Hills Creek	13	-	7.160%	2012	1979	9	-	-
760	Hills Creek	13	-	7.160%	2012	1980	9	-	-
761	Hills Creek	13	-	7.160%	2012	1981	9	-	-
762	Hills Creek	13	-	7.160%	2012	1982	9	-	-
763	Hills Creek	13	-	7.160%	2012	1983	9	-	-
764	Hills Creek	52	-	10.750%	2012	1984	9	-	-
765	Hills Creek	6	-	7.160%	2012	1985	9	-	-
766	Hills Creek	3	-	8.875%	2012	1987	9	-	-
767	Hills Creek	3	-	8.500%	2012	1988	9	-	-
768	Hills Creek	3	-	8.875%	2012	1990	9	-	-
769	Hills Creek	17	-	8.750%	2012	1991	9	-	-
770	Hills Creek	1	-	8.500%	2012	1992	9	-	-
771	Hills Creek	13	-	7.875%	2012	1993	9	-	-
772	Hills Creek	28	28	7.150%	2046	1996	9	-	-
773	Hills Creek	2,630	2,630	6.125%	2050	2000	9	-	-
774	Hills Creek	8	8	5.875%	2051	2001	9	-	-
775	Hills Creek	2	2	5.500%	2052	2002	9	-	-
776	Hills Creek	46	46	5.125%	2055	2005	9	-	-
777	Hills Creek	12	12	3.750%	2061	2011	9	-	-
778	Hills Creek	142	142	3.375%	2062	2012	9	-	-
779	Hungry Horse Dam	75,076	-	6.840%	2003	1953	9	-	-
780	Hungry Horse Dam	2,126	-	6.840%	2003	1953	9	-	-
781	Hungry Horse Dam	17	-	6.840%	2003	1954	9	-	-
782	Hungry Horse Dam	1	-	6.840%	2003	1954	9	-	-
783	Hungry Horse Dam	17	-	6.840%	2003	1955	9	-	-
784	Hungry Horse Dam	1	-	6.840%	2003	1955	9	-	-
785	Hungry Horse Dam	17	-	6.840%	2003	1956	9	-	-
786	Hungry Horse Dam	1	-	6.840%	2003	1956	9	-	-
787	Hungry Horse Dam	18	-	6.840%	2003	1957	9	-	-
788	Hungry Horse Dam	1	-	6.840%	2003	1957	9	-	-
789	Hungry Horse Dam	18	-	6.840%	2003	1958	9	-	-
790	Hungry Horse Dam	1	-	6.840%	2003	1958	9	-	-
791	Hungry Horse Dam	18	-	6.840%	2003	1959	9	-	-
792	Hungry Horse Dam	1	-	6.840%	2003	1959	9	-	-
793	Hungry Horse Dam	18	-	6.840%	2003	1960	9	-	-
794	Hungry Horse Dam	1	-	6.840%	2003	1960	9	-	-
795	Hungry Horse Dam	18	-	6.840%	2003	1961	9	-	-
796	Hungry Horse Dam	1	-	6.840%	2003	1961	9	-	-
797	Hungry Horse Dam	18	-	6.840%	2003	1962	9	-	-
798	Hungry Horse Dam	1	-	6.840%	2003	1962	9	-	-
799	Hungry Horse Dam	18	-	6.840%	2003	1963	9	-	-
800	Hungry Horse Dam	1	-	6.840%	2003	1963	9	-	-
801	Hungry Horse Dam	17	-	6.840%	2003	1964	9	-	-
802	Hungry Horse Dam	1	-	6.840%	2003	1964	9	-	-
803	Hungry Horse Dam	17	-	6.840%	2003	1965	9	-	-
804	Hungry Horse Dam	1	-	6.840%	2003	1965	9	-	-
805	Hungry Horse Dam	17	-	6.840%	2003	1966	9	-	-
806	Hungry Horse Dam	1	-	6.840%	2003	1966	9	-	-
807	Hungry Horse Dam	18	-	6.840%	2003	1967	9	-	-
808	Hungry Horse Dam	1	-	6.840%	2003	1967	9	-	-
809	Hungry Horse Dam	18	-	6.840%	2003	1968	9	-	-
810	Hungry Horse Dam	1	-	6.840%	2003	1968	9	-	-
811	Hungry Horse Dam	18	-	6.840%	2003	1969	9	-	-
812	Hungry Horse Dam	1	-	6.840%	2003	1969	9	-	-
813	Hungry Horse Dam	18	-	6.840%	2003	1970	9	-	-
814	Hungry Horse Dam	1	-	6.840%	2003	1970	9	-	-
815	Hungry Horse Dam	18	-	6.840%	2003	1971	9	-	-
816	Hungry Horse Dam	1	-	6.840%	2003	1971	9	-	-
817	Hungry Horse Dam	18	-	6.840%	2003	1972	9	-	-
818	Hungry Horse Dam	1	-	6.840%	2003	1972	9	-	-
819	Hungry Horse Dam	18	-	6.840%	2003	1973	9	-	-
820	Hungry Horse Dam	1	-	6.840%	2003	1973	9	-	-
821	Hungry Horse Dam	17	-	6.840%	2003	1974	9	-	-
822	Hungry Horse Dam	1	-	6.840%	2003	1974	9	-	-
823	Hungry Horse Dam	17	-	6.840%	2003	1975	9	-	-
824	Hungry Horse Dam	1	-	6.840%	2003	1975	9	-	-
825	Hungry Horse Dam	10	-	6.840%	2003	1976	9	-	-

**TABLE 11A: HISTORICAL INVESTMENTS**  
**October 1, 2013 - September 30, 2015 Cost Evaluation period**  
**(\$000s) (FY 2014)**

	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
826	Hungry Horse Dam	1	-	6.840%	2003	1976	9	-	-
827	Hungry Horse Dam	18	-	6.840%	2003	1977	9	-	-
828	Hungry Horse Dam	1	-	6.840%	2003	1977	9	-	-
829	Hungry Horse Dam	18	-	6.840%	2003	1978	9	-	-
830	Hungry Horse Dam	1	-	6.840%	2003	1978	9	-	-
831	Hungry Horse Dam	18	-	6.840%	2003	1979	9	-	-
832	Hungry Horse Dam	1	-	6.840%	2003	1979	9	-	-
833	Hungry Horse Dam	18	-	6.840%	2003	1980	9	-	-
834	Hungry Horse Dam	1	-	6.840%	2003	1980	9	-	-
835	Hungry Horse Dam	22	-	6.840%	2003	1981	9	-	-
836	Hungry Horse Dam	1	-	6.840%	2003	1981	9	-	-
837	Hungry Horse Dam	1	-	6.840%	2003	1982	9	-	-
838	Hungry Horse Dam	12	-	6.840%	2003	1983	9	-	-
839	Hungry Horse Dam	1	-	6.840%	2003	1983	9	-	-
840	Hungry Horse Dam	32	-	10.750%	2003	1984	9	-	-
841	Hungry Horse Dam	1	-	10.750%	2003	1984	9	-	-
842	Hungry Horse Dam	36	-	12.375%	2003	1985	9	-	-
843	Hungry Horse Dam	37	-	12.375%	2003	1985	9	-	-
844	Hungry Horse Dam	101	-	9.250%	2003	1989	9	-	-
845	Hungry Horse Dam	58	-	8.875%	2003	1990	9	-	-
846	Hungry Horse Dam	19	-	8.750%	2003	1991	9	-	-
847	Hungry Horse Dam	9	-	8.500%	2003	1992	9	-	-
848	Hungry Horse Dam	4,136	-	7.875%	2003	1993	9	-	-
849	Hungry Horse Dam	2	-	7.875%	2003	1993	9	-	-
850	Hungry Horse Dam	56	-	7.125%	2019	1994	9	-	-
851	Hungry Horse Dam	156	-	6.620%	2000	1995	9	-	-
852	Hungry Horse Dam	84	-	6.620%	2000	1995	9	-	-
853	Hungry Horse Dam	450	-	7.930%	2020	1995	9	-	-
854	Hungry Horse Dam	536	536	7.150%	2030	1995	9	-	-
855	Hungry Horse Dam	1,198	1,195	7.150%	2030	1995	9	-	-
856	Hungry Horse Dam	6,190	6,190	7.150%	2045	1995	9	-	-
857	Hungry Horse Dam	14,354	-	7.860%	2045	1995	9	-	-
858	Hungry Horse Dam	15	15	7.150%	2046	1996	9	-	-
859	Hungry Horse Dam	2	2	7.150%	2046	1996	9	-	-
860	Hungry Horse Dam	154	-	6.950%	2007	1997	9	-	-
861	Hungry Horse Dam	111	111	7.150%	2047	1997	9	-	-
862	Hungry Horse Dam	552	552	5.875%	2051	2001	9	-	-
863	Hungry Horse Dam	2,951	2,951	5.125%	2055	2005	9	-	-
864	Hungry Horse Dam	294	294	5.000%	2057	2007	9	-	-
865	Hungry Horse Dam	76	76	4.875%	2058	2008	9	-	-
866	Hungry Horse Dam	60	60	4.375%	2059	2009	9	-	-
867	Hungry Horse Dam	779	779	4.250%	2060	2010	9	-	-
868	Hungry Horse Dam	503	503	3.750%	2061	2011	9	-	-
869	Hungry Horse Dam	3	3	3.375%	2062	2012	9	-	-
870	Ice Harbor	664	-	7.160%	2012	1962	9	-	-
871	Ice Harbor	59,699	-	7.160%	2012	1962	9	-	-
872	Ice Harbor	46	-	7.160%	2012	1963	9	-	-
873	Ice Harbor	1	-	7.160%	2012	1963	9	-	-
874	Ice Harbor	46	-	7.160%	2012	1964	9	-	-
875	Ice Harbor	1	-	7.160%	2012	1964	9	-	-
876	Ice Harbor	46	-	7.160%	2012	1965	9	-	-
877	Ice Harbor	1	-	7.160%	2012	1965	9	-	-
878	Ice Harbor	46	-	7.160%	2012	1966	9	-	-
879	Ice Harbor	1	-	7.160%	2012	1966	9	-	-
880	Ice Harbor	46	-	7.160%	2012	1967	9	-	-
881	Ice Harbor	1	-	7.160%	2012	1967	9	-	-
882	Ice Harbor	46	-	7.160%	2012	1968	9	-	-
883	Ice Harbor	1	-	7.160%	2012	1968	9	-	-
884	Ice Harbor	46	-	7.160%	2012	1969	9	-	-
885	Ice Harbor	1	-	7.160%	2012	1969	9	-	-
886	Ice Harbor	46	-	7.160%	2012	1970	9	-	-
887	Ice Harbor	1	-	7.160%	2012	1970	9	-	-
888	Ice Harbor	46	-	7.160%	2012	1971	9	-	-
889	Ice Harbor	1	-	7.160%	2012	1971	9	-	-
890	Ice Harbor	46	-	7.160%	2012	1972	9	-	-
891	Ice Harbor	1	-	7.160%	2012	1972	9	-	-
892	Ice Harbor	46	-	7.160%	2012	1973	9	-	-
893	Ice Harbor	1	-	7.160%	2012	1973	9	-	-
894	Ice Harbor	46	-	7.160%	2012	1974	9	-	-
895	Ice Harbor	1	-	7.160%	2012	1974	9	-	-
896	Ice Harbor	46	-	7.160%	2012	1975	9	-	-
897	Ice Harbor	1	-	7.160%	2012	1975	9	-	-
898	Ice Harbor	46	-	7.160%	2012	1976	9	-	-
899	Ice Harbor	1	-	7.160%	2012	1976	9	-	-
900	Ice Harbor	20,472	20,472	7.150%	2026	1976	9	-	-

**TABLE 11A: HISTORICAL INVESTMENTS**  
**October 1, 2013 - September 30, 2015 Cost Evaluation period**  
**(\$000s) (FY 2014)**

	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
901	Ice Harbor	228	228	7.150%	2026	1976	9	-	-
902	Ice Harbor	46	-	7.160%	2012	1977	9	-	-
903	Ice Harbor	1	-	7.160%	2012	1977	9	-	-
904	Ice Harbor	46	-	7.160%	2012	1978	9	-	-
905	Ice Harbor	1	-	7.160%	2012	1978	9	-	-
906	Ice Harbor	46	-	7.160%	2012	1979	9	-	-
907	Ice Harbor	1	-	7.160%	2012	1979	9	-	-
908	Ice Harbor	46	-	7.160%	2012	1980	9	-	-
909	Ice Harbor	1	-	7.160%	2012	1980	9	-	-
910	Ice Harbor	46	-	7.160%	2012	1981	9	-	-
911	Ice Harbor	1	-	7.160%	2012	1981	9	-	-
912	Ice Harbor	46	-	7.160%	2012	1982	9	-	-
913	Ice Harbor	1	-	7.160%	2012	1982	9	-	-
914	Ice Harbor	46	-	7.160%	2012	1983	9	-	-
915	Ice Harbor	1	-	7.160%	2012	1983	9	-	-
916	Ice Harbor	41	-	7.160%	2012	1985	9	-	-
917	Ice Harbor	21	21	7.150%	2026	1985	9	-	-
918	Ice Harbor	137	-	7.160%	2012	1986	9	-	-
919	Ice Harbor	3	-	7.160%	2012	1987	9	-	-
920	Ice Harbor	71	-	8.875%	2012	1987	9	-	-
921	Ice Harbor	1	-	8.875%	2012	1987	9	-	-
922	Ice Harbor	8	-	8.500%	2012	1988	9	-	-
923	Ice Harbor	57	-	8.500%	2012	1988	9	-	-
924	Ice Harbor	51	-	9.250%	2012	1989	9	-	-
925	Ice Harbor	427	-	8.875%	2012	1990	9	-	-
926	Ice Harbor	348	-	8.750%	2012	1991	9	-	-
927	Ice Harbor	177	-	8.500%	2012	1992	9	-	-
928	Ice Harbor	3,192	-	7.875%	2012	1993	9	-	-
929	Ice Harbor	1,645	-	7.875%	2012	1993	9	-	-
930	Ice Harbor	328	-	7.125%	2029	1994	9	-	-
931	Ice Harbor	520	-	7.125%	2029	1994	9	-	-
932	Ice Harbor	2	-	7.330%	2000	1995	9	-	-
933	Ice Harbor	84	-	7.270%	2019	1995	9	-	-
934	Ice Harbor	171	-	7.270%	2019	1995	9	-	-
935	Ice Harbor	849	-	7.270%	2019	1995	9	-	-
936	Ice Harbor	78	78	7.150%	2031	1996	9	-	-
937	Ice Harbor	371	371	7.150%	2041	1996	9	-	-
938	Ice Harbor	66	-	7.230%	2022	1997	9	-	-
939	Ice Harbor	67	67	7.150%	2047	1997	9	-	-
940	Ice Harbor	5,516	5,516	5.375%	2049	1999	9	-	-
941	Ice Harbor	548	548	6.125%	2050	2000	9	-	-
942	Ice Harbor	764	764	5.875%	2051	2001	9	-	-
943	Ice Harbor	1,014	1,014	5.500%	2052	2002	9	-	-
944	Ice Harbor	50	50	5.125%	2053	2003	9	-	-
945	Ice Harbor	3,321	3,321	5.375%	2054	2004	9	-	-
946	Ice Harbor	14	14	4.875%	2058	2008	9	-	-
947	Ice Harbor	2,615	2,615	4.375%	2059	2009	9	-	-
948	Ice Harbor	207	207	4.250%	2060	2010	9	-	-
949	Ice Harbor	819	819	3.750%	2061	2011	9	-	-
950	Ice Harbor	115	115	3.375%	2062	2012	9	-	-
951	John Day	27,254	-	7.280%	2018	1968	9	-	-
952	John Day	96,104	-	7.270%	2019	1969	9	-	-
953	John Day	23,656	-	7.250%	2020	1970	9	-	-
954	John Day	34,974	-	7.230%	2021	1971	9	-	-
955	John Day	11,502	-	7.210%	2022	1972	9	-	-
956	John Day	3,677	-	10.750%	2022	1984	9	-	-
957	John Day	6,490	-	7.210%	2022	1985	9	-	-
958	John Day	1,209	-	12.375%	2022	1985	9	-	-
959	John Day	3,227	-	7.210%	2022	1986	9	-	-
960	John Day	713	-	11.375%	2022	1986	9	-	-
961	John Day	706	-	7.210%	2022	1987	9	-	-
962	John Day	4,353	-	8.875%	2022	1987	9	-	-
963	John Day	332	-	8.500%	2022	1988	9	-	-
964	John Day	199	-	8.500%	2022	1988	9	-	-
965	John Day	30	-	7.210%	2022	1989	9	-	-
966	John Day	377	-	9.250%	2022	1989	9	-	-
967	John Day	37	-	7.210%	2022	1990	9	-	-
968	John Day	543	-	8.875%	2022	1990	9	-	-
969	John Day	13,218	-	8.750%	2022	1991	9	-	-
970	John Day	144	-	8.750%	2022	1991	9	-	-
971	John Day	19	-	7.210%	2022	1992	9	-	-
972	John Day	95	-	8.500%	2022	1992	9	-	-
973	John Day	7,810	-	7.875%	2022	1993	9	-	-
974	John Day	9,585	-	7.875%	2022	1993	9	-	-
975	John Day	14	-	7.125%	2019	1994	9	-	-



**TABLE 11A: HISTORICAL INVESTMENTS**  
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**(\$000s) (FY 2014)**

	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
976	John Day	1,252	-	7.125%	2029	1994	9	-	-
977	John Day	2	-	7.330%	2000	1995	9	-	-
978	John Day	9	-	7.330%	2000	1995	9	-	-
979	John Day	79	-	7.250%	2020	1995	9	-	-
980	John Day	22	22	7.150%	2035	1995	9	-	-
981	John Day	52	52	7.150%	2035	1995	9	-	-
982	John Day	121	121	7.150%	2035	1995	9	-	-
983	John Day	37	37	7.150%	2045	1995	9	-	-
984	John Day	608	608	7.150%	2045	1995	9	-	-
985	John Day	7,653	7,653	7.150%	2045	1995	9	-	-
986	John Day	237	-	7.130%	2011	1996	9	-	-
987	John Day	1,072	-	7.290%	2016	1996	9	-	-
988	John Day	133	-	7.230%	2022	1997	9	-	-
989	John Day	179	179	7.150%	2047	1997	9	-	-
990	John Day	3,510	3,510	5.375%	2049	1999	9	-	-
991	John Day	2,761	2,761	6.125%	2050	2000	9	-	-
992	John Day	619	619	5.875%	2051	2001	9	-	-
993	John Day	2,830	2,830	5.375%	2054	2004	9	-	-
994	John Day	2,827	2,827	5.125%	2055	2005	9	-	-
995	John Day	601	601	4.500%	2056	2006	9	-	-
996	John Day	233	233	5.000%	2057	2007	9	-	-
997	John Day	1,548	1,548	4.375%	2059	2009	9	-	-
998	John Day	356	356	4.250%	2060	2010	9	-	-
999	John Day	175	175	3.750%	2061	2011	9	-	-
1000	John Day	6,161	6,161	3.375%	2062	2012	9	-	-
1001	Libby	54,644	48,138	7.160%	2025	1975	9	-	-
1002	Libby	153,432	153,432	7.150%	2026	1976	9	-	-
1003	Libby	1,465	1,465	7.150%	2026	1977	9	-	-
1004	Libby	1,465	1,465	7.150%	2026	1978	9	-	-
1005	Libby	1,465	1,465	7.150%	2026	1979	9	-	-
1006	Libby	1,465	1,465	7.150%	2026	1980	9	-	-
1007	Libby	1,465	1,465	7.150%	2026	1981	9	-	-
1008	Libby	1,465	1,465	7.150%	2026	1982	9	-	-
1009	Libby	1,465	1,465	7.150%	2026	1983	9	-	-
1010	Libby	104	-	10.750%	2026	1984	9	-	-
1011	Libby	518	518	7.150%	2026	1985	9	-	-
1012	Libby	283	283	7.150%	2026	1986	9	-	-
1013	Libby	2	2	7.150%	2026	1987	9	-	-
1014	Libby	35	-	8.505%	2026	1988	9	-	-
1015	Libby	18,043	14,781	7.150%	2038	1988	9	-	-
1016	Libby	1	1	7.150%	2026	1989	9	-	-
1017	Libby	131	-	9.250%	2026	1989	9	-	-
1018	Libby	11	-	8.875%	2026	1990	9	-	-
1019	Libby	134	-	8.750%	2026	1991	9	-	-
1020	Libby	100	-	8.500%	2026	1992	9	-	-
1021	Libby	70	-	8.500%	2026	1992	9	-	-
1022	Libby	600	-	7.875%	2026	1993	9	-	-
1023	Libby	286	152	7.150%	2029	1994	9	-	-
1024	Libby	215	-	7.125%	2029	1994	9	-	-
1025	Libby	15	15	7.150%	2030	1995	9	-	-
1026	Libby	41	41	7.150%	2030	1995	9	-	-
1027	Libby	94	94	7.150%	2030	1995	9	-	-
1028	Libby	432	-	7.230%	2022	1997	9	-	-
1029	Libby	660	660	7.150%	2047	1997	9	-	-
1030	Libby	5,562	5,562	5.875%	2051	2001	9	-	-
1031	Libby	1,567	1,567	4.875%	2058	2008	9	-	-
1032	Libby	40	40	4.250%	2060	2010	9	-	-
1033	Libby	152	152	3.750%	2061	2011	9	-	-
1034	Libby	16	16	3.375%	2062	2012	9	-	-
1035	Little Goose	22,326	-	7.250%	2020	1970	9	-	-
1036	Little Goose	42,962	-	7.230%	2021	1971	9	-	-
1037	Little Goose	28	-	7.230%	2021	1972	9	-	-
1038	Little Goose	29	-	7.230%	2021	1973	9	-	-
1039	Little Goose	28	-	7.230%	2021	1974	9	-	-
1040	Little Goose	29	-	7.230%	2021	1975	9	-	-
1041	Little Goose	28	-	7.230%	2021	1976	9	-	-
1042	Little Goose	29	-	7.230%	2021	1977	9	-	-
1043	Little Goose	28	-	7.230%	2021	1978	9	-	-
1044	Little Goose	49,578	49,578	7.150%	2028	1978	9	-	-
1045	Little Goose	29	-	7.230%	2021	1979	9	-	-
1046	Little Goose	28	-	7.230%	2021	1980	9	-	-
1047	Little Goose	29	-	7.230%	2021	1981	9	-	-
1048	Little Goose	28	-	7.230%	2021	1982	9	-	-
1049	Little Goose	29	-	7.230%	2021	1983	9	-	-
1050	Little Goose	201	-	10.750%	2021	1984	9	-	-

**TABLE 11A: HISTORICAL INVESTMENTS**  
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**(\$000s) (FY 2014)**

	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
1051	Little Goose	174	-	7.230%	2021	1985	9	-	-
1052	Little Goose	47	47	7.150%	2028	1985	9	-	-
1053	Little Goose	239	-	7.230%	2021	1986	9	-	-
1054	Little Goose	6	-	7.230%	2021	1987	9	-	-
1055	Little Goose	72	-	8.875%	2021	1987	9	-	-
1056	Little Goose	12	-	8.500%	2021	1988	9	-	-
1057	Little Goose	68	-	8.500%	2021	1988	9	-	-
1058	Little Goose	77	-	9.250%	2021	1989	9	-	-
1059	Little Goose	408	-	8.875%	2021	1990	9	-	-
1060	Little Goose	21	-	8.875%	2021	1990	9	-	-
1061	Little Goose	266	-	8.750%	2021	1991	9	-	-
1062	Little Goose	66	-	8.500%	2021	1992	9	-	-
1063	Little Goose	27	-	8.500%	2021	1992	9	-	-
1064	Little Goose	276	-	7.875%	2021	1993	9	-	-
1065	Little Goose	3,359	-	7.875%	2021	1993	9	-	-
1066	Little Goose	37	-	7.125%	2019	1994	9	-	-
1067	Little Goose	2,044	-	7.125%	2029	1994	9	-	-
1068	Little Goose	17	17	7.150%	2040	1995	9	-	-
1069	Little Goose	450	450	7.150%	2040	1995	9	-	-
1070	Little Goose	733	733	7.150%	2040	1995	9	-	-
1071	Little Goose	10	10	7.150%	2046	1996	9	-	-
1072	Little Goose	10	10	7.150%	2046	1996	9	-	-
1073	Little Goose	211	211	7.150%	2046	1996	9	-	-
1074	Little Goose	241	241	7.150%	2046	1996	9	-	-
1075	Little Goose	520	520	7.150%	2046	1996	9	-	-
1076	Little Goose	3,909	3,909	7.150%	2046	1996	9	-	-
1077	Little Goose	1	1	7.150%	2047	1997	9	-	-
1078	Little Goose	4,608	4,608	5.875%	2051	2001	9	-	-
1079	Little Goose	27	27	5.500%	2052	2002	9	-	-
1080	Little Goose	146	146	5.125%	2053	2003	9	-	-
1081	Little Goose	67	67	5.375%	2054	2004	9	-	-
1082	Little Goose	13	13	4.875%	2058	2008	9	-	-
1083	Little Goose	3,171	3,171	4.375%	2059	2009	9	-	-
1084	Little Goose	30	30	4.250%	2060	2010	9	-	-
1085	Little Goose			3.375%	2062	2012	9	-	-
1086	Lookout Dam	34,290	-	6.910%	2005	1955	9	-	-
1087	Lookout Dam	52	-	6.910%	2005	1956	9	-	-
1088	Lookout Dam	51	-	6.910%	2005	1957	9	-	-
1089	Lookout Dam	51	-	6.910%	2005	1958	9	-	-
1090	Lookout Dam	51	-	6.910%	2005	1959	9	-	-
1091	Lookout Dam	51	-	6.910%	2005	1960	9	-	-
1092	Lookout Dam	52	-	6.910%	2005	1961	9	-	-
1093	Lookout Dam	51	-	6.910%	2005	1962	9	-	-
1094	Lookout Dam	51	-	6.910%	2005	1963	9	-	-
1095	Lookout Dam	51	-	6.910%	2005	1964	9	-	-
1096	Lookout Dam	51	-	6.910%	2005	1965	9	-	-
1097	Lookout Dam	51	-	6.910%	2005	1966	9	-	-
1098	Lookout Dam	52	-	6.910%	2005	1967	9	-	-
1099	Lookout Dam	51	-	6.910%	2005	1968	9	-	-
1100	Lookout Dam	51	-	6.910%	2005	1969	9	-	-
1101	Lookout Dam	51	-	6.910%	2005	1970	9	-	-
1102	Lookout Dam	51	-	6.910%	2005	1971	9	-	-
1103	Lookout Dam	51	-	6.910%	2005	1972	9	-	-
1104	Lookout Dam	52	-	6.910%	2005	1973	9	-	-
1105	Lookout Dam	51	-	6.910%	2005	1974	9	-	-
1106	Lookout Dam	51	-	6.910%	2005	1975	9	-	-
1107	Lookout Dam	51	-	6.910%	2005	1976	9	-	-
1108	Lookout Dam	51	-	6.910%	2005	1977	9	-	-
1109	Lookout Dam	51	-	6.910%	2005	1978	9	-	-
1110	Lookout Dam	52	-	6.910%	2005	1979	9	-	-
1111	Lookout Dam	51	-	6.910%	2005	1980	9	-	-
1112	Lookout Dam	51	-	6.910%	2005	1981	9	-	-
1113	Lookout Dam	51	-	6.910%	2005	1982	9	-	-
1114	Lookout Dam	51	-	6.910%	2005	1983	9	-	-
1115	Lookout Dam	185	-	10.750%	2005	1984	9	-	-
1116	Lookout Dam	52	-	6.910%	2005	1985	9	-	-
1117	Lookout Dam	42	-	6.910%	2005	1986	9	-	-
1118	Lookout Dam	9	-	6.910%	2005	1987	9	-	-
1119	Lookout Dam	12	-	8.875%	2005	1987	9	-	-
1120	Lookout Dam	46	-	8.500%	2005	1988	9	-	-
1121	Lookout Dam	17	-	8.500%	2005	1988	9	-	-
1122	Lookout Dam	23	-	9.250%	2005	1989	9	-	-
1123	Lookout Dam	147	-	8.875%	2005	1990	9	-	-
1124	Lookout Dam	4	-	8.875%	2005	1990	9	-	-
1125	Lookout Dam	6	-	8.750%	2005	1991	9	-	-

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**(\$000s) (FY 2014)**

	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
1126	Lookout Dam	50	-	8.750%	2005	1991	9	-	-
1127	Lookout Dam	181	-	8.500%	2005	1992	9	-	-
1128	Lookout Dam	4	-	8.500%	2005	1992	9	-	-
1129	Lookout Dam	18	-	7.875%	2005	1993	9	-	-
1130	Lookout Dam	189	-	7.875%	2005	1993	9	-	-
1131	Lookout Dam	73	-	7.125%	2019	1994	9	-	-
1132	Lookout Dam	80	39	7.150%	2045	1995	9	-	-
1133	Lookout Dam	33	33	7.150%	2045	1995	9	-	-
1134	Lookout Dam	9	-	7.860%	2045	1995	9	-	-
1135	Lookout Dam	15	-	7.860%	2045	1995	9	-	-
1136	Lookout Dam	31	-	7.860%	2045	1995	9	-	-
1137	Lookout Dam	157	-	7.860%	2045	1995	9	-	-
1138	Lookout Dam	5,098	5,098	6.125%	2050	2000	9	-	-
1139	Lookout Dam	135	135	5.125%	2053	2003	9	-	-
1140	Lookout Dam	7,355	7,355	5.125%	2055	2005	9	-	-
1141	Lookout Dam	572	572	5.000%	2057	2007	9	-	-
1142	Lookout Dam	17	17	3.750%	2061	2011	9	-	-
1143	Lookout Dam	294	294	3.375%	2062	2012	9	-	-
1144	Lost Creek	13,505	13,413	7.150%	2027	1977	9	-	-
1145	Lost Creek	58	58	7.150%	2027	1978	9	-	-
1146	Lost Creek	60	60	7.150%	2027	1979	9	-	-
1147	Lost Creek	60	60	7.150%	2027	1980	9	-	-
1148	Lost Creek	60	60	7.150%	2027	1981	9	-	-
1149	Lost Creek	60	60	7.150%	2027	1982	9	-	-
1150	Lost Creek	60	60	7.150%	2027	1983	9	-	-
1151	Lost Creek	243	-	10.750%	2027	1984	9	-	-
1152	Lost Creek	12	12	7.150%	2027	1985	9	-	-
1153	Lost Creek	6	6	7.150%	2027	1986	9	-	-
1154	Lost Creek	5	-	11.375%	2027	1986	9	-	-
1155	Lost Creek	4	4	7.150%	2027	1987	9	-	-
1156	Lost Creek	3	-	8.875%	2027	1987	9	-	-
1157	Lost Creek	7	-	8.500%	2027	1988	9	-	-
1158	Lost Creek	9	-	9.250%	2027	1989	9	-	-
1159	Lost Creek	1	-	8.875%	2027	1990	9	-	-
1160	Lost Creek	31	-	8.750%	2027	1991	9	-	-
1161	Lost Creek	1	-	8.500%	2027	1992	9	-	-
1162	Lost Creek	1	-	8.500%	2027	1992	9	-	-
1163	Lost Creek	1	-	7.875%	2027	1993	9	-	-
1164	Lost Creek	14	-	7.875%	2027	1993	9	-	-
1165	Lost Creek	4	-	7.330%	2000	1995	9	-	-
1166	Lost Creek	94	94	7.150%	2045	1995	9	-	-
1167	Lost Creek	31	31	7.150%	2031	1996	9	-	-
1168	Lost Creek	24	24	7.150%	2046	1996	9	-	-
1169	Lost Creek	147	147	5.875%	2051	2001	9	-	-
1170	Lost Creek	7	7	3.750%	2061	2011	9	-	-
1171	Lost Creek	788	788	3.375%	2062	2012	9	-	-
1172	Lower Granite	119,237	117,645	7.160%	2025	1975	9	-	-
1173	Lower Granite	510	510	7.160%	2025	1976	9	-	-
1174	Lower Granite	510	510	7.160%	2025	1977	9	-	-
1175	Lower Granite	510	510	7.160%	2025	1978	9	-	-
1176	Lower Granite	40,611	40,611	7.150%	2028	1978	9	-	-
1177	Lower Granite	510	510	7.160%	2025	1979	9	-	-
1178	Lower Granite	510	510	7.160%	2025	1980	9	-	-
1179	Lower Granite	510	510	7.160%	2025	1981	9	-	-
1180	Lower Granite	510	510	7.160%	2025	1982	9	-	-
1181	Lower Granite	510	510	7.160%	2025	1983	9	-	-
1182	Lower Granite	311	-	10.750%	2025	1984	9	-	-
1183	Lower Granite	328	328	7.160%	2025	1985	9	-	-
1184	Lower Granite	215	215	7.160%	2025	1986	9	-	-
1185	Lower Granite	4	-	11.375%	2025	1986	9	-	-
1186	Lower Granite	8	8	7.160%	2025	1987	9	-	-
1187	Lower Granite	60	-	8.875%	2025	1987	9	-	-
1188	Lower Granite	22	-	8.500%	2025	1988	9	-	-
1189	Lower Granite	95	-	8.500%	2025	1988	9	-	-
1190	Lower Granite	112	-	9.250%	2025	1989	9	-	-
1191	Lower Granite	392	-	8.875%	2025	1990	9	-	-
1192	Lower Granite	281	-	8.750%	2025	1991	9	-	-
1193	Lower Granite	6	-	8.750%	2025	1991	9	-	-
1194	Lower Granite	83	-	8.500%	2025	1992	9	-	-
1195	Lower Granite	121	-	8.500%	2025	1992	9	-	-
1196	Lower Granite	26	-	7.875%	2025	1993	9	-	-
1197	Lower Granite	3,272	-	7.875%	2025	1993	9	-	-
1198	Lower Granite	38	-	7.125%	2019	1994	9	-	-
1199	Lower Granite	3,543	1,551	7.150%	2029	1994	9	-	-
1200	Lower Granite	77	-	7.290%	2017	1995	9	-	-

**TABLE 11A: HISTORICAL INVESTMENTS**  
**October 1, 2013 - September 30, 2015 Cost Evaluation period**  
**(\$000s) (FY 2014)**

	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
1201	Lower Granite	388	-	7.290%	2017	1995	9	-	-
1202	Lower Granite	458	-	7.290%	2017	1995	9	-	-
1203	Lower Granite	96	96	7.160%	2025	1995	9	-	-
1204	Lower Granite	255	-	7.130%	2011	1996	9	-	-
1205	Lower Granite	206	206	7.150%	2031	1996	9	-	-
1206	Lower Granite	9	9	7.150%	2046	1996	9	-	-
1207	Lower Granite	625	625	7.150%	2046	1996	9	-	-
1208	Lower Granite	677	677	7.150%	2047	1997	9	-	-
1209	Lower Granite	856	856	5.375%	2049	1999	9	-	-
1210	Lower Granite	2,025	2,025	5.875%	2051	2001	9	-	-
1211	Lower Granite	1,275	1,275	5.500%	2052	2002	9	-	-
1212	Lower Granite	42	42	5.125%	2053	2003	9	-	-
1213	Lower Granite	393	393	5.125%	2055	2005	9	-	-
1214	Lower Granite	24	24	4.875%	2058	2008	9	-	-
1215	Lower Granite	5,669	5,669	4.375%	2059	2009	9	-	-
1216	Lower Granite	1,156	1,156	4.250%	2060	2010	9	-	-
1217	Lower Granite	8	8	3.750%	2061	2011	9	-	-
1218	Lower Monument	26,974	-	7.270%	2019	1969	9	-	-
1219	Lower Monument	51,218	-	7.250%	2020	1970	9	-	-
1220	Lower Monument	214	-	7.250%	2020	1971	9	-	-
1221	Lower Monument	214	-	7.250%	2020	1972	9	-	-
1222	Lower Monument	214	-	7.250%	2020	1973	9	-	-
1223	Lower Monument	214	-	7.250%	2020	1974	9	-	-
1224	Lower Monument	214	-	7.250%	2020	1975	9	-	-
1225	Lower Monument	214	-	7.250%	2020	1976	9	-	-
1226	Lower Monument	214	-	7.250%	2020	1977	9	-	-
1227	Lower Monument	214	-	7.250%	2020	1978	9	-	-
1228	Lower Monument	214	-	7.250%	2020	1979	9	-	-
1229	Lower Monument	40,669	40,669	7.150%	2029	1979	9	-	-
1230	Lower Monument	214	-	7.250%	2020	1980	9	-	-
1231	Lower Monument	214	-	7.250%	2020	1981	9	-	-
1232	Lower Monument	214	-	7.250%	2020	1982	9	-	-
1233	Lower Monument	214	-	7.250%	2020	1983	9	-	-
1234	Lower Monument	8	-	7.250%	2020	1985	9	-	-
1235	Lower Monument	256	256	7.150%	2029	1985	9	-	-
1236	Lower Monument	132	-	7.250%	2020	1986	9	-	-
1237	Lower Monument	3	-	7.250%	2020	1987	9	-	-
1238	Lower Monument	50	-	8.875%	2020	1987	9	-	-
1239	Lower Monument	1	-	8.500%	2020	1988	9	-	-
1240	Lower Monument	58	-	8.500%	2020	1988	9	-	-
1241	Lower Monument	93	-	9.250%	2020	1989	9	-	-
1242	Lower Monument	358	-	8.875%	2020	1990	9	-	-
1243	Lower Monument	594	-	8.750%	2020	1991	9	-	-
1244	Lower Monument	4,484	-	8.500%	2020	1992	9	-	-
1245	Lower Monument	24	-	7.875%	2020	1993	9	-	-
1246	Lower Monument	2,175	-	7.875%	2020	1993	9	-	-
1247	Lower Monument	107	-	7.125%	2019	1994	9	-	-
1248	Lower Monument	2,167	-	7.125%	2029	1994	9	-	-
1249	Lower Monument	6	-	7.330%	2000	1995	9	-	-
1250	Lower Monument	41	41	7.150%	2045	1995	9	-	-
1251	Lower Monument	99	99	7.150%	2045	1995	9	-	-
1252	Lower Monument	624	624	7.150%	2045	1995	9	-	-
1253	Lower Monument	1,122	1,122	7.150%	2045	1995	9	-	-
1254	Lower Monument	668	-	7.290%	2016	1996	9	-	-
1255	Lower Monument	37	-	7.230%	2021	1996	9	-	-
1256	Lower Monument	51	-	7.230%	2021	1996	9	-	-
1257	Lower Monument	264	264	7.150%	2036	1996	9	-	-
1258	Lower Monument	10	10	7.150%	2046	1996	9	-	-
1259	Lower Monument	3,301	3,301	5.875%	2051	2001	9	-	-
1260	Lower Monument	29	29	5.500%	2052	2002	9	-	-
1261	Lower Monument	22	22	5.125%	2053	2003	9	-	-
1262	Lower Monument	3,423	3,423	5.375%	2054	2004	9	-	-
1263	Lower Monument	527	527	5.125%	2055	2005	9	-	-
1264	Lower Monument	285	285	4.500%	2056	2006	9	-	-
1265	Lower Monument	9	9	4.875%	2058	2008	9	-	-
1266	Lower Monument	2,332	2,332	4.375%	2059	2009	9	-	-
1267	Lower Monument	89	89	3.375%	2062	2012	9	-	-
1268	Lower Snake Fish and Wildlife	30,488	9,472	7.150%	2033	1983	9	-	-
1269	Lower Snake Fish and Wildlife	47,921	47,921	7.150%	2035	1985	9	-	-
1270	Lower Snake Fish and Wildlife	72,536	72,536	7.150%	2037	1987	9	-	-
1271	Lower Snake Fish and Wildlife	805	805	7.150%	2038	1988	9	-	-
1272	Lower Snake Fish and Wildlife	1,557	1,557	7.150%	2040	1990	9	-	-
1273	Lower Snake Fish and Wildlife	4,411	4,411	7.150%	2041	1991	9	-	-
1274	Lower Snake Fish and Wildlife	71,632	71,632	7.150%	2043	1993	9	-	-
1275	Lower Snake Fish and Wildlife	4,722	4,722	7.150%	2044	1994	9	-	-

**TABLE 11A: HISTORICAL INVESTMENTS**  
**October 1, 2013 - September 30, 2015 Cost Evaluation period**  
**(\$000s) (FY 2014)**

	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
1276	Lower Snake Fish and Wildlife	12,085	12,085	7.150%	2046	1996	9	-	-
1277	Lower Snake Fish and Wildlife	2,173	2,173	7.150%	2047	1997	9	-	-
1278	Lower Snake Fish and Wildlife	7	7	5.375%	2049	1999	9	-	-
1279	Lower Snake Fish and Wildlife	1,529	1,529	6.125%	2050	2000	9	-	-
1280	Lower Snake Fish and Wildlife	325	325	5.875%	2051	2001	9	-	-
1281	Lower Snake Fish and Wildlife	890	890	5.500%	2052	2002	9	-	-
1282	Lower Snake Fish and Wildlife	98	98	5.125%	2053	2003	9	-	-
1283	Lower Snake Fish and Wildlife	230	230	5.375%	2054	2004	9	-	-
1284	Lower Snake Fish and Wildlife	4	4	5.125%	2055	2005	9	-	-
1285	Lower Snake Fish and Wildlife	379	379	4.500%	2056	2006	9	-	-
1286	Lower Snake Fish and Wildlife	74	74	4.875%	2058	2008	9	-	-
1287	Lower Snake Fish and Wildlife	1,540	1,540	4.375%	2059	2009	9	-	-
1288	Lower Snake Fish and Wildlife	6	6	4.250%	2060	2010	9	-	-
1289	Lower Snake Fish and Wildlife	122	122	3.750%	2061	2011	9	-	-
1290	McNary	80,256	-	6.880%	2004	1954	9	-	-
1291	McNary	53,493	-	6.910%	2005	1955	9	-	-
1292	McNary	38,748	-	6.950%	2006	1956	9	-	-
1293	McNary	24,985	-	6.980%	2007	1957	9	-	-
1294	McNary	468	-	6.980%	2007	1958	9	-	-
1295	McNary	468	-	6.980%	2007	1959	9	-	-
1296	McNary	468	-	6.980%	2007	1960	9	-	-
1297	McNary	468	-	6.980%	2007	1961	9	-	-
1298	McNary	467	-	6.980%	2007	1962	9	-	-
1299	McNary	468	-	6.980%	2007	1963	9	-	-
1300	McNary	468	-	6.980%	2007	1964	9	-	-
1301	McNary	468	-	6.980%	2007	1965	9	-	-
1302	McNary	468	-	6.980%	2007	1966	9	-	-
1303	McNary	467	-	6.980%	2007	1967	9	-	-
1304	McNary	468	-	6.980%	2007	1968	9	-	-
1305	McNary	468	-	6.980%	2007	1969	9	-	-
1306	McNary	468	-	6.980%	2007	1970	9	-	-
1307	McNary	468	-	6.980%	2007	1971	9	-	-
1308	McNary	468	-	6.980%	2007	1972	9	-	-
1309	McNary	467	-	6.980%	2007	1973	9	-	-
1310	McNary	468	-	6.980%	2007	1974	9	-	-
1311	McNary	468	-	6.980%	2007	1975	9	-	-
1312	McNary	468	-	6.980%	2007	1976	9	-	-
1313	McNary	467	-	6.980%	2007	1977	9	-	-
1314	McNary	468	-	6.980%	2007	1978	9	-	-
1315	McNary	468	-	6.980%	2007	1979	9	-	-
1316	McNary	468	-	6.980%	2007	1980	9	-	-
1317	McNary	468	-	6.980%	2007	1981	9	-	-
1318	McNary	467	-	6.980%	2007	1982	9	-	-
1319	McNary	468	-	6.980%	2007	1983	9	-	-
1320	McNary	557	-	6.980%	2007	1985	9	-	-
1321	McNary	454	-	6.980%	2007	1986	9	-	-
1322	McNary	24	-	6.980%	2007	1987	9	-	-
1323	McNary	509	-	7.090%	2010	1995	9	-	-
1324	McNary	16	16	7.150%	2045	1995	9	-	-
1325	McNary	778	-	6.950%	2006	1996	9	-	-
1326	McNary	3	-	7.130%	2011	1996	9	-	-
1327	McNary	74	74	7.150%	2026	1996	9	-	-
1328	McNary	277	277	7.150%	2026	1996	9	-	-
1329	McNary	619	619	7.150%	2046	1996	9	-	-
1330	McNary	30	30	7.150%	2032	1997	9	-	-
1331	McNary	1,046	1,046	5.875%	2051	2001	9	-	-
1332	McNary	97	97	5.750%	2053	2003	9	-	-
1333	McNary	6,138	6,138	5.375%	2054	2004	9	-	-
1334	McNary	550	550	5.125%	2055	2005	9	-	-
1335	McNary	4,080	4,080	4.500%	2056	2006	9	-	-
1336	McNary	215	215	4.875%	2058	2008	9	-	-
1337	McNary	565	565	3.750%	2061	2011	9	-	-
1338	McNary	11	11	3.375%	2062	2012	9	-	-
1339	Minidoka/Palisades	854	-	3.000%	1959	1909	9	-	-
1340	Minidoka/Palisades	226	-	3.000%	1959	1909	9	-	-
1341	Minidoka/Palisades	1,709	-	3.000%	1960	1910	9	-	-
1342	Minidoka/Palisades	451	-	3.000%	1960	1910	9	-	-
1343	Minidoka/Palisades	1,709	-	3.000%	1961	1911	9	-	-
1344	Minidoka/Palisades	451	-	3.000%	1961	1911	9	-	-
1345	Minidoka/Palisades	854	-	3.000%	1977	1927	9	-	-
1346	Minidoka/Palisades	226	-	3.000%	1977	1927	9	-	-
1347	Minidoka/Palisades	854	-	3.000%	1992	1942	9	-	-
1348	Minidoka/Palisades	226	-	3.000%	1992	1942	9	-	-
1349	Minidoka/Palisades	2,561	-	3.000%	2007	1957	9	-	-
1350	Minidoka/Palisades	677	-	3.000%	2007	1957	9	-	-

**TABLE 11A: HISTORICAL INVESTMENTS**  
**October 1, 2013 - September 30, 2015 Cost Evaluation period**  
**(\$000s) (FY 2014)**

	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
1351	Minidoka/Palisades	854	-	3.000%	2008	1958	9	-	-
1352	Minidoka/Palisades	226	-	3.000%	2008	1958	9	-	-
1353	Minidoka/Palisades	108	-	3.000%	2008	1959	9	-	-
1354	Minidoka/Palisades	28	-	3.000%	2008	1959	9	-	-
1355	Minidoka/Palisades	108	-	3.000%	2008	1960	9	-	-
1356	Minidoka/Palisades	29	-	3.000%	2008	1960	9	-	-
1357	Minidoka/Palisades	108	-	3.000%	2008	1961	9	-	-
1358	Minidoka/Palisades	29	-	3.000%	2008	1961	9	-	-
1359	Minidoka/Palisades	108	-	3.000%	2008	1962	9	-	-
1360	Minidoka/Palisades	28	-	3.000%	2008	1962	9	-	-
1361	Minidoka/Palisades	108	-	3.000%	2008	1963	9	-	-
1362	Minidoka/Palisades	29	-	3.000%	2008	1963	9	-	-
1363	Minidoka/Palisades	108	-	3.000%	2008	1964	9	-	-
1364	Minidoka/Palisades	28	-	3.000%	2008	1964	9	-	-
1365	Minidoka/Palisades	108	-	3.000%	2008	1965	9	-	-
1366	Minidoka/Palisades	29	-	3.000%	2008	1965	9	-	-
1367	Minidoka/Palisades	108	-	3.000%	2008	1966	9	-	-
1368	Minidoka/Palisades	29	-	3.000%	2008	1966	9	-	-
1369	Minidoka/Palisades	108	-	3.000%	2008	1967	9	-	-
1370	Minidoka/Palisades	28	-	3.000%	2008	1967	9	-	-
1371	Minidoka/Palisades	108	-	3.000%	2008	1968	9	-	-
1372	Minidoka/Palisades	29	-	3.000%	2008	1968	9	-	-
1373	Minidoka/Palisades	3	-	3.000%	2008	1969	9	-	-
1374	Minidoka/Palisades	28	-	3.000%	2008	1969	9	-	-
1375	Minidoka/Palisades	108	-	3.000%	2008	1970	9	-	-
1376	Minidoka/Palisades	29	-	3.000%	2008	1970	9	-	-
1377	Minidoka/Palisades	108	-	3.000%	2008	1971	9	-	-
1378	Minidoka/Palisades	29	-	3.000%	2008	1971	9	-	-
1379	Minidoka/Palisades	108	-	3.000%	2008	1972	9	-	-
1380	Minidoka/Palisades	28	-	3.000%	2008	1972	9	-	-
1381	Minidoka/Palisades	108	-	3.000%	2008	1973	9	-	-
1382	Minidoka/Palisades	29	-	3.000%	2008	1973	9	-	-
1383	Minidoka/Palisades	108	-	3.000%	2008	1974	9	-	-
1384	Minidoka/Palisades	28	-	3.000%	2008	1974	9	-	-
1385	Minidoka/Palisades	108	-	3.000%	2008	1975	9	-	-
1386	Minidoka/Palisades	29	-	3.000%	2008	1975	9	-	-
1387	Minidoka/Palisades	108	-	3.000%	2008	1976	9	-	-
1388	Minidoka/Palisades	29	-	3.000%	2008	1976	9	-	-
1389	Minidoka/Palisades	83	-	7.020%	2008	1977	9	-	-
1390	Minidoka/Palisades	28	-	7.020%	2008	1977	9	-	-
1391	Minidoka/Palisades	75	-	7.020%	2008	1978	9	-	-
1392	Minidoka/Palisades	20	-	7.020%	2008	1978	9	-	-
1393	Minidoka/Palisades	75	-	7.020%	2008	1979	9	-	-
1394	Minidoka/Palisades	19	-	7.020%	2008	1979	9	-	-
1395	Minidoka/Palisades	75	-	7.020%	2008	1980	9	-	-
1396	Minidoka/Palisades	20	-	7.020%	2008	1980	9	-	-
1397	Minidoka/Palisades	75	-	7.020%	2008	1981	9	-	-
1398	Minidoka/Palisades	20	-	7.020%	2008	1981	9	-	-
1399	Minidoka/Palisades	75	-	7.020%	2008	1982	9	-	-
1400	Minidoka/Palisades	19	-	7.020%	2008	1982	9	-	-
1401	Minidoka/Palisades	65	-	7.020%	2008	1983	9	-	-
1402	Minidoka/Palisades	20	-	7.020%	2008	1983	9	-	-
1403	Minidoka/Palisades	44	-	10.075%	2008	1984	9	-	-
1404	Minidoka/Palisades	11	-	10.075%	2008	1984	9	-	-
1405	Minidoka/Palisades	21	-	7.020%	2008	1985	9	-	-
1406	Minidoka/Palisades	21	-	7.020%	2008	1986	9	-	-
1407	Minidoka/Palisades	48	-	11.375%	2008	1986	9	-	-
1408	Minidoka/Palisades	16	-	7.020%	2008	1987	9	-	-
1409	Minidoka/Palisades	31	-	8.500%	2008	1988	9	-	-
1410	Minidoka/Palisades	20	-	9.250%	2008	1989	9	-	-
1411	Minidoka/Palisades	33	-	8.875%	2008	1990	9	-	-
1412	Minidoka/Palisades	62	-	8.750%	2008	1991	9	-	-
1413	Minidoka/Palisades	11	-	8.750%	2008	1991	9	-	-
1414	Minidoka/Palisades	32	-	8.750%	2008	1991	9	-	-
1415	Minidoka/Palisades	6	-	8.500%	2008	1992	9	-	-
1416	Minidoka/Palisades	351	-	7.125%	2029	1994	9	-	-
1417	Minidoka/Palisades	6	-	7.330%	2000	1995	9	-	-
1418	Minidoka/Palisades	40	-	7.890%	2010	1995	9	-	-
1419	Minidoka/Palisades	54	-	7.130%	2011	1996	9	-	-
1420	Minidoka/Palisades	66	-	6.950%	2007	1997	9	-	-
1421	Minidoka/Palisades	50,911	50,911	7.150%	2047	1997	9	-	-
1422	Minidoka/Palisades	42	42	5.875%	2051	2001	9	-	-
1423	Minidoka/Palisades	11	11	3.375%	2062	2012	9	-	-
1424	Rogue River Projects - Green Springs	11,145	11,145	5.875%	2051	2001	9	-	-
1425	The Dalles	15,908	-	2.500%	2007	1957	9	-	-

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**October 1, 2013 - September 30, 2015 Cost Evaluation period**  
**(\$000s) (FY 2014)**

	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
1426	The Dalles	45,837	-	7.020%	2008	1958	9	-	-
1427	The Dalles	40,415	-	7.060%	2009	1959	9	-	-
1428	The Dalles	39,179	-	7.090%	2010	1960	9	-	-
1429	The Dalles	9,492	-	7.130%	2011	1961	9	-	-
1430	The Dalles	56	-	7.130%	2011	1962	9	-	-
1431	The Dalles	57	-	7.130%	2011	1963	9	-	-
1432	The Dalles	57	-	7.130%	2011	1964	9	-	-
1433	The Dalles	56	-	7.130%	2011	1965	9	-	-
1434	The Dalles	57	-	7.130%	2011	1966	9	-	-
1435	The Dalles	57	-	7.130%	2011	1967	9	-	-
1436	The Dalles	56	-	7.130%	2011	1968	9	-	-
1437	The Dalles	57	-	7.130%	2011	1969	9	-	-
1438	The Dalles	57	-	7.130%	2011	1970	9	-	-
1439	The Dalles	56	-	7.130%	2011	1971	9	-	-
1440	The Dalles	57	-	7.130%	2011	1972	9	-	-
1441	The Dalles	57	-	7.130%	2011	1973	9	-	-
1442	The Dalles	21,983	-	7.190%	2023	1973	9	-	-
1443	The Dalles	56	-	7.130%	2011	1974	9	-	-
1444	The Dalles	7,268	7,240	7.170%	2024	1974	9	-	-
1445	The Dalles	57	-	7.130%	2011	1975	9	-	-
1446	The Dalles	57	-	7.130%	2011	1976	9	-	-
1447	The Dalles	56	-	7.130%	2011	1977	9	-	-
1448	The Dalles	57	-	7.130%	2011	1978	9	-	-
1449	The Dalles	57	-	7.130%	2011	1979	9	-	-
1450	The Dalles	56	-	7.130%	2011	1980	9	-	-
1451	The Dalles	57	-	7.130%	2011	1981	9	-	-
1452	The Dalles	57	-	7.130%	2011	1982	9	-	-
1453	The Dalles	56	-	7.130%	2011	1983	9	-	-
1454	The Dalles	961	-	10.750%	2011	1984	9	-	-
1455	The Dalles	95	-	7.130%	2011	1985	9	-	-
1456	The Dalles	280	-	12.375%	2011	1985	9	-	-
1457	The Dalles	95	-	7.130%	2011	1986	9	-	-
1458	The Dalles	4	-	11.375%	2011	1986	9	-	-
1459	The Dalles	1,417	-	7.130%	2011	1987	9	-	-
1460	The Dalles	81	-	8.875%	2011	1987	9	-	-
1461	The Dalles	685	-	8.500%	2011	1988	9	-	-
1462	The Dalles	1	-	8.500%	2011	1988	9	-	-
1463	The Dalles	898	-	9.250%	2011	1989	9	-	-
1464	The Dalles	319	-	8.875%	2011	1990	9	-	-
1465	The Dalles	745	-	8.875%	2011	1990	9	-	-
1466	The Dalles	89	-	8.750%	2011	1991	9	-	-
1467	The Dalles	2,452	-	8.750%	2011	1991	9	-	-
1468	The Dalles	57	-	8.500%	2011	1992	9	-	-
1469	The Dalles	130	-	8.500%	2011	1992	9	-	-
1470	The Dalles	2,028	-	7.875%	2011	1993	9	-	-
1471	The Dalles	2,929	-	7.875%	2011	1993	9	-	-
1472	The Dalles	1,425	-	7.125%	2029	1994	9	-	-
1473	The Dalles	196	-	7.020%	2008	1996	9	-	-
1474	The Dalles	457	-	7.130%	2011	1996	9	-	-
1475	The Dalles	1,991	1,991	7.150%	2046	1996	9	-	-
1476	The Dalles	2,588	2,588	6.125%	2050	2000	9	-	-
1477	The Dalles	1,226	1,226	5.500%	2052	2002	9	-	-
1478	The Dalles	182	182	5.375%	2054	2004	9	-	-
1479	The Dalles	36,019	36,019	5.125%	2055	2005	9	-	-
1480	The Dalles	2,030	2,030	4.500%	2056	2006	9	-	-
1481	The Dalles	140	140	5.000%	2057	2007	9	-	-
1482	The Dalles	1,651	1,651	4.875%	2058	2008	9	-	-
1483	Yakima Chandler/Kenniwick	1,068	-	7.210%	2022	1956	9	-	-
1484	Yakima Chandler/Kenniwick	481	-	7.210%	2022	1956	9	-	-
1485	Yakima Chandler/Kenniwick	1	-	7.210%	2022	1959	9	-	-
1486	Yakima Chandler/Kenniwick	1	-	7.210%	2022	1960	9	-	-
1487	Yakima Chandler/Kenniwick	1	-	7.210%	2022	1961	9	-	-
1488	Yakima Chandler/Kenniwick	35	-	10.750%	2022	1984	9	-	-
1489	Yakima Chandler/Kenniwick	10	-	10.750%	2022	1984	9	-	-
1490	Yakima Chandler/Kenniwick	357	-	12.375%	2022	1985	9	-	-
1491	Yakima Chandler/Kenniwick	439	-	7.210%	2022	1986	9	-	-
1492	Yakima Chandler/Kenniwick	7	-	11.375%	2022	1986	9	-	-
1493	Yakima Chandler/Kenniwick	126	-	8.875%	2022	1987	9	-	-
1494	Yakima Chandler/Kenniwick	18	-	9.250%	2022	1989	9	-	-
1495	Yakima Chandler/Kenniwick	40	-	8.875%	2022	1990	9	-	-
1496	Yakima Chandler/Kenniwick	109	-	8.750%	2022	1991	9	-	-
1497	Yakima Chandler/Kenniwick	833	833	5.125%	2055	2005	9	-	-
1498	Yakima Chandler/Kenniwick	15	15	4.375%	2059	2009	9	-	-
1499	Yakima Roza	1,194	-	7.020%	2008	1958	9	-	-
1500	Yakima Roza	383	-	7.020%	2008	1958	9	-	-

**TABLE 11A: HISTORICAL INVESTMENTS**  
**October 1, 2013 - September 30, 2015 Cost Evaluation period**  
**(\$000s) (FY 2014)**

	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
1501	Yakima Roza	17	-	10.750%	2008	1984	9	-	-
1502	Yakima Roza	5	-	10.750%	2008	1984	9	-	-
1503	Yakima Roza	69	-	7.020%	2008	1985	9	-	-
1504	Yakima Roza	5	-	12.375%	2008	1985	9	-	-
1505	Yakima Roza	6	-	7.020%	2008	1986	9	-	-
1506	Yakima Roza	2	-	7.020%	2008	1987	9	-	-
1507	Yakima Roza	9	-	8.875%	2008	1987	9	-	-
1508	Yakima Roza	15	14	5.875%	2051	2001	9	-	-
1509	Bureau Direct	35,000	-	7.500%	2015	1995	5	-	-
1510	Bureau Direct	50,000	-	6.500%	2000	1997	5	-	-
1511	Bureau Direct	25,000	-	6.000%	2008	1998	5	-	-
1512	Bureau Direct	20,000	-	6.400%	2004	1999	9	-	-
1513	Bureau Direct	40,000	-	6.850%	2003	2000	4	-	-
1514	Bureau Direct	20,000	-	6.700%	2005	2000	9	-	-
1515	Bureau Direct	50,000	-	4.750%	2004	2001	6	-	-
1516	Bureau Direct	30,000	-	4.600%	2005	2002	3	-	-
1517	Bureau Direct	20,000	-	3.050%	2006	2002	9	-	-
1518	Bureau Direct	40,000	-	2.400%	2006	2003	4	-	-
1519	Bureau Direct	25,000	-	2.400%	2006	2003	4	-	-
1520	Bureau Direct	30,000	-	2.300%	2006	2003	7	-	-
1521	Bureau Direct	25,000	-	2.500%	2006	2003	9	-	-
1522	Bureau Direct	40,000	-	3.050%	2007	2003	12	-	-
1523	Bureau Direct	25,000	-	2.500%	2007	2004	1	-	-
1524	Bureau Direct	35,000	-	2.950%	2007	2004	4	-	-
1525	Bureau Direct	30,000	-	3.100%	2007	2004	9	-	-
1526	Bureau Direct	25,000	-	3.450%	2007	2004	7	-	-
1527	Bureau Direct	20,000	-	3.500%	2008	2005	11	-	-
1528	Bureau Direct	20,000	-	3.600%	2008	2005	1	-	-
1529	Bureau Direct	30,000	-	3.950%	2008	2005	6	-	-
1530	Bureau Direct	25,000	-	4.250%	2008	2005	9	-	-
1531	Bureau Direct	25,000	-	5.050%	2009	2006	3	-	-
1532	Bureau Direct	45,000	-	5.350%	2009	2006	7	-	-
1533	Bureau Direct	15,000	-	4.950%	2009	2006	9	-	-
1534	Bureau Direct	35,000	-	5.100%	2010	2007	1	-	-
1535	Bureau Direct	30,000	-	4.800%	2010	2007	3	-	-
1536	Bureau Direct	30,000	-	5.350%	2010	2007	6	-	-
1537	Bureau Direct	35,000	-	2.850%	2011	2008	1	-	-
1538	Bureau Direct	35,000	-	3.358%	2011	2008	5	-	-
1539	Bureau Direct	25,000	-	3.358%	2011	2008	5	-	-
1540	Bureau Direct	20,000	-	2.850%	2011	2008	1	-	-
1541	Bureau Direct	30,000	-	3.974%	2012	2008	6	-	-
1542	Bureau Direct	35,000	-	3.913%	2012	2008	7	-	-
1543	Bureau Direct	35,000	-	3.444%	2012	2008	9	-	-
1544	Bureau Direct	25,000	25,000	3.699%	2019	2009	9	-	-
1545	Bureau Direct	25,000	25,000	3.999%	2021	2009	1	-	-
1546	Bureau Direct	25,000	25,000	4.391%	2023	2009	4	-	-
1547	Bureau Direct	25,000	25,000	5.192%	2039	2009	6	-	-
1548	Bureau Direct	24,000	24,000	3.719%	2019	2010	10	-	-
1549	Bureau Direct	10,000	10,000	3.714%	2019	2010	1	-	-
1550	Bureau Direct	10,000	-	0.165%	2019	2010	2	-	-
1551	Bureau Direct	20,000	20,000	3.842%	2020	2010	10	-	-
1552	Bureau Direct	7,000	7,000	3.637%	2020	2010	11	-	-
1553	Bureau Direct	13,000	13,000	4.194%	2020	2010	12	-	-
1554	Bureau Direct	30,000	30,000	4.083%	2020	2010	3	-	-
1555	Bureau Direct	18,000	18,000	3.973%	2020	2010	4	-	-
1556	Bureau Direct	15,000	15,000	3.574%	2020	2010	5	-	-
1557	Bureau Direct	10,000	10,000	3.243%	2020	2010	6	-	-
1558	Bureau Direct	30,000	30,000	3.243%	2020	2010	6	-	-
1559	Bureau Direct	17,000	17,000	3.118%	2020	2010	7	-	-
1560	Bureau Direct	5,000	-	0.165%	2020	2010	8	-	-
1561	Bureau Direct	22,000	22,000	2.883%	2021	2010	9	-	-
1562	Bureau Direct	20,000	-	0.244%	2011	2011	9	-	-
1563	Bureau Direct	35,000	-	0.076%	2011	2011	9	-	-
1564	Bureau Direct	25,000	-	0.076%	2011	2011	9	-	-
1565	Bureau Direct	35,000	-	0.244%	2011	2011	9	-	-
1566	Bureau Direct	20,000	20,000	4.211%	2035	2011	10	-	-



**TABLE 11B: PROJECTED INVESTMENTS**  
**October 1, 2013 - September 30, 2015 Cost Evaluation period**  
**(\$000s) (FY 2014)**

	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	141,823	141,823	2.875%	2063	2013	9
2	Columbia River Fish Mitigation	99,343	99,343	3.840%	2064	2014	9
3	Bureau Direct	18,000	18,000	6.000%	2043	2013	2
4	Bureau Direct	8,370	8,370	4.100%	2043	2013	7
5	Bureau Direct	7,390	7,390	4.100%	2043	2013	6
6	Bureau Direct	8,900	8,900	4.100%	2043	2013	9
7	Bureau Direct	5,160	5,160	4.100%	2043	2013	6
8	Bureau Direct	4,100	4,100	4.100%	2043	2013	5
9	Bureau Direct	2,490	2,490	4.100%	2043	2013	4
10	Bureau Direct	15,000	15,000	6.000%	2043	2013	3
11	Bureau Direct	70,000	70,000	5.000%	2043	2013	1
12	Bureau Direct	5,020	5,020	4.500%	2044	2014	11
13	Bureau Direct	6,090	6,090	4.500%	2044	2014	12
14	Bureau Direct	4,140	4,140	4.500%	2044	2014	10
15	Bureau Direct	5,560	5,560	4.500%	2044	2014	6
16	Bureau Direct	6,460	6,460	4.500%	2044	2014	5
17	Bureau Direct	5,670	5,670	4.500%	2044	2014	4
18	Bureau Direct	4,760	4,760	4.500%	2044	2014	3
19	Bureau Direct	5,390	5,390	4.500%	2044	2014	2
20	Bureau Direct	6,510	6,510	4.500%	2044	2014	1
21	Bureau Direct	7,170	7,170	4.500%	2044	2014	9
22	Bureau Direct	6,720	6,720	4.500%	2044	2014	8
23	Bureau Direct	6,240	6,240	4.500%	2044	2014	7
24	Conservation	9,000	9,000	5.000%	2016	2013	1
25	Conservation	20,000	20,000	0.600%	2017	2013	11
26	Conservation	14,480	14,480	2.900%	2025	2013	9
27	Conservation	10,000	10,000	5.000%	2025	2013	3
28	Conservation	21,720	21,720	2.900%	2025	2013	6
29	Conservation	24,000	24,000	3.400%	2026	2014	6
30	Conservation	15,590	15,590	3.600%	2026	2014	3
31	Conservation	13,840	13,840	3.420%	2026	2014	12
32	Conservation	22,190	22,190	3.400%	2026	2014	9
33	Construction	8,820	8,820	1.800%	2019	2013	9
34	Construction	7,610	7,610	1.800%	2019	2013	6
35	Construction	4,140	4,140	2.200%	2020	2014	12
36	Construction	5,140	5,140	2.200%	2020	2014	9
37	Construction	4,430	4,430	2.200%	2020	2014	6
38	Construction	4,830	4,830	2.200%	2020	2014	3
39	Fish and Wildlife	25,000	25,000	5.000%	2028	2013	11
40	Fish and Wildlife	11,690	11,690	3.100%	2028	2013	6
41	Fish and Wildlife	13,310	13,310	3.100%	2028	2013	9
42	Fish and Wildlife	10,000	10,000	5.400%	2028	2013	3
43	Fish and Wildlife	13,490	13,490	3.600%	2029	2014	12
44	Fish and Wildlife	24,880	24,880	3.600%	2029	2014	9
45	Fish and Wildlife	10,060	10,060	4.400%	2029	2014	3
46	Fish and Wildlife	11,850	11,850	3.600%	2029	2014	6
47	Projections Construction	6,300	6,300	1.100%	2019	2013	11
48	<b>Totals:</b>	<b>762,676</b>	<b>762,676</b>				

**12. REPAYMENT STUDY RESULTS, FY 2014 STUDY**

**TABLE 12A: Interest Calculation Summary**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
(\$000s) (FY 2014)

	A	B	D	E	F	G	H	
	Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total
1	2013	Albeni Falls	Historical	3,090	6.744%	208	-	208
2	2013	Boise	Historical	4,425	6.657%	295	-	295
3	2013	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
4	2013	Bonneville Dam	Historical	151,458	5.488%	8,312	-	8,312
5	2013	Chief Joseph	Historical	238,242	6.818%	16,243	-	16,243
6	2013	Columbia Basin	Historical	95,235	5.767%	5,492	-	5,492
7	2013	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
8	2013	Columbia River Fish Mitigation	Historical	1,124,174	4.845%	52,219	-	52,219
9	2013	Cougar	Historical	12,638	5.129%	648	-	648
10	2013	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
11	2013	Dworshak	Historical	106,037	7.076%	7,503	-	7,503
12	2013	Green Peter/Foster	Historical	356	5.142%	18	-	18
13	2013	Hills Creek	Historical	2,867	5.972%	171	-	171
14	2013	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
15	2013	Ice Harbor	Historical	36,219	6.319%	2,289	-	2,289
16	2013	John Day	Historical	30,292	5.438%	1,647	-	1,647
17	2013	Libby	Historical	235,708	7.104%	16,744	-	16,744
18	2013	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
19	2013	Lookout Dam	Historical	13,543	5.467%	740	-	740
20	2013	Lost Creek	Historical	14,884	6.936%	1,032	-	1,032
21	2013	Lower Granite	Historical	177,498	7.009%	12,441	-	12,441
22	2013	Lower Monument	Historical	53,104	6.792%	3,607	-	3,607
23	2013	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	-	16,525
24	2013	McNary	Historical	13,718	5.201%	713	-	713
25	2013	Minidoka/Palisades	Historical	50,964	7.148%	3,643	-	3,643
26	2013	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
27	2013	The Dalles	Historical	53,067	5.506%	2,922	-	2,922
28	2013	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
29	2013	Yakima Roza	Historical	14	5.892%	1	-	1
30	2013	Bureau Direct	Historical	765,000	4.031%	30,841	-	30,841
31	2013	Bureau Direct	New	130,510	2.792%	3,644	-	3,644
32	2013	Conservation	Historical	367,800	3.310%	12,172	-	12,172
33	2013	Conservation	New	60,720	1.330%	807	-	807
34	2013	Construction	Historical	38,150	1.992%	760	-	760
35	2013	Construction	New	13,910	0.661%	92	-	92
36	2013	Fish and Wildlife	Historical	264,000	4.469%	11,798	-	11,798
37	2013	Fish and Wildlife	New	46,690	3.003%	1,402	-	1,402
38	2013	Float	Historical	-	-	(4,828)	-	(4,828)
39	FY 2013	<b>Subtotal:</b>		<b>5,249,660</b>		<b>274,918</b>	<b>-</b>	<b>274,918</b>
40	2014	Albeni Falls	Historical	3,090	6.744%	208	-	208
41	2014	Boise	Historical	4,425	6.657%	295	-	295
42	2014	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
43	2014	Bonneville Dam	Historical	151,458	5.488%	8,312	-	8,312
44	2014	Chief Joseph	Historical	238,242	6.818%	16,243	-	16,243
45	2014	Columbia Basin	Historical	95,235	5.767%	5,492	-	5,492
46	2014	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
47	2014	Columbia River Fish Mitigation	Historical	1,265,997	4.447%	56,296	-	56,296
48	2014	Cougar	Historical	12,638	5.129%	648	-	648
49	2014	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
50	2014	Dworshak	Historical	106,037	7.076%	7,503	-	7,503
51	2014	Green Peter/Foster	Historical	356	5.142%	18	-	18
52	2014	Hills Creek	Historical	2,867	5.972%	171	-	171
53	2014	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
54	2014	Ice Harbor	Historical	36,219	6.319%	2,289	-	2,289
55	2014	John Day	Historical	30,292	5.438%	1,647	-	1,647
56	2014	Libby	Historical	235,708	7.104%	16,744	-	16,744
57	2014	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
58	2014	Lookout Dam	Historical	13,543	5.467%	740	-	740
59	2014	Lost Creek	Historical	14,884	6.936%	1,032	-	1,032
60	2014	Lower Granite	Historical	177,498	7.009%	12,441	-	12,441
61	2014	Lower Monument	Historical	53,104	6.792%	3,607	-	3,607
62	2014	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	-	16,525
63	2014	McNary	Historical	13,718	5.201%	713	-	713
64	2014	Minidoka/Palisades	Historical	50,964	7.148%	3,643	-	3,643
65	2014	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
66	2014	The Dalles	Historical	53,067	5.506%	2,922	-	2,922
67	2014	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
68	2014	Yakima Roza	Historical	14	5.892%	1	-	1
69	2014	Bureau Direct	Historical	904,410	4.181%	37,814	-	37,814
70	2014	Bureau Direct	New	62,560	2.152%	1,346	-	1,346
71	2014	Conservation	Historical	380,200	2.884%	10,965	22	10,987
72	2014	Conservation	New	53,430	1.571%	840	-	840
73	2014	Construction	Historical	60,880	1.848%	1,125	-	1,125
74	2014	Construction	New	13,400	1.088%	146	-	146
75	2014	Fish and Wildlife	Historical	284,000	4.054%	10,703	-	10,703
76	2014	Fish and Wildlife	New	35,400	1.955%	692	-	692
77	2014	Float	Historical	-	-	(3,514)	-	(3,514)
78	FY 2014	<b>Subtotal:</b>		<b>5,478,983</b>		<b>282,423</b>	<b>22</b>	<b>282,445</b>
79	2015	Albeni Falls	Historical	3,090	6.744%	208	-	208
80	2015	Boise	Historical	4,425	6.657%	295	-	295
81	2015	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
82	2015	Bonneville Dam	Historical	151,458	5.488%	8,312	-	8,312
83	2015	Chief Joseph	Historical	238,242	6.818%	16,243	-	16,243
84	2015	Columbia Basin	Historical	95,235	5.767%	5,492	-	5,492
85	2015	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
86	2015	Columbia River Fish Mitigation	Historical	1,365,340	4.403%	60,111	-	60,111
87	2015	Cougar	Historical	12,638	5.129%	648	-	648
88	2015	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85

**TABLE 12A: Interest Calculation Summary**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
(\$000s) (FY 2014)

	A	B	D	E	F	G	H	
	Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total
89	2015	Dworshak	Historical	30,037	6.787%	2,039	-	2,039
90	2015	Green Peter/Foster	Historical	356	5.142%	18	-	18
91	2015	Hills Creek	Historical	2,867	5.972%	171	-	171
92	2015	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
93	2015	Ice Harbor	Historical	36,219	6.319%	2,289	-	2,289
94	2015	John Day	Historical	30,292	5.438%	1,647	-	1,647
95	2015	Libby	Historical	235,708	7.104%	16,744	-	16,744
96	2015	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
97	2015	Lookout Dam	Historical	13,543	5.467%	740	-	740
98	2015	Lost Creek	Historical	14,884	6.936%	1,032	-	1,032
99	2015	Lower Granite	Historical	177,498	7.009%	12,441	-	12,441
100	2015	Lower Monument	Historical	53,104	6.792%	3,607	-	3,607
101	2015	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	-	16,525
102	2015	McNary	Historical	13,718	5.201%	713	-	713
103	2015	Minidoka/Palisades	Historical	50,964	7.148%	3,643	-	3,643
104	2015	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
105	2015	The Dalles	Historical	53,067	5.506%	2,922	-	2,922
106	2015	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
107	2015	Yakima Roza	Historical	14	5.892%	1	-	1
108	2015	Bureau Direct	Historical	974,140	4.204%	40,951	-	40,951
109	2015	Conservation	Historical	440,159	2.982%	13,125	58	13,183
110	2015	Construction	Historical	64,470	1.694%	1,092	-	1,092
111	2015	Fish and Wildlife	Historical	324,280	3.995%	12,954	-	12,954
112	2015	Float	Historical	-	-	(3,552)	-	(3,552)
113	FY 2015	<b>Subtotal:</b>		<b>5,531,095</b>		<b>285,227</b>	<b>58</b>	<b>285,285</b>
114	2016	Albeni Falls	Historical	191,941	4.546%	8,726	-	8,726
115	2016	Boise	Historical	4,425	6.657%	295	-	295
116	2016	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
117	2016	Bonneville Dam	Historical	151,458	5.488%	8,312	-	8,312
118	2016	Chief Joseph	Historical	238,242	6.818%	16,243	-	16,243
119	2016	Columbia Basin	Historical	95,235	5.767%	5,492	-	5,492
120	2016	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
121	2016	Columbia River Fish Mitigation	Historical	1,365,340	4.403%	60,111	-	60,111
122	2016	Cougar	Historical	12,638	5.129%	648	-	648
123	2016	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
124	2016	Dworshak	Historical	30,037	6.787%	2,039	-	2,039
125	2016	Green Peter/Foster	Historical	356	5.142%	18	-	18
126	2016	Hills Creek	Historical	2,867	5.972%	171	-	171
127	2016	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
128	2016	Ice Harbor	Historical	36,219	6.319%	2,289	-	2,289
129	2016	John Day	Historical	30,292	5.438%	1,647	-	1,647
130	2016	Libby	Historical	235,708	7.104%	16,744	-	16,744
131	2016	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
132	2016	Lookout Dam	Historical	13,543	5.467%	740	-	740
133	2016	Lost Creek	Historical	14,884	6.936%	1,032	-	1,032
134	2016	Lower Granite	Historical	177,498	7.009%	12,441	-	12,441
135	2016	Lower Monument	Historical	53,104	6.792%	3,607	-	3,607
136	2016	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	-	16,525
137	2016	McNary	Historical	13,718	5.201%	713	-	713
138	2016	Minidoka/Palisades	Historical	50,964	7.148%	3,643	-	3,643
139	2016	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
140	2016	The Dalles	Historical	53,067	5.506%	2,922	-	2,922
141	2016	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
142	2016	Yakima Roza	Historical	14	5.892%	1	-	1
143	2016	Bureau Direct	Historical	974,140	4.204%	40,951	-	40,951
144	2016	Conservation	Historical	341,708	3.415%	11,670	-	11,670
145	2016	Construction	Historical	51,770	1.854%	960	-	960
146	2016	Fish and Wildlife	Historical	324,280	3.995%	12,954	-	12,954
147	2016	Float	Historical	-	-	(2,905)	-	(2,905)
148	FY 2016	<b>Subtotal:</b>		<b>5,608,795</b>		<b>292,804</b>	-	<b>292,804</b>
149	2017	Albeni Falls	Historical	379,689	4.528%	17,193	-	17,193
150	2017	Boise	Historical	4,425	6.657%	295	-	295
151	2017	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
152	2017	Bonneville Dam	Historical	151,458	5.488%	8,312	-	8,312
153	2017	Chief Joseph	Historical	238,242	6.818%	16,243	-	16,243
154	2017	Columbia Basin	Historical	95,235	5.767%	5,492	-	5,492
155	2017	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
156	2017	Columbia River Fish Mitigation	Historical	1,365,340	4.403%	60,111	-	60,111
157	2017	Cougar	Historical	12,638	5.129%	648	-	648
158	2017	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
159	2017	Dworshak	Historical	30,037	6.787%	2,039	-	2,039
160	2017	Green Peter/Foster	Historical	356	5.142%	18	-	18
161	2017	Hills Creek	Historical	2,867	5.972%	171	-	171
162	2017	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
163	2017	Ice Harbor	Historical	36,219	6.319%	2,289	-	2,289
164	2017	John Day	Historical	30,292	5.438%	1,647	-	1,647
165	2017	Libby	Historical	235,708	7.104%	16,744	-	16,744
166	2017	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
167	2017	Lookout Dam	Historical	13,543	5.467%	740	-	740
168	2017	Lost Creek	Historical	14,884	6.936%	1,032	-	1,032
169	2017	Lower Granite	Historical	177,498	7.009%	12,441	-	12,441
170	2017	Lower Monument	Historical	53,104	6.792%	3,607	-	3,607
171	2017	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	-	16,525
172	2017	McNary	Historical	13,718	5.201%	713	-	713
173	2017	Minidoka/Palisades	Historical	50,964	7.148%	3,643	-	3,643
174	2017	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
175	2017	The Dalles	Historical	53,067	5.506%	2,922	-	2,922

**TABLE 12A: Interest Calculation Summary**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
(\$000s) (FY 2014)

	A	B	D	E	F	G	H	
	Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total
176	2017	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
177	2017	Yakima Roza	Historical	14	5.892%	1	-	1
178	2017	Bureau Direct	Historical	974,140	4.204%	40,951	-	40,951
179	2017	Conservation	Historical	336,820	3.392%	11,426	-	11,426
180	2017	Construction	Historical	41,270	1.873%	773	-	773
181	2017	Fish and Wildlife	Historical	324,280	3.995%	12,954	-	12,954
182	2017	Float	Historical	-	-	(2,951)	-	(2,951)
183	FY 2017	<b>Subtotal:</b>		<b>5,781,155</b>		<b>300,794</b>	-	<b>300,794</b>
184	2018	Albeni Falls	Historical	561,020	4.522%	25,371	-	25,371
185	2018	Boise	Historical	4,425	6.657%	295	-	295
186	2018	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
187	2018	Bonneville Dam	Historical	151,458	5.488%	8,312	-	8,312
188	2018	Chief Joseph	Historical	238,242	6.818%	16,243	-	16,243
189	2018	Columbia Basin	Historical	95,235	5.767%	5,492	-	5,492
190	2018	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
191	2018	Columbia River Fish Mitigation	Historical	1,365,340	4.403%	60,111	-	60,111
192	2018	Cougar	Historical	12,638	5.129%	648	-	648
193	2018	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
194	2018	Dworshak	Historical	27,997	6.758%	1,892	-	1,892
195	2018	Green Peter/Foster	Historical	356	5.142%	18	-	18
196	2018	Hills Creek	Historical	2,867	5.972%	171	-	171
197	2018	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
198	2018	Ice Harbor	Historical	36,219	6.319%	2,289	-	2,289
199	2018	John Day	Historical	30,292	5.438%	1,647	-	1,647
200	2018	Libby	Historical	235,708	7.104%	16,744	-	16,744
201	2018	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
202	2018	Lookout Dam	Historical	13,543	5.467%	740	-	740
203	2018	Lost Creek	Historical	14,884	6.936%	1,032	-	1,032
204	2018	Lower Granite	Historical	177,498	7.009%	12,441	-	12,441
205	2018	Lower Monument	Historical	53,104	6.792%	3,607	-	3,607
206	2018	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	-	16,525
207	2018	McNary	Historical	13,718	5.201%	713	-	713
208	2018	Minidoka/Palisades	Historical	50,964	7.148%	3,643	-	3,643
209	2018	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
210	2018	The Dalles	Historical	53,067	5.506%	2,922	-	2,922
211	2018	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
212	2018	Yakima Roza	Historical	14	5.892%	1	-	1
213	2018	Bureau Direct	Historical	974,140	4.204%	40,951	-	40,951
214	2018	Conservation	Historical	316,820	3.569%	11,306	-	11,306
215	2018	Construction	Historical	41,270	1.873%	773	-	773
216	2018	Fish and Wildlife	Historical	324,280	3.995%	12,954	-	12,954
217	2018	Float	Historical	-	-	(2,919)	-	(2,919)
218	FY 2018	<b>Subtotal:</b>		<b>5,940,446</b>		<b>308,738</b>	-	<b>308,738</b>
219	2019	Albeni Falls	Historical	743,200	4.519%	33,587	-	33,587
220	2019	Boise	Historical	4,425	6.657%	295	-	295
221	2019	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
222	2019	Bonneville Dam	Historical	151,458	5.488%	8,312	-	8,312
223	2019	Chief Joseph	Historical	238,242	6.818%	16,243	-	16,243
224	2019	Columbia Basin	Historical	95,235	5.767%	5,492	-	5,492
225	2019	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
226	2019	Columbia River Fish Mitigation	Historical	1,365,340	4.403%	60,111	-	60,111
227	2019	Cougar	Historical	12,638	5.129%	648	-	648
228	2019	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
229	2019	Dworshak	Historical	14,095	6.332%	892	-	892
230	2019	Green Peter/Foster	Historical	356	5.142%	18	-	18
231	2019	Hills Creek	Historical	2,867	5.972%	171	-	171
232	2019	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
233	2019	Ice Harbor	Historical	36,219	6.319%	2,289	-	2,289
234	2019	John Day	Historical	30,292	5.438%	1,647	-	1,647
235	2019	Libby	Historical	235,708	7.104%	16,744	-	16,744
236	2019	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
237	2019	Lookout Dam	Historical	13,543	5.467%	740	-	740
238	2019	Lost Creek	Historical	14,884	6.936%	1,032	-	1,032
239	2019	Lower Granite	Historical	164,529	6.997%	11,512	-	11,512
240	2019	Lower Monument	Historical	53,104	6.792%	3,607	-	3,607
241	2019	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	-	16,525
242	2019	McNary	Historical	13,718	5.201%	713	-	713
243	2019	Minidoka/Palisades	Historical	50,964	7.148%	3,643	-	3,643
244	2019	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
245	2019	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
246	2019	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
247	2019	Yakima Roza	Historical	14	5.892%	1	-	1
248	2019	Bureau Direct	Historical	974,140	4.204%	40,951	-	40,951
249	2019	Conservation	Historical	316,820	3.569%	11,306	-	11,306
250	2019	Construction	Historical	41,270	1.873%	773	-	773
251	2019	Fish and Wildlife	Historical	324,280	3.995%	12,954	-	12,954
252	2019	Float	Historical	-	-	(5,018)	-	(5,018)
253	FY 2019	<b>Subtotal:</b>		<b>6,088,515</b>		<b>312,408</b>	-	<b>312,408</b>
254	2020	Albeni Falls	Historical	922,874	4.517%	41,691	-	41,691
255	2020	Boise	Historical	4,425	6.657%	295	-	295
256	2020	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
257	2020	Bonneville Dam	Historical	151,458	5.488%	8,312	-	8,312
258	2020	Chief Joseph	Historical	238,242	6.818%	16,243	-	16,243
259	2020	Columbia Basin	Historical	95,235	5.767%	5,492	-	5,492
260	2020	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
261	2020	Columbia River Fish Mitigation	Historical	1,365,340	4.403%	60,111	-	60,111
262	2020	Cougar	Historical	12,638	5.129%	648	-	648

**TABLE 12A: Interest Calculation Summary**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
(\$000s) (FY 2014)

	A	B	D	E	F	G	H	
	Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total
263	2020	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
264	2020	Dworshak	Historical	14,095	6.332%	892	-	892
265	2020	Green Peter/Foster	Historical	356	5.142%	18	-	18
266	2020	Hills Creek	Historical	2,867	5.972%	171	-	171
267	2020	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
268	2020	Ice Harbor	Historical	36,219	6.319%	2,289	-	2,289
269	2020	John Day	Historical	30,292	5.438%	1,647	-	1,647
270	2020	Libby	Historical	229,391	7.102%	16,292	-	16,292
271	2020	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
272	2020	Lookout Dam	Historical	13,543	5.467%	740	-	740
273	2020	Lost Creek	Historical	14,884	6.936%	1,032	-	1,032
274	2020	Lower Granite	Historical	55,126	6.674%	3,679	-	3,679
275	2020	Lower Monument	Historical	53,104	6.792%	3,607	-	3,607
276	2020	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	-	16,525
277	2020	McNary	Historical	13,718	5.201%	713	-	713
278	2020	Minidoka/Palmsades	Historical	50,964	7.148%	3,643	-	3,643
279	2020	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
280	2020	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
281	2020	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
282	2020	Yakima Roza	Historical	14	5.892%	1	-	1
283	2020	Bureau Direct	Historical	915,140	4.236%	38,763	-	38,763
284	2020	Conservation	Historical	316,820	3.569%	11,306	-	11,306
285	2020	Construction	Historical	18,540	2.200%	408	-	408
286	2020	Fish and Wildlife	Historical	278,280	4.085%	11,366	-	11,366
287	2020	Float	Historical	-	-	(4,617)	-	(4,617)
288	FY 2020	<b>Subtotal:</b>		<b>6,024,740</b>		<b>306,485</b>	-	<b>306,485</b>
289	2021	Albeni Falls	Historical	1,100,118	4.516%	49,684	-	49,684
290	2021	Boise	Historical	4,425	6.657%	295	-	295
291	2021	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
292	2021	Bonneville Dam	Historical	151,458	5.488%	8,312	-	<b>8,312</b>
293	2021	Chief Joseph	Historical	238,242	6.818%	16,243	-	16,243
294	2021	Columbia Basin	Historical	95,235	5.767%	5,492	-	5,492
295	2021	Columbia Basin 3rd Powerhouse	Historical	444,111	7.151%	31,757	-	31,757
296	2021	Columbia River Fish Mitigation	Historical	1,365,340	4.403%	60,111	-	60,111
297	2021	Cougar	Historical	12,638	5.129%	648	-	648
298	2021	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
299	2021	Dworshak	Historical	14,095	6.332%	892	-	892
300	2021	Green Peter/Foster	Historical	356	5.142%	18	-	18
301	2021	Hills Creek	Historical	2,867	5.972%	171	-	171
302	2021	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
303	2021	Ice Harbor	Historical	36,219	6.319%	2,289	-	2,289
304	2021	John Day	Historical	30,292	5.438%	1,647	-	1,647
305	2021	Libby	Historical	187,570	7.090%	13,298	-	13,298
306	2021	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
307	2021	Lookout Dam	Historical	13,543	5.467%	740	-	740
308	2021	Lost Creek	Historical	14,884	6.936%	1,032	-	1,032
309	2021	Lower Granite	Historical	55,126	6.674%	3,679	-	3,679
310	2021	Lower Monument	Historical	53,104	6.792%	3,607	-	3,607
311	2021	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	-	16,525
312	2021	McNary	Historical	13,718	5.201%	713	-	713
313	2021	Minidoka/Palmsades	Historical	50,964	7.148%	3,643	-	3,643
314	2021	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
315	2021	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
316	2021	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
317	2021	Yakima Roza	Historical	14	5.892%	1	-	1
318	2021	Bureau Direct	Historical	755,140	4.356%	32,891	-	32,891
319	2021	Conservation	Historical	316,820	3.569%	11,306	-	11,306
320	2021	Fish and Wildlife	Historical	278,280	4.085%	11,366	-	11,366
321	2021	Float	Historical	-	-	(4,814)	-	(4,814)
322	FY 2021	<b>Subtotal:</b>		<b>5,970,344</b>		<b>306,200</b>	-	<b>306,200</b>
323	2022	Albeni Falls	Historical	1,275,697	4.515%	57,603	-	57,603
324	2022	Boise	Historical	4,425	6.657%	295	-	295
325	2022	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
326	2022	Bonneville Dam	Historical	151,458	5.488%	8,312	-	8,312
327	2022	Chief Joseph	Historical	238,242	6.818%	16,243	-	16,243
328	2022	Columbia Basin	Historical	95,163	5.766%	5,487	-	5,487
329	2022	Columbia Basin 3rd Powerhouse	Historical	411,264	7.150%	29,405	-	29,405
330	2022	Columbia River Fish Mitigation	Historical	1,365,340	4.403%	60,111	-	60,111
331	2022	Cougar	Historical	12,638	5.129%	648	-	648
332	2022	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
333	2022	Dworshak	Historical	14,095	6.332%	892	-	892
334	2022	Green Peter/Foster	Historical	356	5.142%	18	-	18
335	2022	Hills Creek	Historical	2,867	5.972%	171	-	171
336	2022	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
337	2022	Ice Harbor	Historical	25,055	5.949%	1,490	-	1,490
338	2022	John Day	Historical	30,292	5.438%	1,647	-	1,647
339	2022	Libby	Historical	23,079	6.658%	1,537	-	1,537
340	2022	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
341	2022	Lookout Dam	Historical	13,543	5.467%	740	-	740
342	2022	Lost Creek	Historical	14,884	6.936%	1,032	-	1,032
343	2022	Lower Granite	Historical	55,126	6.674%	3,679	-	3,679
344	2022	Lower Monument	Historical	53,104	6.792%	3,607	-	3,607
345	2022	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	-	16,525
346	2022	McNary	Historical	13,367	5.149%	688	-	688
347	2022	Minidoka/Palmsades	Historical	50,964	7.148%	3,643	-	3,643
348	2022	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
349	2022	The Dalles	Historical	45,827	5.243%	2,403	-	2,403

**TABLE 12A: Interest Calculation Summary**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
(\$000s) (FY 2014)

	A	B	D	E	F	G	H	
	Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total
350	2022	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
351	2022	Yakima Roza	Historical	14	5.892%	1	-	1
352	2022	Bureau Direct	Historical	708,140	4.414%	31,257	-	31,257
353	2022	Conservation	Historical	306,820	3.573%	10,962	-	10,962
354	2022	Fish and Wildlife	Historical	278,280	4.085%	11,366	-	11,366
355	2022	Float	Historical	-	-	(4,764)	-	(4,764)
356	FY 2022	<b>Subtotal:</b>		<b>5,679,998</b>		<b>297,250</b>	-	<b>297,250</b>
357	2023	Albeni Falls	Historical	1,444,324	4.515%	65,208	-	65,208
358	2023	Boise	Historical	4,425	6.657%	295	-	295
359	2023	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
360	2023	Bonneville Dam	Historical	135,788	5.296%	7,192	-	7,192
361	2023	Chief Joseph	Historical	207,730	6.769%	14,061	-	14,061
362	2023	Columbia Basin	Historical	95,163	5.766%	5,487	-	5,487
363	2023	Columbia Basin 3rd Powerhouse	Historical	305,133	7.150%	21,817	-	21,817
364	2023	Columbia River Fish Mitigation	Historical	1,365,340	4.403%	60,111	-	60,111
365	2023	Cougar	Historical	12,638	5.129%	648	-	648
366	2023	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
367	2023	Dworshak	Historical	14,095	6.332%	892	-	892
368	2023	Green Peter/Foster	Historical	356	5.142%	18	-	18
369	2023	Hills Creek	Historical	2,867	5.972%	171	-	171
370	2023	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
371	2023	Ice Harbor	Historical	15,498	5.208%	807	-	807
372	2023	John Day	Historical	30,292	5.438%	1,647	-	1,647
373	2023	Libby	Historical	23,079	6.658%	1,537	-	1,537
374	2023	Little Goose	Historical	14,165	6.073%	860	-	860
375	2023	Lookout Dam	Historical	13,543	5.467%	740	-	740
376	2023	Lost Creek	Historical	1,091	4.230%	46	-	46
377	2023	Lower Granite	Historical	14,515	5.342%	775	-	775
378	2023	Lower Monument	Historical	53,104	6.792%	3,607	-	3,607
379	2023	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	-	16,525
380	2023	McNary	Historical	13,367	5.149%	688	-	688
381	2023	Minidoka/Palisades	Historical	50,964	7.148%	3,643	-	3,643
382	2023	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
383	2023	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
384	2023	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
385	2023	Yakima Roza	Historical	14	5.892%	1	-	1
386	2023	Bureau Direct	Historical	708,140	4.414%	31,257	-	31,257
387	2023	Conservation	Historical	306,820	3.573%	10,962	-	10,962
388	2023	Fish and Wildlife	Historical	278,280	4.085%	11,366	-	11,366
389	2023	Float	Historical	-	-	(4,771)	-	(4,771)
390	FY 2023	<b>Subtotal:</b>		<b>5,782,726</b>		<b>285,836</b>	-	<b>285,836</b>
391	2024	Albeni Falls	Historical	1,612,951	4.514%	72,813	-	72,813
392	2024	Boise	Historical	4,425	6.657%	295	-	295
393	2024	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
394	2024	Bonneville Dam	Historical	135,788	5.296%	7,192	-	7,192
395	2024	Chief Joseph	Historical	114,208	6.457%	7,375	-	7,375
396	2024	Columbia Basin	Historical	95,163	5.766%	5,487	-	5,487
397	2024	Columbia Basin 3rd Powerhouse	Historical	260,874	7.150%	18,653	-	18,653
398	2024	Columbia River Fish Mitigation	Historical	1,365,340	4.403%	60,111	-	60,111
399	2024	Cougar	Historical	12,638	5.129%	648	-	648
400	2024	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
401	2024	Dworshak	Historical	14,095	6.332%	892	-	892
402	2024	Green Peter/Foster	Historical	356	5.142%	18	-	18
403	2024	Hills Creek	Historical	2,867	5.972%	171	-	171
404	2024	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
405	2024	Ice Harbor	Historical	15,498	5.208%	807	-	807
406	2024	John Day	Historical	30,292	5.438%	1,647	-	1,647
407	2024	Libby	Historical	22,927	6.655%	1,526	-	1,526
408	2024	Little Goose	Historical	14,165	6.073%	860	-	860
409	2024	Lookout Dam	Historical	13,543	5.467%	740	-	740
410	2024	Lost Creek	Historical	1,091	4.230%	46	-	46
411	2024	Lower Granite	Historical	12,964	5.125%	664	-	664
412	2024	Lower Monument	Historical	53,072	6.791%	3,604	-	3,604
413	2024	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	-	16,525
414	2024	McNary	Historical	13,367	5.149%	688	-	688
415	2024	Minidoka/Palisades	Historical	50,964	7.148%	3,643	-	3,643
416	2024	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
417	2024	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
418	2024	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
419	2024	Yakima Roza	Historical	14	5.892%	1	-	1
420	2024	Bureau Direct	Historical	683,140	4.415%	30,159	-	30,159
421	2024	Conservation	Historical	191,820	3.485%	6,685	-	6,685
422	2024	Fish and Wildlife	Historical	278,280	4.085%	11,366	-	11,366
423	2024	Float	Historical	-	-	(5,423)	-	(5,423)
424	FY 2024	<b>Subtotal:</b>		<b>5,671,837</b>		<b>277,439</b>	-	<b>277,439</b>
425	2025	Albeni Falls	Historical	1,781,578	4.514%	80,418	-	80,418
426	2025	Boise	Historical	4,425	6.657%	295	-	295
427	2025	Bonneville 2nd Powerhouse	Historical	264,230	7.150%	18,892	-	18,892
428	2025	Bonneville Dam	Historical	135,248	5.289%	7,153	-	7,153
429	2025	Chief Joseph	Historical	37,564	5.043%	1,894	-	1,894
430	2025	Columbia Basin	Historical	94,803	5.760%	5,461	-	5,461
431	2025	Columbia Basin 3rd Powerhouse	Historical	161,090	7.150%	11,518	-	11,518
432	2025	Columbia River Fish Mitigation	Historical	1,365,340	4.403%	60,111	-	60,111
433	2025	Cougar	Historical	12,638	5.129%	648	-	648
434	2025	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
435	2025	Dworshak	Historical	13,668	6.307%	862	-	862
436	2025	Green Peter/Foster	Historical	356	5.142%	18	-	18

**TABLE 12A: Interest Calculation Summary**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
(\$000s) (FY 2014)

	A	B	D	E	F	G	H	
	Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total
437	2025	Hills Creek	Historical	2,867	5.972%	171	-	171
438	2025	Hungry Horse Dam	Historical	11,537	6.142%	709	-	709
439	2025	Ice Harbor	Historical	15,420	5.198%	802	-	802
440	2025	John Day	Historical	30,292	5.438%	1,647	-	1,647
441	2025	Libby	Historical	22,777	6.652%	1,515	-	1,515
442	2025	Little Goose	Historical	14,165	6.073%	860	-	860
443	2025	Lookout Dam	Historical	13,543	5.467%	740	-	740
444	2025	Lost Creek	Historical	1,060	4.144%	44	-	44
445	2025	Lower Granite	Historical	12,758	5.092%	650	-	650
446	2025	Lower Monument	Historical	12,179	5.587%	680	-	680
447	2025	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	-	16,525
448	2025	McNary	Historical	13,337	5.145%	686	-	686
449	2025	Minidoka/Palisades	Historical	50,964	7.148%	3,643	-	3,643
450	2025	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
451	2025	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
452	2025	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
453	2025	Yakima Roza	Historical	14	5.892%	1	-	1
454	2025	Bureau Direct	Historical	683,140	4.415%	30,159	-	30,159
455	2025	Conservation	Historical	176,820	3.544%	6,267	-	6,267
456	2025	Fish and Wildlife	Historical	258,280	4.048%	10,455	-	10,455
457	2025	Float	Historical	-	-	(7,338)	-	(7,338)
458	FY 2025	<b>Subtotal:</b>		<b>5,482,024</b>		<b>256,674</b>		<b>256,674</b>
459	2026	Albeni Falls	Historical	1,950,205	4.514%	88,023	-	88,023
460	2026	Boise	Historical	4,425	6.657%	295	-	295
461	2026	Bonneville 2nd Powerhouse	Historical	9,867	7.150%	705	-	705
462	2026	Bonneville Dam	Historical	135,248	5.289%	7,153	-	7,153
463	2026	Chief Joseph	Historical	37,564	5.043%	1,894	-	1,894
464	2026	Columbia Basin	Historical	94,803	5.760%	5,461	-	5,461
465	2026	Columbia Basin 3rd Powerhouse	Historical	12,631	7.150%	903	-	903
466	2026	Columbia River Fish Mitigation	Historical	1,365,340	4.403%	60,111	-	60,111
467	2026	Cougar	Historical	12,638	5.129%	648	-	648
468	2026	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
469	2026	Dworshak	Historical	13,668	6.307%	862	-	862
470	2026	Green Peter/Foster	Historical	356	5.142%	18	-	18
471	2026	Hills Creek	Historical	2,867	5.972%	171	-	171
472	2026	Hungry Horse Dam	Historical	11,537	6.142%	709	-	709
473	2026	Ice Harbor	Historical	15,049	5.150%	775	-	775
474	2026	John Day	Historical	30,097	5.427%	1,633	-	1,633
475	2026	Libby	Historical	7,996	5.731%	458	-	458
476	2026	Little Goose	Historical	12,965	5.974%	774	-	774
477	2026	Lookout Dam	Historical	13,543	5.467%	740	-	740
478	2026	Lost Creek	Historical	1,060	4.144%	44	-	44
479	2026	Lower Granite	Historical	12,758	5.092%	650	-	650
480	2026	Lower Monument	Historical	11,915	5.533%	662	-	662
481	2026	Lower Snake Fish and Wildlife	Historical	99,064	7.050%	6,984	-	6,984
482	2026	McNary	Historical	13,337	5.145%	686	-	686
483	2026	Minidoka/Palisades	Historical	50,964	7.148%	3,643	-	3,643
484	2026	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
485	2026	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
486	2026	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
487	2026	Yakima Roza	Historical	14	5.892%	1	-	1
488	2026	Bureau Direct	Historical	683,140	4.415%	30,159	162	30,321
489	2026	Conservation	Historical	130,620	3.611%	4,717	-	4,717
490	2026	Fish and Wildlife	Historical	258,280	4.048%	10,455	-	10,455
491	2026	Float	Historical	-	-	(7,340)	-	(7,340)
492	FY 2026	<b>Subtotal:</b>		<b>5,051,364</b>		<b>225,181</b>	<b>162</b>	<b>225,343</b>
493	2027	Albeni Falls	Historical	2,116,322	4.510%	95,449	-	95,449
494	2027	Boise	Historical	1,060	5.091%	54	-	54
495	2027	Bonneville Dam	Historical	104,355	5.009%	5,227	-	5,227
496	2027	Chief Joseph	Historical	29,250	4.459%	1,304	-	1,304
497	2027	Columbia Basin	Historical	18,651	4.819%	899	-	899
498	2027	Columbia River Fish Mitigation	Historical	1,270,453	4.242%	53,887	-	53,887
499	2027	Cougar	Historical	12,612	5.125%	646	-	646
500	2027	Detroit Lake/Big Cliff	Historical	1,272	5.130%	65	-	65
501	2027	Dworshak	Historical	4,865	4.780%	233	-	233
502	2027	Green Peter/Foster	Historical	131	3.621%	5	-	5
503	2027	Hills Creek	Historical	202	3.816%	8	-	8
504	2027	Hungry Horse Dam	Historical	4,666	4.808%	224	-	224
505	2027	Ice Harbor	Historical	13,670	5.060%	692	-	692
506	2027	John Day	Historical	18,240	4.505%	822	-	822
507	2027	Libby	Historical	1,774	4.752%	84	-	84
508	2027	Little Goose	Historical	3,455	4.436%	153	-	153
509	2027	Lookout Dam	Historical	8,373	5.052%	423	-	423
510	2027	Lost Creek	Historical	795	3.378%	27	-	27
511	2027	Lower Granite	Historical	9,423	4.638%	437	-	437
512	2027	Lower Monument	Historical	6,717	4.944%	332	-	332
513	2027	Lower Snake Fish and Wildlife	Historical	3,349	4.770%	160	-	160
514	2027	McNary	Historical	11,656	4.970%	579	-	579
515	2027	Minidoka/Palisades	Historical	11	3.351%	-	-	-
516	2027	The Dalles	Historical	41,247	5.096%	2,102	-	2,102
517	2027	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
518	2027	Bureau Direct	Historical	678,369	4.404%	29,873	3,166	33,039
519	2027	Conservation	Historical	55,000	3.840%	2,112	-	2,112
520	2027	Fish and Wildlife	Historical	178,280	3.895%	6,945	36	6,981
521	2027	Float	Historical	-	-	(7,430)	-	(7,430)
522	FY 2027	<b>Subtotal:</b>		<b>4,595,046</b>		<b>195,356</b>	<b>3,202</b>	<b>198,558</b>



**TABLE 12A: Interest Calculation Summary**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
(\$000s) (FY 2014)

	A	B	D	E	F	G	H	
	Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total
523	2028	Albeni Falls	Historical	2,284,468	4.510%	103,029	-	103,029
524	2028	Boise	Historical	17	4.499%	1	-	1
525	2028	Bonneville Dam	Historical	17,759	3.998%	710	-	710
526	2028	Chief Joseph	Historical	24,755	4.374%	1,083	-	1,083
527	2028	Columbia Basin	Historical	5,925	4.217%	250	-	250
528	2028	Columbia River Fish Mitigation	Historical	976,403	3.969%	38,755	-	38,755
529	2028	Cougar	Historical	740	3.917%	29	-	29
530	2028	Dworshak	Historical	2,553	4.379%	112	-	112
531	2028	Green Peter/Foster	Historical	131	3.621%	5	-	5
532	2028	Hills Creek	Historical	154	3.408%	5	-	5
533	2028	Hungry Horse Dam	Historical	1,345	4.067%	55	-	55
534	2028	Ice Harbor	Historical	3,755	4.201%	158	-	158
535	2028	John Day	Historical	8,840	3.669%	324	-	324
536	2028	Libby	Historical	207	3.822%	8	-	8
537	2028	Little Goose	Historical	3,202	4.374%	140	-	140
538	2028	Lookout Dam	Historical	311	3.397%	11	-	11
539	2028	Lost Creek	Historical	795	3.378%	27	-	27
540	2028	Lower Granite	Historical	6,833	4.353%	297	-	297
541	2028	Lower Monument	Historical	2,707	4.355%	118	-	118
542	2028	Lower Snake Fish and Wildlife	Historical	2,046	4.361%	89	-	89
543	2028	McNary	Historical	4,656	4.406%	205	-	205
544	2028	Minidoka/Palisades	Historical	11	3.351%	-	-	-
545	2028	The Dalles	Historical	2,030	4.500%	91	-	91
546	2028	Yakima Chandler/Kenniwick	Historical	15	4.370%	1	-	1
547	2028	Bureau Direct	Historical	528,105	4.236%	22,368	2,380	24,748
548	2028	Conservation	Historical	55,000	3.840%	2,112	-	2,112
549	2028	Fish and Wildlife	Historical	157,280	3.856%	6,065	-	6,065
550	2028	Float	Historical	-	-	(7,567)	-	(7,567)
551	FY 2028	<b>Subtotal:</b>		<b>4,090,044</b>		<b>168,481</b>	<b>2,380</b>	<b>170,861</b>
552	2029	Albeni Falls	Historical	1,908,181	4.510%	86,059	-	86,059
553	2029	Boise	Historical	17	4.499%	1	-	1
554	2029	Bonneville Dam	Historical	17,759	3.998%	710	-	710
555	2029	Chief Joseph	Historical	24,755	4.374%	1,083	-	1,083
556	2029	Columbia Basin	Historical	5,925	4.217%	250	-	250
557	2029	Columbia River Fish Mitigation	Historical	976,403	3.969%	38,755	-	38,755
558	2029	Cougar	Historical	740	3.917%	29	-	29
559	2029	Dworshak	Historical	2,553	4.379%	112	-	112
560	2029	Green Peter/Foster	Historical	131	3.621%	5	-	5
561	2029	Hills Creek	Historical	154	3.408%	5	-	5
562	2029	Hungry Horse Dam	Historical	1,345	4.067%	55	-	55
563	2029	Ice Harbor	Historical	3,755	4.201%	158	-	158
564	2029	John Day	Historical	8,840	3.669%	324	-	324
565	2029	Libby	Historical	207	3.822%	8	-	8
566	2029	Little Goose	Historical	3,202	4.374%	140	-	140
567	2029	Lookout Dam	Historical	311	3.397%	11	-	11
568	2029	Lost Creek	Historical	795	3.378%	27	-	27
569	2029	Lower Granite	Historical	6,833	4.353%	297	-	297
570	2029	Lower Monument	Historical	2,707	4.355%	118	-	118
571	2029	Lower Snake Fish and Wildlife	Historical	2,046	4.361%	89	-	89
572	2029	McNary	Historical	4,656	4.406%	205	-	205
573	2029	Minidoka/Palisades	Historical	11	3.351%	-	-	-
574	2029	The Dalles	Historical	2,030	4.500%	91	-	91
575	2029	Yakima Chandler/Kenniwick	Historical	15	4.370%	1	-	1
576	2029	Bureau Direct	Historical	415,140	4.050%	16,812	-	16,812
577	2029	Conservation	Historical	55,000	3.840%	2,112	-	2,112
578	2029	Fish and Wildlife	Historical	107,280	3.766%	4,040	-	4,040
579	2029	Float	Historical	-	-	(7,599)	-	(7,599)
580	FY 2029	<b>Subtotal:</b>		<b>3,550,792</b>		<b>143,897</b>	-	<b>143,897</b>
581	2030	Albeni Falls	Historical	1,400,041	4.510%	63,142	-	63,142
582	2030	Boise	Historical	17	4.499%	1	-	1
583	2030	Bonneville Dam	Historical	17,759	3.998%	710	-	710
584	2030	Chief Joseph	Historical	24,755	4.374%	1,083	-	1,083
585	2030	Columbia Basin	Historical	5,925	4.217%	250	-	250
586	2030	Columbia River Fish Mitigation	Historical	976,403	3.969%	38,755	-	38,755
587	2030	Cougar	Historical	740	3.917%	29	-	29
588	2030	Dworshak	Historical	2,553	4.379%	112	-	112
589	2030	Green Peter/Foster	Historical	131	3.621%	5	-	5
590	2030	Hills Creek	Historical	154	3.408%	5	-	5
591	2030	Hungry Horse Dam	Historical	1,345	4.067%	55	-	55
592	2030	Ice Harbor	Historical	3,755	4.201%	158	-	158
593	2030	John Day	Historical	8,840	3.669%	324	-	324
594	2030	Libby	Historical	207	3.822%	8	-	8
595	2030	Little Goose	Historical	3,202	4.374%	140	-	140
596	2030	Lookout Dam	Historical	311	3.397%	11	-	11
597	2030	Lost Creek	Historical	795	3.377617937	27	-	27
598	2030	Lower Granite	Historical	6,833	4.353%	297	-	297
599	2030	Lower Monument	Historical	2,707	4.355%	118	-	118
600	2030	Lower Snake Fish and Wildlife	Historical	2,046	4.361%	89	-	89
601	2030	McNary	Historical	4,656	4.406%	205	-	205
602	2030	Minidoka/Palisades	Historical	11	3.351%	-	-	-
603	2030	The Dalles	Historical	2,030	4.500%	91	-	91
604	2030	Yakima Chandler/Kenniwick	Historical	15	4.370%	1	-	1
605	2030	Bureau Direct	Historical	415,140	4.050%	16,812	-	16,812
606	2030	Conservation	Historical	55,000	3.840%	2,112	-	2,112
607	2030	Fish and Wildlife	Historical	42,000	3.828%	1,608	-	1,608
608	2030	Float	Historical	-	-	(7,610)	-	(7,610)
609	FY 2030	<b>Subtotal:</b>		<b>2,977,372</b>		<b>118,538</b>	-	<b>118,538</b>

**TABLE 12A: Interest Calculation Summary**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
(\$000s) (FY 2014)

	A	B	D	E	F	G	H	
	Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total
610	2031	Albeni Falls	Historical	799,184	4.510%	36,043	-	36,043
611	2031	Boise	Historical	17	4.499%	1	-	1
612	2031	Bonneville Dam	Historical	17,759	3.998%	710	-	710
613	2031	Chief Joseph	Historical	24,755	4.374%	1,083	-	1,083
614	2031	Columbia Basin	Historical	5,925	4.217%	250	-	250
615	2031	Columbia River Fish Mitigation	Historical	976,403	3.969%	38,755	-	38,755
616	2031	Cougar	Historical	740	3.917%	29	-	29
617	2031	Dworshak	Historical	2,553	4.379%	112	-	112
618	2031	Green Peter/Foster	Historical	131	3.621%	5	-	5
619	2031	Hills Creek	Historical	154	3.408%	5	-	5
620	2031	Hungry Horse Dam	Historical	1,345	4.067%	55	-	55
621	2031	Ice Harbor	Historical	3,755	4.201%	158	-	158
622	2031	John Day	Historical	8,840	3.669%	324	-	324
623	2031	Libby	Historical	207	3.822%	8	-	8
624	2031	Little Goose	Historical	3,202	4.374%	140	-	140
625	2031	Lookout Dam	Historical	311	3.397%	11	-	11
626	2031	Lost Creek	Historical	795	3.378%	27	-	27
627	2031	Lower Granite	Historical	6,833	4.353%	297	-	297
628	2031	Lower Monument	Historical	2,707	4.355%	118	-	118
629	2031	Lower Snake Fish and Wildlife	Historical	2,046	4.361%	89	-	89
630	2031	McNary	Historical	4,656	4.406%	205	-	205
631	2031	Minidoka/Palisades	Historical	11	3.351%	-	-	-
632	2031	The Dalles	Historical	2,030	4.500%	91	-	91
633	2031	Yakima Chandler/Kenniwick	Historical	15	4.370%	1	-	1
634	2031	Bureau Direct	Historical	415,140	4.050%	16,812	-	16,812
635	2031	Conservation	Historical	55,000	3.840%	2,112	-	2,112
636	2031	Fish and Wildlife	Historical	42,000	3.828%	1,608	-	1,608
637	2031	Float	Historical	-	-	(7,610)	-	(7,610)
638	FY 2031	<b>Subtotal:</b>		<b>2,376,515</b>		<b>91,439</b>	-	<b>91,439</b>
639	2032	Albeni Falls	Historical	179,897	4.510%	8,113	-	8,113
640	2032	Boise	Historical	17	4.499%	1	-	1
641	2032	Bonneville Dam	Historical	17,759	3.998%	710	-	710
642	2032	Chief Joseph	Historical	24,755	4.374%	1,083	-	1,083
643	2032	Columbia Basin	Historical	5,925	4.217%	250	-	250
644	2032	Columbia River Fish Mitigation	Historical	976,403	3.969%	38,755	-	38,755
645	2032	Cougar	Historical	740	3.917%	29	-	29
646	2032	Dworshak	Historical	2,553	4.379%	112	-	112
647	2032	Green Peter/Foster	Historical	131	3.621%	5	-	5
648	2032	Hills Creek	Historical	154	3.408%	5	-	5
649	2032	Hungry Horse Dam	Historical	1,345	4.067%	55	-	55
650	2032	Ice Harbor	Historical	3,755	4.201%	158	-	158
651	2032	John Day	Historical	8,840	3.669%	324	-	324
652	2032	Libby	Historical	207	3.822%	8	-	8
653	2032	Little Goose	Historical	3,202	4.374%	140	-	140
654	2032	Lookout Dam	Historical	311	3.397%	11	-	11
655	2032	Lost Creek	Historical	795	3.378%	27	-	27
656	2032	Lower Granite	Historical	6,833	4.353%	297	-	297
657	2032	Lower Monument	Historical	2,707	4.355%	118	-	118
658	2032	Lower Snake Fish and Wildlife	Historical	2,046	4.361%	89	-	89
659	2032	McNary	Historical	4,656	4.406%	205	-	205
660	2032	Minidoka/Palisades	Historical	11	3.351%	-	-	-
661	2032	The Dalles	Historical	2,030	4.500%	91	-	91
662	2032	Yakima Chandler/Kenniwick	Historical	15	4.370%	1	-	1
663	2032	Bureau Direct	Historical	415,140	4.050%	16,812	222	17,035
664	2032	Conservation	Historical	55,000	3.840%	2,112	-	2,112
665	2032	Fish and Wildlife	Historical	42,000	3.828%	1,608	-	1,608
666	2032	Float	Historical	-	-	(7,610)	-	(7,610)
667	FY 2032	<b>Subtotal:</b>		<b>1,757,228</b>		<b>63,509</b>	<b>222</b>	<b>63,731</b>
668	2033	Albeni Falls	Historical	99	4.330%	4	-	4
669	2033	Bonneville Dam	Historical	15,131	3.910%	592	-	592
670	2033	Chief Joseph	Historical	24,755	4.374%	1,083	-	1,083
671	2033	Columbia Basin	Historical	2,600	3.918%	102	-	102
672	2033	Columbia River Fish Mitigation	Historical	559,953	3.586%	20,078	-	20,078
673	2033	Cougar	Historical	631	3.816%	24	-	24
674	2033	Green Peter/Foster	Historical	131	3.621%	5	-	5
675	2033	Hills Creek	Historical	154	3.408%	5	-	5
676	2033	Hungry Horse Dam	Historical	1,285	4.053%	52	-	52
677	2033	Ice Harbor	Historical	1,140	3.802%	43	-	43
678	2033	John Day	Historical	6,692	3.431%	230	-	230
679	2033	Libby	Historical	207	3.822%	8	-	8
680	2033	Little Goose	Historical	31	4.239%	1	-	1
681	2033	Lookout Dam	Historical	311	3.397%	11	-	11
682	2033	Lost Creek	Historical	795	3.378%	27	-	27
683	2033	Lower Granite	Historical	1,164	4.247%	49	-	49
684	2033	Lower Monument	Historical	89	3.375%	3	-	3
685	2033	Lower Snake Fish and Wildlife	Historical	1,667	4.329%	72	-	72

**TABLE 12B: Application of Amortization**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2014)**

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 2013	Conservation	-	1998	2013	52,800	52,800	5.600%	No	52,800
2	FY 2013	Conservation	-	2008	2013	10,000	10,000	3.701%	No	10,000
3	FY 2013	Fish and Wildlife	-	1998	2013	60,000	60,000	6.100%	No	60,000
4		<b>FY 2013 Subtotal:</b>	-	-	-	<b>122,800</b>	<b>122,800</b>	-	-	<b>122,800</b>
5	FY 2014	Conservation	-	2009	2014	15,000	15,000	2.746%	No	15,000
6	FY 2014	Construction	-	1999	2014	950	950	5.900%	No	950
7	FY 2014	Construction	-	2009	2014	14,000	14,000	2.746%	No	14,000
8	FY 2014	Dworshak	COE	1973	2014	138,443	76,000	7.190%	No	76,000
9	FY 2014	Conservation	-	2013	2016	9,000	9,000	5.000%	No	661
10		<b>FY 2014 Subtotal:</b>	-	-	-	<b>177,393</b>	<b>114,950</b>	-	-	<b>106,611</b>
11	FY 2015	Conservation	-	2010	2015	20,000	20,000	2.677%	No	20,000
12	FY 2015	Conservation	-	2010	2015	15,000	15,000	2.609%	No	15,000
13	FY 2015	Conservation	-	2010	2015	15,000	15,000	1.619%	No	15,000
14	FY 2015	Conservation	-	2012	2015	30,000	30,000	0.676%	No	30,000
15	FY 2015	Conservation	-	2012	2015	15,000	15,000	0.671%	No	15,000
16	FY 2015	Construction	-	2010	2015	5,000	5,000	1.619%	No	5,000
17	FY 2015	Construction	-	2012	2015	7,700	7,700	0.671%	No	7,700
18	FY 2015	Conservation	-	2013	2016	9,000	8,339	5.000%	No	3,451
19		<b>FY 2015 Subtotal:</b>	-	-	-	<b>116,700</b>	<b>116,039</b>	-	-	<b>111,151</b>
20	FY 2016	Conservation	-	2013	2016	9,000	4,888	5.000%	No	4,888
21	FY 2016	Construction	-	2011	2016	7,000	7,000	1.957%	No	7,000
22	FY 2016	Construction	-	2011	2016	3,500	3,500	1.423%	No	3,500
23		<b>FY 2016 Subtotal:</b>	-	-	-	<b>19,500</b>	<b>15,388</b>	-	-	<b>15,388</b>
24	FY 2017	Conservation	-	2013	2017	20,000	20,000	0.600%	No	20,000
25	FY 2017	Dworshak	COE	1973	2023	138,443	15,942	7.190%	No	2,040
26		<b>FY 2017 Subtotal:</b>	-	-	-	<b>158,443</b>	<b>35,942</b>	-	-	<b>22,040</b>
27	FY 2018	Dworshak	COE	1973	2023	138,443	13,902	7.190%	No	13,902
28	FY 2018	The Dalles	COE	1974	2024	7,268	7,240	7.170%	No	7,240
29	FY 2018	Lower Granite	COE	1975	2025	119,237	117,645	7.160%	No	8,243
30	FY 2018	Lower Granite	COE	1976	2025	510	510	7.160%	No	510
31	FY 2018	Lower Granite	COE	1977	2025	510	510	7.160%	No	510
32	FY 2018	Lower Granite	COE	1978	2025	510	510	7.160%	No	510
33	FY 2018	Lower Granite	COE	1979	2025	510	510	7.160%	No	510
34	FY 2018	Lower Granite	COE	1980	2025	510	510	7.160%	No	510
35	FY 2018	Lower Granite	COE	1981	2025	510	510	7.160%	No	510
36	FY 2018	Lower Granite	COE	1982	2025	510	510	7.160%	No	510
37	FY 2018	Lower Granite	COE	1983	2025	510	510	7.160%	No	510
38	FY 2018	Lower Granite	COE	1985	2025	328	328	7.160%	No	328
39	FY 2018	Lower Granite	COE	1986	2025	215	215	7.160%	No	215
40	FY 2018	Lower Granite	COE	1987	2025	8	8	7.160%	No	8
41	FY 2018	Lower Granite	COE	1995	2025	96	96	7.160%	No	96
42		<b>FY 2018 Subtotal:</b>	-	-	-	<b>269,675</b>	<b>143,514</b>	-	-	<b>34,112</b>
43	FY 2019	Bureau Direct	-	2009	2019	25,000	25,000	3.699%	No	25,000
44	FY 2019	Bureau Direct	-	2010	2019	24,000	24,000	3.719%	No	24,000
45	FY 2019	Bureau Direct	-	2010	2019	10,000	10,000	3.714%	No	10,000
46	FY 2019	Construction	-	2013	2019	7,610	7,610	1.800%	No	7,610
47	FY 2019	Construction	-	2013	2019	8,820	8,820	1.800%	No	8,820
48	FY 2019	Construction	-	2013	2019	6,300	6,300	1.100%	No	6,300
49	FY 2019	Fish and Wildlife	-	2010	2019	26,000	26,000	4.069%	No	26,000
50	FY 2019	Fish and Wildlife	-	2010	2019	20,000	20,000	2.646%	No	20,000
51	FY 2019	Libby	COE	1975	2025	54,644	48,138	7.160%	No	6,317
52	FY 2019	Lower Granite	COE	1975	2025	119,237	109,402	7.160%	No	109,402
53		<b>FY 2019 Subtotal:</b>	-	-	-	<b>301,611</b>	<b>285,270</b>	-	-	<b>243,449</b>
54	FY 2020	Bureau Direct	-	2010	2020	13,000	13,000	4.194%	No	13,000
55	FY 2020	Bureau Direct	-	2010	2020	30,000	30,000	4.083%	No	30,000
56	FY 2020	Bureau Direct	-	2010	2020	18,000	18,000	3.973%	No	18,000
57	FY 2020	Bureau Direct	-	2010	2020	20,000	20,000	3.842%	No	20,000
58	FY 2020	Bureau Direct	-	2010	2020	7,000	7,000	3.637%	No	7,000
59	FY 2020	Bureau Direct	-	2010	2020	15,000	15,000	3.574%	No	15,000
60	FY 2020	Bureau Direct	-	2010	2020	10,000	10,000	3.243%	No	10,000
61	FY 2020	Bureau Direct	-	2010	2020	30,000	30,000	3.243%	No	30,000
62	FY 2020	Bureau Direct	-	2010	2020	17,000	17,000	3.118%	No	17,000
63	FY 2020	Construction	-	2014	2020	4,140	4,140	2.200%	No	4,140
64	FY 2020	Construction	-	2014	2020	4,430	4,430	2.200%	No	4,430
65	FY 2020	Construction	-	2014	2020	4,830	4,830	2.200%	No	4,830
66	FY 2020	Construction	-	2014	2020	5,140	5,140	2.200%	No	5,140
67	FY 2020	Columbia Basin 3rd Powerhouse	BOR	1975	2025	8,702	7,435	7.160%	No	7,435
68	FY 2020	Columbia Basin 3rd Powerhouse	BOR	1975	2025	47,328	36,690	7.160%	No	3,843
69	FY 2020	Libby	COE	1975	2025	54,644	41,821	7.160%	No	41,821
70		<b>FY 2020 Subtotal:</b>	-	-	-	<b>289,214</b>	<b>264,466</b>	-	-	<b>231,640</b>
71	FY 2021	Bureau Direct	-	2009	2021	25,000	25,000	3.999%	No	25,000
72	FY 2021	Bureau Direct	-	2010	2021	22,000	22,000	2.883%	No	22,000
73	FY 2021	Conservation	-	2010	2021	10,000	10,000	3.440%	Yes	10,000
74	FY 2021	Columbia Basin 3rd Powerhouse	BOR	1975	2025	47,328	32,847	7.160%	No	32,847
75	FY 2021	Columbia Basin	BOR	1996	2026	72	72	7.150%	No	72
76	FY 2021	Ice Harbor	COE	1976	2026	228	228	7.150%	No	228
77	FY 2021	Ice Harbor	COE	1976	2026	20,472	20,472	7.150%	No	10,915
78	FY 2021	Ice Harbor	COE	1985	2026	21	21	7.150%	No	21
79	FY 2021	Libby	COE	1976	2026	153,432	153,432	7.150%	No	153,432
80	FY 2021	Libby	COE	1977	2026	1,465	1,465	7.150%	No	1,465
81	FY 2021	Libby	COE	1978	2026	1,465	1,465	7.150%	No	1,465
82	FY 2021	Libby	COE	1979	2026	1,465	1,465	7.150%	No	1,465

**TABLE 12B: Application of Amortization**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2014)**

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 2021 Libby	COE	1980	2026	1,465	1,465	7.150%	No	1,465
84	FY 2021 Libby	COE	1981	2026	1,465	1,465	7.150%	No	1,465
85	FY 2021 Libby	COE	1982	2026	1,465	1,465	7.150%	No	1,465
86	FY 2021 Libby	COE	1983	2026	1,465	1,465	7.150%	No	1,465
87	FY 2021 Libby	COE	1985	2026	518	518	7.150%	No	518
88	FY 2021 Libby	COE	1986	2026	283	283	7.150%	No	283
89	FY 2021 Libby	COE	1987	2026	2	2	7.150%	No	2
90	FY 2021 Libby	COE	1989	2026	1	1	7.150%	No	1
91	FY 2021 McNary	COE	1996	2026	74	74	7.150%	No	74
92	FY 2021 McNary	COE	1996	2026	277	277	7.150%	No	277
93	<b>FY 2021 Subtotal:</b>	-	-	-	<b>289,963</b>	<b>275,482</b>	-	-	<b>265,925</b>
94	FY 2022 Columbia Basin 3rd Powerhouse	BOR	1976	2026	8,037	8,037	7.150%	No	8,037
95	FY 2022 Columbia Basin 3rd Powerhouse	BOR	1976	2026	41,330	41,330	7.150%	No	41,330
96	FY 2022 Ice Harbor	COE	1976	2026	20,472	9,557	7.150%	No	9,557
97	FY 2022 Bonneville Dam	COE	1977	2027	15,670	15,670	7.150%	No	15,670
98	FY 2022 Chief Joseph	COE	1977	2027	30,512	30,512	7.150%	No	30,512
99	FY 2022 Columbia Basin 3rd Powerhouse	BOR	1977	2027	7,964	7,964	7.150%	No	7,964
100	FY 2022 Columbia Basin 3rd Powerhouse	BOR	1977	2027	42,764	42,764	7.150%	No	42,764
101	FY 2022 Lost Creek	COE	1977	2027	13,505	13,413	7.150%	No	13,413
102	FY 2022 Lost Creek	COE	1978	2027	58	58	7.150%	No	58
103	FY 2022 Lost Creek	COE	1979	2027	60	60	7.150%	No	60
104	FY 2022 Lost Creek	COE	1980	2027	60	60	7.150%	No	60
105	FY 2022 Lost Creek	COE	1981	2027	60	60	7.150%	No	60
106	FY 2022 Lost Creek	COE	1982	2027	60	60	7.150%	No	60
107	FY 2022 Lost Creek	COE	1983	2027	60	60	7.150%	No	60
108	FY 2022 Lost Creek	COE	1985	2027	12	12	7.150%	No	12
109	FY 2022 Lost Creek	COE	1986	2027	6	6	7.150%	No	6
110	FY 2022 Lost Creek	COE	1987	2027	4	4	7.150%	No	4
111	FY 2022 Columbia Basin 3rd Powerhouse	BOR	1978	2028	7,896	7,896	7.150%	No	6,036
112	FY 2022 Little Goose	COE	1978	2028	49,578	49,578	7.150%	No	49,578
113	FY 2022 Little Goose	COE	1985	2028	47	47	7.150%	No	47
114	FY 2022 Lower Granite	COE	1978	2028	40,611	40,611	7.150%	No	40,611
115	<b>FY 2022 Subtotal:</b>	-	-	-	<b>278,766</b>	<b>267,759</b>	-	-	<b>265,900</b>
116	FY 2023 Bureau Direct	-	2009	2023	25,000	25,000	4.391%	No	25,000
117	FY 2023 Conservation	-	2011	2023	40,000	40,000	4.046%	No	40,000
118	FY 2023 Conservation	-	2011	2023	35,000	35,000	3.932%	No	35,000
119	FY 2023 Conservation	-	2011	2023	40,000	40,000	3.206%	No	40,000
120	FY 2023 Chief Joseph	COE	1978	2028	75,669	75,669	7.150%	No	75,669
121	FY 2023 Columbia Basin 3rd Powerhouse	BOR	1978	2028	7,896	1,860	7.150%	No	1,860
122	FY 2023 Columbia Basin 3rd Powerhouse	BOR	1978	2028	42,399	42,399	7.150%	No	42,399
123	FY 2023 Chief Joseph	COE	1986	2029	5,363	5,363	7.150%	No	5,363
124	FY 2023 Chief Joseph	COE	1987	2029	3,036	3,036	7.150%	No	3,036
125	FY 2023 Chief Joseph	COE	1988	2029	2,722	2,722	7.150%	No	2,722
126	FY 2023 Chief Joseph	COE	1989	2029	2,227	2,227	7.150%	No	2,227
127	FY 2023 Chief Joseph	COE	1990	2029	4,505	4,505	7.150%	No	4,505
128	FY 2023 Libby	COE	1994	2029	286	152	7.150%	No	152
129	FY 2023 Lower Granite	COE	1994	2029	3,543	1,551	7.150%	No	1,551
130	FY 2023 Lower Monument	COE	1985	2029	256	256	7.150%	No	32
131	<b>FY 2023 Subtotal:</b>	-	-	-	<b>287,902</b>	<b>279,740</b>	-	-	<b>279,516</b>
132	FY 2024 Conservation	-	2012	2024	15,000	15,000	2.788%	No	15,000
133	FY 2024 Fish and Wildlife	-	2009	2024	20,000	20,000	4.556%	No	20,000
134	FY 2024 Chief Joseph	COE	1979	2029	60,079	60,079	7.150%	No	60,079
135	FY 2024 Chief Joseph	COE	1985	2029	16,372	16,372	7.150%	No	16,372
136	FY 2024 Columbia Basin 3rd Powerhouse	BOR	1979	2029	15,666	15,666	7.150%	No	15,666
137	FY 2024 Columbia Basin 3rd Powerhouse	BOR	1979	2029	84,118	84,118	7.150%	No	84,118
138	FY 2024 Lower Monument	COE	1979	2029	40,669	40,669	7.150%	No	40,669
139	FY 2024 Lower Monument	COE	1985	2029	256	224	7.150%	No	224
140	FY 2024 Dworshak	COE	1995	2030	218	218	7.150%	No	218
141	FY 2024 Hungry Horse Dam	BOR	1995	2030	536	536	7.150%	No	536
142	FY 2024 Hungry Horse Dam	BOR	1995	2030	1,198	1,195	7.150%	No	1,195
143	FY 2024 Libby	COE	1995	2030	15	15	7.150%	No	15
144	FY 2024 Libby	COE	1995	2030	41	41	7.150%	No	41
145	FY 2024 Libby	COE	1995	2030	94	94	7.150%	No	94
146	FY 2024 Bonneville 2nd Powerhouse	COE	1981	2031	455	455	7.150%	No	455
147	FY 2024 Bonneville 2nd Powerhouse	COE	1981	2031	40,964	40,964	7.150%	No	40,964
148	FY 2024 Bonneville Dam	COE	1996	2031	22	22	7.150%	No	22
149	FY 2024 Chief Joseph	COE	1996	2031	27	27	7.150%	No	27
150	FY 2024 Columbia Basin	BOR	1996	2031	109	109	7.150%	No	109
151	FY 2024 Columbia Basin	BOR	1996	2031	251	251	7.150%	No	251
152	FY 2024 Dworshak	COE	1996	2031	6	6	7.150%	No	6
153	FY 2024 Dworshak	COE	1996	2031	203	203	7.150%	No	203
154	FY 2024 Ice Harbor	COE	1996	2031	78	78	7.150%	No	78
155	FY 2024 Lost Creek	COE	1996	2031	31	31	7.150%	No	31
156	FY 2024 Lower Granite	COE	1996	2031	206	206	7.150%	No	206
157	FY 2024 Bonneville 2nd Powerhouse	COE	1982	2032	2,264	2,264	7.150%	No	2,264
158	FY 2024 Bonneville 2nd Powerhouse	COE	1982	2032	203,535	203,535	7.150%	No	58,883
159	FY 2024 Bonneville Dam	COE	1997	2032	518	518	7.150%	No	518
160	FY 2024 Chief Joseph	COE	1997	2032	166	166	7.150%	No	166
161	FY 2024 McNary	COE	1997	2032	30	30	7.150%	No	30
162	<b>FY 2024 Subtotal:</b>	-	-	-	<b>503,127</b>	<b>503,092</b>	-	-	<b>358,441</b>
163	FY 2025 Conservation	-	2013	2025	10,000	10,000	5.000%	No	10,000
164	FY 2025 Conservation	-	2013	2025	14,480	14,480	2.900%	No	14,480
165	FY 2025 Conservation	-	2013	2025	21,720	21,720	2.900%	No	21,720

**TABLE 12B: Application of Amortization**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2014)**

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	
166	FY 2025	Bonneville 2nd Powerhouse	COE	1982	2032	203,535	144,652	7.150%	No	144,652
167	FY 2025	Bonneville 2nd Powerhouse	COE	1983	2033	694	694	7.150%	No	694
168	FY 2025	Bonneville 2nd Powerhouse	COE	1983	2033	62,409	62,409	7.150%	No	62,409
169	FY 2025	Bonneville 2nd Powerhouse	COE	1985	2033	9,138	9,138	7.150%	No	9,138
170	FY 2025	Bonneville 2nd Powerhouse	COE	1986	2033	30,578	30,578	7.150%	No	30,578
171	FY 2025	Bonneville 2nd Powerhouse	COE	1987	2033	2,801	2,801	7.150%	No	2,801
172	FY 2025	Bonneville 2nd Powerhouse	COE	1988	2033	1,271	1,271	7.150%	No	1,271
173	FY 2025	Bonneville 2nd Powerhouse	COE	1989	2033	1,232	1,232	7.150%	No	1,232
174	FY 2025	Bonneville 2nd Powerhouse	COE	1990	2033	1,588	1,588	7.150%	No	1,588
175	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1983	2033	712	712	7.150%	No	712
176	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1983	2033	13,003	13,003	7.150%	No	13,003
177	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1984	2033	3,160	3,160	7.150%	No	3,160
178	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1984	2033	13,192	13,192	7.150%	No	13,192
179	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1984	2033	16,965	16,965	7.150%	No	16,965
180	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1985	2033	107	107	7.150%	No	107
181	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1985	2033	2,060	2,060	7.150%	No	2,060
182	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1985	2033	41,772	41,772	7.150%	No	41,772
183	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1986	2033	1,851	1,851	7.150%	No	1,851
184	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1986	2033	15,538	15,538	7.150%	No	15,538
185	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1987	2033	1,730	1,730	7.150%	No	1,730
186	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1987	2033	14,439	14,439	7.150%	No	14,439
187	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1988	2033	2,294	2,294	7.150%	No	2,294
188	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1988	2033	4,351	4,351	7.150%	No	4,351
189	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1989	2033	10,902	10,902	7.150%	No	10,902
190	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1990	2033	6,383	6,383	7.150%	No	6,383
191	FY 2025	Lower Snake Fish and Wildlife	LSFW	1983	2033	30,488	9,472	7.150%	No	9,472
192	FY 2025	John Day	COE	1995	2035	22	22	7.150%	No	22
193	FY 2025	John Day	COE	1995	2035	52	52	7.150%	No	52
194	FY 2025	John Day	COE	1995	2035	121	121	7.150%	No	121
195	FY 2025	Lower Snake Fish and Wildlife	LSFW	1985	2035	47,921	47,921	7.150%	No	47,921
196	FY 2025	Lower Monument	COE	1996	2036	264	264	7.150%	No	264
197	FY 2025	Lower Snake Fish and Wildlife	LSFW	1987	2037	72,536	72,536	7.150%	No	72,536
198	FY 2025	Libby	COE	1988	2038	18,043	14,781	7.150%	No	14,781
199	FY 2025	Lower Snake Fish and Wildlife	LSFW	1988	2038	805	805	7.150%	No	805
200	FY 2025	Little Goose	COE	1995	2040	17	17	7.150%	No	17
201	FY 2025	Little Goose	COE	1995	2040	450	450	7.150%	No	450
202	FY 2025	Little Goose	COE	1995	2040	733	733	7.150%	No	733
203	FY 2025	Lower Snake Fish and Wildlife	LSFW	1990	2040	1,557	1,557	7.150%	No	1,557
204	FY 2025	Ice Harbor	COE	1996	2041	371	371	7.150%	No	371
205	FY 2025	Lower Snake Fish and Wildlife	LSFW	1991	2041	4,411	4,411	7.150%	No	1,163
206		<b>FY 2025 Subtotal:</b>	-	-	-	<b>685,696</b>	<b>602,535</b>	-	-	<b>599,287</b>
207	FY 2026	Conservation	-	2014	2026	15,590	15,590	3.600%	No	15,590
208	FY 2026	Conservation	-	2014	2026	13,840	13,840	3.420%	No	13,840
209	FY 2026	Conservation	-	2014	2026	22,190	22,190	3.400%	No	22,190
210	FY 2026	Conservation	-	2014	2026	24,000	24,000	3.400%	No	24,000
211	FY 2026	Fish and Wildlife	-	2011	2026	50,000	50,000	4.440%	No	50,000
212	FY 2026	Fish and Wildlife	-	2011	2026	15,000	15,000	4.398%	No	15,000
213	FY 2026	Fish and Wildlife	-	2011	2026	15,000	15,000	4.205%	No	15,000
214	FY 2026	Lower Snake Fish and Wildlife	LSFW	1991	2041	4,411	3,248	7.150%	No	3,248
215	FY 2026	Bureau Direct	-	2013	2043	15,000	15,000	6.000%	No	4,771
216	FY 2026	Lower Snake Fish and Wildlife	LSFW	1993	2043	71,632	71,632	7.150%	No	71,632
217	FY 2026	Bonneville 2nd Powerhouse	COE	1994	2044	5,700	5,700	7.150%	No	5,700
218	FY 2026	Chief Joseph	COE	1994	2044	4,280	4,017	7.150%	No	4,017
219	FY 2026	Columbia Basin 3rd Powerhouse	BOR	1994	2044	12,631	12,631	7.150%	No	12,631
220	FY 2026	Lower Snake Fish and Wildlife	LSFW	1994	2044	4,722	4,722	7.150%	No	4,722
221	FY 2026	Albeni Falls	COE	1995	2045	443	443	7.150%	No	443
222	FY 2026	Albeni Falls	COE	1995	2045	531	531	7.150%	No	531
223	FY 2026	Albeni Falls	COE	1995	2045	1,105	1,105	7.150%	No	1,105
224	FY 2026	Bonneville 2nd Powerhouse	COE	1995	2045	3,791	3,791	7.150%	No	3,791
225	FY 2026	Bonneville Dam	COE	1995	2045	243	243	7.150%	No	243
226	FY 2026	Bonneville Dam	COE	1995	2045	410	410	7.150%	No	410
227	FY 2026	Bonneville Dam	COE	1995	2045	440	440	7.150%	No	440
228	FY 2026	Chief Joseph	COE	1995	2045	147	147	7.150%	No	147
229	FY 2026	Chief Joseph	COE	1995	2045	562	562	7.150%	No	562
230	FY 2026	Chief Joseph	COE	1995	2045	712	712	7.150%	No	712
231	FY 2026	Chief Joseph	COE	1995	2045	784	784	7.150%	No	784
232	FY 2026	Columbia Basin	BOR	1995	2045	287	287	7.150%	No	287
233	FY 2026	Columbia Basin	BOR	1995	2045	2,511	2,453	7.150%	No	2,453
234	FY 2026	Columbia River Fish Mitigation	COE	1995	2045	43,343	39,282	7.150%	No	39,282
235	FY 2026	Detroit Lake/Big Cliff	COE	1995	2045	38	38	7.150%	No	38
236	FY 2026	Dworshak	COE	1995	2045	1,162	1,162	7.150%	No	1,162
237	FY 2026	Hungry Horse Dam	BOR	1995	2045	6,190	6,190	7.150%	No	6,190
238	FY 2026	John Day	COE	1995	2045	37	37	7.150%	No	37
239	FY 2026	John Day	COE	1995	2045	608	608	7.150%	No	608
240	FY 2026	John Day	COE	1995	2045	7,653	7,653	7.150%	No	7,653
241	FY 2026	Lookout Dam	COE	1995	2045	33	33	7.150%	No	33
242	FY 2026	Lookout Dam	COE	1995	2045	80	39	7.150%	No	39
243	FY 2026	Lost Creek	COE	1995	2045	94	94	7.150%	No	94
244	FY 2026	Lower Monument	COE	1995	2045	41	41	7.150%	No	41
245	FY 2026	Lower Monument	COE	1995	2045	99	99	7.150%	No	99
246	FY 2026	Lower Monument	COE	1995	2045	624	624	7.150%	No	624
247	FY 2026	Lower Monument	COE	1995	2045	1,122	1,122	7.150%	No	1,122

**TABLE 12B: Application of Amortization**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2014)**

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
248	FY 2026 McNary	COE	1995	2045	16	16	7.150%	No	16
249	FY 2026 Boise	BOR	1996	2046	442	442	7.150%	No	442
250	FY 2026 Boise	BOR	1996	2046	656	656	7.150%	No	656
251	FY 2026 Bonneville 2nd Powerhouse	COE	1996	2046	376	376	7.150%	No	376
252	FY 2026 Bonneville Dam	COE	1996	2046	18	18	7.150%	No	18
253	FY 2026 Bonneville Dam	COE	1996	2046	18	18	7.150%	No	18
254	FY 2026 Bonneville Dam	COE	1996	2046	80	80	7.150%	No	80
255	FY 2026 Bonneville Dam	COE	1996	2046	109	109	7.150%	No	109
256	FY 2026 Bonneville Dam	COE	1996	2046	142	142	7.150%	No	142
257	FY 2026 Bonneville Dam	COE	1996	2046	223	223	7.150%	No	223
258	FY 2026 Bonneville Dam	COE	1996	2046	751	751	7.150%	No	751
259	FY 2026 Bonneville Dam	COE	1996	2046	1,322	1,322	7.150%	No	1,322
260	FY 2026 Chief Joseph	COE	1996	2046	3	3	7.150%	No	3
261	FY 2026 Chief Joseph	COE	1996	2046	4	4	7.150%	No	4
262	FY 2026 Chief Joseph	COE	1996	2046	355	355	7.150%	No	355
263	FY 2026 Chief Joseph	COE	1996	2046	729	729	7.150%	No	729
264	FY 2026 Columbia Basin	BOR	1996	2046	368	368	7.150%	No	368
265	FY 2026 Columbia Basin	BOR	1996	2046	426	426	7.150%	No	426
266	FY 2026 Columbia River Fish Mitigation	COE	1996	2046	2,431	2,431	7.150%	No	2,431
267	FY 2026 Dworshak	COE	1996	2046	3	3	7.150%	No	3
268	FY 2026 Dworshak	COE	1996	2046	4	4	7.150%	No	4
269	FY 2026 Dworshak	COE	1996	2046	46	46	7.150%	No	46
270	FY 2026 Green Peter/Foster	COE	1996	2046	26	26	7.150%	No	26
271	FY 2026 Hills Creek	COE	1996	2046	28	28	7.150%	No	28
272	FY 2026 Hungry Horse Dam	BOR	1996	2046	2	2	7.150%	No	2
273	FY 2026 Hungry Horse Dam	BOR	1996	2046	15	15	7.150%	No	15
274	FY 2026 Little Goose	COE	1996	2046	10	10	7.150%	No	10
275	FY 2026 Little Goose	COE	1996	2046	10	10	7.150%	No	10
276	FY 2026 Little Goose	COE	1996	2046	211	211	7.150%	No	211
277	FY 2026 Little Goose	COE	1996	2046	241	241	7.150%	No	241
278	FY 2026 Little Goose	COE	1996	2046	520	520	7.150%	No	520
279	FY 2026 Little Goose	COE	1996	2046	3,909	3,909	7.150%	No	3,909
280	FY 2026 Lost Creek	COE	1996	2046	24	24	7.150%	No	24
281	FY 2026 Lower Granite	COE	1996	2046	9	9	7.150%	No	9
282	FY 2026 Lower Granite	COE	1996	2046	625	625	7.150%	No	625
283	FY 2026 Lower Monument	COE	1996	2046	10	10	7.150%	No	10
284	FY 2026 Lower Snake Fish and Wildlife	LSFW	1996	2046	12,085	12,085	7.150%	No	12,085
285	FY 2026 McNary	COE	1996	2046	619	619	7.150%	No	619
286	FY 2026 The Dalles	COE	1996	2046	1,991	1,991	7.150%	No	1,991
287	FY 2026 Albeni Falls	COE	1997	2047	431	431	7.150%	No	431
288	FY 2026 Boise	BOR	1997	2047	2,266	2,266	7.150%	No	2,266
289	FY 2026 Bonneville Dam	COE	1997	2047	161	161	7.150%	No	161
290	FY 2026 Chief Joseph	COE	1997	2047	657	657	7.150%	No	657
291	FY 2026 Columbia Basin	BOR	1997	2047	3,393	3,393	7.150%	No	3,393
292	FY 2026 Cougar	COE	1997	2047	26	26	7.150%	No	26
293	FY 2026 Dworshak	COE	1997	2047	7,588	7,588	7.150%	No	7,588
294	FY 2026 Hungry Horse Dam	BOR	1997	2047	111	111	7.150%	No	111
295	FY 2026 Ice Harbor	COE	1997	2047	67	67	7.150%	No	67
296	FY 2026 John Day	COE	1997	2047	179	179	7.150%	No	179
297	FY 2026 Libby	COE	1997	2047	660	660	7.150%	No	660
298	FY 2026 Little Goose	COE	1997	2047	1	1	7.150%	No	1
299	FY 2026 Lower Granite	COE	1997	2047	677	677	7.150%	No	677
300	FY 2026 Lower Snake Fish and Wildlife	LSFW	1997	2047	2,173	2,173	7.150%	No	2,173
301	FY 2026 Minidoka/Palisades	BOR	1997	2047	50,911	50,911	7.150%	No	50,911
302	FY 2026 Bonneville Dam	COE	2000	2050	24,446	24,446	6.125%	No	24,446
303	FY 2026 Columbia River Fish Mitigation	COE	2000	2050	47,006	47,006	6.125%	No	47,006
304	FY 2026 Hills Creek	COE	2000	2050	2,630	2,630	6.125%	No	2,630
305	FY 2026 Ice Harbor	COE	2000	2050	548	548	6.125%	No	548
306	FY 2026 John Day	COE	2000	2050	2,761	2,761	6.125%	No	2,761
307	FY 2026 Lookout Dam	COE	2000	2050	5,098	5,098	6.125%	No	5,098
308	FY 2026 Lower Snake Fish and Wildlife	LSFW	2000	2050	1,529	1,529	6.125%	No	1,529
309	FY 2026 The Dalles	COE	2000	2050	2,588	2,588	6.125%	No	2,588
310	FY 2026 Bonneville Dam	COE	2001	2051	2,530	2,530	5.875%	No	2,530
311	FY 2026 Chief Joseph	COE	2001	2051	345	345	5.875%	No	345
312	FY 2026 Columbia Basin	BOR	2001	2051	69,226	69,226	5.875%	No	69,226
313	FY 2026 Columbia River Fish Mitigation	COE	2001	2051	6,168	6,168	5.875%	No	6,168
314	FY 2026 Detroit Lake/Big Cliff	COE	2001	2051	282	282	5.875%	No	282
315	FY 2026 Green Peter/Foster	COE	2001	2051	200	200	5.875%	No	200
316	FY 2026 Hills Creek	COE	2001	2051	8	8	5.875%	No	8
317	FY 2026 Hungry Horse Dam	BOR	2001	2051	552	552	5.875%	No	552
318	FY 2026 Ice Harbor	COE	2001	2051	764	764	5.875%	No	764
319	FY 2026 John Day	COE	2001	2051	619	619	5.875%	No	619
320	FY 2026 Libby	COE	2001	2051	5,562	5,562	5.875%	No	5,562
321	FY 2026 Little Goose	COE	2001	2051	4,608	4,608	5.875%	No	4,608
322	FY 2026 Lost Creek	COE	2001	2051	147	147	5.875%	No	147
323	FY 2026 Lower Granite	COE	2001	2051	2,025	2,025	5.875%	No	2,025
324	FY 2026 Lower Monument	COE	2001	2051	3,301	3,301	5.875%	No	3,301
325	FY 2026 Lower Snake Fish and Wildlife	LSFW	2001	2051	325	325	5.875%	No	325
326	FY 2026 McNary	COE	2001	2051	1,046	1,046	5.875%	No	1,046
327	FY 2026 Minidoka/Palisades	BOR	2001	2051	42	42	5.875%	No	42
328	FY 2026 Rogue River Projects - Green Springs	BOR	2001	2051	11,145	11,145	5.875%	No	11,145
329	FY 2026 Yakima Roza	BOR	2001	2051	15	14	5.875%	No	14

**TABLE 12B: Application of Amortization**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
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Fiscal Year	Project	Appropriation Type	In Service	Due Date	Original Principal	Current Balance	Rate	Rollover	Amount Amortized
330	FY 2027 Subtotal:	-	-	-	640,761	635,174	-	-	624,945
331	FY 2027 Bureau Direct	-	2012	2027	25,000	25,000	3.590%	No	25,000
332	FY 2027 Fish and Wildlife	-	2012	2027	11,000	11,000	3.090%	No	11,000
333	FY 2027 Fish and Wildlife	-	2013	2028	10,000	10,000	5.400%	No	10,000
334	FY 2027 Bureau Direct	-	2009	2039	25,000	25,000	5.192%	No	25,000
335	FY 2027 Bureau Direct	-	2011	2039	35,000	35,000	5.040%	No	35,000
336	FY 2027 Bureau Direct	-	2013	2043	15,000	10,229	6.000%	No	10,229
337	FY 2027 Bureau Direct	-	2013	2043	18,000	18,000	6.000%	No	18,000
338	FY 2027 Bureau Direct	-	2013	2043	70,000	70,000	5.000%	No	37,035
339	FY 2027 Bonneville Dam	COE	1999	2049	19,368	19,368	5.375%	No	19,368
340	FY 2027 Columbia River Fish Mitigation	COE	1999	2049	14,115	14,115	5.375%	No	14,115
341	FY 2027 Dworshak	COE	1999	2049	630	630	5.375%	No	630
342	FY 2027 Ice Harbor	COE	1999	2049	5,516	5,516	5.375%	No	5,516
343	FY 2027 John Day	COE	1999	2049	3,510	3,510	5.375%	No	3,510
344	FY 2027 Lower Granite	COE	1999	2049	856	856	5.375%	No	856
345	FY 2027 Lower Snake Fish and Wildlife	LSFW	1999	2049	7	7	5.375%	No	7
346	FY 2027 Bonneville Dam	COE	2002	2052	448	448	5.500%	No	448
347	FY 2027 Chief Joseph	COE	2002	2052	2	2	5.500%	No	2
348	FY 2027 Columbia River Fish Mitigation	COE	2002	2052	8,797	8,797	5.500%	No	8,797
349	FY 2027 Detroit Lake/Big Cliff	COE	2002	2052	18	18	5.500%	No	18
350	FY 2027 Dworshak	COE	2002	2052	199	199	5.500%	No	199
351	FY 2027 Hills Creek	COE	2002	2052	2	2	5.500%	No	2
352	FY 2027 Ice Harbor	COE	2002	2052	1,014	1,014	5.500%	No	1,014
353	FY 2027 Little Goose	COE	2002	2052	27	27	5.500%	No	27
354	FY 2027 Lower Granite	COE	2002	2052	1,275	1,275	5.500%	No	1,275
355	FY 2027 Lower Monument	COE	2002	2052	29	29	5.500%	No	29
356	FY 2027 Lower Snake Fish and Wildlife	LSFW	2002	2052	890	890	5.500%	No	890
357	FY 2027 The Dalles	COE	2002	2052	1,226	1,226	5.500%	No	1,226
358	FY 2027 Bonneville Dam	COE	2003	2053	4,581	4,581	5.125%	No	4,581
359	FY 2027 Chief Joseph	COE	2003	2053	992	992	5.125%	No	992
360	FY 2027 Columbia River Fish Mitigation	COE	2003	2053	68,440	68,440	5.125%	No	68,440
361	FY 2027 Detroit Lake/Big Cliff	COE	2003	2053	223	223	5.125%	No	223
362	FY 2027 Dworshak	COE	2003	2053	761	761	5.125%	No	761
363	FY 2027 Ice Harbor	COE	2003	2053	50	50	5.125%	No	50
364	FY 2027 Little Goose	COE	2003	2053	146	146	5.125%	No	146
365	FY 2027 Lookout Dam	COE	2003	2053	135	135	5.125%	No	135
366	FY 2027 Lower Granite	COE	2003	2053	42	42	5.125%	No	42
367	FY 2027 Lower Monument	COE	2003	2053	22	22	5.125%	No	22
368	FY 2027 Lower Snake Fish and Wildlife	LSFW	2003	2053	98	98	5.125%	No	98
369	FY 2027 McNary	COE	2003	2053	97	97	5.750%	No	97
370	FY 2027 Bonneville Dam	COE	2004	2054	26,741	26,741	5.375%	No	26,741
371	FY 2027 Columbia River Fish Mitigation	COE	2004	2054	60,581	60,581	5.375%	No	60,581
372	FY 2027 Cougar	COE	2004	2054	3,622	3,622	5.375%	No	3,622
373	FY 2027 Ice Harbor	COE	2004	2054	3,321	3,321	5.375%	No	3,321
374	FY 2027 John Day	COE	2004	2054	2,830	2,830	5.375%	No	2,830
375	FY 2027 Little Goose	COE	2004	2054	67	67	5.375%	No	67
376	FY 2027 Lower Monument	COE	2004	2054	3,423	3,423	5.375%	No	3,423
377	FY 2027 Lower Snake Fish and Wildlife	LSFW	2004	2054	230	230	5.375%	No	230
378	FY 2027 McNary	COE	2004	2054	6,138	6,138	5.375%	No	6,138
379	FY 2027 The Dalles	COE	2004	2054	182	182	5.375%	No	182
380	FY 2027 Albeni Falls	COE	2005	2055	481	481	5.125%	No	481
381	FY 2027 Boise	BOR	2005	2055	903	903	5.125%	No	903
382	FY 2027 Bonneville Dam	COE	2005	2055	19,725	19,725	5.125%	No	19,725
383	FY 2027 Columbia Basin	BOR	2005	2055	10,963	10,963	5.125%	No	10,963
384	FY 2027 Columbia River Fish Mitigation	COE	2005	2055	52,039	52,039	5.125%	No	52,039
385	FY 2027 Cougar	COE	2005	2055	8,130	8,130	5.125%	No	8,130
386	FY 2027 Detroit Lake/Big Cliff	COE	2005	2055	1,031	1,031	5.125%	No	1,031
387	FY 2027 Dworshak	COE	2005	2055	713	713	5.125%	No	713
388	FY 2027 Hills Creek	COE	2005	2055	46	46	5.125%	No	46
389	FY 2027 Hungry Horse Dam	BOR	2005	2055	2,951	2,951	5.125%	No	2,951
390	FY 2027 John Day	COE	2005	2055	2,827	2,827	5.125%	No	2,827
391	FY 2027 Lookout Dam	COE	2005	2055	7,355	7,355	5.125%	No	7,355
392	FY 2027 Lower Granite	COE	2005	2055	393	393	5.125%	No	393
393	FY 2027 Lower Monument	COE	2005	2055	527	527	5.125%	No	527
394	FY 2027 Lower Snake Fish and Wildlife	LSFW	2005	2055	4	4	5.125%	No	4
395	FY 2027 McNary	COE	2005	2055	550	550	5.125%	No	550
396	FY 2027 The Dalles	COE	2005	2055	36,019	36,019	5.125%	No	36,019
397	FY 2027 Yakima Chandler/Kennwick	BOR	2005	2055	833	833	5.125%	No	833
398	FY 2027 Boise	BOR	2007	2057	76	76	5.000%	No	76
399	FY 2027 Bonneville Dam	COE	2007	2057	1,124	1,124	5.000%	No	1,124
400	FY 2027 Columbia Basin	BOR	2007	2057	929	929	5.000%	No	929
401	FY 2027 Columbia River Fish Mitigation	COE	2007	2057	53,525	53,525	5.000%	No	53,525
402	FY 2027 Cougar	COE	2007	2057	120	120	5.000%	No	120
403	FY 2027 Hungry Horse Dam	BOR	2007	2057	294	294	5.000%	No	294
404	FY 2027 John Day	COE	2007	2057	233	233	5.000%	No	233
405	FY 2027 Lookout Dam	COE	2007	2057	572	572	5.000%	No	572
406	FY 2027 The Dalles	COE	2007	2057	140	140	5.000%	No	140
407	FY 2027 Boise	BOR	2008	2058	64	64	4.875%	No	64

**TABLE 12B: Application of Amortization**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2014)**

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	
408	FY 2027	Bonneville Dam	COE	2008	2058	14,609	14,609	4.875%	No	14,609
409	FY 2027	Chief Joseph	COE	2008	2058	3,500	3,500	4.875%	No	3,500
410	FY 2027	Columbia Basin	BOR	2008	2058	835	835	4.875%	No	835
411	FY 2027	Columbia River Fish Mitigation	COE	2008	2058	36,554	36,554	4.875%	No	36,554
412	FY 2027	Dworshak	COE	2008	2058	10	10	4.875%	No	10
413	FY 2027	Hungry Horse Dam	BOR	2008	2058	76	76	4.875%	No	76
414	FY 2027	Ice Harbor	COE	2008	2058	14	14	4.875%	No	14
415	FY 2027	Libby	COE	2008	2058	1,567	1,567	4.875%	No	1,567
416	FY 2027	Little Goose	COE	2008	2058	13	13	4.875%	No	13
417	FY 2027	Lower Granite	COE	2008	2058	24	24	4.875%	No	24
418	FY 2027	Lower Monument	COE	2008	2058	9	9	4.875%	No	9
419	FY 2027	Lower Snake Fish and Wildlife	LSFW	2008	2058	74	74	4.875%	No	74
420	FY 2027	McNary	COE	2008	2058	215	215	4.875%	No	215
421	FY 2027	The Dalles	COE	2008	2058	1,651	1,651	4.875%	No	1,651
422		<b>FY 2027 Subtotal:</b>	-	-	<b>711,364</b>	<b>706,594</b>	-	-	<b>673,629</b>	
423	FY 2028	Fish and Wildlife	-	2013	2028	25,000	25,000	5.000%	No	25,000
424	FY 2028	Fish and Wildlife	-	2013	2028	11,690	11,690	3.100%	No	11,690
425	FY 2028	Fish and Wildlife	-	2013	2028	13,310	13,310	3.100%	No	13,310
426	FY 2028	Bureau Direct	-	2011	2038	30,000	30,000	4.700%	No	30,000
427	FY 2028	Bureau Direct	-	2011	2040	50,000	50,000	4.995%	No	50,000
428	FY 2028	Bureau Direct	-	2013	2043	70,000	32,965	5.000%	No	32,965
429	FY 2028	Albeni Falls	-	2015	2060	188,851	188,851	4.510%	No	188,851
430	FY 2028	Albeni Falls	-	2016	2061	187,748	187,748	4.510%	No	187,748
431	FY 2028	Albeni Falls	-	2017	2062	181,331	181,331	4.510%	No	181,331
432		<b>FY 2028 Subtotal:</b>	-	-	<b>757,930</b>	<b>720,895</b>	-	-	<b>707,880</b>	
433	FY 2029	Fish and Wildlife	-	2012	2029	5,000	5,000	3.630%	No	5,000
434	FY 2029	Fish and Wildlife	-	2014	2029	10,060	10,060	4.400%	No	10,060
435	FY 2029	Fish and Wildlife	-	2014	2029	11,850	11,850	3.600%	No	11,850
436	FY 2029	Fish and Wildlife	-	2014	2029	13,490	13,490	3.600%	No	13,490
437	FY 2029	Fish and Wildlife	-	2014	2029	24,880	24,880	3.600%	No	24,880
438	FY 2029	Albeni Falls	-	2017	2062	181,331	13,016	4.510%	No	13,016
439	FY 2029	Albeni Falls	-	2018	2063	182,180	182,180	4.510%	No	182,180
440	FY 2029	Albeni Falls	-	2019	2064	179,674	179,674	4.510%	No	179,674
441	FY 2029	Albeni Falls	-	2020	2065	177,244	177,244	4.510%	No	177,244
442	FY 2029	Albeni Falls	-	2021	2066	175,579	175,579	4.510%	No	124,653
443		<b>FY 2029 Subtotal:</b>	-	-	<b>961,288</b>	<b>792,973</b>	-	-	<b>742,047</b>	
444	FY 2030	Albeni Falls	-	2021	2066	175,579	50,926	4.510%	No	50,926
445	FY 2030	Albeni Falls	-	2022	2067	168,627	168,627	4.510%	No	168,627
446	FY 2030	Albeni Falls	-	2023	2068	168,627	168,627	4.510%	No	168,627
447	FY 2030	Albeni Falls	-	2024	2069	168,627	168,627	4.510%	No	168,627
448	FY 2030	Albeni Falls	-	2025	2070	168,627	168,627	4.510%	No	168,627
449	FY 2030	Albeni Falls	-	2026	2071	168,627	168,627	4.510%	No	44,050
450		<b>FY 2030 Subtotal:</b>	-	-	<b>1,018,714</b>	<b>894,061</b>	-	-	<b>769,483</b>	
451	FY 2031	Albeni Falls	-	2026	2071	168,627	124,577	4.510%	No	124,577
452	FY 2031	Albeni Falls	-	2027	2072	168,627	168,627	4.510%	No	168,627
453	FY 2031	Albeni Falls	-	2028	2073	168,627	168,627	4.510%	No	168,627
454	FY 2031	Albeni Falls	-	2029	2074	168,627	168,627	4.510%	No	168,627
455	FY 2031	Albeni Falls	-	2030	2075	168,627	168,627	4.510%	No	157,457
456		<b>FY 2031 Subtotal:</b>	-	-	<b>843,135</b>	<b>799,085</b>	-	-	<b>787,915</b>	
457	FY 2032	Bureau Direct	-	2011	2036	30,000	30,000	4.629%	No	30,000
458	FY 2032	Boise	BOR	2006	2056	15	15	4.500%	No	15
459	FY 2032	Bonneville Dam	COE	2006	2056	2,628	2,628	4.500%	No	2,628
460	FY 2032	Columbia Basin	BOR	2006	2056	1,987	1,987	4.500%	No	1,987
461	FY 2032	Columbia River Fish Mitigation	COE	2006	2056	366,395	366,395	4.500%	No	366,395
462	FY 2032	Cougar	COE	2006	2056	109	109	4.500%	No	109
463	FY 2032	Dworshak	COE	2006	2056	73	73	4.500%	No	73
464	FY 2032	John Day	COE	2006	2056	601	601	4.500%	No	601
465	FY 2032	Lower Monument	COE	2006	2056	285	285	4.500%	No	285
466	FY 2032	Lower Snake Fish and Wildlife	LSFW	2006	2056	379	379	4.500%	No	379
467	FY 2032	McNary	COE	2006	2056	4,080	4,080	4.500%	No	4,080
468	FY 2032	The Dalles	COE	2006	2056	2,030	2,030	4.500%	No	2,030
469	FY 2032	Boise	BOR	2009	2059	2	2	4.375%	No	2
470	FY 2032	Columbia Basin	BOR	2009	2059	1,338	1,338	4.375%	No	1,338
471	FY 2032	Columbia River Fish Mitigation	COE	2009	2059	103,203	103,203	4.375%	No	50,056
472	FY 2032	Dworshak	COE	2009	2059	2,480	2,480	4.375%	No	2,480
473	FY 2032	Hungry Horse Dam	BOR	2009	2059	60	60	4.375%	No	60
474	FY 2032	Ice Harbor	COE	2009	2059	2,615	2,615	4.375%	No	2,615
475	FY 2032	John Day	COE	2009	2059	1,548	1,548	4.375%	No	1,548
476	FY 2032	Little Goose	COE	2009	2059	3,171	3,171	4.375%	No	3,171
477	FY 2032	Lower Granite	COE	2009	2059	5,669	5,669	4.375%	No	5,669
478	FY 2032	Lower Monument	COE	2009	2059	2,332	2,332	4.375%	No	2,332
479	FY 2032	Yakima Chandler/Kenniwick	BOR	2009	2059	15	15	4.375%	No	15
480	FY 2032	Albeni Falls	-	2030	2075	168,627	11,170	4.510%	No	11,170
481	FY 2032	Albeni Falls	-	2031	2076	168,627	168,627	4.510%	No	168,627
482	FY 2032	Albeni Falls	-	2032	2077	168,627	168,627	4.510%	No	168,627
483		<b>FY 2032 Subtotal:</b>	-	-	<b>1,036,896</b>	<b>879,439</b>	-	-	<b>826,292</b>	
484	FY 2033	Bureau Direct	-	2011	2035	20,000	20,000	4.211%	No	20,000
485	FY 2033	Bureau Direct	-	2011	2037	30,000	30,000	4.208%	No	30,000
486	FY 2033	Bureau Direct	-	2012	2038	15,000	15,000	3.893%	No	15,000
487	FY 2033	Conservation	-	2012	2038	55,000	55,000	3.840%	No	11,525
488	FY 2033	Fish and Wildlife	-	2012	2038	30,000	30,000	3.893%	No	30,000
489	FY 2033	Bureau Direct	-	2012	2039	35,000	35,000	3.880%	No	35,000



**TABLE 12B: Application of Amortization**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2014)**

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
490	FY 2033 Bureau Direct	-	2011	2041	30,000	30,000	3.825%	No	30,000
491	FY 2033 Bureau Direct	-	2012	2042	44,000	44,000	3.834%	No	44,000
492	FY 2033 Bureau Direct	-	2013	2043	2,490	2,490	4.100%	No	2,490
493	FY 2033 Bureau Direct	-	2013	2043	4,100	4,100	4.100%	No	4,100
494	FY 2033 Bureau Direct	-	2013	2043	5,160	5,160	4.100%	No	5,160
495	FY 2033 Bureau Direct	-	2013	2043	7,390	7,390	4.100%	No	7,390
496	FY 2033 Bureau Direct	-	2013	2043	8,370	8,370	4.100%	No	8,370
497	FY 2033 Bureau Direct	-	2013	2043	8,900	8,900	4.100%	No	8,900
498	FY 2033 Bureau Direct	-	2014	2044	4,140	4,140	4.500%	No	4,140
499	FY 2033 Bureau Direct	-	2014	2044	4,760	4,760	4.500%	No	4,760
500	FY 2033 Bureau Direct	-	2014	2044	5,020	5,020	4.500%	No	5,020
501	FY 2033 Bureau Direct	-	2014	2044	5,390	5,390	4.500%	No	5,390
502	FY 2033 Bureau Direct	-	2014	2044	5,560	5,560	4.500%	No	5,560
503	FY 2033 Bureau Direct	-	2014	2044	5,670	5,670	4.500%	No	5,670
504	FY 2033 Bureau Direct	-	2014	2044	6,090	6,090	4.500%	No	6,090
505	FY 2033 Bureau Direct	-	2014	2044	6,240	6,240	4.500%	No	6,240
506	FY 2033 Bureau Direct	-	2014	2044	6,460	6,460	4.500%	No	6,460
507	FY 2033 Bureau Direct	-	2014	2044	6,510	6,510	4.500%	No	6,510
508	FY 2033 Bureau Direct	-	2014	2044	6,720	6,720	4.500%	No	6,720
509	FY 2033 Bureau Direct	-	2014	2044	7,170	7,170	4.500%	No	7,170
510	FY 2033 Albeni Falls	COE	2009	2059	57	57	4.375%	No	57
511	FY 2033 Bonneville Dam	COE	2009	2059	2,744	2,744	4.375%	No	2,744
512	FY 2033 Chief Joseph	COE	2009	2059	24,727	24,727	4.375%	No	24,727
513	FY 2033 Columbia River Fish Mitigation	COE	2009	2059	103,203	53,148	4.375%	No	53,148
514	FY 2033 Cougar	COE	2009	2059	121	121	4.375%	No	121
515	FY 2033 Lower Snake Fish and Wildlife	LSFW	2009	2059	1,540	1,540	4.375%	No	1,540
516	FY 2033 Albeni Falls	COE	2010	2060	42	42	4.250%	No	42
517	FY 2033 Bonneville Dam	COE	2010	2060	1,425	1,425	4.250%	No	1,425
518	FY 2033 Columbia Basin	BOR	2010	2060	877	877	4.250%	No	877
519	FY 2033 Columbia River Fish Mitigation	COE	2010	2060	56,832	56,832	4.250%	No	56,832
520	FY 2033 Cougar	COE	2010	2060	59	59	4.250%	No	59
521	FY 2033 Hungry Horse Dam	BOR	2010	2060	779	779	4.250%	No	779
522	FY 2033 Ice Harbor	COE	2010	2060	207	207	4.250%	No	207
523	FY 2033 John Day	COE	2010	2060	356	356	4.250%	No	356
524	FY 2033 Libby	COE	2010	2060	40	40	4.250%	No	40
525	FY 2033 Little Goose	COE	2010	2060	30	30	4.250%	No	30
526	FY 2033 Lower Granite	COE	2010	2060	1,156	1,156	4.250%	No	1,156
527	FY 2033 Lower Snake Fish and Wildlife	LSFW	2010	2060	6	6	4.250%	No	6
528	FY 2033 Bonneville Dam	COE	2011	2061	10,962	10,962	3.750%	No	10,962
529	FY 2033 Chief Joseph	COE	2011	2061	4	4	3.750%	No	4
530	FY 2033 Columbia Basin	BOR	2011	2061	1,723	1,723	3.750%	No	1,723
531	FY 2033 Columbia River Fish Mitigation	COE	2011	2061	106,014	106,014	3.750%	No	106,014
532	FY 2033 Cougar	COE	2011	2061	282	282	3.750%	No	282
533	FY 2033 Green Peter/Foster	COE	2011	2061	87	87	3.750%	No	87
534	FY 2033 Hills Creek	COE	2011	2061	12	12	3.750%	No	12
535	FY 2033 Hungry Horse Dam	BOR	2011	2061	503	503	3.750%	No	503
536	FY 2033 Ice Harbor	COE	2011	2061	819	819	3.750%	No	819
537	FY 2033 John Day	COE	2011	2061	175	175	3.750%	No	175
538	FY 2033 Libby	COE	2011	2061	152	152	3.750%	No	152
539	FY 2033 Lookout Dam	COE	2011	2061	17	17	3.750%	No	17
540	FY 2033 Lost Creek	COE	2011	2061	7	7	3.750%	No	7
541	FY 2033 Lower Granite	COE	2011	2061	8	8	3.750%	No	8
542	FY 2033 Lower Snake Fish and Wildlife	LSFW	2011	2061	122	122	3.750%	No	122
543	FY 2033 McNary	COE	2011	2061	565	565	3.750%	No	565
544	FY 2033 Columbia River Fish Mitigation	-	2014	2064	99,343	99,343	3.840%	No	99,343
545	FY 2033 Albeni Falls	-	2033	2078	168,627	168,627	4.510%	No	168,627
546	<b>FY 2033 Subtotal:</b>	-	-	-	<b>948,760</b>	<b>898,705</b>	-	-	<b>855,230</b>
547	FY 2034 Bureau Direct	-	2012	2034	55,000	55,000	3.780%	No	55,000
548	FY 2034 Conservation	-	2012	2038	55,000	43,475	3.840%	No	43,475
549	FY 2034 Bureau Direct	-	2012	2041	50,000	50,000	3.666%	No	50,000
550	FY 2034 Fish and Wildlife	-	2012	2041	12,000	12,000	3.666%	No	12,000
551	FY 2034 Chief Joseph	COE	2012	2062	24	24	3.375%	No	24
552	FY 2034 Columbia River Fish Mitigation	COE	2012	2062	102,794	102,794	3.375%	No	102,794
553	FY 2034 Cougar	COE	2012	2062	170	170	3.375%	No	170
554	FY 2034 Green Peter/Foster	COE	2012	2062	44	44	3.375%	No	44
555	FY 2034 Hills Creek	COE	2012	2062	142	142	3.375%	No	142
556	FY 2034 Hungry Horse Dam	BOR	2012	2062	3	3	3.375%	No	3
557	FY 2034 Ice Harbor	COE	2012	2062	115	115	3.375%	No	115
558	FY 2034 John Day	COE	2012	2062	6,161	6,161	3.375%	No	6,161
559	FY 2034 Libby	COE	2012	2062	16	16	3.375%	No	16
560	FY 2034 Little Goose	COE	2012	2062			3.375%	No	
561	FY 2034 Lookout Dam	COE	2012	2062	294	294	3.375%	No	294
562	FY 2034 Lost Creek	COE	2012	2062	788	788	3.375%	No	788
563	FY 2034 Lower Monument	COE	2012	2062	89	89	3.375%	No	89
564	FY 2034 McNary	COE	2012	2062	11	11	3.375%	No	11
565	FY 2034 Minidoka/Palissades	BOR	2012	2062	11	11	3.375%	No	11
566	FY 2034 Columbia River Fish Mitigation	-	2013	2063	141,823	141,823	2.875%	No	141,823
567	FY 2034 Albeni Falls	-	2034	2079	168,627	168,627	4.510%	No	168,627
568	<b>FY 2034 Subtotal:</b>	-	-	-	<b>593,112</b>	<b>581,587</b>	-	-	<b>581,587</b>
569	FY 2035 Albeni Falls	-	2035	2080	168,627	168,627	4.510%	No	168,627
570	<b>FY 2035 Subtotal:</b>	-	-	-	<b>168,627</b>	<b>168,627</b>	-	-	<b>168,627</b>
571	FY 2036 Albeni Falls	-	2036	2081	168,627	168,627	4.510%	No	168,627

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Fiscal Year	Project	Appropriation Type	In Service	Due Date	Original Principal	Current Balance	Rate	Rollover	Amount Amortized
572	FY 2036 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
573	FY 2037 Albeni Falls	-	2037	2082	168,627	168,627	4.510%	No	168,627
574	FY 2037 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
575	FY 2038 Albeni Falls	-	2038	2083	168,627	168,627	4.510%	No	168,627
576	FY 2038 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
577	FY 2039 Albeni Falls	-	2039	2084	168,627	168,627	4.510%	No	168,627
578	FY 2039 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
579	FY 2040 Albeni Falls	-	2040	2085	168,627	168,627	4.510%	No	168,627
580	FY 2040 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
581	FY 2041 Albeni Falls	-	2041	2086	168,627	168,627	4.510%	No	168,627
582	FY 2041 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
583	FY 2042 Albeni Falls	-	2042	2087	168,627	168,627	4.510%	No	168,627
584	FY 2042 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
585	FY 2043 Albeni Falls	-	2043	2088	168,627	168,627	4.510%	No	168,627
586	FY 2043 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
587	FY 2044 Albeni Falls	-	2044	2089	168,627	168,627	4.510%	No	168,627
588	FY 2044 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
589	FY 2045 Albeni Falls	-	2045	2090	168,627	168,627	4.510%	No	168,627
590	FY 2045 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
591	FY 2046 Albeni Falls	-	2046	2091	168,627	168,627	4.510%	No	168,627
592	FY 2046 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
593	FY 2047 Albeni Falls	-	2047	2092	168,627	168,627	4.510%	No	168,627
594	FY 2047 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
595	FY 2048 Albeni Falls	-	2048	2093	168,627	168,627	4.510%	No	168,627
596	FY 2048 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
597	FY 2049 Albeni Falls	-	2049	2094	168,627	168,627	4.510%	No	168,627
598	FY 2049 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
599	FY 2050 Albeni Falls	-	2050	2095	168,627	168,627	4.510%	No	168,627
600	FY 2050 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
601	FY 2051 Albeni Falls	-	2051	2096	168,627	168,627	4.510%	No	168,627
602	FY 2051 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
603	FY 2052 Albeni Falls	-	2052	2097	168,627	168,627	4.510%	No	168,627
604	FY 2052 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
605	FY 2053 Albeni Falls	-	2053	2098	168,627	168,627	4.510%	No	168,627
606	FY 2053 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
607	FY 2054 Albeni Falls	-	2054	2099	168,627	168,627	4.510%	No	168,627
608	FY 2054 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
609	FY 2055 Albeni Falls	-	2055	2100	168,627	168,627	4.510%	No	168,627
610	FY 2055 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
611	FY 2056 Albeni Falls	-	2056	2101	168,627	168,627	4.510%	No	168,627
612	FY 2056 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
613	FY 2057 Albeni Falls	-	2057	2102	168,627	168,627	4.510%	No	168,627
614	FY 2057 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
615	FY 2058 Albeni Falls	-	2058	2103	168,627	168,627	4.510%	No	168,627
616	FY 2058 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
617	FY 2059 Albeni Falls	-	2059	2104	168,627	168,627	4.510%	No	168,627
618	FY 2059 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
619	FY 2060 Albeni Falls	-	2060	2105	168,627	168,627	4.510%	No	168,627
620	FY 2060 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
621	FY 2061 Albeni Falls	-	2061	2106	168,627	168,627	4.510%	No	168,627
622	FY 2061 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
623	FY 2062 Albeni Falls	-	2062	2107	168,627	168,627	4.510%	No	168,627
624	FY 2062 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
625	FY 2063 Albeni Falls	-	2063	2108	168,627	168,627	4.510%	No	168,627
626	FY 2063 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
627	FY 2064 Albeni Falls	-	2064	2109	168,627	168,627	4.510%	No	168,627
628	FY 2064 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
	<b>Grand Total:</b>	-	-	-	16,071,561	14,994,321	-	-	14,284,074

**TABLE 12C: Summary of Interest**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2014)**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
1																				
2	Boise	295	295	295	295	295	295	295	295	295	295	295	295	295	295	54	1	1	1	1
3	Columbia Basin	5,492	5,492	5,492	5,492	5,492	5,492	5,492	5,492	5,492	5,487	5,487	5,487	5,461	5,461	899	250	250	250	250
4	Columbia Basin 3rd Powerhouse	32,565	32,565	32,565	32,565	32,565	32,565	32,565	32,565	31,757	29,405	21,817	18,653	11,518	903	-	-	-	-	-
5	Hungry Horse Dam	832	832	832	832	832	832	832	832	832	832	832	832	709	709	224	55	55	55	55
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					
7	Rogue River Projects - Green Springs	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	1	1	1	1
9	Yakima Roza	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	-
10	<b>Bureau of Reclamation Subtotal:</b>	<b>43,526</b>	<b>43,526</b>	<b>43,526</b>	<b>43,526</b>	<b>43,526</b>	<b>43,526</b>	<b>43,526</b>	<b>43,526</b>	<b>42,718</b>	<b>40,361</b>	<b>32,773</b>	<b>29,608</b>	<b>22,324</b>	<b>11,709</b>	<b>1,221</b>	<b>306</b>	<b>306</b>	<b>306</b>	<b>306</b>
11	Albeni Falls	208	208	208	8,726	17,193	25,371	33,587	41,691	49,684	57,603	65,208	72,813	80,418	88,023	95,449	103,029	86,059	63,142	36,043
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	26,226	18,892	705	-	-	-	-	-
13	Bonneville Dam	8,312	8,312	8,312	8,312	8,312	8,312	8,312	8,312	8,312	8,312	7,192	7,192	7,153	7,153	5,227	710	710	710	710
14	Chief Joseph	16,243	16,243	16,243	16,243	16,243	16,243	16,243	16,243	16,243	16,243	14,061	7,375	1,894	1,894	1,304	1,083	1,083	1,083	1,083
15	Columbia River Fish Mitigation	52,219	56,296	60,111	60,111	60,111	60,111	60,111	60,111	60,111	60,111	60,111	60,111	60,111	60,111	53,887	38,755	38,755	38,755	38,755
16	Cougar	648	648	648	648	648	648	648	648	648	648	648	648	648	648	648	29	29	29	29
17	Detroit Lake/Big Cliff	85	85	85	85	85	85	85	85	85	85	85	85	85	85	65	-	-	-	-
18	Dworshak	7,503	7,503	2,039	2,039	2,039	1,892	892	892	892	892	892	892	892	862	862	233	112	112	112
19	Green Peter/Foster	18	18	18	18	18	18	18	18	18	18	18	18	18	18	5	5	5	5	5
20	Hills Creek	171	171	171	171	171	171	171	171	171	171	171	171	171	171	8	5	5	5	5
21	Ice Harbor	2,289	2,289	2,289	2,289	2,289	2,289	2,289	2,289	2,289	1,490	807	807	802	775	692	158	158	158	158
22	John Day	1,647	1,647	1,647	1,647	1,647	1,647	1,647	1,647	1,647	1,647	1,647	1,647	1,647	1,633	822	324	324	324	324
23	Libby	16,744	16,744	16,744	16,744	16,744	16,744	16,744	16,292	13,298	1,537	1,537	1,526	1,515	458	84	8	8	8	8
24	Little Goose	4,408	4,408	4,408	4,408	4,408	4,408	4,408	4,408	4,408	4,408	860	860	860	774	153	140	140	140	140
25	Lookout Dam	740	740	740	740	740	740	740	740	740	740	740	740	740	740	423	11	11	11	11
26	Lost Creek	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032	46	46	44	44	44	27	27	27	27	27
27	Lower Granite	12,441	12,441	12,441	12,441	12,441	12,441	11,512	3,679	3,679	3,679	775	664	650	650	437	297	297	297	297
28	Lower Monument	3,607	3,607	3,607	3,607	3,607	3,607	3,607	3,607	3,607	3,607	3,607	3,604	680	662	332	118	118	118	118
29	McNary	713	713	713	713	713	713	713	713	688	688	688	686	686	686	579	205	205	205	205
30	The Dalles	2,922	2,922	2,922	2,922	2,922	2,403	2,403	2,403	2,403	2,403	2,403	2,403	2,403	2,403	2,102	91	91	91	91
31	<b>Corps of Engineers Subtotal:</b>	<b>158,178</b>	<b>162,255</b>	<b>160,606</b>	<b>169,123</b>	<b>177,590</b>	<b>185,622</b>	<b>191,391</b>	<b>191,208</b>	<b>196,208</b>	<b>191,542</b>	<b>187,724</b>	<b>188,518</b>	<b>180,281</b>	<b>168,497</b>	<b>162,475</b>	<b>145,107</b>	<b>128,137</b>	<b>105,220</b>	<b>78,121</b>
32	Lower Snake Fish and Wildlife	16,525	16,525	16,525	16,525	16,525	16,525	16,525	16,525	16,525	16,525	16,525	16,525	16,525	6,984	160	89	89	89	89
33	<b>Lower Snake Fish &amp; Wildlife Subtotal:</b>	<b>16,525</b>	<b>16,525</b>	<b>16,525</b>	<b>16,525</b>	<b>16,525</b>	<b>16,525</b>	<b>16,525</b>	<b>16,525</b>	<b>16,525</b>	<b>16,525</b>	<b>16,525</b>	<b>16,525</b>	<b>16,525</b>	<b>6,984</b>	<b>160</b>	<b>89</b>	<b>89</b>	<b>89</b>	<b>89</b>
34	<b>Appropriations Subtotal:</b>	<b>218,229</b>	<b>222,306</b>	<b>220,657</b>	<b>229,174</b>	<b>237,641</b>	<b>245,673</b>	<b>251,442</b>	<b>251,259</b>	<b>255,451</b>	<b>248,428</b>	<b>237,022</b>	<b>234,651</b>	<b>219,130</b>	<b>187,190</b>	<b>163,855</b>	<b>145,503</b>	<b>128,532</b>	<b>105,615</b>	<b>78,517</b>
35	Bureau Direct	34,485	39,160	40,951	40,951	40,951	40,951	40,951	38,763	32,891	31,257	31,257	30,159	30,159	30,159	29,873	22,368	16,812	16,812	16,812
36	Conservation	12,980	11,805	13,125	11,670	11,426	11,306	11,306	11,306	11,306	10,962	10,962	6,685	6,267	4,717	2,112	2,112	2,112	2,112	2,112
37	Construction	852	1,271	1,092	960	773	773	773	408	-	-	-	-	-	-	-	-	-	-	-
38	Fish and Wildlife	13,200	11,395	12,954	12,954	12,954	12,954	11,366	11,366	11,366	11,366	11,366	10,455	10,455	6,945	6,065	4,040	1,608	1,608	1,608
39	(Less Interest Income)	(4,828)	(3,514)	(3,552)	(2,905)	(2,951)	(2,919)	(5,018)	(4,617)	(4,764)	(4,771)	(5,423)	(7,338)	(7,340)	(7,430)	(7,567)	(7,599)	(7,610)	(7,610)	(7,610)
40	Coupon Scale Down Premiums	-	22	58	-	-	-	-	-	-	-	-	-	-	162	3,202	2,380	-	-	-
41	<b>BPA Borrowing Subtotal:</b>	<b>56,689</b>	<b>60,139</b>	<b>64,628</b>	<b>63,630</b>	<b>63,153</b>	<b>63,065</b>	<b>60,966</b>	<b>57,226</b>	<b>50,749</b>	<b>48,822</b>	<b>48,815</b>	<b>42,788</b>	<b>39,544</b>	<b>38,154</b>	<b>34,702</b>	<b>25,358</b>	<b>15,365</b>	<b>12,922</b>	<b>12,922</b>
42	<b>Treasury Subtotal:</b>	<b>56,689</b>	<b>60,139</b>	<b>64,628</b>	<b>63,630</b>	<b>63,153</b>	<b>63,065</b>	<b>60,966</b>	<b>57,226</b>	<b>50,749</b>	<b>48,822</b>	<b>48,815</b>	<b>42,788</b>	<b>39,544</b>	<b>38,154</b>	<b>34,702</b>	<b>25,358</b>	<b>15,365</b>	<b>12,922</b>	<b>12,922</b>
43	<b>GRAND TOTAL:</b>	<b>274,918</b>	<b>282,445</b>	<b>285,285</b>	<b>292,804</b>	<b>300,794</b>	<b>308,738</b>	<b>312,408</b>	<b>308,485</b>	<b>306,200</b>	<b>297,250</b>	<b>285,836</b>	<b>277,439</b>	<b>258,674</b>	<b>225,343</b>	<b>198,558</b>	<b>170,861</b>	<b>143,897</b>	<b>118,538</b>	<b>91,439</b>

**TABLE 12C: Summary of Interest**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2014)**

	A	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO
		2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052
1																						
2	Boise	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Columbia Basin	250	102	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Columbia Basin 3rd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Hungry Horse Dam	55	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Minidoka/Palisades	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Rogue River Projects - Green Springs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Yakima Chandler/Kenriwick	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Yakima Roza	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	<b>Bureau of Reclamation Subtotal:</b>	<b>306</b>	<b>154</b>																			
11	Albeni Falls	8,113	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Bonneville Dam	710	592	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Chief Joseph	1,083	1,083	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Columbia River Fish Mitigation	38,755	20,078	7,547	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Cougar	29	24	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Dworshak	112	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	Green Peter/Foster	5	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Hills Creek	5	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	Ice Harbor	158	43	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	John Day	324	230	208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	Libby	8	8	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	Little Goose	140	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	Lookout Dam	11	11	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	Lost Creek	27	27	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	Lower Granite	297	49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	Lower Monument	118	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	McNary	205	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	The Dalles	91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	<b>Corps of Engineers Subtotal:</b>	<b>50,191</b>	<b>22,184</b>	<b>7,812</b>																		
32	Lower Snake Fish and Wildlife	89	72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	<b>Lower Snake Fish &amp; Wildlife Subtotal:</b>	<b>89</b>	<b>72</b>																			
34	<b>Appropriations Subtotal:</b>	<b>50,587</b>	<b>22,410</b>	<b>7,812</b>																		
35	Bureau Direct	16,812	15,424	3,912	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	Conservation	2,112	2,112	1,669	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	Fish and Wildlife	1,608	1,608	440	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	(Less Interest Income)	(7,610)	(7,675)	(7,732)	(7,758)	(7,758)	(7,764)	(7,758)	(7,758)	(7,758)	(7,758)	(7,758)	(7,758)	(6,769)	(3,824)	(3,824)	(3,824)	(3,824)	(3,824)	(3,824)	(3,824)	(3,824)
40	Coupon Scale Down Premiums	222	3,448	805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	<b>BPA Borrowing Subtotal:</b>	<b>13,144</b>	<b>14,916</b>	<b>(905)</b>	<b>(7,758)</b>	<b>(7,758)</b>	<b>(7,764)</b>	<b>(7,758)</b>	<b>(7,758)</b>	<b>(7,758)</b>	<b>(7,758)</b>	<b>(7,758)</b>	<b>(7,758)</b>	<b>(6,769)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>
42	<b>Treasury Subtotal:</b>	<b>13,144</b>	<b>14,916</b>	<b>(905)</b>	<b>(7,758)</b>	<b>(7,758)</b>	<b>(7,764)</b>	<b>(7,758)</b>	<b>(7,758)</b>	<b>(7,758)</b>	<b>(7,758)</b>	<b>(7,758)</b>	<b>(7,758)</b>	<b>(6,769)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>
43	<b>GRAND TOTAL:</b>	<b>63,731</b>	<b>37,327</b>	<b>6,907</b>	<b>(7,758)</b>	<b>(7,758)</b>	<b>(7,764)</b>	<b>(7,758)</b>	<b>(7,758)</b>	<b>(7,758)</b>	<b>(7,758)</b>	<b>(7,758)</b>	<b>(7,758)</b>	<b>(6,769)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>

**TABLE 12C: Summary of Interest**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2014)**

	A	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	
		2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064		Total
1															
2	Boise	-	-	-	-	-	-	-	-	-	-	-	-	-	4,181
3	Columbia Basin	-	-	-	-	-	-	-	-	-	-	-	-	-	79,060
4	Columbia Basin 3rd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	374,571
5	Hungry Horse Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	11,955
6	Minidoka/Palisades	-	-	-	-	-	-	-	-	-	-	-	-	-	51,005
7	Rogue River Projects - Green Springs	-	-	-	-	-	-	-	-	-	-	-	-	-	9,167
8	Yakima Chandler/Kenniwick	-	-	-	-	-	-	-	-	-	-	-	-	-	654
9	Yakima Roza	1	1	1	1	1	1	1	1	1	1	1	1	1	12
10	<b>Bureau of Reclamation Subtotal:</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>530,604</b>
11	Albeni Falls	-	-	-	-	-	-	-	-	-	-	-	-	-	932,782
12	Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	334,309
13	Bonneville Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	121,178
14	Chief Joseph	-	-	-	-	-	-	-	-	-	-	-	-	-	195,456
15	Columbia River Fish Mitigation	-	-	-	-	-	-	-	-	-	-	-	-	-	1,105,130
16	Cougar	-	-	-	-	-	-	-	-	-	-	-	-	-	9,896
17	Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	-	-	-	-	-	1,249
18	Dworshak	-	-	-	-	-	-	-	-	-	-	-	-	-	30,885
19	Green Peter/Foster	-	-	-	-	-	-	-	-	-	-	-	-	-	291
20	Hills Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	2,441
21	Ice Harbor	-	-	-	-	-	-	-	-	-	-	-	-	-	26,807
22	John Day	-	-	-	-	-	-	-	-	-	-	-	-	-	25,928
23	Libby	-	-	-	-	-	-	-	-	-	-	-	-	-	153,506
24	Little Goose	-	-	-	-	-	-	-	-	-	-	-	-	-	48,295
25	Lookout Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	10,862
26	Lost Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	10,719
27	Lower Granite	-	-	-	-	-	-	-	-	-	-	-	-	-	101,908
28	Lower Monument	-	-	-	-	-	-	-	-	-	-	-	-	-	45,547
29	McNary	-	-	-	-	-	-	-	-	-	-	-	-	-	11,485
30	The Dalles	1	1	1	1	1	1	1	1	1	1	1	1	1	39,314
31	<b>Corps of Engineers Subtotal:</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>3,207,988</b>
32	Lower Snake Fish and Wildlife	1	1	1	1	1	1	1	1	1	1	1	1	1	222,493
33	<b>Lower Snake Fish &amp; Wildlife Subtotal:</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>222,493</b>
34	<b>Appropriations Subtotal:</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>3,961,085</b>
35	Bureau Direct	-	-	-	-	-	-	-	-	-	-	-	-	-	641,874
36	Conservation	-	-	-	-	-	-	-	-	-	-	-	-	-	162,277
37	Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	6,901
38	Fish and Wildlife	-	-	-	-	-	-	-	-	-	-	-	-	-	191,027
39	(Less Interest Income)	(3,824)	(3,824)	(3,824)	(3,824)	(3,824)	(3,824)	(3,824)	(3,824)	(3,824)	(3,824)	(3,824)	(3,824)	(3,824)	(278,670)
40	Coupon Scale Down Premiums	-	-	-	-	-	-	-	-	-	-	-	-	-	10,300
41	<b>BPA Borrowing Subtotal:</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>733,710</b>
42	<b>Treasury Subtotal:</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>733,710</b>
43	<b>GRAND TOTAL:</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>(3,824)</b>	<b>4,694,795</b>

**TABLE 12D: Summary of Amortization**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2014)**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
2	Boise	-	-	-	-	-	-	-	-	-	-	-	-	-	3,365	1,043	-
3	Columbia Basin	-	-	-	-	-	-	-	-	72	-	-	360	-	76,152	12,726	-
4	Columbia Basin 3rd Powerhouse	-	-	-	-	-	-	-	11,278	32,847	106,131	44,259	99,784	148,459	12,631	-	-
5	Hungry Horse Dam	-	-	-	-	-	-	-	-	-	-	-	1,731	-	6,870	3,321	-
6	Minidoka/Palisades	-	-	-	-	-	-	-	-	-	-	-	-	-	50,953	-	-
7	Rogue River Projects - Green Springs	-	-	-	-	-	-	-	-	-	-	-	-	-	11,145	-	-
8	Yakima Chandler/Kenniwick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	833	-
9	Yakima Roza	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-
10	<b>Bureau of Reclamation Subtotal:</b>	-	-	-	-	-	-	-	11,278	32,919	106,131	44,259	101,875	148,459	161,131	17,923	-
11	Albeni Falls	-	-	-	-	-	-	-	-	-	-	-	-	-	2,510	481	544,914
12	Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	102,566	254,363	9,867	-	-
13	Bonneville Dam	-	-	-	-	-	-	-	-	-	15,670	-	540	-	30,893	86,596	-
14	Chief Joseph	-	-	-	-	-	-	-	-	-	30,512	93,522	76,644	-	8,315	4,494	-
15	Columbia River Fish Mitigation	-	-	-	-	-	-	-	-	-	-	-	-	-	94,887	294,050	-
16	Cougar	-	-	-	-	-	-	-	-	-	-	-	-	-	26	11,872	-
17	Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	-	-	-	-	-	320	1,272	-
18	Dworshak	-	76,000	-	-	2,040	13,902	-	-	-	-	-	427	-	8,803	2,312	-
19	Green Peter/Foster	-	-	-	-	-	-	-	-	-	-	-	-	-	226	-	-
20	Hills Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	2,666	47	-
21	Ice Harbor	-	-	-	-	-	-	-	-	11,164	9,557	-	78	371	1,379	9,914	-
22	John Day	-	-	-	-	-	-	-	-	-	-	-	-	195	11,857	9,400	-
23	Libby	-	-	-	-	-	-	6,317	41,821	164,491	-	152	150	14,781	6,222	1,567	-
24	Little Goose	-	-	-	-	-	-	-	-	-	49,625	-	-	1,200	9,510	253	-
25	Lookout Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	5,170	8,062	-
26	Lost Creek	-	-	-	-	-	-	-	-	-	13,793	-	31	-	265	-	-
27	Lower Granite	-	-	-	-	-	12,970	109,402	-	-	40,611	1,551	206	-	3,336	2,589	-
28	Lower Monument	-	-	-	-	-	-	-	-	-	-	32	40,893	264	5,197	4,011	-
29	McNary	-	-	-	-	-	-	-	-	351	-	-	30	-	1,681	6,999	-
30	The Dalles	-	-	-	-	-	7,240	-	-	-	-	-	-	-	4,579	39,217	-
31	<b>Corps of Engineers Subtotal:</b>	-	76,000	-	-	2,040	34,112	115,719	41,821	176,006	159,768	95,257	221,566	271,174	207,709	483,139	544,914
32	Lower Snake Fish and Wildlife	-	-	-	-	-	-	-	-	-	-	-	-	133,454	95,714	1,303	-
33	<b>Lower Snake Fish &amp; Wildlife Subtotal:</b>	-	-	-	-	-	-	-	-	-	-	-	-	133,454	95,714	1,303	-
34	<b>Appropriations Subtotal:</b>	-	76,000	-	-	2,040	34,112	115,719	53,100	208,925	265,900	139,516	323,441	553,087	464,554	502,364	544,914
35	Bureau Direct	-	-	-	-	-	-	59,000	160,000	47,000	-	25,000	-	-	4,771	150,264	112,965
36	Conservation	62,800	15,661	98,451	4,888	20,000	-	-	-	10,000	-	115,000	15,000	46,200	75,620	-	-
37	Construction	-	14,950	12,700	10,500	-	-	22,730	18,540	-	-	-	-	-	-	-	-
38	Fish and Wildlife	60,000	-	-	-	-	-	46,000	-	-	-	-	20,000	-	80,000	21,000	50,000
39	Irrigation Assistance	58,961	52,550	52,110	60,957	51,393	27,567	57,228	24,599	12,232	14,392	12,971	15,146	13,752	20,969	6,196	11,276
40	<b>BPA Borrowing Subtotal:</b>	<b>181,761</b>	<b>83,161</b>	<b>163,261</b>	<b>76,345</b>	<b>71,393</b>	<b>27,567</b>	<b>184,958</b>	<b>203,139</b>	<b>69,232</b>	<b>14,392</b>	<b>152,971</b>	<b>50,146</b>	<b>59,952</b>	<b>181,359</b>	<b>177,460</b>	<b>174,241</b>
41	Discounts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	Premiums	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	<b>Make Whole Call Subtotal:</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	<b>Treasury Subtotal:</b>	<b>181,761</b>	<b>83,161</b>	<b>163,261</b>	<b>76,345</b>	<b>71,393</b>	<b>27,567</b>	<b>184,958</b>	<b>203,139</b>	<b>69,232</b>	<b>14,392</b>	<b>152,971</b>	<b>50,146</b>	<b>59,952</b>	<b>181,359</b>	<b>177,460</b>	<b>174,241</b>

**TABLE 12D: Summary of Amortization**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2014)**

	A	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK
1		<b>2029</b>	<b>2030</b>	<b>2031</b>	<b>2032</b>	<b>2033</b>	<b>2034</b>	<b>2035</b>	<b>2036</b>	<b>2037</b>	<b>2038</b>	<b>2039</b>	<b>2040</b>	<b>2041</b>	<b>2042</b>	<b>2043</b>	<b>2044</b>	<b>2045</b>	<b>2046</b>	<b>2047</b>	<b>2048</b>
2	Boise	-	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Columbia Basin	-	-	-	3,325	2,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Columbia Basin 3rd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Hungry Horse Dam	-	-	-	60	1,282	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Minidoka/Palisades	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Rogue River Projects - Green Springs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Yakima Chandler/Kenniwick	-	-	-	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Yakima Roza	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	<b>Bureau of Reclamation Subtotal:</b>	-	-	-	<b>3,418</b>	<b>3,882</b>	<b>13</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Albeni Falls	676,767	769,483	787,915	348,424	168,726	168,627	168,627	168,627	168,627	168,627	168,627	168,627	168,627	168,627	168,627	168,627	168,627	168,627	168,627	168,627
12	Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Bonneville Dam	-	-	-	2,628	15,131	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Chief Joseph	-	-	-	-	24,731	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Columbia River Fish Mitigation	-	-	-	416,450	315,336	244,617	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Cougar	-	-	-	109	461	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Dworshak	-	-	-	2,553	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	Green Peter/Foster	-	-	-	-	87	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Hills Creek	-	-	-	-	12	142	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	Ice Harbor	-	-	-	2,615	1,025	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	John Day	-	-	-	2,148	530	6,161	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	Libby	-	-	-	-	192	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	Little Goose	-	-	-	3,171	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	Lookout Dam	-	-	-	-	17	294	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	Lost Creek	-	-	-	-	7	788	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	Lower Granite	-	-	-	5,669	1,164	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	Lower Monument	-	-	-	2,617	-	89	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	McNary	-	-	-	4,080	565	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	The Dalles	-	-	-	2,030	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	<b>Corps of Engineers Subtotal:</b>	<b>676,767</b>	<b>769,483</b>	<b>787,915</b>	<b>792,495</b>	<b>528,016</b>	<b>421,098</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>
32	Lower Snake Fish and Wildlife	-	-	-	379	1,667	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	<b>Lower Snake Fish &amp; Wildlife Subtotal:</b>	-	-	-	<b>379</b>	<b>1,667</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	<b>Appropriations Subtotal:</b>	<b>676,767</b>	<b>769,483</b>	<b>787,915</b>	<b>796,292</b>	<b>533,565</b>	<b>421,112</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>
35	Bureau Direct	-	-	-	30,000	280,140	105,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	Conservation	-	-	-	-	11,525	43,475	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	Fish and Wildlife	<u>65,280</u>	-	-	-	<u>30,000</u>	<u>12,000</u>	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	Irrigation Assistance	4,065	1,996	10,658	-	4,347	-	7,861	28,920	16,183	-	14,229	-	-	73,659	-	-	11,728	-	-	-
40	<b>BPA Borrowing Subtotal:</b>	<b>69,345</b>	<b>1,996</b>	<b>10,658</b>	<b>30,000</b>	<b>326,012</b>	<b>160,475</b>	<b>7,861</b>	<b>28,920</b>	<b>16,183</b>	-	<b>14,229</b>	-	-	<b>73,659</b>	-	-	<b>11,728</b>	-	-	-
41	Discounts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	Premiums	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	<b>Make Whole Call Subtotal:</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	<b>Treasury Subtotal:</b>	<b>69,345</b>	<b>1,996</b>	<b>10,658</b>	<b>30,000</b>	<b>326,012</b>	<b>160,475</b>	<b>7,861</b>	<b>28,920</b>	<b>16,183</b>	-	<b>14,229</b>	-	-	<b>73,659</b>	-	-	<b>11,728</b>	-	-	-

**TABLE 12D: Summary of Amortization**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2014)**

	A	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB
<b>1</b>		<b>2049</b>	<b>2050</b>	<b>2051</b>	<b>2052</b>	<b>2053</b>	<b>2054</b>	<b>2055</b>	<b>2056</b>	<b>2057</b>	<b>2058</b>	<b>2059</b>	<b>2060</b>	<b>2061</b>	<b>2062</b>	<b>2063</b>	<b>2064</b>	<b>Total</b>
2	Boise	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,425
3	Columbia Basin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95,235
4	Columbia Basin 3rd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	455,389
5	Hungry Horse Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13,268
6	Minidoka/Palisades	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50,964
7	Rogue River Projects - Green Springs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11,145
8	Yakima Chandler/Kenniwick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	848
9	Yakima Roza	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
<b>10</b>	<b>Bureau of Reclamation Subtotal:</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>631,288</b>
11	Alberni Falls	168,627	168,627	168,627	168,627	168,627	168,627	168,627	168,627	168,627	168,627	168,627	168,627	168,627	168,627	168,627	168,627	8,526,658
12	Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	366,796
13	Bonneville Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	151,458
14	Chief Joseph	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	238,242
15	Columbia River Fish Mitigation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,365,340
16	Cougar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12,638
17	Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,592
18	Dworshak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106,037
19	Green Peter/Foster	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	356
20	Hills Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,867
21	Ice Harbor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36,219
22	John Day	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30,292
23	Libby	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	235,708
24	Little Goose	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63,790
25	Lookout Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13,543
26	Lost Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14,884
27	Lower Granite	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	177,498
28	Lower Monument	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53,104
29	McNary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13,718
30	The Dalles	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53,067
<b>31</b>	<b>Corps of Engineers Subtotal:</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>11,463,809</b>
32	Lower Snake Fish and Wildlife	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	232,518
<b>33</b>	<b>Lower Snake Fish &amp; Wildlife Subtotal:</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>232,518</b>
<b>34</b>	<b>Appropriations Subtotal:</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>168,627</b>	<b>12,327,614</b>
35	Bureau Direct	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	974,140
36	Conservation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	518,620
37	Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	79,420
38	Fish and Wildlife	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	384,280
39	Irrigation Assistance	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	665,944
<b>40</b>	<b>BPA Borrowing Subtotal:</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,622,404</b>
41	Discounts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	Premiums	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>43</b>	<b>Make Whole Call Subtotal:</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>44</b>	<b>Treasury Subtotal:</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>2,622,404</b>



**13. REPAYMENT STUDY INPUT DATA, FY 2015 STUDY**

**TABLE 13A: HISTORICAL INVESTMENT**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

	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, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

	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, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

	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**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

	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**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

	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	Bonneville Dam	1,425	1,425	4.250%	2060	2010	9	-	-
306	Bonneville Dam	10,962	10,962	3.750%	2061	2011	9	-	-
307	Chief Joseph	29,164	-	6.910%	2005	1955	9	-	-
308	Chief Joseph	13,643	-	6.950%	2006	1956	9	-	-
309	Chief Joseph	39,586	-	6.980%	2007	1957	9	-	-
310	Chief Joseph	31,901	-	7.020%	2008	1958	9	-	-
311	Chief Joseph	223	-	7.020%	2008	1959	9	-	-
312	Chief Joseph	223	-	7.020%	2008	1960	9	-	-
313	Chief Joseph	223	-	7.020%	2008	1961	9	-	-
314	Chief Joseph	223	-	7.020%	2008	1962	9	-	-
315	Chief Joseph	224	-	7.020%	2008	1963	9	-	-
316	Chief Joseph	223	-	7.020%	2008	1964	9	-	-
317	Chief Joseph	223	-	7.020%	2008	1965	9	-	-
318	Chief Joseph	223	-	7.020%	2008	1966	9	-	-
319	Chief Joseph	223	-	7.020%	2008	1967	9	-	-
320	Chief Joseph	224	-	7.020%	2008	1968	9	-	-
321	Chief Joseph	223	-	7.020%	2008	1969	9	-	-
322	Chief Joseph	223	-	7.020%	2008	1970	9	-	-
323	Chief Joseph	223	-	7.020%	2008	1971	9	-	-
324	Chief Joseph	223	-	7.020%	2008	1972	9	-	-
325	Chief Joseph	224	-	7.020%	2008	1973	9	-	-
326	Chief Joseph	223	-	7.020%	2008	1974	9	-	-
327	Chief Joseph	223	-	7.020%	2008	1975	9	-	-

**TABLE 13A: HISTORICAL INVESTMENT**  
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**(\$000s) (FY 2015)**

	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	223	-	7.020%	2008	1976	9	-	-
329	Chief Joseph	223	-	7.020%	2008	1977	9	-	-
330	Chief Joseph	30,512	30,512	7.150%	2027	1977	9	-	-
331	Chief Joseph	224	-	7.020%	2008	1978	9	-	-
332	Chief Joseph	75,669	75,669	7.150%	2028	1978	9	-	-
333	Chief Joseph	223	-	7.020%	2008	1979	9	-	-
334	Chief Joseph	60,079	60,079	7.150%	2029	1979	9	-	-
335	Chief Joseph	223	-	7.020%	2008	1980	9	-	-
336	Chief Joseph	223	-	7.020%	2008	1981	9	-	-
337	Chief Joseph	223	-	7.020%	2008	1982	9	-	-
338	Chief Joseph	224	-	7.020%	2008	1983	9	-	-
339	Chief Joseph	909	-	10.750%	2008	1984	9	-	-
340	Chief Joseph	46	-	7.020%	2008	1985	9	-	-
341	Chief Joseph	16,372	16,372	7.150%	2029	1985	9	-	-
342	Chief Joseph	5,363	5,363	7.150%	2029	1986	9	-	-
343	Chief Joseph	104	-	8.875%	2008	1987	9	-	-
344	Chief Joseph	3,036	3,036	7.150%	2029	1987	9	-	-
345	Chief Joseph	2,722	2,722	7.150%	2029	1988	9	-	-
346	Chief Joseph	327	-	9.250%	2008	1989	9	-	-
347	Chief Joseph	2,227	2,227	7.150%	2029	1989	9	-	-
348	Chief Joseph	1,024	-	8.875%	2008	1990	9	-	-
349	Chief Joseph	4,505	4,505	7.150%	2029	1990	9	-	-
350	Chief Joseph	34	-	8.750%	2008	1991	9	-	-
351	Chief Joseph	293	-	8.750%	2008	1991	9	-	-
352	Chief Joseph	3,840	-	8.750%	2029	1991	9	-	-
353	Chief Joseph	142	-	8.500%	2008	1992	9	-	-
354	Chief Joseph	717	-	8.500%	2008	1992	9	-	-
355	Chief Joseph	2,032	-	8.500%	2029	1992	9	-	-
356	Chief Joseph	42	-	7.875%	2008	1993	9	-	-
357	Chief Joseph	794	-	7.875%	2008	1993	9	-	-
358	Chief Joseph	1,360	-	7.875%	2029	1993	9	-	-
359	Chief Joseph	129	-	7.125%	2029	1994	9	-	-
360	Chief Joseph	65	-	7.125%	2029	1994	9	-	-
361	Chief Joseph	4,280	4,017	7.150%	2044	1994	9	-	-
362	Chief Joseph	15	-	7.090%	2010	1995	9	-	-
363	Chief Joseph	147	147	7.150%	2045	1995	9	-	-
364	Chief Joseph	562	562	7.150%	2045	1995	9	-	-
365	Chief Joseph	712	712	7.150%	2045	1995	9	-	-
366	Chief Joseph	784	784	7.150%	2045	1995	9	-	-
367	Chief Joseph	27	27	7.150%	2031	1996	9	-	-
368	Chief Joseph	3	3	7.150%	2046	1996	9	-	-
369	Chief Joseph	4	4	7.150%	2046	1996	9	-	-
370	Chief Joseph	355	355	7.150%	2046	1996	9	-	-
371	Chief Joseph	729	729	7.150%	2046	1996	9	-	-
372	Chief Joseph	166	166	7.150%	2032	1997	9	-	-
373	Chief Joseph	657	657	7.150%	2047	1997	9	-	-
374	Chief Joseph	345	345	5.875%	2051	2001	9	-	-
375	Chief Joseph	2	2	5.500%	2052	2002	9	-	-
376	Chief Joseph	992	992	5.125%	2053	2003	9	-	-
377	Chief Joseph	3,500	3,500	4.875%	2058	2008	9	-	-
378	Chief Joseph	24,727	24,727	4.375%	2059	2009	9	-	-
379	Chief Joseph	4	4	3.750%	2061	2011	9	-	-
380	Chief Joseph	24	24	3.375%	2062	2012	9	-	-
381	Columbia Basin	10,919	-	3.000%	1991	1941	9	-	-
382	Columbia Basin	1,505	-	3.000%	1991	1941	9	-	-
383	Columbia Basin	16,165	-	3.000%	1992	1942	9	-	-
384	Columbia Basin	3,011	-	3.000%	1992	1942	9	-	-
385	Columbia Basin	8,083	-	3.000%	1993	1943	9	-	-
386	Columbia Basin	1,505	-	3.000%	1993	1943	9	-	-
387	Columbia Basin	16,165	-	3.000%	1994	1944	9	-	-
388	Columbia Basin	3,011	-	3.000%	1994	1944	9	-	-
389	Columbia Basin	24,247	-	3.000%	1998	1948	9	-	-
390	Columbia Basin	4,516	-	3.000%	1998	1948	9	-	-
391	Columbia Basin	24,247	-	3.000%	1999	1949	9	-	-
392	Columbia Basin	4,516	-	3.000%	1999	1949	9	-	-

**TABLE 13A: HISTORICAL INVESTMENT**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

	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	16,165	-	3.000%	2000	1950	9	-	-
394	Columbia Basin	3,011	-	3.000%	2000	1950	9	-	-
395	Columbia Basin	28,255	-	6.710%	2001	1951	9	-	-
396	Columbia Basin	5,790	-	6.710%	2001	1951	9	-	-
397	Columbia Basin	258	-	6.710%	2001	1952	9	-	-
398	Columbia Basin	48	-	6.710%	2001	1952	9	-	-
399	Columbia Basin	258	-	6.710%	2001	1953	9	-	-
400	Columbia Basin	48	-	6.710%	2001	1953	9	-	-
401	Columbia Basin	258	-	6.710%	2001	1954	9	-	-
402	Columbia Basin	48	-	6.710%	2001	1954	9	-	-
403	Columbia Basin	258	-	6.710%	2001	1955	9	-	-
404	Columbia Basin	48	-	6.710%	2001	1955	9	-	-
405	Columbia Basin	259	-	6.710%	2001	1956	9	-	-
406	Columbia Basin	48	-	6.710%	2001	1956	9	-	-
407	Columbia Basin	258	-	6.710%	2001	1957	9	-	-
408	Columbia Basin	48	-	6.710%	2001	1957	9	-	-
409	Columbia Basin	258	-	6.710%	2001	1958	9	-	-
410	Columbia Basin	48	-	6.710%	2001	1958	9	-	-
411	Columbia Basin	258	-	6.710%	2001	1959	9	-	-
412	Columbia Basin	48	-	6.710%	2001	1959	9	-	-
413	Columbia Basin	258	-	6.710%	2001	1960	9	-	-
414	Columbia Basin	48	-	6.710%	2001	1960	9	-	-
415	Columbia Basin	259	-	6.710%	2001	1961	9	-	-
416	Columbia Basin	48	-	6.710%	2001	1961	9	-	-
417	Columbia Basin	258	-	6.710%	2001	1962	9	-	-
418	Columbia Basin	48	-	6.710%	2001	1962	9	-	-
419	Columbia Basin	258	-	6.710%	2001	1963	9	-	-
420	Columbia Basin	48	-	6.710%	2001	1963	9	-	-
421	Columbia Basin	258	-	6.710%	2001	1964	9	-	-
422	Columbia Basin	48	-	6.710%	2001	1964	9	-	-
423	Columbia Basin	258	-	6.710%	2001	1965	9	-	-
424	Columbia Basin	48	-	6.710%	2001	1965	9	-	-
425	Columbia Basin	259	-	6.710%	2001	1966	9	-	-
426	Columbia Basin	48	-	6.710%	2001	1966	9	-	-
427	Columbia Basin	258	-	6.710%	2001	1967	9	-	-
428	Columbia Basin	48	-	6.710%	2001	1967	9	-	-
429	Columbia Basin	758	-	7.290%	2017	1967	9	-	-
430	Columbia Basin	258	-	6.710%	2001	1968	9	-	-
431	Columbia Basin	48	-	6.710%	2001	1968	9	-	-
432	Columbia Basin	258	-	6.710%	2001	1969	9	-	-
433	Columbia Basin	48	-	6.710%	2001	1969	9	-	-
434	Columbia Basin	258	-	6.710%	2001	1970	9	-	-
435	Columbia Basin	48	-	6.710%	2001	1970	9	-	-
436	Columbia Basin	259	-	6.710%	2001	1971	9	-	-
437	Columbia Basin	48	-	6.710%	2001	1971	9	-	-
438	Columbia Basin	258	-	6.710%	2001	1972	9	-	-
439	Columbia Basin	48	-	6.710%	2001	1972	9	-	-
440	Columbia Basin	258	-	6.710%	2001	1973	9	-	-
441	Columbia Basin	48	-	6.710%	2001	1973	9	-	-
442	Columbia Basin	258	-	6.710%	2001	1974	9	-	-
443	Columbia Basin	48	-	6.710%	2001	1974	9	-	-
444	Columbia Basin	258	-	6.710%	2001	1975	9	-	-
445	Columbia Basin	48	-	6.710%	2001	1975	9	-	-
446	Columbia Basin	259	-	6.710%	2001	1976	9	-	-
447	Columbia Basin	48	-	6.710%	2001	1976	9	-	-
448	Columbia Basin	258	-	6.710%	2001	1977	9	-	-
449	Columbia Basin	48	-	6.710%	2001	1977	9	-	-
450	Columbia Basin	258	-	6.710%	2001	1978	9	-	-
451	Columbia Basin	48	-	6.710%	2001	1978	9	-	-
452	Columbia Basin	258	-	6.710%	2001	1979	9	-	-
453	Columbia Basin	48	-	6.710%	2001	1979	9	-	-
454	Columbia Basin	258	-	6.710%	2001	1980	9	-	-
455	Columbia Basin	48	-	6.710%	2001	1980	9	-	-
456	Columbia Basin	259	-	6.710%	2001	1981	9	-	-
457	Columbia Basin	48	-	6.710%	2001	1981	9	-	-



**TABLE 13A: HISTORICAL INVESTMENT**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

	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	258	-	6.710%	2001	1982	9	-	-
459	Columbia Basin	48	-	6.710%	2001	1982	9	-	-
460	Columbia Basin	258	-	6.710%	2001	1983	9	-	-
461	Columbia Basin	48	-	6.710%	2001	1983	9	-	-
462	Columbia Basin	7,815	-	10.750%	2001	1984	9	-	-
463	Columbia Basin	1,455	-	10.750%	2001	1984	9	-	-
464	Columbia Basin	236	-	6.710%	2001	1985	9	-	-
465	Columbia Basin	11	-	6.710%	2001	1985	9	-	-
466	Columbia Basin	7,338	-	12.375%	2001	1985	9	-	-
467	Columbia Basin	362	-	12.375%	2001	1985	9	-	-
468	Columbia Basin	127	-	6.710%	2001	1986	9	-	-
469	Columbia Basin	13	-	6.710%	2001	1987	9	-	-
470	Columbia Basin	184	-	8.500%	2001	1988	9	-	-
471	Columbia Basin	2	-	8.500%	2001	1988	9	-	-
472	Columbia Basin	1,166	-	9.250%	2001	1989	9	-	-
473	Columbia Basin	928	-	8.875%	2001	1990	9	-	-
474	Columbia Basin	177	-	8.750%	2001	1991	9	-	-
475	Columbia Basin	1,661	-	8.750%	2001	1991	9	-	-
476	Columbia Basin	445	-	8.500%	2001	1992	9	-	-
477	Columbia Basin	652	-	8.500%	2001	1992	9	-	-
478	Columbia Basin	792	-	6.710%	2001	1993	9	-	-
479	Columbia Basin	25	-	6.620%	2000	1995	9	-	-
480	Columbia Basin	206	-	7.250%	2020	1995	9	-	-
481	Columbia Basin	25	-	7.150%	2030	1995	9	-	-
482	Columbia Basin	20	-	7.860%	2030	1995	9	-	-
483	Columbia Basin	270	-	7.860%	2030	1995	9	-	-
484	Columbia Basin	321	-	7.860%	2030	1995	9	-	-
485	Columbia Basin	323	-	7.860%	2030	1995	9	-	-
486	Columbia Basin	287	287	7.150%	2045	1995	9	-	-
487	Columbia Basin	2,511	2,453	7.150%	2045	1995	9	-	-
488	Columbia Basin	450	-	7.860%	2045	1995	9	-	-
489	Columbia Basin	450	-	7.860%	2045	1995	9	-	-
490	Columbia Basin	72	72	7.150%	2026	1996	9	-	-
491	Columbia Basin	109	109	7.150%	2031	1996	9	-	-
492	Columbia Basin	251	251	7.150%	2031	1996	9	-	-
493	Columbia Basin	426	426	7.150%	2046	1996	9	-	-
494	Columbia Basin	368	368	7.150%	2046	1996	9	-	-
495	Columbia Basin	3,393	3,393	7.150%	2047	1997	9	-	-
496	Columbia Basin	69,226	69,226	5.875%	2051	2001	9	-	-
497	Columbia Basin	10,963	10,963	5.125%	2055	2005	9	-	-
498	Columbia Basin	1,987	1,987	4.500%	2056	2006	9	-	-
499	Columbia Basin	929	929	5.000%	2057	2007	9	-	-
500	Columbia Basin	835	835	4.875%	2058	2008	9	-	-
501	Columbia Basin	1,338	1,338	4.375%	2059	2009	9	-	-
502	Columbia Basin	877	877	4.250%	2060	2010	9	-	-
503	Columbia Basin	1,723	1,723	3.750%	2061	2011	9	-	-
504	Columbia Basin 3rd Powerhouse	47,328	36,690	7.160%	2025	1975	9	-	-
505	Columbia Basin 3rd Powerhouse	8,702	7,435	7.160%	2025	1975	9	-	-
506	Columbia Basin 3rd Powerhouse	41,330	41,330	7.150%	2026	1976	9	-	-
507	Columbia Basin 3rd Powerhouse	8,037	8,037	7.150%	2026	1976	9	-	-
508	Columbia Basin 3rd Powerhouse	42,764	42,764	7.150%	2027	1977	9	-	-
509	Columbia Basin 3rd Powerhouse	7,964	7,964	7.150%	2027	1977	9	-	-
510	Columbia Basin 3rd Powerhouse	42,399	42,399	7.150%	2028	1978	9	-	-
511	Columbia Basin 3rd Powerhouse	7,896	7,896	7.150%	2028	1978	9	-	-
512	Columbia Basin 3rd Powerhouse	84,118	84,118	7.150%	2029	1979	9	-	-
513	Columbia Basin 3rd Powerhouse	15,666	15,666	7.150%	2029	1979	9	-	-
514	Columbia Basin 3rd Powerhouse	712	712	7.150%	2033	1983	9	-	-
515	Columbia Basin 3rd Powerhouse	13,003	13,003	7.150%	2033	1983	9	-	-
516	Columbia Basin 3rd Powerhouse	16,965	16,965	7.150%	2033	1984	9	-	-
517	Columbia Basin 3rd Powerhouse	13,192	13,192	7.150%	2033	1984	9	-	-
518	Columbia Basin 3rd Powerhouse	3,160	3,160	7.150%	2033	1984	9	-	-
519	Columbia Basin 3rd Powerhouse	2,060	2,060	7.150%	2033	1985	9	-	-
520	Columbia Basin 3rd Powerhouse	41,772	41,772	7.150%	2033	1985	9	-	-
521	Columbia Basin 3rd Powerhouse	107	107	7.150%	2033	1985	9	-	-
522	Columbia Basin 3rd Powerhouse	1,851	1,851	7.150%	2033	1986	9	-	-

**TABLE 13A: HISTORICAL INVESTMENT**  
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**(\$000s) (FY 2015)**

	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	15,538	15,538	7.150%	2033	1986	9	-	-
524	Columbia Basin 3rd Powerhouse	1,730	1,730	7.150%	2033	1987	9	-	-
525	Columbia Basin 3rd Powerhouse	14,439	14,439	7.150%	2033	1987	9	-	-
526	Columbia Basin 3rd Powerhouse	2,294	2,294	7.150%	2033	1988	9	-	-
527	Columbia Basin 3rd Powerhouse	4,351	4,351	7.150%	2033	1988	9	-	-
528	Columbia Basin 3rd Powerhouse	10,902	10,902	7.150%	2033	1989	9	-	-
529	Columbia Basin 3rd Powerhouse	6,383	6,383	7.150%	2033	1990	9	-	-
530	Columbia Basin 3rd Powerhouse	12,631	12,631	7.150%	2044	1994	9	-	-
531	Columbia River Fish Mitigation	3,969	-	8.500%	2041	1991	9	-	-
532	Columbia River Fish Mitigation	874	-	8.500%	2042	1992	9	-	-
533	Columbia River Fish Mitigation	85,846	-	8.500%	2043	1993	9	-	-
534	Columbia River Fish Mitigation	39,454	-	8.500%	2044	1994	9	-	-
535	Columbia River Fish Mitigation	43,343	39,282	7.150%	2045	1995	9	-	-
536	Columbia River Fish Mitigation	2,431	2,431	7.150%	2046	1996	9	-	-
537	Columbia River Fish Mitigation	14,115	14,115	5.375%	2049	1999	9	-	-
538	Columbia River Fish Mitigation	47,006	47,006	6.125%	2050	2000	9	-	-
539	Columbia River Fish Mitigation	6,168	6,168	5.875%	2051	2001	9	-	-
540	Columbia River Fish Mitigation	8,797	8,797	5.500%	2052	2002	9	-	-
541	Columbia River Fish Mitigation	68,440	68,440	5.125%	2053	2003	9	-	-
542	Columbia River Fish Mitigation	60,581	60,581	5.375%	2054	2004	9	-	-
543	Columbia River Fish Mitigation	52,039	52,039	5.125%	2055	2005	9	-	-
544	Columbia River Fish Mitigation	366,395	366,395	4.500%	2056	2006	9	-	-
545	Columbia River Fish Mitigation	53,525	53,525	5.000%	2057	2007	9	-	-
546	Columbia River Fish Mitigation	36,554	36,554	4.875%	2058	2008	9	-	-
547	Columbia River Fish Mitigation	103,203	103,203	4.375%	2059	2009	9	-	-
548	Columbia River Fish Mitigation	56,832	56,832	4.250%	2060	2010	9	-	-
549	Columbia River Fish Mitigation	106,014	106,014	3.750%	2061	2011	9	-	-
550	Columbia River Fish Mitigation	102,794	102,794	3.375%	2062	2012	9	-	-
551	Cougar	10,414	-	7.230%	2014	1964	9	-	-
552	Cougar	20	-	7.230%	2014	1965	9	-	-
553	Cougar	20	-	7.230%	2014	1966	9	-	-
554	Cougar	20	-	7.230%	2014	1967	9	-	-
555	Cougar	20	-	7.230%	2014	1968	9	-	-
556	Cougar	20	-	7.230%	2014	1969	9	-	-
557	Cougar	20	-	7.230%	2014	1970	9	-	-
558	Cougar	20	-	7.230%	2014	1971	9	-	-
559	Cougar	20	-	7.230%	2014	1972	9	-	-
560	Cougar	20	-	7.230%	2014	1973	9	-	-
561	Cougar	19	-	7.230%	2014	1974	9	-	-
562	Cougar	20	-	7.230%	2014	1975	9	-	-
563	Cougar	20	-	7.230%	2014	1976	9	-	-
564	Cougar	20	-	7.230%	2014	1977	9	-	-
565	Cougar	20	-	7.230%	2014	1978	9	-	-
566	Cougar	20	-	7.230%	2014	1979	9	-	-
567	Cougar	20	-	7.230%	2014	1980	9	-	-
568	Cougar	20	-	7.230%	2014	1981	9	-	-
569	Cougar	20	-	7.230%	2014	1982	9	-	-
570	Cougar	20	-	7.230%	2014	1983	9	-	-
571	Cougar	1	-	10.750%	2014	1984	9	-	-
572	Cougar	1	-	7.230%	2014	1985	9	-	-
573	Cougar	104	-	7.230%	2014	1986	9	-	-
574	Cougar	55	-	11.375%	2014	1986	9	-	-
575	Cougar	45	-	7.230%	2014	1987	9	-	-
576	Cougar	2	-	8.500%	2014	1988	9	-	-
577	Cougar	6	-	9.250%	2014	1989	9	-	-
578	Cougar	10	-	8.875%	2014	1990	9	-	-
579	Cougar	1,015	-	8.750%	2014	1991	9	-	-
580	Cougar	1	-	8.750%	2014	1991	9	-	-
581	Cougar	2	-	8.500%	2014	1992	9	-	-
582	Cougar	539	-	7.875%	2014	1993	9	-	-
583	Cougar	31	-	7.125%	2019	1994	9	-	-
584	Cougar	3	-	7.330%	2000	1995	9	-	-
585	Cougar	26	26	7.150%	2047	1997	9	-	-
586	Cougar	3,622	3,622	5.375%	2054	2004	9	-	-
587	Cougar	8,130	8,130	5.125%	2055	2005	9	-	-

**TABLE 13A: HISTORICAL INVESTMENT**  
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**(\$000s) (FY 2015)**

	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	Cougar	109	109	4.500%	2056	2006	9	-	-
589	Cougar	120	120	5.000%	2057	2007	9	-	-
590	Cougar	121	121	4.375%	2059	2009	9	-	-
591	Cougar	59	59	4.250%	2060	2010	9	-	-
592	Cougar	282	282	3.750%	2061	2011	9	-	-
593	Cougar	170	170	3.375%	2062	2012	9	-	-
594	Detroit Lake/Big Cliff	12,533	-	6.840%	2003	1953	9	-	-
595	Detroit Lake/Big Cliff	20,162	-	6.880%	2004	1954	9	-	-
596	Detroit Lake/Big Cliff	18	-	6.880%	2004	1955	9	-	-
597	Detroit Lake/Big Cliff	19	-	6.880%	2004	1956	9	-	-
598	Detroit Lake/Big Cliff	18	-	6.880%	2004	1957	9	-	-
599	Detroit Lake/Big Cliff	19	-	6.880%	2004	1958	9	-	-
600	Detroit Lake/Big Cliff	18	-	6.880%	2004	1959	9	-	-
601	Detroit Lake/Big Cliff	19	-	6.880%	2004	1960	9	-	-
602	Detroit Lake/Big Cliff	18	-	6.880%	2004	1961	9	-	-
603	Detroit Lake/Big Cliff	19	-	6.880%	2004	1962	9	-	-
604	Detroit Lake/Big Cliff	18	-	6.880%	2004	1963	9	-	-
605	Detroit Lake/Big Cliff	19	-	6.880%	2004	1964	9	-	-
606	Detroit Lake/Big Cliff	18	-	6.880%	2004	1965	9	-	-
607	Detroit Lake/Big Cliff	19	-	6.880%	2004	1966	9	-	-
608	Detroit Lake/Big Cliff	18	-	6.880%	2004	1967	9	-	-
609	Detroit Lake/Big Cliff	19	-	6.880%	2004	1968	9	-	-
610	Detroit Lake/Big Cliff	18	-	6.880%	2004	1969	9	-	-
611	Detroit Lake/Big Cliff	19	-	6.880%	2004	1970	9	-	-
612	Detroit Lake/Big Cliff	18	-	6.880%	2004	1971	9	-	-
613	Detroit Lake/Big Cliff	19	-	6.880%	2004	1972	9	-	-
614	Detroit Lake/Big Cliff	18	-	6.880%	2004	1973	9	-	-
615	Detroit Lake/Big Cliff	19	-	6.880%	2004	1974	9	-	-
616	Detroit Lake/Big Cliff	18	-	6.880%	2004	1975	9	-	-
617	Detroit Lake/Big Cliff	19	-	6.880%	2004	1976	9	-	-
618	Detroit Lake/Big Cliff	18	-	6.880%	2004	1977	9	-	-
619	Detroit Lake/Big Cliff	19	-	6.880%	2004	1978	9	-	-
620	Detroit Lake/Big Cliff	18	-	6.880%	2004	1979	9	-	-
621	Detroit Lake/Big Cliff	19	-	6.880%	2004	1980	9	-	-
622	Detroit Lake/Big Cliff	18	-	6.880%	2004	1981	9	-	-
623	Detroit Lake/Big Cliff	19	-	6.880%	2004	1982	9	-	-
624	Detroit Lake/Big Cliff	18	-	6.880%	2004	1983	9	-	-
625	Detroit Lake/Big Cliff	21	-	10.750%	2004	1984	9	-	-
626	Detroit Lake/Big Cliff	6	-	6.880%	2004	1985	9	-	-
627	Detroit Lake/Big Cliff	38	-	11.375%	2004	1986	9	-	-
628	Detroit Lake/Big Cliff	3	-	6.880%	2004	1987	9	-	-
629	Detroit Lake/Big Cliff	233	-	8.875%	2004	1987	9	-	-
630	Detroit Lake/Big Cliff	68	-	8.500%	2004	1988	9	-	-
631	Detroit Lake/Big Cliff	26	-	9.250%	2004	1989	9	-	-
632	Detroit Lake/Big Cliff	115	-	8.875%	2004	1990	9	-	-
633	Detroit Lake/Big Cliff	9	-	8.750%	2004	1991	9	-	-
634	Detroit Lake/Big Cliff	20	-	8.750%	2004	1991	9	-	-
635	Detroit Lake/Big Cliff	8	-	8.500%	2004	1992	9	-	-
636	Detroit Lake/Big Cliff	211	-	7.875%	2004	1993	9	-	-
637	Detroit Lake/Big Cliff	7	-	7.125%	1999	1994	9	-	-
638	Detroit Lake/Big Cliff	13	-	7.330%	2000	1995	9	-	-
639	Detroit Lake/Big Cliff	38	38	7.150%	2045	1995	9	-	-
640	Detroit Lake/Big Cliff	24	-	6.950%	2006	1996	9	-	-
641	Detroit Lake/Big Cliff	282	282	5.875%	2051	2001	9	-	-
642	Detroit Lake/Big Cliff	18	18	5.500%	2052	2002	9	-	-
643	Detroit Lake/Big Cliff	223	223	5.125%	2053	2003	9	-	-
644	Detroit Lake/Big Cliff	1,031	1,031	5.125%	2055	2005	9	-	-
645	Dworshak	138,443	76,000	7.190%	2014	1973	9	-	-
646	Dworshak	138,443	15,942	7.190%	2023	1973	9	-	-
647	Dworshak	836	-	7.190%	2023	1973	9	-	-
648	Dworshak	515	-	7.190%	2023	1974	9	-	-
649	Dworshak	3	-	7.190%	2023	1974	9	-	-
650	Dworshak	518	-	7.190%	2023	1975	9	-	-
651	Dworshak	3	-	7.190%	2023	1975	9	-	-
652	Dworshak	518	-	7.190%	2023	1976	9	-	-

**TABLE 13A: HISTORICAL INVESTMENT**  
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**(\$000s) (FY 2015)**

	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	-	7.190%	2023	1976	9	-	-
654	Dworshak	518	-	7.190%	2023	1977	9	-	-
655	Dworshak	3	-	7.190%	2023	1977	9	-	-
656	Dworshak	518	-	7.190%	2023	1978	9	-	-
657	Dworshak	3	-	7.190%	2023	1978	9	-	-
658	Dworshak	518	-	7.190%	2023	1979	9	-	-
659	Dworshak	3	-	7.190%	2023	1979	9	-	-
660	Dworshak	518	-	7.190%	2023	1980	9	-	-
661	Dworshak	3	-	7.190%	2023	1980	9	-	-
662	Dworshak	518	-	7.190%	2023	1981	9	-	-
663	Dworshak	3	-	7.190%	2023	1981	9	-	-
664	Dworshak	518	-	7.190%	2023	1982	9	-	-
665	Dworshak	3	-	7.190%	2023	1982	9	-	-
666	Dworshak	523	-	7.190%	2023	1983	9	-	-
667	Dworshak	3	-	7.190%	2023	1983	9	-	-
668	Dworshak	2,499	-	10.750%	2023	1984	9	-	-
669	Dworshak	15	-	10.750%	2023	1984	9	-	-
670	Dworshak	1,141	-	7.190%	2023	1985	9	-	-
671	Dworshak	197	-	7.190%	2023	1986	9	-	-
672	Dworshak	36	-	7.190%	2023	1987	9	-	-
673	Dworshak	65	-	8.875%	2023	1987	9	-	-
674	Dworshak	61	-	8.500%	2023	1988	9	-	-
675	Dworshak	63	-	9.250%	2023	1989	9	-	-
676	Dworshak	245	-	8.875%	2023	1990	9	-	-
677	Dworshak	24	-	8.875%	2023	1990	9	-	-
678	Dworshak	224	-	8.750%	2023	1991	9	-	-
679	Dworshak	4	-	2.625%	2023	1992	9	-	-
680	Dworshak	28	-	8.500%	2023	1992	9	-	-
681	Dworshak	24	-	8.500%	2023	1992	9	-	-
682	Dworshak	41	-	7.875%	2023	1993	9	-	-
683	Dworshak	1,872	-	7.875%	2023	1993	9	-	-
684	Dworshak	1,351	-	7.125%	2029	1994	9	-	-
685	Dworshak	964	-	7.125%	2029	1994	9	-	-
686	Dworshak	55	-	7.930%	2020	1995	9	-	-
687	Dworshak	218	218	7.150%	2030	1995	9	-	-
688	Dworshak	1,162	1,162	7.150%	2045	1995	9	-	-
689	Dworshak	107	-	7.130%	2011	1996	9	-	-
690	Dworshak	26	-	7.230%	2021	1996	9	-	-
691	Dworshak	184	-	7.230%	2021	1996	9	-	-
692	Dworshak	6	6	7.150%	2031	1996	9	-	-
693	Dworshak	203	203	7.150%	2031	1996	9	-	-
694	Dworshak	3	3	7.150%	2046	1996	9	-	-
695	Dworshak	4	4	7.150%	2046	1996	9	-	-
696	Dworshak	46	46	7.150%	2046	1996	9	-	-
697	Dworshak	7,588	7,588	7.150%	2047	1997	9	-	-
698	Dworshak	630	630	5.375%	2049	1999	9	-	-
699	Dworshak	199	199	5.500%	2052	2002	9	-	-
700	Dworshak	761	761	5.125%	2053	2003	9	-	-
701	Dworshak	713	713	5.125%	2055	2005	9	-	-
702	Dworshak	73	73	4.500%	2056	2006	9	-	-
703	Dworshak	10	10	4.875%	2058	2008	9	-	-
704	Dworshak	2,480	2,480	4.375%	2059	2009	9	-	-
705	Green Peter/Foster	24,445	-	7.290%	2017	1967	9	-	-
706	Green Peter/Foster	12,180	-	7.280%	2018	1968	9	-	-
707	Green Peter/Foster	39	-	7.280%	2018	1969	9	-	-
708	Green Peter/Foster	40	-	7.280%	2018	1970	9	-	-
709	Green Peter/Foster	39	-	7.280%	2018	1971	9	-	-
710	Green Peter/Foster	39	-	7.280%	2018	1972	9	-	-
711	Green Peter/Foster	39	-	7.280%	2018	1973	9	-	-
712	Green Peter/Foster	39	-	7.280%	2018	1974	9	-	-
713	Green Peter/Foster	39	-	7.280%	2018	1975	9	-	-
714	Green Peter/Foster	39	-	7.280%	2018	1976	9	-	-
715	Green Peter/Foster	39	-	7.280%	2018	1977	9	-	-
716	Green Peter/Foster	39	-	7.280%	2018	1978	9	-	-
717	Green Peter/Foster	39	-	7.280%	2018	1979	9	-	-

**TABLE 13A: HISTORICAL INVESTMENT**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

	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	40	-	7.280%	2018	1980	9	-	-
719	Green Peter/Foster	39	-	7.280%	2018	1981	9	-	-
720	Green Peter/Foster	39	-	7.280%	2018	1982	9	-	-
721	Green Peter/Foster	39	-	7.280%	2018	1983	9	-	-
722	Green Peter/Foster	15	-	10.750%	2018	1984	9	-	-
723	Green Peter/Foster	16	-	7.280%	2018	1985	9	-	-
724	Green Peter/Foster	3	-	7.280%	2018	1986	9	-	-
725	Green Peter/Foster	3	-	11.375%	2018	1986	9	-	-
726	Green Peter/Foster	1	-	7.280%	2018	1987	9	-	-
727	Green Peter/Foster	2	-	8.875%	2018	1987	9	-	-
728	Green Peter/Foster	13	-	8.500%	2018	1988	9	-	-
729	Green Peter/Foster	24	-	9.250%	2018	1989	9	-	-
730	Green Peter/Foster	5	-	8.875%	2018	1990	9	-	-
731	Green Peter/Foster	48	-	8.750%	2018	1991	9	-	-
732	Green Peter/Foster	2	-	8.500%	2018	1992	9	-	-
733	Green Peter/Foster	41	-	7.875%	2018	1993	9	-	-
734	Green Peter/Foster	6	-	7.125%	1999	1994	9	-	-
735	Green Peter/Foster	4	-	7.330%	2000	1995	9	-	-
736	Green Peter/Foster	11	-	7.250%	2020	1995	9	-	-
737	Green Peter/Foster	24	-	7.250%	2020	1995	9	-	-
738	Green Peter/Foster	26	26	7.150%	2046	1996	9	-	-
739	Green Peter/Foster	200	200	5.875%	2051	2001	9	-	-
740	Green Peter/Foster	87	87	3.750%	2061	2011	9	-	-
741	Green Peter/Foster	44	44	3.375%	2062	2012	9	-	-
742	Hills Creek	10,353	-	7.160%	2012	1962	9	-	-
743	Hills Creek	12	-	7.160%	2012	1963	9	-	-
744	Hills Creek	13	-	7.160%	2012	1964	9	-	-
745	Hills Creek	13	-	7.160%	2012	1965	9	-	-
746	Hills Creek	13	-	7.160%	2012	1966	9	-	-
747	Hills Creek	13	-	7.160%	2012	1967	9	-	-
748	Hills Creek	13	-	7.160%	2012	1968	9	-	-
749	Hills Creek	13	-	7.160%	2012	1969	9	-	-
750	Hills Creek	13	-	7.160%	2012	1970	9	-	-
751	Hills Creek	13	-	7.160%	2012	1971	9	-	-
752	Hills Creek	13	-	7.160%	2012	1972	9	-	-
753	Hills Creek	13	-	7.160%	2012	1973	9	-	-
754	Hills Creek	13	-	7.160%	2012	1974	9	-	-
755	Hills Creek	13	-	7.160%	2012	1975	9	-	-
756	Hills Creek	13	-	7.160%	2012	1976	9	-	-
757	Hills Creek	13	-	7.160%	2012	1977	9	-	-
758	Hills Creek	13	-	7.160%	2012	1978	9	-	-
759	Hills Creek	13	-	7.160%	2012	1979	9	-	-
760	Hills Creek	13	-	7.160%	2012	1980	9	-	-
761	Hills Creek	13	-	7.160%	2012	1981	9	-	-
762	Hills Creek	13	-	7.160%	2012	1982	9	-	-
763	Hills Creek	13	-	7.160%	2012	1983	9	-	-
764	Hills Creek	52	-	10.750%	2012	1984	9	-	-
765	Hills Creek	6	-	7.160%	2012	1985	9	-	-
766	Hills Creek	3	-	8.875%	2012	1987	9	-	-
767	Hills Creek	3	-	8.500%	2012	1988	9	-	-
768	Hills Creek	3	-	8.875%	2012	1990	9	-	-
769	Hills Creek	17	-	8.750%	2012	1991	9	-	-
770	Hills Creek	1	-	8.500%	2012	1992	9	-	-
771	Hills Creek	13	-	7.875%	2012	1993	9	-	-
772	Hills Creek	28	28	7.150%	2046	1996	9	-	-
773	Hills Creek	2,630	2,630	6.125%	2050	2000	9	-	-
774	Hills Creek	8	8	5.875%	2051	2001	9	-	-
775	Hills Creek	2	2	5.500%	2052	2002	9	-	-
776	Hills Creek	46	46	5.125%	2055	2005	9	-	-
777	Hills Creek	12	12	3.750%	2061	2011	9	-	-
778	Hills Creek	142	142	3.375%	2062	2012	9	-	-
779	Hungry Horse Dam	75,076	-	6.840%	2003	1953	9	-	-
780	Hungry Horse Dam	2,126	-	6.840%	2003	1953	9	-	-
781	Hungry Horse Dam	17	-	6.840%	2003	1954	9	-	-
782	Hungry Horse Dam	1	-	6.840%	2003	1954	9	-	-

**TABLE 13A: HISTORICAL INVESTMENT**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

	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	17	-	6.840%	2003	1955	9	-	-
784	Hungry Horse Dam	1	-	6.840%	2003	1955	9	-	-
785	Hungry Horse Dam	17	-	6.840%	2003	1956	9	-	-
786	Hungry Horse Dam	1	-	6.840%	2003	1956	9	-	-
787	Hungry Horse Dam	18	-	6.840%	2003	1957	9	-	-
788	Hungry Horse Dam	1	-	6.840%	2003	1957	9	-	-
789	Hungry Horse Dam	18	-	6.840%	2003	1958	9	-	-
790	Hungry Horse Dam	1	-	6.840%	2003	1958	9	-	-
791	Hungry Horse Dam	18	-	6.840%	2003	1959	9	-	-
792	Hungry Horse Dam	1	-	6.840%	2003	1959	9	-	-
793	Hungry Horse Dam	18	-	6.840%	2003	1960	9	-	-
794	Hungry Horse Dam	1	-	6.840%	2003	1960	9	-	-
795	Hungry Horse Dam	18	-	6.840%	2003	1961	9	-	-
796	Hungry Horse Dam	1	-	6.840%	2003	1961	9	-	-
797	Hungry Horse Dam	18	-	6.840%	2003	1962	9	-	-
798	Hungry Horse Dam	1	-	6.840%	2003	1962	9	-	-
799	Hungry Horse Dam	18	-	6.840%	2003	1963	9	-	-
800	Hungry Horse Dam	1	-	6.840%	2003	1963	9	-	-
801	Hungry Horse Dam	17	-	6.840%	2003	1964	9	-	-
802	Hungry Horse Dam	1	-	6.840%	2003	1964	9	-	-
803	Hungry Horse Dam	17	-	6.840%	2003	1965	9	-	-
804	Hungry Horse Dam	1	-	6.840%	2003	1965	9	-	-
805	Hungry Horse Dam	17	-	6.840%	2003	1966	9	-	-
806	Hungry Horse Dam	1	-	6.840%	2003	1966	9	-	-
807	Hungry Horse Dam	18	-	6.840%	2003	1967	9	-	-
808	Hungry Horse Dam	1	-	6.840%	2003	1967	9	-	-
809	Hungry Horse Dam	18	-	6.840%	2003	1968	9	-	-
810	Hungry Horse Dam	1	-	6.840%	2003	1968	9	-	-
811	Hungry Horse Dam	18	-	6.840%	2003	1969	9	-	-
812	Hungry Horse Dam	1	-	6.840%	2003	1969	9	-	-
813	Hungry Horse Dam	18	-	6.840%	2003	1970	9	-	-
814	Hungry Horse Dam	1	-	6.840%	2003	1970	9	-	-
815	Hungry Horse Dam	18	-	6.840%	2003	1971	9	-	-
816	Hungry Horse Dam	1	-	6.840%	2003	1971	9	-	-
817	Hungry Horse Dam	18	-	6.840%	2003	1972	9	-	-
818	Hungry Horse Dam	1	-	6.840%	2003	1972	9	-	-
819	Hungry Horse Dam	18	-	6.840%	2003	1973	9	-	-
820	Hungry Horse Dam	1	-	6.840%	2003	1973	9	-	-
821	Hungry Horse Dam	17	-	6.840%	2003	1974	9	-	-
822	Hungry Horse Dam	1	-	6.840%	2003	1974	9	-	-
823	Hungry Horse Dam	17	-	6.840%	2003	1975	9	-	-
824	Hungry Horse Dam	1	-	6.840%	2003	1975	9	-	-
825	Hungry Horse Dam	10	-	6.840%	2003	1976	9	-	-
826	Hungry Horse Dam	1	-	6.840%	2003	1976	9	-	-
827	Hungry Horse Dam	18	-	6.840%	2003	1977	9	-	-
828	Hungry Horse Dam	1	-	6.840%	2003	1977	9	-	-
829	Hungry Horse Dam	18	-	6.840%	2003	1978	9	-	-
830	Hungry Horse Dam	1	-	6.840%	2003	1978	9	-	-
831	Hungry Horse Dam	18	-	6.840%	2003	1979	9	-	-
832	Hungry Horse Dam	1	-	6.840%	2003	1979	9	-	-
833	Hungry Horse Dam	18	-	6.840%	2003	1980	9	-	-
834	Hungry Horse Dam	1	-	6.840%	2003	1980	9	-	-
835	Hungry Horse Dam	22	-	6.840%	2003	1981	9	-	-
836	Hungry Horse Dam	1	-	6.840%	2003	1981	9	-	-
837	Hungry Horse Dam	1	-	6.840%	2003	1982	9	-	-
838	Hungry Horse Dam	12	-	6.840%	2003	1983	9	-	-
839	Hungry Horse Dam	1	-	6.840%	2003	1983	9	-	-
840	Hungry Horse Dam	32	-	10.750%	2003	1984	9	-	-
841	Hungry Horse Dam	1	-	10.750%	2003	1984	9	-	-
842	Hungry Horse Dam	36	-	12.375%	2003	1985	9	-	-
843	Hungry Horse Dam	37	-	12.375%	2003	1985	9	-	-
844	Hungry Horse Dam	101	-	9.250%	2003	1989	9	-	-
845	Hungry Horse Dam	58	-	8.875%	2003	1990	9	-	-
846	Hungry Horse Dam	19	-	8.750%	2003	1991	9	-	-
847	Hungry Horse Dam	9	-	8.500%	2003	1992	9	-	-

**TABLE 13A: HISTORICAL INVESTMENT**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

	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	4,136	-	7.875%	2003	1993	9	-	-
849	Hungry Horse Dam	2	-	7.875%	2003	1993	9	-	-
850	Hungry Horse Dam	56	-	7.125%	2019	1994	9	-	-
851	Hungry Horse Dam	156	-	6.620%	2000	1995	9	-	-
852	Hungry Horse Dam	84	-	6.620%	2000	1995	9	-	-
853	Hungry Horse Dam	450	-	7.930%	2020	1995	9	-	-
854	Hungry Horse Dam	536	536	7.150%	2030	1995	9	-	-
855	Hungry Horse Dam	1,198	1,195	7.150%	2030	1995	9	-	-
856	Hungry Horse Dam	6,190	6,190	7.150%	2045	1995	9	-	-
857	Hungry Horse Dam	14,354	-	7.860%	2045	1995	9	-	-
858	Hungry Horse Dam	15	15	7.150%	2046	1996	9	-	-
859	Hungry Horse Dam	2	2	7.150%	2046	1996	9	-	-
860	Hungry Horse Dam	154	-	6.950%	2007	1997	9	-	-
861	Hungry Horse Dam	111	111	7.150%	2047	1997	9	-	-
862	Hungry Horse Dam	552	552	5.875%	2051	2001	9	-	-
863	Hungry Horse Dam	2,951	2,951	5.125%	2055	2005	9	-	-
864	Hungry Horse Dam	294	294	5.000%	2057	2007	9	-	-
865	Hungry Horse Dam	76	76	4.875%	2058	2008	9	-	-
866	Hungry Horse Dam	60	60	4.375%	2059	2009	9	-	-
867	Hungry Horse Dam	779	779	4.250%	2060	2010	9	-	-
868	Hungry Horse Dam	503	503	3.750%	2061	2011	9	-	-
869	Hungry Horse Dam	3	3	3.375%	2062	2012	9	-	-
870	Ice Harbor	664	-	7.160%	2012	1962	9	-	-
871	Ice Harbor	59,699	-	7.160%	2012	1962	9	-	-
872	Ice Harbor	46	-	7.160%	2012	1963	9	-	-
873	Ice Harbor	1	-	7.160%	2012	1963	9	-	-
874	Ice Harbor	46	-	7.160%	2012	1964	9	-	-
875	Ice Harbor	1	-	7.160%	2012	1964	9	-	-
876	Ice Harbor	46	-	7.160%	2012	1965	9	-	-
877	Ice Harbor	1	-	7.160%	2012	1965	9	-	-
878	Ice Harbor	46	-	7.160%	2012	1966	9	-	-
879	Ice Harbor	1	-	7.160%	2012	1966	9	-	-
880	Ice Harbor	46	-	7.160%	2012	1967	9	-	-
881	Ice Harbor	1	-	7.160%	2012	1967	9	-	-
882	Ice Harbor	46	-	7.160%	2012	1968	9	-	-
883	Ice Harbor	1	-	7.160%	2012	1968	9	-	-
884	Ice Harbor	46	-	7.160%	2012	1969	9	-	-
885	Ice Harbor	1	-	7.160%	2012	1969	9	-	-
886	Ice Harbor	46	-	7.160%	2012	1970	9	-	-
887	Ice Harbor	1	-	7.160%	2012	1970	9	-	-
888	Ice Harbor	46	-	7.160%	2012	1971	9	-	-
889	Ice Harbor	1	-	7.160%	2012	1971	9	-	-
890	Ice Harbor	46	-	7.160%	2012	1972	9	-	-
891	Ice Harbor	1	-	7.160%	2012	1972	9	-	-
892	Ice Harbor	46	-	7.160%	2012	1973	9	-	-
893	Ice Harbor	1	-	7.160%	2012	1973	9	-	-
894	Ice Harbor	46	-	7.160%	2012	1974	9	-	-
895	Ice Harbor	1	-	7.160%	2012	1974	9	-	-
896	Ice Harbor	46	-	7.160%	2012	1975	9	-	-
897	Ice Harbor	1	-	7.160%	2012	1975	9	-	-
898	Ice Harbor	46	-	7.160%	2012	1976	9	-	-
899	Ice Harbor	1	-	7.160%	2012	1976	9	-	-
900	Ice Harbor	20,472	20,472	7.150%	2026	1976	9	-	-
901	Ice Harbor	228	228	7.150%	2026	1976	9	-	-
902	Ice Harbor	46	-	7.160%	2012	1977	9	-	-
903	Ice Harbor	1	-	7.160%	2012	1977	9	-	-
904	Ice Harbor	46	-	7.160%	2012	1978	9	-	-
905	Ice Harbor	1	-	7.160%	2012	1978	9	-	-
906	Ice Harbor	46	-	7.160%	2012	1979	9	-	-
907	Ice Harbor	1	-	7.160%	2012	1979	9	-	-
908	Ice Harbor	46	-	7.160%	2012	1980	9	-	-
909	Ice Harbor	1	-	7.160%	2012	1980	9	-	-
910	Ice Harbor	46	-	7.160%	2012	1981	9	-	-
911	Ice Harbor	1	-	7.160%	2012	1981	9	-	-
912	Ice Harbor	46	-	7.160%	2012	1982	9	-	-

**TABLE 13A: HISTORICAL INVESTMENT**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

	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	1	-	7.160%	2012	1982	9	-	-
914	Ice Harbor	46	-	7.160%	2012	1983	9	-	-
915	Ice Harbor	1	-	7.160%	2012	1983	9	-	-
916	Ice Harbor	41	-	7.160%	2012	1985	9	-	-
917	Ice Harbor	21	21	7.150%	2026	1985	9	-	-
918	Ice Harbor	137	-	7.160%	2012	1986	9	-	-
919	Ice Harbor	3	-	7.160%	2012	1987	9	-	-
920	Ice Harbor	71	-	8.875%	2012	1987	9	-	-
921	Ice Harbor	1	-	8.875%	2012	1987	9	-	-
922	Ice Harbor	8	-	8.500%	2012	1988	9	-	-
923	Ice Harbor	57	-	8.500%	2012	1988	9	-	-
924	Ice Harbor	51	-	9.250%	2012	1989	9	-	-
925	Ice Harbor	427	-	8.875%	2012	1990	9	-	-
926	Ice Harbor	348	-	8.750%	2012	1991	9	-	-
927	Ice Harbor	177	-	8.500%	2012	1992	9	-	-
928	Ice Harbor	3,192	-	7.875%	2012	1993	9	-	-
929	Ice Harbor	1,645	-	7.875%	2012	1993	9	-	-
930	Ice Harbor	328	-	7.125%	2029	1994	9	-	-
931	Ice Harbor	520	-	7.125%	2029	1994	9	-	-
932	Ice Harbor	2	-	7.330%	2000	1995	9	-	-
933	Ice Harbor	84	-	7.270%	2019	1995	9	-	-
934	Ice Harbor	171	-	7.270%	2019	1995	9	-	-
935	Ice Harbor	849	-	7.270%	2019	1995	9	-	-
936	Ice Harbor	78	78	7.150%	2031	1996	9	-	-
937	Ice Harbor	371	371	7.150%	2041	1996	9	-	-
938	Ice Harbor	66	-	7.230%	2022	1997	9	-	-
939	Ice Harbor	67	67	7.150%	2047	1997	9	-	-
940	Ice Harbor	5,516	5,516	5.375%	2049	1999	9	-	-
941	Ice Harbor	548	548	6.125%	2050	2000	9	-	-
942	Ice Harbor	764	764	5.875%	2051	2001	9	-	-
943	Ice Harbor	1,014	1,014	5.500%	2052	2002	9	-	-
944	Ice Harbor	50	50	5.125%	2053	2003	9	-	-
945	Ice Harbor	3,321	3,321	5.375%	2054	2004	9	-	-
946	Ice Harbor	14	14	4.875%	2058	2008	9	-	-
947	Ice Harbor	2,615	2,615	4.375%	2059	2009	9	-	-
948	Ice Harbor	207	207	4.250%	2060	2010	9	-	-
949	Ice Harbor	819	819	3.750%	2061	2011	9	-	-
950	Ice Harbor	115	115	3.375%	2062	2012	9	-	-
951	John Day	27,254	-	7.280%	2018	1968	9	-	-
952	John Day	96,104	-	7.270%	2019	1969	9	-	-
953	John Day	23,656	-	7.250%	2020	1970	9	-	-
954	John Day	34,974	-	7.230%	2021	1971	9	-	-
955	John Day	11,502	-	7.210%	2022	1972	9	-	-
956	John Day	3,677	-	10.750%	2022	1984	9	-	-
957	John Day	6,490	-	7.210%	2022	1985	9	-	-
958	John Day	1,209	-	12.375%	2022	1985	9	-	-
959	John Day	3,227	-	7.210%	2022	1986	9	-	-
960	John Day	713	-	11.375%	2022	1986	9	-	-
961	John Day	706	-	7.210%	2022	1987	9	-	-
962	John Day	4,353	-	8.875%	2022	1987	9	-	-
963	John Day	332	-	8.500%	2022	1988	9	-	-
964	John Day	199	-	8.500%	2022	1988	9	-	-
965	John Day	30	-	7.210%	2022	1989	9	-	-
966	John Day	377	-	9.250%	2022	1989	9	-	-
967	John Day	37	-	7.210%	2022	1990	9	-	-
968	John Day	543	-	8.875%	2022	1990	9	-	-
969	John Day	13,218	-	8.750%	2022	1991	9	-	-
970	John Day	144	-	8.750%	2022	1991	9	-	-
971	John Day	19	-	7.210%	2022	1992	9	-	-
972	John Day	95	-	8.500%	2022	1992	9	-	-
973	John Day	7,810	-	7.875%	2022	1993	9	-	-
974	John Day	9,585	-	7.875%	2022	1993	9	-	-
975	John Day	14	-	7.125%	2019	1994	9	-	-
976	John Day	1,252	-	7.125%	2029	1994	9	-	-
977	John Day	2	-	7.330%	2000	1995	9	-	-



**TABLE 13A: HISTORICAL INVESTMENT**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

	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	9	-	7.330%	2000	1995	9	-	-
979	John Day	79	-	7.250%	2020	1995	9	-	-
980	John Day	22	22	7.150%	2035	1995	9	-	-
981	John Day	52	52	7.150%	2035	1995	9	-	-
982	John Day	121	121	7.150%	2035	1995	9	-	-
983	John Day	37	37	7.150%	2045	1995	9	-	-
984	John Day	608	608	7.150%	2045	1995	9	-	-
985	John Day	7,653	7,653	7.150%	2045	1995	9	-	-
986	John Day	237	-	7.130%	2011	1996	9	-	-
987	John Day	1,072	-	7.290%	2016	1996	9	-	-
988	John Day	133	-	7.230%	2022	1997	9	-	-
989	John Day	179	179	7.150%	2047	1997	9	-	-
990	John Day	3,510	3,510	5.375%	2049	1999	9	-	-
991	John Day	2,761	2,761	6.125%	2050	2000	9	-	-
992	John Day	619	619	5.875%	2051	2001	9	-	-
993	John Day	2,830	2,830	5.375%	2054	2004	9	-	-
994	John Day	2,827	2,827	5.125%	2055	2005	9	-	-
995	John Day	601	601	4.500%	2056	2006	9	-	-
996	John Day	233	233	5.000%	2057	2007	9	-	-
997	John Day	1,548	1,548	4.375%	2059	2009	9	-	-
998	John Day	356	356	4.250%	2060	2010	9	-	-
999	John Day	175	175	3.750%	2061	2011	9	-	-
1000	John Day	6,161	6,161	3.375%	2062	2012	9	-	-
1001	Libby	54,644	48,138	7.160%	2025	1975	9	-	-
1002	Libby	153,432	153,432	7.150%	2026	1976	9	-	-
1003	Libby	1,465	1,465	7.150%	2026	1977	9	-	-
1004	Libby	1,465	1,465	7.150%	2026	1978	9	-	-
1005	Libby	1,465	1,465	7.150%	2026	1979	9	-	-
1006	Libby	1,465	1,465	7.150%	2026	1980	9	-	-
1007	Libby	1,465	1,465	7.150%	2026	1981	9	-	-
1008	Libby	1,465	1,465	7.150%	2026	1982	9	-	-
1009	Libby	1,465	1,465	7.150%	2026	1983	9	-	-
1010	Libby	104	-	10.750%	2026	1984	9	-	-
1011	Libby	518	518	7.150%	2026	1985	9	-	-
1012	Libby	283	283	7.150%	2026	1986	9	-	-
1013	Libby	2	2	7.150%	2026	1987	9	-	-
1014	Libby	35	-	8.505%	2026	1988	9	-	-
1015	Libby	18,043	14,781	7.150%	2038	1988	9	-	-
1016	Libby	1	1	7.150%	2026	1989	9	-	-
1017	Libby	131	-	9.250%	2026	1989	9	-	-
1018	Libby	11	-	8.875%	2026	1990	9	-	-
1019	Libby	134	-	8.750%	2026	1991	9	-	-
1020	Libby	100	-	8.500%	2026	1992	9	-	-
1021	Libby	70	-	8.500%	2026	1992	9	-	-
1022	Libby	600	-	7.875%	2026	1993	9	-	-
1023	Libby	286	152	7.150%	2029	1994	9	-	-
1024	Libby	215	-	7.125%	2029	1994	9	-	-
1025	Libby	15	15	7.150%	2030	1995	9	-	-
1026	Libby	41	41	7.150%	2030	1995	9	-	-
1027	Libby	94	94	7.150%	2030	1995	9	-	-
1028	Libby	432	-	7.230%	2022	1997	9	-	-
1029	Libby	660	660	7.150%	2047	1997	9	-	-
1030	Libby	5,562	5,562	5.875%	2051	2001	9	-	-
1031	Libby	1,567	1,567	4.875%	2058	2008	9	-	-
1032	Libby	40	40	4.250%	2060	2010	9	-	-
1033	Libby	152	152	3.750%	2061	2011	9	-	-
1034	Libby	16	16	3.375%	2062	2012	9	-	-
1035	Little Goose	22,326	-	7.250%	2020	1970	9	-	-
1036	Little Goose	42,962	-	7.230%	2021	1971	9	-	-
1037	Little Goose	28	-	7.230%	2021	1972	9	-	-
1038	Little Goose	29	-	7.230%	2021	1973	9	-	-
1039	Little Goose	28	-	7.230%	2021	1974	9	-	-
1040	Little Goose	29	-	7.230%	2021	1975	9	-	-
1041	Little Goose	28	-	7.230%	2021	1976	9	-	-
1042	Little Goose	29	-	7.230%	2021	1977	9	-	-

**TABLE 13A: HISTORICAL INVESTMENT**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

	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	28	-	7.230%	2021	1978	9	-	-
1044	Little Goose	49,578	49,578	7.150%	2028	1978	9	-	-
1045	Little Goose	29	-	7.230%	2021	1979	9	-	-
1046	Little Goose	28	-	7.230%	2021	1980	9	-	-
1047	Little Goose	29	-	7.230%	2021	1981	9	-	-
1048	Little Goose	28	-	7.230%	2021	1982	9	-	-
1049	Little Goose	29	-	7.230%	2021	1983	9	-	-
1050	Little Goose	201	-	10.750%	2021	1984	9	-	-
1051	Little Goose	174	-	7.230%	2021	1985	9	-	-
1052	Little Goose	47	47	7.150%	2028	1985	9	-	-
1053	Little Goose	239	-	7.230%	2021	1986	9	-	-
1054	Little Goose	6	-	7.230%	2021	1987	9	-	-
1055	Little Goose	72	-	8.875%	2021	1987	9	-	-
1056	Little Goose	12	-	8.500%	2021	1988	9	-	-
1057	Little Goose	68	-	8.500%	2021	1988	9	-	-
1058	Little Goose	77	-	9.250%	2021	1989	9	-	-
1059	Little Goose	408	-	8.875%	2021	1990	9	-	-
1060	Little Goose	21	-	8.875%	2021	1990	9	-	-
1061	Little Goose	266	-	8.750%	2021	1991	9	-	-
1062	Little Goose	66	-	8.500%	2021	1992	9	-	-
1063	Little Goose	27	-	8.500%	2021	1992	9	-	-
1064	Little Goose	276	-	7.875%	2021	1993	9	-	-
1065	Little Goose	3,359	-	7.875%	2021	1993	9	-	-
1066	Little Goose	37	-	7.125%	2019	1994	9	-	-
1067	Little Goose	2,044	-	7.125%	2029	1994	9	-	-
1068	Little Goose	17	17	7.150%	2040	1995	9	-	-
1069	Little Goose	450	450	7.150%	2040	1995	9	-	-
1070	Little Goose	733	733	7.150%	2040	1995	9	-	-
1071	Little Goose	10	10	7.150%	2046	1996	9	-	-
1072	Little Goose	10	10	7.150%	2046	1996	9	-	-
1073	Little Goose	211	211	7.150%	2046	1996	9	-	-
1074	Little Goose	241	241	7.150%	2046	1996	9	-	-
1075	Little Goose	520	520	7.150%	2046	1996	9	-	-
1076	Little Goose	3,909	3,909	7.150%	2046	1996	9	-	-
1077	Little Goose	1	1	7.150%	2047	1997	9	-	-
1078	Little Goose	4,608	4,608	5.875%	2051	2001	9	-	-
1079	Little Goose	27	27	5.500%	2052	2002	9	-	-
1080	Little Goose	146	146	5.125%	2053	2003	9	-	-
1081	Little Goose	67	67	5.375%	2054	2004	9	-	-
1082	Little Goose	13	13	4.875%	2058	2008	9	-	-
1083	Little Goose	3,171	3,171	4.375%	2059	2009	9	-	-
1084	Little Goose	30	30	4.250%	2060	2010	9	-	-
1085	Little Goose	0	0	3.375%	2062	2012	9	-	-
1086	Lookout Dam	34,290	-	6.910%	2005	1955	9	-	-
1087	Lookout Dam	52	-	6.910%	2005	1956	9	-	-
1088	Lookout Dam	51	-	6.910%	2005	1957	9	-	-
1089	Lookout Dam	51	-	6.910%	2005	1958	9	-	-
1090	Lookout Dam	51	-	6.910%	2005	1959	9	-	-
1091	Lookout Dam	51	-	6.910%	2005	1960	9	-	-
1092	Lookout Dam	52	-	6.910%	2005	1961	9	-	-
1093	Lookout Dam	51	-	6.910%	2005	1962	9	-	-
1094	Lookout Dam	51	-	6.910%	2005	1963	9	-	-
1095	Lookout Dam	51	-	6.910%	2005	1964	9	-	-
1096	Lookout Dam	51	-	6.910%	2005	1965	9	-	-
1097	Lookout Dam	51	-	6.910%	2005	1966	9	-	-
1098	Lookout Dam	52	-	6.910%	2005	1967	9	-	-
1099	Lookout Dam	51	-	6.910%	2005	1968	9	-	-
1100	Lookout Dam	51	-	6.910%	2005	1969	9	-	-
1101	Lookout Dam	51	-	6.910%	2005	1970	9	-	-
1102	Lookout Dam	51	-	6.910%	2005	1971	9	-	-
1103	Lookout Dam	51	-	6.910%	2005	1972	9	-	-
1104	Lookout Dam	52	-	6.910%	2005	1973	9	-	-
1105	Lookout Dam	51	-	6.910%	2005	1974	9	-	-
1106	Lookout Dam	51	-	6.910%	2005	1975	9	-	-
1107	Lookout Dam	51	-	6.910%	2005	1976	9	-	-
1108	Lookout Dam	51	-	6.910%	2005	1977	9	-	-

**TABLE 13A: HISTORICAL INVESTMENT**  
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**(\$000s) (FY 2015)**

	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	51	-	6.910%	2005	1978	9	-	-
1110	Lookout Dam	52	-	6.910%	2005	1979	9	-	-
1111	Lookout Dam	51	-	6.910%	2005	1980	9	-	-
1112	Lookout Dam	51	-	6.910%	2005	1981	9	-	-
1113	Lookout Dam	51	-	6.910%	2005	1982	9	-	-
1114	Lookout Dam	51	-	6.910%	2005	1983	9	-	-
1115	Lookout Dam	185	-	10.750%	2005	1984	9	-	-
1116	Lookout Dam	52	-	6.910%	2005	1985	9	-	-
1117	Lookout Dam	42	-	6.910%	2005	1986	9	-	-
1118	Lookout Dam	9	-	6.910%	2005	1987	9	-	-
1119	Lookout Dam	12	-	8.875%	2005	1987	9	-	-
1120	Lookout Dam	46	-	8.500%	2005	1988	9	-	-
1121	Lookout Dam	17	-	8.500%	2005	1988	9	-	-
1122	Lookout Dam	23	-	9.250%	2005	1989	9	-	-
1123	Lookout Dam	147	-	8.875%	2005	1990	9	-	-
1124	Lookout Dam	4	-	8.875%	2005	1990	9	-	-
1125	Lookout Dam	6	-	8.750%	2005	1991	9	-	-
1126	Lookout Dam	50	-	8.750%	2005	1991	9	-	-
1127	Lookout Dam	181	-	8.500%	2005	1992	9	-	-
1128	Lookout Dam	4	-	8.500%	2005	1992	9	-	-
1129	Lookout Dam	18	-	7.875%	2005	1993	9	-	-
1130	Lookout Dam	189	-	7.875%	2005	1993	9	-	-
1131	Lookout Dam	73	-	7.125%	2019	1994	9	-	-
1132	Lookout Dam	80	39	7.150%	2045	1995	9	-	-
1133	Lookout Dam	33	33	7.150%	2045	1995	9	-	-
1134	Lookout Dam	9	-	7.860%	2045	1995	9	-	-
1135	Lookout Dam	15	-	7.860%	2045	1995	9	-	-
1136	Lookout Dam	31	-	7.860%	2045	1995	9	-	-
1137	Lookout Dam	157	-	7.860%	2045	1995	9	-	-
1138	Lookout Dam	5,098	5,098	6.125%	2050	2000	9	-	-
1139	Lookout Dam	135	135	5.125%	2053	2003	9	-	-
1140	Lookout Dam	7,355	7,355	5.125%	2055	2005	9	-	-
1141	Lookout Dam	572	572	5.000%	2057	2007	9	-	-
1142	Lookout Dam	17	17	3.750%	2061	2011	9	-	-
1143	Lookout Dam	294	294	3.375%	2062	2012	9	-	-
1144	Lost Creek	13,505	13,413	7.150%	2027	1977	9	-	-
1145	Lost Creek	58	58	7.150%	2027	1978	9	-	-
1146	Lost Creek	60	60	7.150%	2027	1979	9	-	-
1147	Lost Creek	60	60	7.150%	2027	1980	9	-	-
1148	Lost Creek	60	60	7.150%	2027	1981	9	-	-
1149	Lost Creek	60	60	7.150%	2027	1982	9	-	-
1150	Lost Creek	60	60	7.150%	2027	1983	9	-	-
1151	Lost Creek	243	-	10.750%	2027	1984	9	-	-
1152	Lost Creek	12	12	7.150%	2027	1985	9	-	-
1153	Lost Creek	6	6	7.150%	2027	1986	9	-	-
1154	Lost Creek	5	-	11.375%	2027	1986	9	-	-
1155	Lost Creek	4	4	7.150%	2027	1987	9	-	-
1156	Lost Creek	3	-	8.875%	2027	1987	9	-	-
1157	Lost Creek	7	-	8.500%	2027	1988	9	-	-
1158	Lost Creek	9	-	9.250%	2027	1989	9	-	-
1159	Lost Creek	1	-	8.875%	2027	1990	9	-	-
1160	Lost Creek	31	-	8.750%	2027	1991	9	-	-
1161	Lost Creek	1	-	8.500%	2027	1992	9	-	-
1162	Lost Creek	1	-	8.500%	2027	1992	9	-	-
1163	Lost Creek	1	-	7.875%	2027	1993	9	-	-
1164	Lost Creek	14	-	7.875%	2027	1993	9	-	-
1165	Lost Creek	4	-	7.330%	2000	1995	9	-	-
1166	Lost Creek	94	94	7.150%	2045	1995	9	-	-
1167	Lost Creek	31	31	7.150%	2031	1996	9	-	-
1168	Lost Creek	24	24	7.150%	2046	1996	9	-	-
1169	Lost Creek	147	147	5.875%	2051	2001	9	-	-
1170	Lost Creek	7	7	3.750%	2061	2011	9	-	-
1171	Lost Creek	788	788	3.375%	2062	2012	9	-	-
1172	Lower Granite	119,237	117,645	7.160%	2025	1975	9	-	-
1173	Lower Granite	510	510	7.160%	2025	1976	9	-	-

**TABLE 13A: HISTORICAL INVESTMENT**  
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**(\$000s) (FY 2015)**

	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	510	510	7.160%	2025	1977	9	-	-
1175	Lower Granite	510	510	7.160%	2025	1978	9	-	-
1176	Lower Granite	40,611	40,611	7.150%	2028	1978	9	-	-
1177	Lower Granite	510	510	7.160%	2025	1979	9	-	-
1178	Lower Granite	510	510	7.160%	2025	1980	9	-	-
1179	Lower Granite	510	510	7.160%	2025	1981	9	-	-
1180	Lower Granite	510	510	7.160%	2025	1982	9	-	-
1181	Lower Granite	510	510	7.160%	2025	1983	9	-	-
1182	Lower Granite	311	-	10.750%	2025	1984	9	-	-
1183	Lower Granite	328	328	7.160%	2025	1985	9	-	-
1184	Lower Granite	215	215	7.160%	2025	1986	9	-	-
1185	Lower Granite	4	-	11.375%	2025	1986	9	-	-
1186	Lower Granite	8	8	7.160%	2025	1987	9	-	-
1187	Lower Granite	60	-	8.875%	2025	1987	9	-	-
1188	Lower Granite	22	-	8.500%	2025	1988	9	-	-
1189	Lower Granite	95	-	8.500%	2025	1988	9	-	-
1190	Lower Granite	112	-	9.250%	2025	1989	9	-	-
1191	Lower Granite	392	-	8.875%	2025	1990	9	-	-
1192	Lower Granite	281	-	8.750%	2025	1991	9	-	-
1193	Lower Granite	6	-	8.750%	2025	1991	9	-	-
1194	Lower Granite	83	-	8.500%	2025	1992	9	-	-
1195	Lower Granite	121	-	8.500%	2025	1992	9	-	-
1196	Lower Granite	26	-	7.875%	2025	1993	9	-	-
1197	Lower Granite	3,272	-	7.875%	2025	1993	9	-	-
1198	Lower Granite	38	-	7.125%	2019	1994	9	-	-
1199	Lower Granite	3,543	1,551	7.150%	2029	1994	9	-	-
1200	Lower Granite	77	-	7.290%	2017	1995	9	-	-
1201	Lower Granite	388	-	7.290%	2017	1995	9	-	-
1202	Lower Granite	458	-	7.290%	2017	1995	9	-	-
1203	Lower Granite	96	96	7.160%	2025	1995	9	-	-
1204	Lower Granite	255	-	7.130%	2011	1996	9	-	-
1205	Lower Granite	206	206	7.150%	2031	1996	9	-	-
1206	Lower Granite	9	9	7.150%	2046	1996	9	-	-
1207	Lower Granite	625	625	7.150%	2046	1996	9	-	-
1208	Lower Granite	677	677	7.150%	2047	1997	9	-	-
1209	Lower Granite	856	856	5.375%	2049	1999	9	-	-
1210	Lower Granite	2,025	2,025	5.875%	2051	2001	9	-	-
1211	Lower Granite	1,275	1,275	5.500%	2052	2002	9	-	-
1212	Lower Granite	42	42	5.125%	2053	2003	9	-	-
1213	Lower Granite	393	393	5.125%	2055	2005	9	-	-
1214	Lower Granite	24	24	4.875%	2058	2008	9	-	-
1215	Lower Granite	5,669	5,669	4.375%	2059	2009	9	-	-
1216	Lower Granite	1,156	1,156	4.250%	2060	2010	9	-	-
1217	Lower Granite	8	8	3.750%	2061	2011	9	-	-
1218	Lower Monument	26,974	-	7.270%	2019	1969	9	-	-
1219	Lower Monument	51,218	-	7.250%	2020	1970	9	-	-
1220	Lower Monument	214	-	7.250%	2020	1971	9	-	-
1221	Lower Monument	214	-	7.250%	2020	1972	9	-	-
1222	Lower Monument	214	-	7.250%	2020	1973	9	-	-
1223	Lower Monument	214	-	7.250%	2020	1974	9	-	-
1224	Lower Monument	214	-	7.250%	2020	1975	9	-	-
1225	Lower Monument	214	-	7.250%	2020	1976	9	-	-
1226	Lower Monument	214	-	7.250%	2020	1977	9	-	-
1227	Lower Monument	214	-	7.250%	2020	1978	9	-	-
1228	Lower Monument	214	-	7.250%	2020	1979	9	-	-
1229	Lower Monument	40,669	40,669	7.150%	2029	1979	9	-	-
1230	Lower Monument	214	-	7.250%	2020	1980	9	-	-
1231	Lower Monument	214	-	7.250%	2020	1981	9	-	-
1232	Lower Monument	214	-	7.250%	2020	1982	9	-	-
1233	Lower Monument	214	-	7.250%	2020	1983	9	-	-
1234	Lower Monument	8	-	7.250%	2020	1985	9	-	-
1235	Lower Monument	256	256	7.150%	2029	1985	9	-	-
1236	Lower Monument	132	-	7.250%	2020	1986	9	-	-
1237	Lower Monument	3	-	7.250%	2020	1987	9	-	-
1238	Lower Monument	50	-	8.875%	2020	1987	9	-	-

**TABLE 13A: HISTORICAL INVESTMENT**  
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**(\$000s) (FY 2015)**

	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	1	-	8.500%	2020	1988	9	-	-
1240	Lower Monument	58	-	8.500%	2020	1988	9	-	-
1241	Lower Monument	93	-	9.250%	2020	1989	9	-	-
1242	Lower Monument	358	-	8.875%	2020	1990	9	-	-
1243	Lower Monument	594	-	8.750%	2020	1991	9	-	-
1244	Lower Monument	4,484	-	8.500%	2020	1992	9	-	-
1245	Lower Monument	24	-	7.875%	2020	1993	9	-	-
1246	Lower Monument	2,175	-	7.875%	2020	1993	9	-	-
1247	Lower Monument	107	-	7.125%	2019	1994	9	-	-
1248	Lower Monument	2,167	-	7.125%	2029	1994	9	-	-
1249	Lower Monument	6	-	7.330%	2000	1995	9	-	-
1250	Lower Monument	41	41	7.150%	2045	1995	9	-	-
1251	Lower Monument	99	99	7.150%	2045	1995	9	-	-
1252	Lower Monument	624	624	7.150%	2045	1995	9	-	-
1253	Lower Monument	1,122	1,122	7.150%	2045	1995	9	-	-
1254	Lower Monument	668	-	7.290%	2016	1996	9	-	-
1255	Lower Monument	37	-	7.230%	2021	1996	9	-	-
1256	Lower Monument	51	-	7.230%	2021	1996	9	-	-
1257	Lower Monument	264	264	7.150%	2036	1996	9	-	-
1258	Lower Monument	10	10	7.150%	2046	1996	9	-	-
1259	Lower Monument	3,301	3,301	5.875%	2051	2001	9	-	-
1260	Lower Monument	29	29	5.500%	2052	2002	9	-	-
1261	Lower Monument	22	22	5.125%	2053	2003	9	-	-
1262	Lower Monument	3,423	3,423	5.375%	2054	2004	9	-	-
1263	Lower Monument	527	527	5.125%	2055	2005	9	-	-
1264	Lower Monument	285	285	4.500%	2056	2006	9	-	-
1265	Lower Monument	9	9	4.875%	2058	2008	9	-	-
1266	Lower Monument	2,332	2,332	4.375%	2059	2009	9	-	-
1267	Lower Monument	89	89	3.375%	2062	2012	9	-	-
1268	Lower Snake Fish and Wildlife	30,488	9,472	7.150%	2033	1983	9	-	-
1269	Lower Snake Fish and Wildlife	47,921	47,921	7.150%	2035	1985	9	-	-
1270	Lower Snake Fish and Wildlife	72,536	72,536	7.150%	2037	1987	9	-	-
1271	Lower Snake Fish and Wildlife	805	805	7.150%	2038	1988	9	-	-
1272	Lower Snake Fish and Wildlife	1,557	1,557	7.150%	2040	1990	9	-	-
1273	Lower Snake Fish and Wildlife	4,411	4,411	7.150%	2041	1991	9	-	-
1274	Lower Snake Fish and Wildlife	71,632	71,632	7.150%	2043	1993	9	-	-
1275	Lower Snake Fish and Wildlife	4,722	4,722	7.150%	2044	1994	9	-	-
1276	Lower Snake Fish and Wildlife	12,085	12,085	7.150%	2046	1996	9	-	-
1277	Lower Snake Fish and Wildlife	2,173	2,173	7.150%	2047	1997	9	-	-
1278	Lower Snake Fish and Wildlife	7	7	5.375%	2049	1999	9	-	-
1279	Lower Snake Fish and Wildlife	1,529	1,529	6.125%	2050	2000	9	-	-
1280	Lower Snake Fish and Wildlife	325	325	5.875%	2051	2001	9	-	-
1281	Lower Snake Fish and Wildlife	890	890	5.500%	2052	2002	9	-	-
1282	Lower Snake Fish and Wildlife	98	98	5.125%	2053	2003	9	-	-
1283	Lower Snake Fish and Wildlife	230	230	5.375%	2054	2004	9	-	-
1284	Lower Snake Fish and Wildlife	4	4	5.125%	2055	2005	9	-	-
1285	Lower Snake Fish and Wildlife	379	379	4.500%	2056	2006	9	-	-
1286	Lower Snake Fish and Wildlife	74	74	4.875%	2058	2008	9	-	-
1287	Lower Snake Fish and Wildlife	1,540	1,540	4.375%	2059	2009	9	-	-
1288	Lower Snake Fish and Wildlife	6	6	4.250%	2060	2010	9	-	-
1289	Lower Snake Fish and Wildlife	122	122	3.750%	2061	2011	9	-	-
1290	McNary	80,256	-	6.880%	2004	1954	9	-	-
1291	McNary	53,493	-	6.910%	2005	1955	9	-	-
1292	McNary	38,748	-	6.950%	2006	1956	9	-	-
1293	McNary	24,985	-	6.980%	2007	1957	9	-	-
1294	McNary	468	-	6.980%	2007	1958	9	-	-
1295	McNary	468	-	6.980%	2007	1959	9	-	-
1296	McNary	468	-	6.980%	2007	1960	9	-	-
1297	McNary	468	-	6.980%	2007	1961	9	-	-
1298	McNary	467	-	6.980%	2007	1962	9	-	-
1299	McNary	468	-	6.980%	2007	1963	9	-	-
1300	McNary	468	-	6.980%	2007	1964	9	-	-
1301	McNary	468	-	6.980%	2007	1965	9	-	-
1302	McNary	468	-	6.980%	2007	1966	9	-	-
1303	McNary	467	-	6.980%	2007	1967	9	-	-
1304	McNary	468	-	6.980%	2007	1968	9	-	-

**TABLE 13A: HISTORICAL INVESTMENT**  
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**(\$000s) (FY 2015)**

	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	468	-	6.980%	2007	1969	9	-	-
1306	McNary	468	-	6.980%	2007	1970	9	-	-
1307	McNary	468	-	6.980%	2007	1971	9	-	-
1308	McNary	468	-	6.980%	2007	1972	9	-	-
1309	McNary	467	-	6.980%	2007	1973	9	-	-
1310	McNary	468	-	6.980%	2007	1974	9	-	-
1311	McNary	468	-	6.980%	2007	1975	9	-	-
1312	McNary	468	-	6.980%	2007	1976	9	-	-
1313	McNary	467	-	6.980%	2007	1977	9	-	-
1314	McNary	468	-	6.980%	2007	1978	9	-	-
1315	McNary	468	-	6.980%	2007	1979	9	-	-
1316	McNary	468	-	6.980%	2007	1980	9	-	-
1317	McNary	468	-	6.980%	2007	1981	9	-	-
1318	McNary	467	-	6.980%	2007	1982	9	-	-
1319	McNary	468	-	6.980%	2007	1983	9	-	-
1320	McNary	557	-	6.980%	2007	1985	9	-	-
1321	McNary	454	-	6.980%	2007	1986	9	-	-
1322	McNary	24	-	6.980%	2007	1987	9	-	-
1323	McNary	509	-	7.090%	2010	1995	9	-	-
1324	McNary	16	16	7.150%	2045	1995	9	-	-
1325	McNary	778	-	6.950%	2006	1996	9	-	-
1326	McNary	3	-	7.130%	2011	1996	9	-	-
1327	McNary	74	74	7.150%	2026	1996	9	-	-
1328	McNary	277	277	7.150%	2026	1996	9	-	-
1329	McNary	619	619	7.150%	2046	1996	9	-	-
1330	McNary	30	30	7.150%	2032	1997	9	-	-
1331	McNary	1,046	1,046	5.875%	2051	2001	9	-	-
1332	McNary	97	97	5.750%	2053	2003	9	-	-
1333	McNary	6,138	6,138	5.375%	2054	2004	9	-	-
1334	McNary	550	550	5.125%	2055	2005	9	-	-
1335	McNary	4,080	4,080	4.500%	2056	2006	9	-	-
1336	McNary	215	215	4.875%	2058	2008	9	-	-
1337	McNary	565	565	3.750%	2061	2011	9	-	-
1338	McNary	11	11	3.375%	2062	2012	9	-	-
1339	Minidoka/Palisades	854	-	3.000%	1959	1909	9	-	-
1340	Minidoka/Palisades	226	-	3.000%	1959	1909	9	-	-
1341	Minidoka/Palisades	1,709	-	3.000%	1960	1910	9	-	-
1342	Minidoka/Palisades	451	-	3.000%	1960	1910	9	-	-
1343	Minidoka/Palisades	1,709	-	3.000%	1961	1911	9	-	-
1344	Minidoka/Palisades	451	-	3.000%	1961	1911	9	-	-
1345	Minidoka/Palisades	854	-	3.000%	1977	1927	9	-	-
1346	Minidoka/Palisades	226	-	3.000%	1977	1927	9	-	-
1347	Minidoka/Palisades	854	-	3.000%	1992	1942	9	-	-
1348	Minidoka/Palisades	226	-	3.000%	1992	1942	9	-	-
1349	Minidoka/Palisades	2,561	-	3.000%	2007	1957	9	-	-
1350	Minidoka/Palisades	677	-	3.000%	2007	1957	9	-	-
1351	Minidoka/Palisades	854	-	3.000%	2008	1958	9	-	-
1352	Minidoka/Palisades	226	-	3.000%	2008	1958	9	-	-
1353	Minidoka/Palisades	108	-	3.000%	2008	1959	9	-	-
1354	Minidoka/Palisades	28	-	3.000%	2008	1959	9	-	-
1355	Minidoka/Palisades	108	-	3.000%	2008	1960	9	-	-
1356	Minidoka/Palisades	29	-	3.000%	2008	1960	9	-	-
1357	Minidoka/Palisades	108	-	3.000%	2008	1961	9	-	-
1358	Minidoka/Palisades	29	-	3.000%	2008	1961	9	-	-
1359	Minidoka/Palisades	108	-	3.000%	2008	1962	9	-	-
1360	Minidoka/Palisades	28	-	3.000%	2008	1962	9	-	-
1361	Minidoka/Palisades	108	-	3.000%	2008	1963	9	-	-
1362	Minidoka/Palisades	29	-	3.000%	2008	1963	9	-	-
1363	Minidoka/Palisades	108	-	3.000%	2008	1964	9	-	-
1364	Minidoka/Palisades	28	-	3.000%	2008	1964	9	-	-
1365	Minidoka/Palisades	108	-	3.000%	2008	1965	9	-	-
1366	Minidoka/Palisades	29	-	3.000%	2008	1965	9	-	-
1367	Minidoka/Palisades	108	-	3.000%	2008	1966	9	-	-
1368	Minidoka/Palisades	29	-	3.000%	2008	1966	9	-	-
1369	Minidoka/Palisades	108	-	3.000%	2008	1967	9	-	-
1370	Minidoka/Palisades	28	-	3.000%	2008	1967	9	-	-

**TABLE 13A: HISTORICAL INVESTMENT**  
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**(\$000s) (FY 2015)**

	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	108	-	3.000%	2008	1968	9	-	-
1372	Minidoka/Palisades	29	-	3.000%	2008	1968	9	-	-
1373	Minidoka/Palisades	3	-	3.000%	2008	1969	9	-	-
1374	Minidoka/Palisades	28	-	3.000%	2008	1969	9	-	-
1375	Minidoka/Palisades	108	-	3.000%	2008	1970	9	-	-
1376	Minidoka/Palisades	29	-	3.000%	2008	1970	9	-	-
1377	Minidoka/Palisades	108	-	3.000%	2008	1971	9	-	-
1378	Minidoka/Palisades	29	-	3.000%	2008	1971	9	-	-
1379	Minidoka/Palisades	108	-	3.000%	2008	1972	9	-	-
1380	Minidoka/Palisades	28	-	3.000%	2008	1972	9	-	-
1381	Minidoka/Palisades	108	-	3.000%	2008	1973	9	-	-
1382	Minidoka/Palisades	29	-	3.000%	2008	1973	9	-	-
1383	Minidoka/Palisades	108	-	3.000%	2008	1974	9	-	-
1384	Minidoka/Palisades	28	-	3.000%	2008	1974	9	-	-
1385	Minidoka/Palisades	108	-	3.000%	2008	1975	9	-	-
1386	Minidoka/Palisades	29	-	3.000%	2008	1975	9	-	-
1387	Minidoka/Palisades	108	-	3.000%	2008	1976	9	-	-
1388	Minidoka/Palisades	29	-	3.000%	2008	1976	9	-	-
1389	Minidoka/Palisades	83	-	7.020%	2008	1977	9	-	-
1390	Minidoka/Palisades	28	-	7.020%	2008	1977	9	-	-
1391	Minidoka/Palisades	75	-	7.020%	2008	1978	9	-	-
1392	Minidoka/Palisades	20	-	7.020%	2008	1978	9	-	-
1393	Minidoka/Palisades	75	-	7.020%	2008	1979	9	-	-
1394	Minidoka/Palisades	19	-	7.020%	2008	1979	9	-	-
1395	Minidoka/Palisades	75	-	7.020%	2008	1980	9	-	-
1396	Minidoka/Palisades	20	-	7.020%	2008	1980	9	-	-
1397	Minidoka/Palisades	75	-	7.020%	2008	1981	9	-	-
1398	Minidoka/Palisades	20	-	7.020%	2008	1981	9	-	-
1399	Minidoka/Palisades	75	-	7.020%	2008	1982	9	-	-
1400	Minidoka/Palisades	19	-	7.020%	2008	1982	9	-	-
1401	Minidoka/Palisades	65	-	7.020%	2008	1983	9	-	-
1402	Minidoka/Palisades	20	-	7.020%	2008	1983	9	-	-
1403	Minidoka/Palisades	44	-	10.075%	2008	1984	9	-	-
1404	Minidoka/Palisades	11	-	10.075%	2008	1984	9	-	-
1405	Minidoka/Palisades	21	-	7.020%	2008	1985	9	-	-
1406	Minidoka/Palisades	21	-	7.020%	2008	1986	9	-	-
1407	Minidoka/Palisades	48	-	11.375%	2008	1986	9	-	-
1408	Minidoka/Palisades	16	-	7.020%	2008	1987	9	-	-
1409	Minidoka/Palisades	31	-	8.500%	2008	1988	9	-	-
1410	Minidoka/Palisades	20	-	9.250%	2008	1989	9	-	-
1411	Minidoka/Palisades	33	-	8.875%	2008	1990	9	-	-
1412	Minidoka/Palisades	62	-	8.750%	2008	1991	9	-	-
1413	Minidoka/Palisades	11	-	8.750%	2008	1991	9	-	-
1414	Minidoka/Palisades	32	-	8.750%	2008	1991	9	-	-
1415	Minidoka/Palisades	6	-	8.500%	2008	1992	9	-	-
1416	Minidoka/Palisades	351	-	7.125%	2029	1994	9	-	-
1417	Minidoka/Palisades	6	-	7.330%	2000	1995	9	-	-
1418	Minidoka/Palisades	40	-	7.890%	2010	1995	9	-	-
1419	Minidoka/Palisades	54	-	7.130%	2011	1996	9	-	-
1420	Minidoka/Palisades	66	-	6.950%	2007	1997	9	-	-
1421	Minidoka/Palisades	50,911	50,911	7.150%	2047	1997	9	-	-
1422	Minidoka/Palisades	42	42	5.875%	2051	2001	9	-	-
1423	Minidoka/Palisades	11	11	3.375%	2062	2012	9	-	-
1424	Rogue River Projects - Green Springs	11,145	11,145	5.875%	2051	2001	9	-	-
1425	The Dalles	15,908	-	2.500%	2007	1957	9	-	-
1426	The Dalles	45,837	-	7.020%	2008	1958	9	-	-
1427	The Dalles	40,415	-	7.060%	2009	1959	9	-	-
1428	The Dalles	39,179	-	7.090%	2010	1960	9	-	-
1429	The Dalles	9,492	-	7.130%	2011	1961	9	-	-
1430	The Dalles	56	-	7.130%	2011	1962	9	-	-
1431	The Dalles	57	-	7.130%	2011	1963	9	-	-
1432	The Dalles	57	-	7.130%	2011	1964	9	-	-
1433	The Dalles	56	-	7.130%	2011	1965	9	-	-
1434	The Dalles	57	-	7.130%	2011	1966	9	-	-
1435	The Dalles	57	-	7.130%	2011	1967	9	-	-
1436	The Dalles	56	-	7.130%	2011	1968	9	-	-
1437	The Dalles	57	-	7.130%	2011	1969	9	-	-

**TABLE 13A: HISTORICAL INVESTMENT**  
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**(\$000s) (FY 2015)**

	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
1438	The Dalles	57	-	7.130%	2011	1970	9	-	-
1439	The Dalles	56	-	7.130%	2011	1971	9	-	-
1440	The Dalles	57	-	7.130%	2011	1972	9	-	-
1441	The Dalles	57	-	7.130%	2011	1973	9	-	-
1442	The Dalles	21,983	-	7.190%	2023	1973	9	-	-
1443	The Dalles	56	-	7.130%	2011	1974	9	-	-
1444	The Dalles	7,268	7,240	7.170%	2024	1974	9	-	-
1445	The Dalles	57	-	7.130%	2011	1975	9	-	-
1446	The Dalles	57	-	7.130%	2011	1976	9	-	-
1447	The Dalles	56	-	7.130%	2011	1977	9	-	-
1448	The Dalles	57	-	7.130%	2011	1978	9	-	-
1449	The Dalles	57	-	7.130%	2011	1979	9	-	-
1450	The Dalles	56	-	7.130%	2011	1980	9	-	-
1451	The Dalles	57	-	7.130%	2011	1981	9	-	-
1452	The Dalles	57	-	7.130%	2011	1982	9	-	-
1453	The Dalles	56	-	7.130%	2011	1983	9	-	-
1454	The Dalles	961	-	10.750%	2011	1984	9	-	-
1455	The Dalles	95	-	7.130%	2011	1985	9	-	-
1456	The Dalles	280	-	12.375%	2011	1985	9	-	-
1457	The Dalles	95	-	7.130%	2011	1986	9	-	-
1458	The Dalles	4	-	11.375%	2011	1986	9	-	-
1459	The Dalles	1,417	-	7.130%	2011	1987	9	-	-
1460	The Dalles	81	-	8.875%	2011	1987	9	-	-
1461	The Dalles	685	-	8.500%	2011	1988	9	-	-
1462	The Dalles	1	-	8.500%	2011	1988	9	-	-
1463	The Dalles	898	-	9.250%	2011	1989	9	-	-
1464	The Dalles	319	-	8.875%	2011	1990	9	-	-
1465	The Dalles	745	-	8.875%	2011	1990	9	-	-
1466	The Dalles	89	-	8.750%	2011	1991	9	-	-
1467	The Dalles	2,452	-	8.750%	2011	1991	9	-	-
1468	The Dalles	57	-	8.500%	2011	1992	9	-	-
1469	The Dalles	130	-	8.500%	2011	1992	9	-	-
1470	The Dalles	2,028	-	7.875%	2011	1993	9	-	-
1471	The Dalles	2,929	-	7.875%	2011	1993	9	-	-
1472	The Dalles	1,425	-	7.125%	2029	1994	9	-	-
1473	The Dalles	196	-	7.020%	2008	1996	9	-	-
1474	The Dalles	457	-	7.130%	2011	1996	9	-	-
1475	The Dalles	1,991	1,991	7.150%	2046	1996	9	-	-
1476	The Dalles	2,588	2,588	6.125%	2050	2000	9	-	-
1477	The Dalles	1,226	1,226	5.500%	2052	2002	9	-	-
1478	The Dalles	182	182	5.375%	2054	2004	9	-	-
1479	The Dalles	36,019	36,019	5.125%	2055	2005	9	-	-
1480	The Dalles	2,030	2,030	4.500%	2056	2006	9	-	-
1481	The Dalles	140	140	5.000%	2057	2007	9	-	-
1482	The Dalles	1,651	1,651	4.875%	2058	2008	9	-	-
1483	Yakima Chandler/Kenniwick	1,068	-	7.210%	2022	1956	9	-	-
1484	Yakima Chandler/Kenniwick	481	-	7.210%	2022	1956	9	-	-
1485	Yakima Chandler/Kenniwick	1	-	7.210%	2022	1959	9	-	-
1486	Yakima Chandler/Kenniwick	1	-	7.210%	2022	1960	9	-	-
1487	Yakima Chandler/Kenniwick	1	-	7.210%	2022	1961	9	-	-
1488	Yakima Chandler/Kenniwick	35	-	10.750%	2022	1984	9	-	-
1489	Yakima Chandler/Kenniwick	10	-	10.750%	2022	1984	9	-	-
1490	Yakima Chandler/Kenniwick	357	-	12.375%	2022	1985	9	-	-
1491	Yakima Chandler/Kenniwick	439	-	7.210%	2022	1986	9	-	-
1492	Yakima Chandler/Kenniwick	7	-	11.375%	2022	1986	9	-	-
1493	Yakima Chandler/Kenniwick	126	-	8.875%	2022	1987	9	-	-
1494	Yakima Chandler/Kenniwick	18	-	9.250%	2022	1989	9	-	-
1495	Yakima Chandler/Kenniwick	40	-	8.875%	2022	1990	9	-	-
1496	Yakima Chandler/Kenniwick	109	-	8.750%	2022	1991	9	-	-
1497	Yakima Chandler/Kenniwick	833	833	5.125%	2055	2005	9	-	-
1498	Yakima Chandler/Kenniwick	15	15	4.375%	2059	2009	9	-	-
1499	Yakima Roza	1,194	-	7.020%	2008	1958	9	-	-
1500	Yakima Roza	383	-	7.020%	2008	1958	9	-	-
1501	Yakima Roza	17	-	10.750%	2008	1984	9	-	-
1502	Yakima Roza	5	-	10.750%	2008	1984	9	-	-
1503	Yakima Roza	69	-	7.020%	2008	1985	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
1504	Yakima Roza	5	-	12.375%	2008	1985	9	-	-
1505	Yakima Roza	6	-	7.020%	2008	1986	9	-	-
1506	Yakima Roza	2	-	7.020%	2008	1987	9	-	-
1507	Yakima Roza	9	-	8.875%	2008	1987	9	-	-
1508	Yakima Roza	15	14	5.875%	2051	2001	9	-	-
1509	Bureau Direct	35,000	-	7.500%	2015	1995	5	-	-
1510	Bureau Direct	50,000	-	6.500%	2000	1997	5	-	-
1511	Bureau Direct	25,000	-	6.000%	2008	1998	5	-	-
1512	Bureau Direct	20,000	-	6.400%	2004	1999	9	-	-
1513	Bureau Direct	40,000	-	6.850%	2003	2000	4	-	-
1514	Bureau Direct	20,000	-	6.700%	2005	2000	9	-	-
1515	Bureau Direct	50,000	-	4.750%	2004	2001	6	-	-
1516	Bureau Direct	30,000	-	4.600%	2005	2002	3	-	-
1517	Bureau Direct	20,000	-	3.050%	2006	2002	9	-	-
1518	Bureau Direct	40,000	-	2.400%	2006	2003	4	-	-
1519	Bureau Direct	25,000	-	2.400%	2006	2003	4	-	-
1520	Bureau Direct	30,000	-	2.300%	2006	2003	7	-	-
1521	Bureau Direct	25,000	-	2.500%	2006	2003	9	-	-
1522	Bureau Direct	40,000	-	3.050%	2007	2003	12	-	-
1523	Bureau Direct	25,000	-	2.500%	2007	2004	1	-	-
1524	Bureau Direct	35,000	-	2.950%	2007	2004	4	-	-
1525	Bureau Direct	30,000	-	3.100%	2007	2004	9	-	-
1526	Bureau Direct	25,000	-	3.450%	2007	2004	7	-	-
1527	Bureau Direct	20,000	-	3.500%	2008	2005	11	-	-
1528	Bureau Direct	20,000	-	3.600%	2008	2005	1	-	-
1529	Bureau Direct	30,000	-	3.950%	2008	2005	6	-	-
1530	Bureau Direct	25,000	-	4.250%	2008	2005	9	-	-
1531	Bureau Direct	25,000	-	5.050%	2009	2006	3	-	-
1532	Bureau Direct	45,000	-	5.350%	2009	2006	7	-	-
1533	Bureau Direct	15,000	-	4.950%	2009	2006	9	-	-
1534	Bureau Direct	35,000	-	5.100%	2010	2007	1	-	-
1535	Bureau Direct	30,000	-	4.800%	2010	2007	3	-	-
1536	Bureau Direct	30,000	-	5.350%	2010	2007	6	-	-
1537	Bureau Direct	35,000	-	2.850%	2011	2008	1	-	-
1538	Bureau Direct	35,000	-	3.358%	2011	2008	5	-	-
1539	Bureau Direct	25,000	-	3.358%	2011	2008	5	-	-
1540	Bureau Direct	20,000	-	2.850%	2011	2008	1	-	-
1541	Bureau Direct	30,000	-	3.974%	2012	2008	6	-	-
1542	Bureau Direct	35,000	-	3.913%	2012	2008	7	-	-
1543	Bureau Direct	35,000	-	3.444%	2012	2008	9	-	-
1544	Bureau Direct	25,000	25,000	3.699%	2019	2009	9	-	-
1545	Bureau Direct	25,000	25,000	3.999%	2021	2009	1	-	-
1546	Bureau Direct	25,000	25,000	4.391%	2023	2009	4	-	-
1547	Bureau Direct	25,000	25,000	5.192%	2039	2009	6	-	-
1548	Bureau Direct	24,000	24,000	3.719%	2019	2010	10	-	-
1549	Bureau Direct	10,000	10,000	3.714%	2019	2010	1	-	-
1550	Bureau Direct	10,000	-	0.165%	2019	2010	2	-	-
1551	Bureau Direct	20,000	20,000	3.842%	2020	2010	10	-	-
1552	Bureau Direct	7,000	7,000	3.637%	2020	2010	11	-	-
1553	Bureau Direct	13,000	13,000	4.194%	2020	2010	12	-	-
1554	Bureau Direct	30,000	30,000	4.083%	2020	2010	3	-	-
1555	Bureau Direct	18,000	18,000	3.973%	2020	2010	4	-	-
1556	Bureau Direct	15,000	15,000	3.574%	2020	2010	5	-	-
1557	Bureau Direct	10,000	10,000	3.243%	2020	2010	6	-	-
1558	Bureau Direct	30,000	30,000	3.243%	2020	2010	6	-	-
1559	Bureau Direct	17,000	17,000	3.118%	2020	2010	7	-	-
1560	Bureau Direct	5,000	-	0.165%	2020	2010	8	-	-
1561	Bureau Direct	22,000	22,000	2.883%	2021	2010	9	-	-
1562	Bureau Direct	20,000	-	0.244%	2011	2011	9	-	-
1563	Bureau Direct	35,000	-	0.076%	2011	2011	9	-	-
1564	Bureau Direct	25,000	-	0.076%	2011	2011	9	-	-
1565	Bureau Direct	35,000	-	0.244%	2011	2011	9	-	-
1566	Bureau Direct	20,000	20,000	4.211%	2035	2011	10	-	-
1567	Bureau Direct	30,000	30,000	4.629%	2036	2011	6	-	-

**TABLE 13B: PROJECTED INVESTMENT**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

	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	141,823	141,823	2.875%	2063	2013	9
2	Columbia River Fish Mitigation	99,343	99,343	3.840%	2064	2014	9
3	Columbia River Fish Mitigation	38,981	38,981	4.450%	2065	2015	9
4	Bureau Direct	18,000	18,000	6.000%	2043	2013	2
5	Bureau Direct	8,370	8,370	4.100%	2043	2013	7
6	Bureau Direct	7,390	7,390	4.100%	2043	2013	6
7	Bureau Direct	8,900	8,900	4.100%	2043	2013	9
8	Bureau Direct	5,160	5,160	4.100%	2043	2013	6
9	Bureau Direct	4,100	4,100	4.100%	2043	2013	5
10	Bureau Direct	2,490	2,490	4.100%	2043	2013	4
11	Bureau Direct	15,000	15,000	6.000%	2043	2013	3
12	Bureau Direct	70,000	70,000	5.000%	2043	2013	1
13	Bureau Direct	6,090	6,090	4.500%	2044	2014	12
14	Bureau Direct	4,140	4,140	4.500%	2044	2014	10
15	Bureau Direct	7,170	7,170	4.500%	2044	2014	9
16	Bureau Direct	6,720	6,720	4.500%	2044	2014	8
17	Bureau Direct	6,240	6,240	4.500%	2044	2014	7
18	Bureau Direct	5,560	5,560	4.500%	2044	2014	6
19	Bureau Direct	6,460	6,460	4.500%	2044	2014	5
20	Bureau Direct	5,670	5,670	4.500%	2044	2014	4
21	Bureau Direct	4,760	4,760	4.500%	2044	2014	3
22	Bureau Direct	5,390	5,390	4.500%	2044	2014	2
23	Bureau Direct	6,510	6,510	4.500%	2044	2014	1
24	Bureau Direct	5,020	5,020	4.500%	2044	2014	11
25	Bureau Direct	7,830	7,830	5.100%	2045	2015	10
26	Bureau Direct	13,570	13,570	5.100%	2045	2015	9
27	Bureau Direct	12,710	12,710	5.100%	2045	2015	7
28	Bureau Direct	11,800	11,800	5.100%	2045	2015	7
29	Bureau Direct	10,510	10,510	5.100%	2045	2015	6
30	Bureau Direct	12,230	12,230	5.100%	2045	2015	5
31	Bureau Direct	12,320	12,320	5.100%	2045	2015	1
32	Bureau Direct	10,730	10,730	5.100%	2045	2015	4
33	Bureau Direct	9,010	9,010	5.100%	2045	2015	3
34	Bureau Direct	10,190	10,190	5.100%	2045	2015	2
35	Bureau Direct	11,530	11,530	5.100%	2045	2015	12
36	Bureau Direct	9,490	9,490	5.100%	2045	2015	11
37	Conservation	9,000	9,000	5.000%	2016	2013	1
38	Conservation	20,000	20,000	0.600%	2017	2013	11
39	Conservation	14,480	14,480	2.900%	2025	2013	9
40	Conservation	10,000	10,000	5.000%	2025	2013	3
41	Conservation	21,720	21,720	2.900%	2025	2013	6
42	Conservation	24,000	24,000	3.400%	2026	2014	6
43	Conservation	15,590	15,590	3.600%	2026	2014	3
44	Conservation	22,190	22,190	3.400%	2026	2014	9
45	Conservation	13,840	13,840	3.420%	2026	2014	12
46	Conservation	16,930	16,930	4.300%	2027	2015	12
47	Conservation	27,140	27,140	4.300%	2027	2015	9
48	Conservation	28,860	28,860	4.300%	2027	2015	6
49	Conservation	19,070	19,070	4.300%	2027	2015	3
50	Construction	8,820	8,820	1.800%	2019	2013	9
51	Construction	7,610	7,610	1.800%	2019	2013	6
52	Construction	4,430	4,430	2.200%	2020	2014	6

**TABLE 13B: PROJECTED INVESTMENT**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

	A	B	C	D	E	F	G
	Project	Initial Principal	Current Principal	Interest Rate	Due Date	In Service Date	Month
53	Construction	4,140	4,140	2.200%	2020	2014	12
54	Construction	5,140	5,140	2.200%	2020	2014	9
55	Construction	4,830	4,830	2.200%	2020	2014	3
56	Construction	4,240	4,240	3.300%	2021	2015	12
57	Construction	5,260	5,260	3.300%	2021	2015	9
58	Construction	4,940	4,940	3.300%	2021	2015	3
59	Construction	4,540	4,540	3.300%	2021	2015	6
60	Fish and Wildlife	25,000	25,000	5.000%	2028	2013	11
61	Fish and Wildlife	11,690	11,690	3.100%	2028	2013	6
62	Fish and Wildlife	13,310	13,310	3.100%	2028	2013	9
63	Fish and Wildlife	10,000	10,000	5.400%	2028	2013	3
64	Fish and Wildlife	11,850	11,850	3.600%	2029	2014	6
65	Fish and Wildlife	10,060	10,060	4.400%	2029	2014	3
66	Fish and Wildlife	24,880	24,880	3.600%	2029	2014	9
67	Fish and Wildlife	13,490	13,490	3.600%	2029	2014	12
68	Fish and Wildlife	11,480	11,480	4.400%	2030	2015	12
69	Fish and Wildlife	10,090	10,090	4.400%	2030	2015	6
70	Fish and Wildlife	21,160	21,160	4.400%	2030	2015	9
71	Fish and Wildlife	8,560	8,560	4.400%	2030	2015	3
72	Projections Construction	6,300	6,300	1.100%	2019	2013	11
73	<b>Totals:</b>	<b>1,095,847</b>	<b>1,095,847</b>				

**14. REPAYMENT STUDY RESULTS, FY 2015 STUDY**

**TABLE 14A: Interest Calculation Summary**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

A	B	C	D	E	F	G	H	
Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total	
1	2013	Albeni Falls	Historical	3,090	6.744%	208	-	208
2	2013	Boise	Historical	4,425	6.657%	295	-	295
3	2013	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
4	2013	Bonneville Dam	Historical	151,458	5.488%	8,312	-	8,312
5	2013	Chief Joseph	Historical	238,242	6.818%	16,243	-	16,243
6	2013	Columbia Basin	Historical	95,235	5.767%	5,492	-	5,492
7	2013	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
8	2013	Columbia River Fish Mitigation	Historical	1,124,174	4.645%	52,219	-	52,219
9	2013	Cougar	Historical	12,638	5.129%	648	-	648
10	2013	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
11	2013	Dworshak	Historical	106,037	7.076%	7,503	-	7,503
12	2013	Green Peter/Foster	Historical	356	5.142%	18	-	18
13	2013	Hills Creek	Historical	2,867	5.972%	171	-	171
14	2013	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
15	2013	Ice Harbor	Historical	36,219	6.319%	2,289	-	2,289
16	2013	John Day	Historical	30,292	5.438%	1,647	-	1,647
17	2013	Libby	Historical	235,708	7.104%	16,744	-	16,744
18	2013	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
19	2013	Lookout Dam	Historical	13,543	5.467%	740	-	740
20	2013	Lost Creek	Historical	14,884	6.936%	1,032	-	1,032
21	2013	Lower Granite	Historical	177,498	7.009%	12,441	-	12,441
22	2013	Lower Monument	Historical	53,104	6.792%	3,607	-	3,607
23	2013	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	-	16,525
24	2013	McNary	Historical	13,718	5.201%	713	-	713
25	2013	Minidoka/Palisades	Historical	50,964	7.148%	3,643	-	3,643
26	2013	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
27	2013	The Dalles	Historical	53,067	5.506%	2,922	-	2,922
28	2013	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
29	2013	Yakima Roza	Historical	14	5.892%	1	-	1
30	2013	Bureau Direct	Historical	765,000	4.031%	30,841	-	30,841
31	2013	Bureau Direct	New	130,510	2.792%	3,644	-	3,644
32	2013	Conservation	Historical	367,800	3.310%	12,172	-	12,172
33	2013	Conservation	New	60,720	1.330%	807	-	807
34	2013	Construction	Historical	38,150	1.992%	760	-	760
35	2013	Construction	New	13,910	0.661%	92	-	92
36	2013	Fish and Wildlife	Historical	264,000	4.469%	11,798	-	11,798
37	2013	Fish and Wildlife	New	46,690	3.003%	1,402	-	1,402
38	2013	Float	Historical	-	-	(4,828)	-	(4,828)
39	FY 2013	<b>Subtotal:</b>		<b>5,249,660</b>		<b>274,918</b>	-	<b>274,918</b>
40	2014	Albeni Falls	Historical	3,090	6.744%	208	-	208
41	2014	Boise	Historical	4,425	6.657%	295	-	295
42	2014	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
43	2014	Bonneville Dam	Historical	151,458	5.488%	8,312	-	8,312
44	2014	Chief Joseph	Historical	238,242	6.818%	16,243	-	16,243
45	2014	Columbia Basin	Historical	95,235	5.767%	5,492	-	5,492
46	2014	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
47	2014	Columbia River Fish Mitigation	Historical	1,265,997	4.447%	56,296	-	56,296
48	2014	Cougar	Historical	12,638	5.129%	648	-	648
49	2014	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
50	2014	Dworshak	Historical	106,037	7.076%	7,503	-	7,503
51	2014	Green Peter/Foster	Historical	356	5.142%	18	-	18
52	2014	Hills Creek	Historical	2,867	5.972%	171	-	171
53	2014	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
54	2014	Ice Harbor	Historical	36,219	6.319%	2,289	-	2,289
55	2014	John Day	Historical	30,292	5.438%	1,647	-	1,647
56	2014	Libby	Historical	235,708	7.104%	16,744	-	16,744
57	2014	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
58	2014	Lookout Dam	Historical	13,543	5.467%	740	-	740
59	2014	Lost Creek	Historical	14,884	6.936%	1,032	-	1,032
60	2014	Lower Granite	Historical	177,498	7.009%	12,441	-	12,441
61	2014	Lower Monument	Historical	53,104	6.792%	3,607	-	3,607
62	2014	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	-	16,525
63	2014	McNary	Historical	13,718	5.201%	713	-	713
64	2014	Minidoka/Palisades	Historical	50,964	7.148%	3,643	-	3,643
65	2014	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
66	2014	The Dalles	Historical	53,067	5.506%	2,922	-	2,922

**TABLE 14A: Interest Calculation Summary**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

	A	B	C	D	E	F	G	H
	Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total
67	2014	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
68	2014	Yakima Roza	Historical	14	5.892%	1	-	1
69	2014	Bureau Direct	Historical	904,410	4.181%	37,814	-	37,814
70	2014	Bureau Direct	New	62,560	2.152%	1,346	-	1,346
71	2014	Conservation	Historical	380,200	2.884%	10,965	22	10,987
72	2014	Conservation	New	53,430	1.571%	840	-	840
73	2014	Construction	Historical	60,880	1.848%	1,125	-	1,125
74	2014	Construction	New	13,400	1.088%	146	-	146
75	2014	Fish and Wildlife	Historical	264,000	4.054%	10,703	-	10,703
76	2014	Fish and Wildlife	New	35,400	1.955%	692	-	692
77	2014	Float	Historical	-	-	(3,514)	-	(3,514)
78	<b>FY 2014</b>	<b>Subtotal:</b>		<b>5,478,983</b>		<b>282,423</b>	<b>22</b>	<b>282,445</b>
79	2015	Albeni Falls	Historical	3,090	6.744%	208	-	208
80	2015	Boise	Historical	4,425	6.657%	295	-	295
81	2015	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
82	2015	Bonneville Dam	Historical	151,458	5.488%	8,312	-	8,312
83	2015	Chief Joseph	Historical	238,242	6.818%	16,243	-	16,243
84	2015	Columbia Basin	Historical	95,235	5.767%	5,492	-	5,492
85	2015	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
86	2015	Columbia River Fish Mitigation	Historical	1,365,340	4.403%	60,111	-	60,111
87	2015	Cougar	Historical	12,638	5.129%	648	-	648
88	2015	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
89	2015	Dworshak	Historical	30,037	6.787%	2,039	-	2,039
90	2015	Green Peter/Foster	Historical	356	5.142%	18	-	18
91	2015	Hills Creek	Historical	2,867	5.972%	171	-	171
92	2015	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
93	2015	Ice Harbor	Historical	36,219	6.319%	2,289	-	2,289
94	2015	John Day	Historical	30,292	5.438%	1,647	-	1,647
95	2015	Libby	Historical	235,708	7.104%	16,744	-	16,744
96	2015	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
97	2015	Lookout Dam	Historical	13,543	5.467%	740	-	740
98	2015	Lost Creek	Historical	14,884	6.936%	1,032	-	1,032
99	2015	Lower Granite	Historical	177,498	7.009%	12,441	-	12,441
100	2015	Lower Monument	Historical	53,104	6.792%	3,607	-	3,607
101	2015	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	-	16,525
102	2015	McNary	Historical	13,718	5.201%	713	-	713
103	2015	Minidoka/Palisades	Historical	50,964	7.148%	3,643	-	3,643
104	2015	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
105	2015	The Dalles	Historical	53,067	5.506%	2,922	-	2,922
106	2015	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
107	2015	Yakima Roza	Historical	14	5.892%	1	-	1
108	2015	Bureau Direct	Historical	974,140	4.204%	40,951	-	40,951
109	2015	Bureau Direct	New	118,350	2.439%	2,886	-	2,886
110	2015	Conservation	Historical	440,159	2.982%	13,125	58	13,183
111	2015	Conservation	New	64,860	1.952%	1,266	-	1,266
112	2015	Construction	Historical	64,470	1.694%	1,092	-	1,092
113	2015	Construction	New	13,720	1.632%	224	-	224
114	2015	Fish and Wildlife	Historical	324,280	3.995%	12,954	-	12,954
115	2015	Fish and Wildlife	New	30,130	2.251%	678	-	678
116	2015	Float	Historical	-	-	(3,892)	-	(3,892)
117	<b>FY 2015</b>	<b>Subtotal:</b>		<b>5,758,155</b>		<b>289,942</b>	<b>58</b>	<b>290,000</b>
118	2016	Albeni Falls	Historical	3,090	6.744%	208	-	208
119	2016	Boise	Historical	4,425	6.657%	295	-	295
120	2016	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
121	2016	Bonneville Dam	Historical	151,458	5.488%	8,312	-	8,312
122	2016	Chief Joseph	Historical	238,242	6.818%	16,243	-	16,243
123	2016	Columbia Basin	Historical	95,235	5.767%	5,492	-	5,492
124	2016	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
125	2016	Columbia River Fish Mitigation	Historical	1,404,321	4.404%	61,845	-	61,845
126	2016	Cougar	Historical	12,638	5.129%	648	-	648
127	2016	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
128	2016	Dworshak	Historical	30,037	6.787%	2,039	-	2,039
129	2016	Green Peter/Foster	Historical	356	5.142%	18	-	18
130	2016	Hills Creek	Historical	2,867	5.972%	171	-	171
131	2016	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
132	2016	Ice Harbor	Historical	36,219	6.319%	2,289	-	2,289

**TABLE 14A: Interest Calculation Summary**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

A	B	C	D	E	F	G	H	
Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total	
133	2016	John Day	Historical	30,292	5.438%	1,647	-	1,647
134	2016	Libby	Historical	235,708	7.104%	16,744	-	16,744
135	2016	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
136	2016	Lookout Dam	Historical	13,543	5.467%	740	-	740
137	2016	Lost Creek	Historical	14,884	6.936%	1,032	-	1,032
138	2016	Lower Granite	Historical	177,498	7.009%	12,441	-	12,441
139	2016	Lower Monument	Historical	53,104	6.792%	3,607	-	3,607
140	2016	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	-	16,525
141	2016	McNary	Historical	13,718	5.201%	713	-	713
142	2016	Minidoka/Palisades	Historical	50,964	7.148%	3,643	-	3,643
143	2016	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
144	2016	The Dalles	Historical	53,067	5.506%	2,922	-	2,922
145	2016	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
146	2016	Yakima Roza	Historical	14	5.892%	1	-	1
147	2016	Bureau Direct	Historical	1,106,060	4.311%	47,679	-	47,679
148	2016	Conservation	Historical	433,708	3.603%	15,626	-	15,626
149	2016	Construction	Historical	70,750	2.242%	1,586	-	1,586
150	2016	Fish and Wildlife	Historical	375,570	4.050%	15,210	-	15,210
151	2016	Float	Historical	-	-	(3,155)	-	(3,155)
152	FY 2016	<b>Subtotal:</b>		<b>5,753,115</b>		<b>299,338</b>	-	<b>299,338</b>
153	2017	Albeni Falls	Historical	194,112	5.087%	9,874	-	9,874
154	2017	Boise	Historical	4,425	6.657%	295	-	295
155	2017	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
156	2017	Bonneville Dam	Historical	151,458	5.488%	8,312	-	8,312
157	2017	Chief Joseph	Historical	238,242	6.818%	16,243	-	16,243
158	2017	Columbia Basin	Historical	95,235	5.767%	5,492	-	5,492
159	2017	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
160	2017	Columbia River Fish Mitigation	Historical	1,404,321	4.404%	61,845	-	61,845
161	2017	Cougar	Historical	12,638	5.129%	648	-	648
162	2017	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
163	2017	Dworshak	Historical	30,035	6.787%	2,039	-	2,039
164	2017	Green Peter/Foster	Historical	356	5.142%	18	-	18
165	2017	Hills Creek	Historical	2,867	5.972%	171	-	171
166	2017	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
167	2017	Ice Harbor	Historical	36,219	6.319%	2,289	-	2,289
168	2017	John Day	Historical	30,292	5.438%	1,647	-	1,647
169	2017	Libby	Historical	235,708	7.104%	16,744	-	16,744
170	2017	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
171	2017	Lookout Dam	Historical	13,543	5.467%	740	-	740
172	2017	Lost Creek	Historical	14,884	6.936%	1,032	-	1,032
173	2017	Lower Granite	Historical	177,498	7.009%	12,441	-	12,441
174	2017	Lower Monument	Historical	53,104	6.792%	3,607	-	3,607
175	2017	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	-	16,525
176	2017	McNary	Historical	13,718	5.201%	713	-	713
177	2017	Minidoka/Palisades	Historical	50,964	7.148%	3,643	-	3,643
178	2017	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
179	2017	The Dalles	Historical	53,067	5.506%	2,922	-	2,922
180	2017	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
181	2017	Yakima Roza	Historical	14	5.892%	1	-	1
182	2017	Bureau Direct	Historical	1,106,060	4.311%	47,679	-	47,679
183	2017	Conservation	Historical	428,820	3.587%	15,382	-	15,382
184	2017	Construction	Historical	60,250	2.322%	1,399	-	1,399
185	2017	Fish and Wildlife	Historical	375,570	4.050%	15,210	-	15,210
186	2017	Float	Historical	-	-	(3,205)	-	(3,205)
187	FY 2017	<b>Subtotal:</b>		<b>5,928,748</b>		<b>308,523</b>	-	<b>308,523</b>
188	2018	Albeni Falls	Historical	378,606	5.074%	19,210	-	19,210
189	2018	Boise	Historical	4,425	6.657%	295	-	295
190	2018	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
191	2018	Bonneville Dam	Historical	151,458	5.488%	8,312	-	8,312
192	2018	Chief Joseph	Historical	238,242	6.818%	16,243	-	16,243
193	2018	Columbia Basin	Historical	95,235	5.767%	5,492	-	5,492
194	2018	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
195	2018	Columbia River Fish Mitigation	Historical	1,404,321	4.404%	61,845	-	61,845
196	2018	Cougar	Historical	12,638	5.129%	648	-	648
197	2018	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
198	2018	Dworshak	Historical	29,188	6.776%	1,978	-	1,978

**TABLE 14A: Interest Calculation Summary**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

A	B	C	D	E	F	G	H	
Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total	
199	2018	Green Peter/Foster	Historical	356	5.142%	18	-	18
200	2018	Hills Creek	Historical	2,867	5.972%	171	-	171
201	2018	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
202	2018	Ice Harbor	Historical	36,219	6.319%	2,289	-	2,289
203	2018	John Day	Historical	30,292	5.438%	1,647	-	1,647
204	2018	Libby	Historical	235,708	7.104%	16,744	-	16,744
205	2018	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
206	2018	Lookout Dam	Historical	13,543	5.467%	740	-	740
207	2018	Lost Creek	Historical	14,884	6.936%	1,032	-	1,032
208	2018	Lower Granite	Historical	177,498	7.009%	12,441	-	12,441
209	2018	Lower Monument	Historical	53,104	6.792%	3,607	-	3,607
210	2018	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	-	16,525
211	2018	McNary	Historical	13,718	5.201%	713	-	713
212	2018	Minidoka/Palisades	Historical	50,964	7.148%	3,643	-	3,643
213	2018	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
214	2018	The Dalles	Historical	53,067	5.506%	2,922	-	2,922
215	2018	Yakima Chandler/Kennewick	Historical	848	5.111%	43	-	43
216	2018	Yakima Roza	Historical	14	5.892%	1	-	1
217	2018	Bureau Direct	Historical	1,106,060	4.311%	47,679	-	47,679
218	2018	Conservation	Historical	408,820	3.733%	15,262	-	15,262
219	2018	Construction	Historical	60,250	2.322%	1,399	-	1,399
220	2018	Fish and Wildlife	Historical	375,570	4.050%	15,210	-	15,210
221	2018	Float	Historical	-	-	(3,169)	-	(3,169)
222	<b>FY 2018</b>	<b>Subtotal:</b>		<b>6,092,395</b>		<b>317,713</b>	-	<b>317,713</b>
223	2019	Albeni Falls	Historical	563,963	5.069%	28,589	-	28,589
224	2019	Boise	Historical	4,425	6.657%	295	-	295
225	2019	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
226	2019	Bonneville Dam	Historical	151,458	5.488%	8,312	-	8,312
227	2019	Chief Joseph	Historical	238,242	6.818%	16,243	-	16,243
228	2019	Columbia Basin	Historical	95,235	5.767%	5,492	-	5,492
229	2019	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
230	2019	Columbia River Fish Mitigation	Historical	1,404,321	4.404%	61,845	-	61,845
231	2019	Cougar	Historical	12,638	5.129%	648	-	648
232	2019	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
233	2019	Dworshak	Historical	14,095	6.332%	892	-	892
234	2019	Green Peter/Foster	Historical	356	5.142%	18	-	18
235	2019	Hills Creek	Historical	2,867	5.972%	171	-	171
236	2019	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
237	2019	Ice Harbor	Historical	36,219	6.319%	2,289	-	2,289
238	2019	John Day	Historical	30,292	5.438%	1,647	-	1,647
239	2019	Libby	Historical	235,708	7.104%	16,744	-	16,744
240	2019	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
241	2019	Lookout Dam	Historical	13,543	5.467%	740	-	740
242	2019	Lost Creek	Historical	14,884	6.936%	1,032	-	1,032
243	2019	Lower Granite	Historical	168,159	7.001%	11,772	-	11,772
244	2019	Lower Monument	Historical	53,104	6.792%	3,607	-	3,607
245	2019	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	-	16,525
246	2019	McNary	Historical	13,718	5.201%	713	-	713
247	2019	Minidoka/Palisades	Historical	50,964	7.148%	3,643	-	3,643
248	2019	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
249	2019	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
250	2019	Yakima Chandler/Kennewick	Historical	848	5.111%	43	-	43
251	2019	Yakima Roza	Historical	14	5.892%	1	-	1
252	2019	Bureau Direct	Historical	1,106,060	4.311%	47,679	-	47,679
253	2019	Conservation	Historical	408,820	3.733%	15,262	-	15,262
254	2019	Construction	Historical	60,250	2.322%	1,399	-	1,399
255	2019	Fish and Wildlife	Historical	375,570	4.050%	15,210	-	15,210
256	2019	Float	Historical	-	-	(5,451)	-	(5,451)
257	<b>FY 2019</b>	<b>Subtotal:</b>		<b>6,246,079</b>		<b>322,538</b>	-	<b>322,538</b>
258	2020	Albeni Falls	Historical	746,771	5.067%	37,839	-	37,839



**TABLE 14A: Interest Calculation Summary**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

A	B	C	D	E	F	G	H	
Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total	
259	2020	Boise	Historical	4,425	6.657%	295	-	295
260	2020	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
261	2020	Bonneville Dam	Historical	151,458	5.488%	8,312	-	8,312
262	2020	Chief Joseph	Historical	238,242	6.818%	16,243	-	16,243
263	2020	Columbia Basin	Historical	95,235	5.767%	5,492	-	5,492
264	2020	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
265	2020	Columbia River Fish Mitigation	Historical	1,404,321	4.404%	61,845	-	61,845
266	2020	Cougar	Historical	12,638	5.129%	648	-	648
267	2020	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
268	2020	Dworshak	Historical	14,095	6.332%	892	-	892
269	2020	Green Peter/Foster	Historical	356	5.142%	18	-	18
270	2020	Hills Creek	Historical	2,867	5.972%	171	-	171
271	2020	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
272	2020	Ice Harbor	Historical	36,219	6.319%	2,289	-	2,289
273	2020	John Day	Historical	30,292	5.438%	1,647	-	1,647
274	2020	Libby	Historical	235,708	7.104%	16,744	-	16,744
275	2020	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
276	2020	Lookout Dam	Historical	13,543	5.467%	740	-	740
277	2020	Lost Creek	Historical	14,884	6.936%	1,032	-	1,032
278	2020	Lower Granite	Historical	56,034	6.682%	3,744	-	3,744
279	2020	Lower Monument	Historical	53,104	6.792%	3,607	-	3,607
280	2020	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	-	16,525
281	2020	McNary	Historical	13,718	5.201%	713	-	713
282	2020	Minidoka/Palisades	Historical	50,964	7.148%	3,643	-	3,643
283	2020	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
284	2020	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
285	2020	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
286	2020	Yakima Roza	Historical	14	5.892%	1	-	1
287	2020	Bureau Direct	Historical	1,047,060	4.345%	45,491	-	45,491
288	2020	Conservation	Historical	408,820	3.733%	15,262	-	15,262
289	2020	Construction	Historical	37,520	2.756%	1,034	-	1,034
290	2020	Fish and Wildlife	Historical	329,570	4.134%	13,623	-	13,623
291	2020	Float	Historical	-	-	(5,015)	-	(5,015)
292	FY 2020	<b>Subtotal:</b>		<b>6,189,032</b>		<b>320,054</b>	-	<b>320,054</b>
293	2021	Albeni Falls	Historical	927,107	5.066%	46,964	-	46,964
294	2021	Boise	Historical	4,425	6.657%	295	-	295
295	2021	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
296	2021	Bonneville Dam	Historical	151,458	5.488%	8,312	-	8,312
297	2021	Chief Joseph	Historical	238,242	6.818%	16,243	-	16,243
298	2021	Columbia Basin	Historical	95,235	5.767%	5,492	-	5,492
299	2021	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
300	2021	Columbia River Fish Mitigation	Historical	1,404,321	4.404%	61,845	-	61,845
301	2021	Cougar	Historical	12,638	5.129%	648	-	648
302	2021	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
303	2021	Dworshak	Historical	14,095	6.332%	892	-	892
304	2021	Green Peter/Foster	Historical	356	5.142%	18	-	18
305	2021	Hills Creek	Historical	2,867	5.972%	171	-	171
306	2021	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
307	2021	Ice Harbor	Historical	36,219	6.319%	2,289	-	2,289
308	2021	John Day	Historical	30,292	5.438%	1,647	-	1,647
309	2021	Libby	Historical	188,549	7.090%	13,368	-	13,368
310	2021	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
311	2021	Lookout Dam	Historical	13,543	5.467%	740	-	740
312	2021	Lost Creek	Historical	14,884	6.936%	1,032	-	1,032
313	2021	Lower Granite	Historical	55,126	6.674%	3,679	-	3,679
314	2021	Lower Monument	Historical	53,104	6.792%	3,607	-	3,607
315	2021	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	-	16,525
316	2021	McNary	Historical	13,718	5.201%	713	-	713
317	2021	Minidoka/Palisades	Historical	50,964	7.148%	3,643	-	3,643
318	2021	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
319	2021	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
320	2021	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
321	2021	Yakima Roza	Historical	14	5.892%	1	-	1
322	2021	Bureau Direct	Historical	887,060	4.466%	39,619	-	39,619
323	2021	Conservation	Historical	408,820	3.733%	15,262	-	15,262
324	2021	Construction	Historical	18,980	3.300%	626	-	626
325	2021	Fish and Wildlife	Historical	329,570	4.134%	13,623	-	13,623
326	2021	Float	Historical	-	-	(5,229)	-	(5,229)
327	FY 2021	<b>Subtotal:</b>		<b>6,142,761</b>		<b>319,244</b>	-	<b>319,244</b>

**TABLE 14A: Interest Calculation Summary**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

A	B	C	D	E	F	G	H	
Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total	
328	2022	Albeni Falls	Historical	1,105,748	5.065%	56,003	-	56,003
329	2022	Boise	Historical	4,425	6.657%	295	-	295
330	2022	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
331	2022	Bonneville Dam	Historical	151,458	5.488%	8,312	-	8,312
332	2022	Chief Joseph	Historical	238,242	6.818%	16,243	-	16,243
333	2022	Columbia Basin	Historical	95,163	5.766%	5,487	-	5,487
334	2022	Columbia Basin 3rd Powerhouse	Historical	411,264	7.150%	29,405	-	29,405
335	2022	Columbia River Fish Mitigation	Historical	1,404,321	4.404%	61,845	-	61,845
336	2022	Cougar	Historical	12,638	5.129%	648	-	648
337	2022	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
338	2022	Dworshak	Historical	14,095	6.332%	892	-	892
339	2022	Green Peter/Foster	Historical	356	5.142%	18	-	18
340	2022	Hills Creek	Historical	2,867	5.972%	171	-	171
341	2022	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
342	2022	Ice Harbor	Historical	36,198	6.318%	2,287	-	2,287
343	2022	John Day	Historical	30,292	5.438%	1,647	-	1,647
344	2022	Libby	Historical	49,681	6.922%	3,439	-	3,439
345	2022	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
346	2022	Lookout Dam	Historical	13,543	5.467%	740	-	740
347	2022	Lost Creek	Historical	14,884	6.936%	1,032	-	1,032
348	2022	Lower Granite	Historical	55,126	6.674%	3,679	-	3,679
349	2022	Lower Monument	Historical	53,104	6.792%	3,607	-	3,607
350	2022	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	-	16,525
351	2022	McNary	Historical	13,367	5.149%	688	-	688
352	2022	Minidoka/Palisades	Historical	50,964	7.148%	3,643	-	3,643
353	2022	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
354	2022	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
355	2022	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
356	2022	Yakima Roza	Historical	14	5.892%	1	-	1
357	2022	Bureau Direct	Historical	840,060	4.522%	37,985	-	37,985
358	2022	Conservation	Historical	398,820	3.741%	14,918	-	14,918
359	2022	Fish and Wildlife	Historical	329,570	4.134%	13,623	-	13,623
360	2022	Float	Historical	-	-	(5,178)	-	(5,178)
361	FY 2022	<b>Subtotal:</b>		<b>6,061,985</b>		<b>312,610</b>	-	<b>312,610</b>
362	2023	Albeni Falls	Historical	1,277,317	5.064%	64,684	-	64,684
363	2023	Boise	Historical	4,425	6.657%	295	-	295
364	2023	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
365	2023	Bonneville Dam	Historical	135,788	5.296%	7,192	-	7,192
366	2023	Chief Joseph	Historical	207,730	6.769%	14,061	-	14,061
367	2023	Columbia Basin	Historical	95,163	5.766%	5,487	-	5,487
368	2023	Columbia Basin 3rd Powerhouse	Historical	311,169	7.150%	22,249	-	22,249
369	2023	Columbia River Fish Mitigation	Historical	1,404,321	4.404%	61,845	-	61,845
370	2023	Cougar	Historical	12,638	5.129%	648	-	648
371	2023	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
372	2023	Dworshak	Historical	14,095	6.332%	892	-	892
373	2023	Green Peter/Foster	Historical	356	5.142%	18	-	18
374	2023	Hills Creek	Historical	2,867	5.972%	171	-	171
375	2023	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
376	2023	Ice Harbor	Historical	15,498	5.208%	807	-	807
377	2023	John Day	Historical	30,292	5.438%	1,647	-	1,647
378	2023	Libby	Historical	23,079	6.658%	1,537	-	1,537
379	2023	Little Goose	Historical	54,698	6.871%	3,758	-	3,758
380	2023	Lookout Dam	Historical	13,543	5.467%	740	-	740
381	2023	Lost Creek	Historical	1,091	4.230%	46	-	46
382	2023	Lower Granite	Historical	14,515	5.342%	775	-	775
383	2023	Lower Monument	Historical	53,104	6.792%	3,607	-	3,607
384	2023	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	-	16,525
385	2023	McNary	Historical	13,367	5.149%	688	-	688
386	2023	Minidoka/Palisades	Historical	50,964	7.148%	3,643	-	3,643
387	2023	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
388	2023	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
389	2023	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
390	2023	Yakima Roza	Historical	14	5.892%	1	-	1
391	2023	Bureau Direct	Historical	840,060	4.522%	37,985	-	37,985
392	2023	Conservation	Historical	398,820	3.741%	14,918	-	14,918
393	2023	Fish and Wildlife	Historical	329,570	4.134%	13,623	-	13,623
394	2023	Float	Historical	-	-	(5,185)	-	(5,185)
395	FY 2023	<b>Subtotal:</b>		<b>5,976,479</b>		<b>302,903</b>	-	<b>302,903</b>
396	2024	Albeni Falls	Historical	1,448,886	5.064%	73,366	-	73,366
397	2024	Boise	Historical	4,425	6.657%	295	-	295

**TABLE 14A: Interest Calculation Summary**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

	A	B	C	D	E	F	G	H
	Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total
398	2024	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
399	2024	Bonneville Dam	Historical	135,788	5.296%	7,192	-	7,192
400	2024	Chief Joseph	Historical	169,573	6.683%	11,333	-	11,333
401	2024	Columbia Basin	Historical	95,163	5.766%	5,487	-	5,487
402	2024	Columbia Basin 3rd Powerhouse	Historical	260,874	7.150%	18,653	-	18,653
403	2024	Columbia River Fish Mitigation	Historical	1,404,321	4.404%	61,845	-	61,845
404	2024	Cougar	Historical	12,638	5.129%	648	-	648
405	2024	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
406	2024	Dworshak	Historical	14,095	6.332%	892	-	892
407	2024	Green Peter/Foster	Historical	356	5.142%	18	-	18
408	2024	Hills Creek	Historical	2,867	5.972%	171	-	171
409	2024	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
410	2024	Ice Harbor	Historical	15,498	5.208%	807	-	807
411	2024	John Day	Historical	30,292	5.438%	1,647	-	1,647
412	2024	Libby	Historical	23,079	6.658%	1,537	-	1,537
413	2024	Little Goose	Historical	14,165	6.073%	860	-	860
414	2024	Lookout Dam	Historical	13,543	5.467%	740	-	740
415	2024	Lost Creek	Historical	1,091	4.230%	46	-	46
416	2024	Lower Granite	Historical	14,515	5.342%	775	-	775
417	2024	Lower Monument	Historical	53,104	6.792%	3,607	-	3,607
418	2024	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	-	16,525
419	2024	McNary	Historical	13,367	5.149%	688	-	688
420	2024	Minidoka/Palisades	Historical	50,964	7.148%	3,643	-	3,643
421	2024	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
422	2024	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
423	2024	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
424	2024	Yakima Roza	Historical	14	5.892%	1	-	1
425	2024	Bureau Direct	Historical	815,060	4.526%	36,887	-	36,887
426	2024	Conservation	Historical	283,820	3.749%	10,641	-	10,641
427	2024	Fish and Wildlife	Historical	329,570	4.134%	13,623	-	13,623
428	2024	Float	Historical	-	-	(5,884)	-	(5,884)
429	<b>FY 2024</b>	<b>Subtotal:</b>		<b>5,879,063</b>		<b>296,289</b>	-	<b>296,289</b>
430	2025	Albeni Falls	Historical	1,620,455	5.063%	82,047	-	82,047
431	2025	Boise	Historical	4,425	6.657%	295	-	295
432	2025	Bonneville 2nd Powerhouse	Historical	333,999	7.150%	23,881	-	23,881
433	2025	Bonneville Dam	Historical	135,766	5.296%	7,190	-	7,190
434	2025	Chief Joseph	Historical	37,730	5.053%	1,906	-	1,906
435	2025	Columbia Basin	Historical	94,803	5.760%	5,461	-	5,461
436	2025	Columbia Basin 3rd Powerhouse	Historical	161,090	7.150%	11,518	-	11,518
437	2025	Columbia River Fish Mitigation	Historical	1,404,321	4.404%	61,845	-	61,845
438	2025	Cougar	Historical	12,638	5.129%	648	-	648
439	2025	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
440	2025	Dworshak	Historical	13,668	6.307%	862	-	862
441	2025	Green Peter/Foster	Historical	356	5.142%	18	-	18
442	2025	Hills Creek	Historical	2,867	5.972%	171	-	171
443	2025	Hungry Horse Dam	Historical	11,537	6.142%	709	-	709
444	2025	Ice Harbor	Historical	15,420	5.198%	802	-	802
445	2025	John Day	Historical	30,292	5.438%	1,647	-	1,647
446	2025	Libby	Historical	22,777	6.652%	1,515	-	1,515
447	2025	Little Goose	Historical	14,165	6.073%	860	-	860
448	2025	Lookout Dam	Historical	13,543	5.467%	740	-	740
449	2025	Lost Creek	Historical	1,060	4.144%	44	-	44
450	2025	Lower Granite	Historical	12,758	5.092%	650	-	650
451	2025	Lower Monument	Historical	12,179	5.587%	680	-	680
452	2025	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	-	16,525
453	2025	McNary	Historical	13,367	5.149%	688	-	688
454	2025	Minidoka/Palisades	Historical	50,964	7.148%	3,643	-	3,643
455	2025	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
456	2025	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
457	2025	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
458	2025	Yakima Roza	Historical	14	5.892%	1	-	1
459	2025	Bureau Direct	Historical	815,060	4.526%	36,887	-	36,887
460	2025	Conservation	Historical	268,820	3.803%	10,223	-	10,223
461	2025	Fish and Wildlife	Historical	309,570	4.106%	12,712	-	12,712
462	2025	Float	Historical	-	-	(7,934)	-	(7,934)
463	<b>FY 2025</b>	<b>Subtotal:</b>		<b>5,705,575</b>		<b>279,421</b>	-	<b>279,421</b>
464	2026	Albeni Falls	Historical	1,792,024	5.063%	90,728	-	90,728
465	2026	Boise	Historical	4,425	6.657%	295	-	295
466	2026	Bonneville 2nd Powerhouse	Historical	9,867	7.150%	705	-	705
467	2026	Bonneville Dam	Historical	135,248	5.289%	7,153	-	7,153
468	2026	Chief Joseph	Historical	37,564	5.043%	1,894	-	1,894

**TABLE 14A: Interest Calculation Summary**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

A	B	C	D	E	F	G	H	
Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total	
469	2026	Columbia Basin	Historical	94,803	5.760%	5,461	-	5,461
470	2026	Columbia Basin 3rd Powerhouse	Historical	12,631	7.150%	903	-	903
471	2026	Columbia River Fish Mitigation	Historical	1,404,321	4.404%	61,845	-	61,845
472	2026	Cougar	Historical	12,638	5.129%	648	-	648
473	2026	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
474	2026	Dworshak	Historical	13,668	6.307%	862	-	862
475	2026	Green Peter/Foster	Historical	356	5.142%	18	-	18
476	2026	Hills Creek	Historical	2,867	5.972%	171	-	171
477	2026	Hungry Horse Dam	Historical	11,537	6.142%	709	-	709
478	2026	Ice Harbor	Historical	15,420	5.198%	802	-	802
479	2026	John Day	Historical	30,097	5.427%	1,633	-	1,633
480	2026	Libby	Historical	22,777	6.652%	1,515	-	1,515
481	2026	Little Goose	Historical	14,165	6.073%	860	-	860
482	2026	Lookout Dam	Historical	13,543	5.467%	740	-	740
483	2026	Lost Creek	Historical	1,060	4.144%	44	-	44
484	2026	Lower Granite	Historical	12,758	5.092%	650	-	650
485	2026	Lower Monument	Historical	11,915	5.553%	662	-	662
486	2026	Lower Snake Fish and Wildlife	Historical	171,687	7.092%	12,176	-	12,176
487	2026	McNary	Historical	13,337	5.145%	686	-	686
488	2026	Minidoka/Palisades	Historical	50,964	7.148%	3,643	-	3,643
489	2026	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
490	2026	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
491	2026	Yakima Chandler/Kennewick	Historical	848	5.111%	43	-	43
492	2026	Yakima Roza	Historical	14	5.892%	1	-	1
493	2026	Bureau Direct	Historical	815,060	4.526%	36,887	-	36,887
494	2026	Conservation	Historical	222,620	3.896%	8,673	-	8,673
495	2026	Fish and Wildlife	Historical	309,570	4.106%	12,712	-	12,712
496	2026	Float	Historical	-	-	(7,937)	-	(7,937)
497	<b>FY 2026</b>	<b>Subtotal:</b>		<b>5,296,349</b>		<b>248,326</b>	<b>-</b>	<b>248,326</b>
498	2027	Albeni Falls	Historical	1,961,083	5.060%	99,230	-	99,230
499	2027	Boise	Historical	1,060	5.091%	54	-	54
500	2027	Bonneville Dam	Historical	106,885	5.029%	5,376	-	5,376
501	2027	Chief Joseph	Historical	29,594	4.476%	1,325	-	1,325
502	2027	Columbia Basin	Historical	87,877	5.651%	4,966	-	4,966
503	2027	Columbia River Fish Mitigation	Historical	1,315,602	4.255%	55,984	-	55,984
504	2027	Cougar	Historical	12,612	5.125%	646	-	646
505	2027	Detroit Lake/Big Cliff	Historical	1,554	5.265%	82	-	82
506	2027	Dworshak	Historical	4,865	4.780%	233	-	233
507	2027	Green Peter/Foster	Historical	330	4.984%	16	-	16
508	2027	Hills Creek	Historical	209	3.892%	8	-	8
509	2027	Hungry Horse Dam	Historical	5,219	4.921%	257	-	257
510	2027	Ice Harbor	Historical	14,434	5.103%	737	-	737
511	2027	John Day	Historical	18,859	4.550%	858	-	858
512	2027	Libby	Historical	7,336	5.603%	411	-	411
513	2027	Little Goose	Historical	8,063	5.258%	424	-	424
514	2027	Lookout Dam	Historical	8,373	5.052%	423	-	423
515	2027	Lost Creek	Historical	942	3.767%	36	-	36
516	2027	Lower Granite	Historical	11,447	4.857%	556	-	556
517	2027	Lower Monument	Historical	10,019	5.250%	526	-	526
518	2027	Lower Snake Fish and Wildlife	Historical	3,674	4.868%	179	-	179
519	2027	McNary	Historical	12,702	5.045%	641	-	641
520	2027	Minidoka/Palisades	Historical	53	5.369%	3	-	3
521	2027	Rogue River Projects - Green Springs	Historical	7,184	5.875%	422	-	422
522	2027	The Dalles	Historical	41,247	5.096%	2,102	-	2,102
523	2027	Yakima Chandler/Kennewick	Historical	848	5.111%	43	-	43
524	2027	Bureau Direct	Historical	815,060	4.526%	36,887	1,056	37,943
525	2027	Conservation	Historical	147,000	4.128%	6,068	-	6,068
526	2027	Fish and Wildlife	Historical	229,570	4.008%	9,202	-	9,202
527	2027	Float	Historical	-	-	(8,033)	-	(8,033)
528	<b>FY 2027</b>	<b>Subtotal:</b>		<b>4,863,702</b>		<b>219,660</b>	<b>1,056</b>	<b>220,716</b>
529	2028	Albeni Falls	Historical	2,130,520	5.060%	107,804	-	107,804
530	2028	Boise	Historical	157	4.899%	8	-	8
531	2028	Bonneville Dam	Historical	33,492	4.414%	1,478	-	1,478
532	2028	Chief Joseph	Historical	28,255	4.436%	1,253	-	1,253
533	2028	Columbia Basin	Historical	7,688	4.383%	337	-	337
534	2028	Columbia River Fish Mitigation	Historical	1,105,463	4.066%	44,948	-	44,948
535	2028	Cougar	Historical	860	4.068%	35	-	35
536	2028	Dworshak	Historical	2,562	4.381%	112	-	112
537	2028	Green Peter/Foster	Historical	131	3.621%	5	-	5
538	2028	Hills Creek	Historical	154	3.408%	5	-	5
539	2028	Hungry Horse Dam	Historical	1,715	4.263%	73	-	73

**TABLE 14A: Interest Calculation Summary**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

A	B	C	D	E	F	G	H	
Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total	
540	2028	Ice Harbor	Historical	3,770	4.204%	158	-	158
541	2028	John Day	Historical	9,073	3.703%	336	-	336
542	2028	Libby	Historical	1,774	4.752%	84	-	84
543	2028	Little Goose	Historical	3,215	4.376%	141	-	141
544	2028	Lookout Dam	Historical	883	4.435%	39	-	39
545	2028	Lost Creek	Historical	795	3.378%	27	-	27
546	2028	Lower Granite	Historical	6,858	4.355%	299	-	299
547	2028	Lower Monument	Historical	2,716	4.357%	118	-	118
548	2028	Lower Snake Fish and Wildlife	Historical	2,120	4.379%	93	-	93
549	2028	McNary	Historical	4,871	4.427%	216	-	216
550	2028	Minidoka/Palisades	Historical	11	3.351%	-	-	-
551	2028	The Dalles	Historical	3,821	4.680%	179	-	179
552	2028	Yakima Chandler/Kenniwick	Historical	15	4.370%	1	-	1
553	2028	Bureau Direct	Historical	757,060	4.492%	34,010	-	34,010
554	2028	Conservation	Historical	55,000	3.840%	2,112	-	2,112
555	2028	Fish and Wildlife	Historical	218,570	4.054%	8,862	-	8,862
556	2028	Float	Historical	-	-	(8,176)	-	(8,176)
557	<b>FY 2028</b>	<b>Subtotal:</b>		<b>4,381,549</b>		<b>194,557</b>	-	<b>194,557</b>
558	2029	Albeni Falls	Historical	1,675,651	5.060%	84,787	-	84,787
559	2029	Boise	Historical	157	4.899%	8	-	8
560	2029	Bonneville Dam	Historical	33,492	4.414%	1,478	-	1,478
561	2029	Chief Joseph	Historical	28,255	4.436%	1,253	-	1,253
562	2029	Columbia Basin	Historical	7,688	4.383%	337	-	337
563	2029	Columbia River Fish Mitigation	Historical	1,105,463	4.066%	44,948	-	44,948
564	2029	Cougar	Historical	860	4.068%	35	-	35
565	2029	Dworshak	Historical	2,562	4.381%	112	-	112
566	2029	Green Peter/Foster	Historical	131	3.621%	5	-	5
567	2029	Hills Creek	Historical	154	3.408%	5	-	5
568	2029	Hungry Horse Dam	Historical	1,715	4.263%	73	-	73
569	2029	Ice Harbor	Historical	3,770	4.204%	158	-	158
570	2029	John Day	Historical	9,073	3.703%	336	-	336
571	2029	Libby	Historical	1,774	4.752%	84	-	84
572	2029	Little Goose	Historical	3,215	4.376%	141	-	141
573	2029	Lookout Dam	Historical	883	4.435%	39	-	39
574	2029	Lost Creek	Historical	795	3.378%	27	-	27
575	2029	Lower Granite	Historical	6,858	4.355%	299	-	299
576	2029	Lower Monument	Historical	2,716	4.357%	118	-	118
577	2029	Lower Snake Fish and Wildlife	Historical	2,120	4.379%	93	-	93
578	2029	McNary	Historical	4,871	4.427%	216	-	216
579	2029	Minidoka/Palisades	Historical	11	3.351%	-	-	-
580	2029	The Dalles	Historical	3,821	4.680%	179	-	179
581	2029	Yakima Chandler/Kenniwick	Historical	15	4.370%	1	-	1
582	2029	Bureau Direct	Historical	757,060	4.492%	34,010	-	34,010
583	2029	Conservation	Historical	55,000	3.840%	2,112	-	2,112
584	2029	Fish and Wildlife	Historical	158,570	3.971%	6,297	-	6,297
585	2029	Float	Historical	-	-	(8,188)	-	(8,188)
586	<b>FY 2029</b>	<b>Subtotal:</b>		<b>3,866,680</b>		<b>168,963</b>	-	<b>168,963</b>
587	2030	Albeni Falls	Historical	1,193,265	5.060%	60,379	-	60,379
588	2030	Boise	Historical	157	4.899%	8	-	8
589	2030	Bonneville Dam	Historical	33,492	4.414%	1,478	-	1,478
590	2030	Chief Joseph	Historical	28,255	4.436%	1,253	-	1,253
591	2030	Columbia Basin	Historical	7,688	4.383%	337	-	337
592	2030	Columbia River Fish Mitigation	Historical	1,105,463	4.066%	44,948	-	44,948
593	2030	Cougar	Historical	860	4.068%	35	-	35
594	2030	Dworshak	Historical	2,562	4.381%	112	-	112
595	2030	Green Peter/Foster	Historical	131	3.621%	5	-	5
596	2030	Hills Creek	Historical	154	3.408%	5	-	5
597	2030	Hungry Horse Dam	Historical	1,715	4.263%	73	-	73
598	2030	Ice Harbor	Historical	3,770	4.204%	158	-	158
599	2030	John Day	Historical	9,073	3.703%	336	-	336
600	2030	Libby	Historical	1,774	4.752%	84	-	84
601	2030	Little Goose	Historical	3,215	4.376%	141	-	141
602	2030	Lookout Dam	Historical	883	4.435%	39	-	39
603	2030	Lost Creek	Historical	795	3.378%	27	-	27
604	2030	Lower Granite	Historical	6,858	4.355%	299	-	299
605	2030	Lower Monument	Historical	2,716	4.357%	118	-	118
606	2030	Lower Snake Fish and Wildlife	Historical	2,120	4.379%	93	-	93
607	2030	McNary	Historical	4,871	4.427%	216	-	216
608	2030	Minidoka/Palisades	Historical	11	3.351%	-	-	-
609	2030	The Dalles	Historical	3,821	4.680%	179	-	179
610	2030	Yakima Chandler/Kenniwick	Historical	15	4.370%	1	-	1

**TABLE 14A: Interest Calculation Summary**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

A	B	C	D	E	F	G	H	
Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total	
611	2030	Bureau Direct	Historical	757,060	4.492%	34,010	-	34,010
612	2030	Conservation	Historical	55,000	3.840%	2,112	-	2,112
613	2030	Fish and Wildlife	Historical	93,290	4.143%	3,865	-	3,865
614	2030	Float	Historical	-	-	(8,199)	-	(8,199)
615	<b>FY 2030</b>	<b>Subtotal:</b>		<b>3,319,015</b>		<b>142,111</b>	-	<b>142,111</b>
616	2031	Albeni Falls	Historical	667,963	5.060%	33,798	-	33,798
617	2031	Boise	Historical	157	4.899%	8	-	8
618	2031	Bonneville Dam	Historical	33,492	4.414%	1,478	-	1,478
619	2031	Chief Joseph	Historical	28,255	4.436%	1,253	-	1,253
620	2031	Columbia Basin	Historical	7,688	4.383%	337	-	337
620	2031	Columbia River Fish Mitigation	Historical	1,105,463	4.066%	44,948	-	44,948
620	2031	Cougar	Historical	860	4.068%	35	-	35
620	2031	Dworshak	Historical	2,562	4.381%	112	-	112
620	2031	Green Peter/Foster	Historical	131	3.621%	5	-	5
620	2031	Hills Creek	Historical	154	3.408%	5	-	5
620	2031	Hungry Horse Dam	Historical	1,715	4.263%	73	-	73
620	2031	Ice Harbor	Historical	3,770	4.204%	158	-	158
620	2031	John Day	Historical	9,073	3.703%	336	-	336
620	2031	Libby	Historical	1,774	4.752%	84	-	84
620	2031	Little Goose	Historical	3,215	4.376%	141	-	141
620	2031	Lookout Dam	Historical	883	4.435%	39	-	39
620	2031	Lost Creek	Historical	795	3.378%	27	-	27
620	2031	Lower Granite	Historical	6,858	4.355%	299	-	299
620	2031	Lower Monument	Historical	2,716	4.357%	118	-	118
620	2031	Lower Snake Fish and Wildlife	Historical	2,120	4.379%	93	-	93
620	2031	McNary	Historical	4,871	4.427%	216	-	216
620	2031	Minidoka/Palisades	Historical	11	3.351%	-	-	-
620	2031	The Dalles	Historical	3,821	4.680%	179	-	179
620	2031	Yakima Chandler/Kenniwick	Historical	15	4.370%	1	-	1
620	2031	Bureau Direct	Historical	757,060	4.492%	34,010	-	34,010
620	2031	Conservation	Historical	55,000	3.840%	2,112	-	2,112
620	2031	Fish and Wildlife	Historical	42,000	3.828%	1,608	-	1,608
620	2031	Float	Historical	-	-	(8,210)	-	(8,210)
620	<b>FY 2031</b>	<b>Subtotal:</b>		<b>2,742,422</b>		<b>113,263</b>	-	<b>113,263</b>
620	2032	Albeni Falls	Historical	71,187	5.059%	3,601	-	3,601
620	2032	Boise	Historical	157	4.899%	8	-	8
620	2032	Bonneville Dam	Historical	33,492	4.414%	1,478	-	1,478
620	2032	Chief Joseph	Historical	28,255	4.436%	1,253	-	1,253
620	2032	Columbia Basin	Historical	7,688	4.383%	337	-	337
620	2032	Columbia River Fish Mitigation	Historical	1,105,463	4.066%	44,948	-	44,948
620	2032	Cougar	Historical	860	4.068%	35	-	35
620	2032	Dworshak	Historical	2,562	4.381%	112	-	112
620	2032	Green Peter/Foster	Historical	131	3.621%	5	-	5
620	2032	Hills Creek	Historical	154	3.408%	5	-	5
620	2032	Hungry Horse Dam	Historical	1,715	4.263%	73	-	73
620	2032	Ice Harbor	Historical	3,770	4.204%	158	-	158
620	2032	John Day	Historical	9,073	3.703%	336	-	336
620	2032	Libby	Historical	1,774	4.752%	84	-	84
620	2032	Little Goose	Historical	3,215	4.376%	141	-	141
620	2032	Lookout Dam	Historical	883	4.435%	39	-	39
620	2032	Lost Creek	Historical	795	3.378%	27	-	27
620	2032	Lower Granite	Historical	6,858	4.355%	299	-	299
620	2032	Lower Monument	Historical	2,716	4.357%	118	-	118
620	2032	Lower Snake Fish and Wildlife	Historical	2,120	4.379%	93	-	93
620	2032	McNary	Historical	4,871	4.427%	216	-	216
620	2032	Minidoka/Palisades	Historical	11	3.351%	-	-	-
620	2032	The Dalles	Historical	3,821	4.680%	179	-	179
620	2032	Yakima Chandler/Kenniwick	Historical	15	4.370%	1	-	1
620	2032	Bureau Direct	Historical	757,060	4.492%	34,010	5,945	39,955
620	2032	Conservation	Historical	55,000	3.840%	2,112	-	2,112
620	2032	Fish and Wildlife	Historical	42,000	3.828%	1,608	-	1,608
620	2032	Float	Historical	-	-	(8,210)	-	(8,210)
620	<b>FY 2032</b>	<b>Subtotal:</b>		<b>2,145,646</b>		<b>83,066</b>	<b>5,945</b>	<b>89,011</b>
620	2033	Albeni Falls	Historical	99	4.330%	4	-	4
620	2033	Boise	Historical	17	4.499%	1	-	1
620	2033	Bonneville Dam	Historical	17,759	3.998%	710	-	710
620	2033	Chief Joseph	Historical	24,755	4.374%	1,083	-	1,083
620	2033	Columbia Basin	Historical	5,925	4.217%	250	-	250
620	2033	Columbia River Fish Mitigation	Historical	920,294	3.935%	36,211	-	36,211
620	2033	Cougar	Historical	740	3.917%	29	-	29
620	2033	Dworshak	Historical	2,553	4.379%	112	-	112
620	2033	Green Peter/Foster	Historical	131	3.621%	5	-	5
620	2033	Hills Creek	Historical	154	3.408%	5	-	5
620	2033	Hungry Horse Dam	Historical	1,345	4.067%	55	-	55
620	2033	Ice Harbor	Historical	3,755	4.201%	158	-	158
620	2033	John Day	Historical	8,239	3.609%	297	-	297
620	2033	Libby	Historical	207	3.822%	8	-	8
620	2033	Little Goose	Historical	3,202	4.374%	140	-	140

**TABLE 14A: Interest Calculation Summary**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

A	B	C	D	E	F	G	H
Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total
620	2033	Lookout Dam	311	3.397%	11	-	11
620	2033	Lost Creek	795	3.378%	27	-	27
620	2033	Lower Granite	6,833	4.353%	297	-	297
620	2033	Lower Monument	2,422	4.338%	105	-	105
620	2033	Lower Snake Fish and Wildlife	1,667	4.329%	72	-	72
620	2033	McNary	576	3.743%	22	-	22
620	2033	Minidoka/Palisades	11	3.351%	-	-	-
620	2033	Yakima Chandler/Kenniwick	15	4.370%	1	-	1
620	2033	Bureau Direct	415,140	4.050%	16,812	1,552	18,365
620	2033	Conservation	55,000	3.840%	2,112	-	2,112
620	2033	Fish and Wildlife	42,000	3.828%	1,608	-	1,608
620	2033	Float	-	-	(8,356)	-	(8,356)
620	<b>FY 2033</b>	<b>Subtotal:</b>	<b>1,513,946</b>		<b>51,778</b>	<b>1,552</b>	<b>53,331</b>
620	2034	Bonneville Dam	10,962	3.750%	411	-	411
621	2034	Chief Joseph	28	3.421%	1	-	1
622	2034	Columbia Basin	1,723	3.750%	65	-	65
623	2034	Columbia River Fish Mitigation	449,973	3.408%	15,337	-	15,337
624	2034	Cougar	451	3.609%	16	-	16
625	2034	Green Peter/Foster	131	3.621%	5	-	5
626	2034	Hills Creek	154	3.408%	5	-	5
627	2034	Hungry Horse Dam	506	3.748%	19	-	19
628	2034	Ice Harbor	934	3.703%	35	-	35
629	2034	John Day	6,336	3.385%	215	-	215
630	2034	Libby	167	3.716%	6	-	6
631	2034	Little Goose	-	-	-	-	-
632	2034	Lookout Dam	311	3.397%	11	-	11
633	2034	Lost Creek	795	3.378%	27	-	27
634	2034	Lower Granite	8	3.775%	-	-	-
635	2034	Lower Monument	89	3.375%	3	-	3
636	2034	Lower Snake Fish and Wildlife	122	3.750%	5	-	5
637	2034	McNary	576	3.743%	22	-	22
638	2034	Minidoka/Palisades	11	3.351%	-	-	-
639	2034	Bureau Direct	273,758	3.847%	10,533	1,964	12,497
640	2034	Conservation	55,000	3.840%	2,112	325	2,437
641	2034	Fish and Wildlife	42,000	3.828%	1,608	286	1,894
642	2034	Float	-	-	(8,385)	-	(8,385)
643	<b>FY 2034</b>	<b>Subtotal:</b>	<b>844,036</b>		<b>22,049</b>	<b>2,575</b>	<b>24,624</b>
644	2035	Columbia River Fish Mitigation	141,074	2.875%	4,056	-	4,056
645	2035	Float	-	-	(8,452)	-	(8,452)
646	<b>FY 2035</b>	<b>Subtotal:</b>	<b>141,074</b>		<b>(4,396)</b>	-	<b>(4,396)</b>
647	2036	Float	-	-	(8,452)	-	(8,452)
648	<b>FY 2036</b>	<b>Subtotal:</b>	-		<b>(8,452)</b>	-	<b>(8,452)</b>
649	2037	Float	-	-	(8,458)	-	(8,458)
650	<b>FY 2037</b>	<b>Subtotal:</b>	-		<b>(8,458)</b>	-	<b>(8,458)</b>
651	2038	Float	-	-	(8,452)	-	(8,452)
652	<b>FY 2038</b>	<b>Subtotal:</b>	-		<b>(8,452)</b>	-	<b>(8,452)</b>
653	2039	Float	-	-	(8,452)	-	(8,452)
654	<b>FY 2039</b>	<b>Subtotal:</b>	-		<b>(8,452)</b>	-	<b>(8,452)</b>
655	2040	Float	-	-	(8,452)	-	(8,452)
656	<b>FY 2040</b>	<b>Subtotal:</b>	-		<b>(8,452)</b>	-	<b>(8,452)</b>
657	2041	Float	-	-	(8,452)	-	(8,452)
658	<b>FY 2041</b>	<b>Subtotal:</b>	-		<b>(8,452)</b>	-	<b>(8,452)</b>
659	2042	Float	-	-	(8,452)	-	(8,452)
660	<b>FY 2042</b>	<b>Subtotal:</b>	-		<b>(8,452)</b>	-	<b>(8,452)</b>
661	2043	Float	-	-	(8,452)	-	(8,452)
662	<b>FY 2043</b>	<b>Subtotal:</b>	-		<b>(8,452)</b>	-	<b>(8,452)</b>
663	2044	Float	-	-	(7,400)	-	(7,400)
664	<b>FY 2044</b>	<b>Subtotal:</b>	-		<b>(7,400)</b>	-	<b>(7,400)</b>
665	2045	Float	-	-	(4,271)	-	(4,271)
666	<b>FY 2045</b>	<b>Subtotal:</b>	-		<b>(4,271)</b>	-	<b>(4,271)</b>
667	2046	Float	-	-	(4,271)	-	(4,271)
668	<b>FY 2046</b>	<b>Subtotal:</b>	-		<b>(4,271)</b>	-	<b>(4,271)</b>
669	2047	Float	-	-	(4,271)	-	(4,271)
670	<b>FY 2047</b>	<b>Subtotal:</b>	-		<b>(4,271)</b>	-	<b>(4,271)</b>
671	2048	Float	-	-	(4,271)	-	(4,271)
672	<b>FY 2048</b>	<b>Subtotal:</b>	-		<b>(4,271)</b>	-	<b>(4,271)</b>
673	2049	Float	-	-	(4,271)	-	(4,271)
674	<b>FY 2049</b>	<b>Subtotal:</b>	-		<b>(4,271)</b>	-	<b>(4,271)</b>
675	2050	Float	-	-	(4,271)	-	(4,271)
676	<b>FY 2050</b>	<b>Subtotal:</b>	-		<b>(4,271)</b>	-	<b>(4,271)</b>
677	2051	Float	-	-	(4,271)	-	(4,271)
678	<b>FY 2051</b>	<b>Subtotal:</b>	-		<b>(4,271)</b>	-	<b>(4,271)</b>
679	2052	Float	-	-	(4,271)	-	(4,271)
680	<b>FY 2052</b>	<b>Subtotal:</b>	-		<b>(4,271)</b>	-	<b>(4,271)</b>
681	2053	Float	-	-	(4,271)	-	(4,271)
682	<b>FY 2053</b>	<b>Subtotal:</b>	-		<b>(4,271)</b>	-	<b>(4,271)</b>
683	2054	Float	-	-	(4,271)	-	(4,271)
684	<b>FY 2054</b>	<b>Subtotal:</b>	-		<b>(4,271)</b>	-	<b>(4,271)</b>

**TABLE 14A: Interest Calculation Summary**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

A	B	C	D	E	F	G	H
Fiscal Year	Project	Type	Principal	Rate	Interest	Premium	Total
685	2055	Float	-	-	(4,271)	-	(4,271)
686	<b>FY 2055</b>	<b>Subtotal:</b>	-	-	<b>(4,271)</b>	-	<b>(4,271)</b>
687	2056	Float	-	-	(4,271)	-	(4,271)
688	<b>FY 2056</b>	<b>Subtotal:</b>	-	-	<b>(4,271)</b>	-	<b>(4,271)</b>
689	2057	Float	-	-	(4,271)	-	(4,271)
690	<b>FY 2057</b>	<b>Subtotal:</b>	-	-	<b>(4,271)</b>	-	<b>(4,271)</b>
691	2058	Float	-	-	(4,271)	-	(4,271)
692	<b>FY 2058</b>	<b>Subtotal:</b>	-	-	<b>(4,271)</b>	-	<b>(4,271)</b>
693	2059	Float	-	-	(4,271)	-	(4,271)
694	<b>FY 2059</b>	<b>Subtotal:</b>	-	-	<b>(4,271)</b>	-	<b>(4,271)</b>
695	2060	Float	-	-	(4,271)	-	(4,271)
696	<b>FY 2060</b>	<b>Subtotal:</b>	-	-	<b>(4,271)</b>	-	<b>(4,271)</b>
697	2061	Float	-	-	(4,271)	-	(4,271)
698	<b>FY 2061</b>	<b>Subtotal:</b>	-	-	<b>(4,271)</b>	-	<b>(4,271)</b>
699	2062	Float	-	-	(4,271)	-	(4,271)
700	<b>FY 2062</b>	<b>Subtotal:</b>	-	-	<b>(4,271)</b>	-	<b>(4,271)</b>
701	2063	Float	-	-	(4,271)	-	(4,271)
702	<b>FY 2063</b>	<b>Subtotal:</b>	-	-	<b>(4,271)</b>	-	<b>(4,271)</b>
703	2064	Float	-	-	(4,271)	-	(4,271)
704	<b>FY 2064</b>	<b>Subtotal:</b>	-	-	<b>(4,271)</b>	-	<b>(4,271)</b>
705	2065	Float	-	-	(4,271)	-	(4,271)
706	<b>FY 2065</b>	<b>Subtotal:</b>	-	-	<b>(4,271)</b>	-	<b>(4,271)</b>
<b>Grand Total:</b>			<b>\$105,576,453</b>	<b>\$5,000,578</b>	<b>\$11,207</b>	<b>\$5,011,786</b>	



**TABLE 14B: Application of Amortization  
October 1, 2013 - September 30, 2015 Cost Evaluation Period  
(\$000s) (FY 2015)**

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
28	<b>FY 2016 Subtotal:</b>	-	-	-	157,943	31,330		-	15,389
29	FY 2017 Conservation	-	2013	2017	20,000	20,000	0.600%	No	20,000
30	FY 2017 Dworshak	COE	1973	2023	138,443	15,941	7.190%	No	847
31	<b>FY 2017 Subtotal:</b>	-	-	-	158,443	35,941		-	20,847
32	FY 2018 Dworshak	COE	1973	2023	138,443	15,094	7.190%	No	15,094
33	FY 2018 The Dalles	COE	1974	2024	7,268	7,240	7.170%	No	7,240
34	FY 2018 Lower Granite	COE	1975	2025	119,237	117,645	7.160%	No	4,612
35	FY 2018 Lower Granite	COE	1976	2025	510	510	7.160%	No	510
36	FY 2018 Lower Granite	COE	1977	2025	510	510	7.160%	No	510
37	FY 2018 Lower Granite	COE	1978	2025	510	510	7.160%	No	510
38	FY 2018 Lower Granite	COE	1979	2025	510	510	7.160%	No	510
39	FY 2018 Lower Granite	COE	1980	2025	510	510	7.160%	No	510
40	FY 2018 Lower Granite	COE	1981	2025	510	510	7.160%	No	510
41	FY 2018 Lower Granite	COE	1982	2025	510	510	7.160%	No	510
42	FY 2018 Lower Granite	COE	1983	2025	510	510	7.160%	No	510
43	FY 2018 Lower Granite	COE	1985	2025	328	328	7.160%	No	328
44	FY 2018 Lower Granite	COE	1986	2025	215	215	7.160%	No	215
45	FY 2018 Lower Granite	COE	1987	2025	8	8	7.160%	No	8
46	FY 2018 Lower Granite	COE	1995	2025	96	96	7.160%	No	96
47	<b>FY 2018 Subtotal:</b>	-	-	-	269,675	144,706		-	31,673
48	FY 2019 Bureau Direct	-	2009	2019	25,000	25,000	3.699%	No	25,000
49	FY 2019 Bureau Direct	-	2010	2019	24,000	24,000	3.719%	No	24,000
50	FY 2019 Bureau Direct	-	2010	2019	10,000	10,000	3.714%	No	10,000
51	FY 2019 Construction	-	2013	2019	7,610	7,610	1.800%	No	7,610
52	FY 2019 Construction	-	2013	2019	8,820	8,820	1.800%	No	8,820
53	FY 2019 Construction	-	2013	2019	6,300	6,300	1.100%	No	6,300
54	FY 2019 Fish and Wildlife	-	2010	2019	26,000	26,000	4.069%	No	26,000
55	FY 2019 Fish and Wildlife	-	2010	2019	20,000	20,000	2.646%	No	20,000
56	FY 2019 Lower Granite	COE	1975	2025	119,237	113,033	7.160%	No	112,125
57	<b>FY 2019 Subtotal:</b>	-	-	-	246,967	240,763		-	239,855
58	FY 2020 Bureau Direct	-	2010	2020	13,000	13,000	4.194%	No	13,000
59	FY 2020 Bureau Direct	-	2010	2020	30,000	30,000	4.083%	No	30,000
60	FY 2020 Bureau Direct	-	2010	2020	18,000	18,000	3.973%	No	18,000
61	FY 2020 Bureau Direct	-	2010	2020	20,000	20,000	3.842%	No	20,000
62	FY 2020 Bureau Direct	-	2010	2020	7,000	7,000	3.637%	No	7,000
63	FY 2020 Bureau Direct	-	2010	2020	15,000	15,000	3.574%	No	15,000
64	FY 2020 Bureau Direct	-	2010	2020	10,000	10,000	3.243%	No	10,000
65	FY 2020 Bureau Direct	-	2010	2020	30,000	30,000	3.243%	No	30,000
66	FY 2020 Bureau Direct	-	2010	2020	17,000	17,000	3.118%	No	17,000
67	FY 2020 Construction	-	2014	2020	4,140	4,140	2.200%	No	4,140
68	FY 2020 Construction	-	2014	2020	4,430	4,430	2.200%	No	4,430
69	FY 2020 Construction	-	2014	2020	4,830	4,830	2.200%	No	4,830
70	FY 2020 Construction	-	2014	2020	5,140	5,140	2.200%	No	5,140
71	FY 2020 Libby	COE	1975	2025	54,644	48,138	7.160%	No	47,159
72	FY 2020 Lower Granite	COE	1975	2025	119,237	908	7.160%	No	908
73	<b>FY 2020 Subtotal:</b>	-	-	-	352,421	227,586		-	226,607
74	FY 2021 Bureau Direct	-	2009	2021	25,000	25,000	3.999%	No	25,000
75	FY 2021 Bureau Direct	-	2010	2021	22,000	22,000	2.883%	No	22,000
76	FY 2021 Conservation	-	2010	2021	10,000	10,000	3.440%	Yes	10,000
77	FY 2021 Construction	-	2015	2021	4,240	4,240	3.300%	No	4,240
78	FY 2021 Construction	-	2015	2021	4,540	4,540	3.300%	No	4,540
79	FY 2021 Construction	-	2015	2021	4,940	4,940	3.300%	No	4,940
80	FY 2021 Construction	-	2015	2021	5,260	5,260	3.300%	No	5,260
81	FY 2021 Columbia Basin 3rd Powerhouse	BOR	1975	2025	8,702	7,435	7.160%	No	7,435
82	FY 2021 Columbia Basin 3rd Powerhouse	BOR	1975	2025	47,328	36,690	7.160%	No	36,690
83	FY 2021 Libby	COE	1975	2025	54,644	979	7.160%	No	979
84	FY 2021 Columbia Basin	BOR	1996	2026	72	72	7.150%	No	72
85	FY 2021 Ice Harbor	COE	1985	2026	21	21	7.150%	No	21
86	FY 2021 Libby	COE	1976	2026	153,432	153,432	7.150%	No	126,830
87	FY 2021 Libby	COE	1977	2026	1,465	1,465	7.150%	No	1,465
88	FY 2021 Libby	COE	1978	2026	1,465	1,465	7.150%	No	1,465
89	FY 2021 Libby	COE	1979	2026	1,465	1,465	7.150%	No	1,465
90	FY 2021 Libby	COE	1980	2026	1,465	1,465	7.150%	No	1,465
91	FY 2021 Libby	COE	1981	2026	1,465	1,465	7.150%	No	1,465
92	FY 2021 Libby	COE	1982	2026	1,465	1,465	7.150%	No	1,465
93	FY 2021 Libby	COE	1983	2026	1,465	1,465	7.150%	No	1,465
94	FY 2021 Libby	COE	1985	2026	518	518	7.150%	No	518
95	FY 2021 Libby	COE	1986	2026	283	283	7.150%	No	283
96	FY 2021 Libby	COE	1987	2026	2	2	7.150%	No	2
97	FY 2021 Libby	COE	1989	2026	1	1	7.150%	No	1
98	FY 2021 McNary	COE	1996	2026	74	74	7.150%	No	74
99	FY 2021 McNary	COE	1996	2026	277	277	7.150%	No	277
100	<b>FY 2021 Subtotal:</b>	-	-	-	351,589	286,019		-	259,417
101	FY 2022 Columbia Basin 3rd Powerhouse	BOR	1976	2026	8,037	8,037	7.150%	No	8,037
102	FY 2022 Columbia Basin 3rd Powerhouse	BOR	1976	2026	41,330	41,330	7.150%	No	41,330

**TABLE 14B: Application of Amortization**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

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	
103	FY 2022	Ice Harbor	COE	1976	2026	228	228	7.150%	No	228
104	FY 2022	Ice Harbor	COE	1976	2026	20,472	20,472	7.150%	No	20,472
105	FY 2022	Libby	COE	1976	2026	153,432	26,602	7.150%	No	26,602
106	FY 2022	Bonneville Dam	COE	1977	2027	15,670	15,670	7.150%	No	15,670
107	FY 2022	Chief Joseph	COE	1977	2027	30,512	30,512	7.150%	No	30,512
108	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1977	2027	7,964	7,964	7.150%	No	7,964
109	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1977	2027	42,764	42,764	7.150%	No	42,764
110	FY 2022	Lost Creek	COE	1977	2027	13,505	13,413	7.150%	No	13,413
111	FY 2022	Lost Creek	COE	1978	2027	58	58	7.150%	No	58
112	FY 2022	Lost Creek	COE	1979	2027	60	60	7.150%	No	60
113	FY 2022	Lost Creek	COE	1980	2027	60	60	7.150%	No	60
114	FY 2022	Lost Creek	COE	1981	2027	60	60	7.150%	No	60
115	FY 2022	Lost Creek	COE	1982	2027	60	60	7.150%	No	60
116	FY 2022	Lost Creek	COE	1983	2027	60	60	7.150%	No	60
117	FY 2022	Lost Creek	COE	1985	2027	12	12	7.150%	No	12
118	FY 2022	Lost Creek	COE	1986	2027	6	6	7.150%	No	6
119	FY 2022	Lost Creek	COE	1987	2027	4	4	7.150%	No	4
120	FY 2022	Little Goose	COE	1978	2028	49,578	49,578	7.150%	No	9,045
121	FY 2022	Little Goose	COE	1985	2028	47	47	7.150%	No	47
122	FY 2022	Lower Granite	COE	1978	2028	40,611	40,611	7.150%	No	40,611
123		<b>FY 2022 Subtotal:</b>	-	-	-	<b>424,530</b>	<b>297,608</b>		-	<b>257,075</b>
124	FY 2023	Bureau Direct	-	2009	2023	25,000	25,000	4.391%	No	25,000
125	FY 2023	Conservation	-	2011	2023	40,000	40,000	4.046%	No	40,000
126	FY 2023	Conservation	-	2011	2023	35,000	35,000	3.932%	No	35,000
127	FY 2023	Conservation	-	2011	2023	40,000	40,000	3.206%	No	40,000
128	FY 2023	Chief Joseph	COE	1978	2028	75,669	75,669	7.150%	No	38,157
129	FY 2023	Columbia Basin 3rd Powerhouse	BOR	1978	2028	7,896	7,896	7.150%	No	7,896
130	FY 2023	Columbia Basin 3rd Powerhouse	BOR	1978	2028	42,399	42,399	7.150%	No	42,399
131	FY 2023	Little Goose	COE	1978	2028	49,578	40,533	7.150%	No	40,533
132		<b>FY 2023 Subtotal:</b>	-	-	-	<b>315,542</b>	<b>306,497</b>		-	<b>268,985</b>
133	FY 2024	Conservation	-	2012	2024	15,000	15,000	2.788%	No	15,000
134	FY 2024	Fish and Wildlife	-	2009	2024	20,000	20,000	4.556%	No	20,000
135	FY 2024	Chief Joseph	COE	1978	2028	75,669	37,512	7.150%	No	37,512
136	FY 2024	Chief Joseph	COE	1979	2029	60,079	60,079	7.150%	No	60,079
137	FY 2024	Chief Joseph	COE	1985	2029	16,372	16,372	7.150%	No	16,372
138	FY 2024	Chief Joseph	COE	1986	2029	5,363	5,363	7.150%	No	5,363
139	FY 2024	Chief Joseph	COE	1987	2029	3,036	3,036	7.150%	No	3,036
140	FY 2024	Chief Joseph	COE	1988	2029	2,722	2,722	7.150%	No	2,722
141	FY 2024	Chief Joseph	COE	1989	2029	2,227	2,227	7.150%	No	2,227
142	FY 2024	Chief Joseph	COE	1990	2029	4,505	4,505	7.150%	No	4,505
143	FY 2024	Columbia Basin 3rd Powerhouse	BOR	1979	2029	15,666	15,666	7.150%	No	15,666
144	FY 2024	Columbia Basin 3rd Powerhouse	BOR	1979	2029	84,118	84,118	7.150%	No	84,118
145	FY 2024	Libby	COE	1994	2029	286	152	7.150%	No	152
146	FY 2024	Lower Granite	COE	1994	2029	3,543	1,551	7.150%	No	1,551
147	FY 2024	Lower Monument	COE	1979	2029	40,669	40,669	7.150%	No	40,669
148	FY 2024	Lower Monument	COE	1985	2029	256	256	7.150%	No	256
149	FY 2024	Dworshak	COE	1995	2030	218	218	7.150%	No	218
150	FY 2024	Hungry Horse Dam	BOR	1995	2030	536	536	7.150%	No	536
151	FY 2024	Hungry Horse Dam	BOR	1995	2030	1,198	1,195	7.150%	No	1,195
152	FY 2024	Libby	COE	1995	2030	15	15	7.150%	No	15
153	FY 2024	Libby	COE	1995	2030	41	41	7.150%	No	41
154	FY 2024	Libby	COE	1995	2030	94	94	7.150%	No	94
155	FY 2024	Bonneville 2nd Powerhouse	COE	1981	2031	455	455	7.150%	No	455
156	FY 2024	Bonneville 2nd Powerhouse	COE	1981	2031	40,964	40,964	7.150%	No	32,342
157	FY 2024	Bonneville Dam	COE	1996	2031	22	22	7.150%	No	22
158	FY 2024	Chief Joseph	COE	1996	2031	27	27	7.150%	No	27
159	FY 2024	Columbia Basin	BOR	1996	2031	109	109	7.150%	No	109
160	FY 2024	Columbia Basin	BOR	1996	2031	251	251	7.150%	No	251
161	FY 2024	Dworshak	COE	1996	2031	6	6	7.150%	No	6
162	FY 2024	Dworshak	COE	1996	2031	203	203	7.150%	No	203
163	FY 2024	Ice Harbor	COE	1996	2031	78	78	7.150%	No	78
164	FY 2024	Lost Creek	COE	1996	2031	31	31	7.150%	No	31
165	FY 2024	Lower Granite	COE	1996	2031	206	206	7.150%	No	206
166		<b>FY 2024 Subtotal:</b>	-	-	-	<b>393,965</b>	<b>353,679</b>		-	<b>345,057</b>
167	FY 2025	Conservation	-	2013	2025	10,000	10,000	5.000%	No	10,000
168	FY 2025	Conservation	-	2013	2025	14,480	14,480	2.900%	No	14,480
169	FY 2025	Conservation	-	2013	2025	21,720	21,720	2.900%	No	21,720
170	FY 2025	Bonneville 2nd Powerhouse	COE	1981	2031	40,964	8,622	7.150%	No	8,622
171	FY 2025	Bonneville 2nd Powerhouse	COE	1982	2032	2,264	2,264	7.150%	No	2,264
172	FY 2025	Bonneville 2nd Powerhouse	COE	1982	2032	203,535	203,535	7.150%	No	203,535
173	FY 2025	Bonneville Dam	COE	1997	2032	518	518	7.150%	No	518
174	FY 2025	Chief Joseph	COE	1997	2032	166	166	7.150%	No	166
175	FY 2025	McNary	COE	1997	2032	30	30	7.150%	No	30
176	FY 2025	Bonneville 2nd Powerhouse	COE	1983	2033	694	694	7.150%	No	694
177	FY 2025	Bonneville 2nd Powerhouse	COE	1983	2033	62,409	62,409	7.150%	No	62,409

**TABLE 14B: 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	
178	FY 2025	Bonneville 2nd Powerhouse	COE	1985	2033	9,138	9,138	7.150%	No	9,138
179	FY 2025	Bonneville 2nd Powerhouse	COE	1986	2033	30,578	30,578	7.150%	No	30,578
180	FY 2025	Bonneville 2nd Powerhouse	COE	1987	2033	2,801	2,801	7.150%	No	2,801
181	FY 2025	Bonneville 2nd Powerhouse	COE	1988	2033	1,271	1,271	7.150%	No	1,271
182	FY 2025	Bonneville 2nd Powerhouse	COE	1989	2033	1,232	1,232	7.150%	No	1,232
183	FY 2025	Bonneville 2nd Powerhouse	COE	1990	2033	1,588	1,588	7.150%	No	1,588
184	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1983	2033	712	712	7.150%	No	712
185	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1983	2033	13,003	13,003	7.150%	No	13,003
186	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1984	2033	3,160	3,160	7.150%	No	3,160
187	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1984	2033	13,192	13,192	7.150%	No	13,192
188	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1984	2033	16,965	16,965	7.150%	No	16,965
189	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1985	2033	107	107	7.150%	No	107
190	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1985	2033	2,060	2,060	7.150%	No	2,060
191	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1985	2033	41,772	41,772	7.150%	No	41,772
192	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1986	2033	1,851	1,851	7.150%	No	1,851
193	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1986	2033	15,538	15,538	7.150%	No	15,538
194	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1987	2033	1,730	1,730	7.150%	No	1,730
195	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1987	2033	14,439	14,439	7.150%	No	14,439
196	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1988	2033	2,294	2,294	7.150%	No	2,294
197	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1988	2033	4,351	4,351	7.150%	No	4,351
198	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1989	2033	10,902	10,902	7.150%	No	10,902
199	FY 2025	Columbia Basin 3rd Powerhouse	BOR	1990	2033	6,383	6,383	7.150%	No	6,383
200	FY 2025	Lower Snake Fish and Wildlife	LSFW	1983	2033	30,488	9,472	7.150%	No	9,472
201	FY 2025	John Day	COE	1995	2035	22	22	7.150%	No	22
202	FY 2025	John Day	COE	1995	2035	52	52	7.150%	No	52
203	FY 2025	John Day	COE	1995	2035	121	121	7.150%	No	121
204	FY 2025	Lower Snake Fish and Wildlife	LSFW	1985	2035	47,921	47,921	7.150%	No	47,921
205	FY 2025	Lower Monument	COE	1996	2036	264	264	7.150%	No	264
206	FY 2025	Lower Snake Fish and Wildlife	LSFW	1987	2037	72,536	72,536	7.150%	No	3,438
207		<b>FY 2025 Subtotal:</b>	-	-	<b>703,251</b>	<b>649,893</b>		-	<b>580,795</b>	
208	FY 2026	Conservation	-	2014	2026	15,590	15,590	3.600%	No	15,590
209	FY 2026	Conservation	-	2014	2026	13,840	13,840	3.420%	No	13,840
210	FY 2026	Conservation	-	2014	2026	22,190	22,190	3.400%	No	22,190
211	FY 2026	Conservation	-	2014	2026	24,000	24,000	3.400%	No	24,000
212	FY 2026	Fish and Wildlife	-	2011	2026	50,000	50,000	4.440%	No	50,000
213	FY 2026	Fish and Wildlife	-	2011	2026	15,000	15,000	4.980%	No	15,000
214	FY 2026	Fish and Wildlife	-	2011	2026	15,000	15,000	4.205%	No	15,000
215	FY 2026	Lower Snake Fish and Wildlife	LSFW	1987	2037	72,536	69,098	7.150%	No	69,098
216	FY 2026	Libby	COE	1988	2038	18,043	14,781	7.150%	No	14,781
217	FY 2026	Lower Snake Fish and Wildlife	LSFW	1988	2038	805	805	7.150%	No	805
218	FY 2026	Little Goose	COE	1995	2040	17	17	7.150%	No	17
219	FY 2026	Little Goose	COE	1995	2040	450	450	7.150%	No	450
220	FY 2026	Little Goose	COE	1995	2040	733	733	7.150%	No	733
221	FY 2026	Lower Snake Fish and Wildlife	LSFW	1990	2040	1,557	1,557	7.150%	No	1,557
222	FY 2026	Ice Harbor	COE	1996	2041	371	371	7.150%	No	371
223	FY 2026	Lower Snake Fish and Wildlife	LSFW	1991	2041	4,411	4,411	7.150%	No	4,411
224	FY 2026	Lower Snake Fish and Wildlife	LSFW	1993	2043	71,632	71,632	7.150%	No	71,632
225	FY 2026	Bonneville 2nd Powerhouse	COE	1994	2044	5,700	5,700	7.150%	No	5,700
226	FY 2026	Chief Joseph	COE	1994	2044	4,280	4,017	7.150%	No	4,017
227	FY 2026	Columbia Basin 3rd Powerhouse	BOR	1994	2044	12,631	12,631	7.150%	No	12,631
228	FY 2026	Lower Snake Fish and Wildlife	LSFW	1994	2044	4,722	4,722	7.150%	No	4,722
229	FY 2026	Albeni Falls	COE	1995	2045	443	443	7.150%	No	443
230	FY 2026	Albeni Falls	COE	1995	2045	531	531	7.150%	No	531
231	FY 2026	Albeni Falls	COE	1995	2045	1,105	1,105	7.150%	No	1,105
232	FY 2026	Bonneville 2nd Powerhouse	COE	1995	2045	3,791	3,791	7.150%	No	3,791
233	FY 2026	Bonneville Dam	COE	1995	2045	243	243	7.150%	No	243
234	FY 2026	Bonneville Dam	COE	1995	2045	410	410	7.150%	No	410
235	FY 2026	Bonneville Dam	COE	1995	2045	440	440	7.150%	No	440
236	FY 2026	Chief Joseph	COE	1995	2045	147	147	7.150%	No	147
237	FY 2026	Chief Joseph	COE	1995	2045	562	562	7.150%	No	562
238	FY 2026	Chief Joseph	COE	1995	2045	712	712	7.150%	No	712
239	FY 2026	Chief Joseph	COE	1995	2045	784	784	7.150%	No	784
240	FY 2026	Columbia Basin	BOR	1995	2045	287	287	7.150%	No	287
241	FY 2026	Columbia Basin	BOR	1995	2045	2,511	2,453	7.150%	No	2,453
242	FY 2026	Columbia River Fish Mitigation	COE	1995	2045	43,343	39,282	7.150%	No	39,282
243	FY 2026	Detroit Lake/Big Cliff	COE	1995	2045	38	38	7.150%	No	38
244	FY 2026	Dworshak	COE	1995	2045	1,162	1,162	7.150%	No	1,162
245	FY 2026	Hungry Horse Dam	BOR	1995	2045	6,190	6,190	7.150%	No	6,190
246	FY 2026	John Day	COE	1995	2045	37	37	7.150%	No	37
247	FY 2026	John Day	COE	1995	2045	608	608	7.150%	No	608
248	FY 2026	John Day	COE	1995	2045	7,653	7,653	7.150%	No	7,653
249	FY 2026	Lookout Dam	COE	1995	2045	33	33	7.150%	No	33
250	FY 2026	Lookout Dam	COE	1995	2045	80	39	7.150%	No	39
251	FY 2026	Lost Creek	COE	1995	2045	94	94	7.150%	No	94
252	FY 2026	Lower Monument	COE	1995	2045	41	41	7.150%	No	41

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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
253	FY 2026	Lower Monument	COE	1995	2045	99	99	7.150%	No	99
254	FY 2026	Lower Monument	COE	1995	2045	624	624	7.150%	No	624
255	FY 2026	Lower Monument	COE	1995	2045	1,122	1,122	7.150%	No	1,122
256	FY 2026	McNary	COE	1995	2045	16	16	7.150%	No	16
257	FY 2026	Boise	BOR	1996	2046	442	442	7.150%	No	442
258	FY 2026	Boise	BOR	1996	2046	656	656	7.150%	No	656
259	FY 2026	Bonneville 2nd Powerhouse	COE	1996	2046	376	376	7.150%	No	376
260	FY 2026	Bonneville Dam	COE	1996	2046	18	18	7.150%	No	18
261	FY 2026	Bonneville Dam	COE	1996	2046	18	18	7.150%	No	18
262	FY 2026	Bonneville Dam	COE	1996	2046	80	80	7.150%	No	80
263	FY 2026	Bonneville Dam	COE	1996	2046	109	109	7.150%	No	109
264	FY 2026	Bonneville Dam	COE	1996	2046	142	142	7.150%	No	142
265	FY 2026	Bonneville Dam	COE	1996	2046	223	223	7.150%	No	223
266	FY 2026	Bonneville Dam	COE	1996	2046	751	751	7.150%	No	751
267	FY 2026	Bonneville Dam	COE	1996	2046	1,322	1,322	7.150%	No	1,322
268	FY 2026	Chief Joseph	COE	1996	2046	3	3	7.150%	No	3
269	FY 2026	Chief Joseph	COE	1996	2046	4	4	7.150%	No	4
270	FY 2026	Chief Joseph	COE	1996	2046	355	355	7.150%	No	355
271	FY 2026	Chief Joseph	COE	1996	2046	729	729	7.150%	No	729
272	FY 2026	Columbia Basin	BOR	1996	2046	368	368	7.150%	No	368
273	FY 2026	Columbia Basin	BOR	1996	2046	426	426	7.150%	No	426
274	FY 2026	Columbia River Fish Mitigation	COE	1996	2046	2,431	2,431	7.150%	No	2,431
275	FY 2026	Dworshak	COE	1996	2046	3	3	7.150%	No	3
276	FY 2026	Dworshak	COE	1996	2046	4	4	7.150%	No	4
277	FY 2026	Dworshak	COE	1996	2046	46	46	7.150%	No	46
278	FY 2026	Green Peter/Foster	COE	1996	2046	26	26	7.150%	No	26
279	FY 2026	Hills Creek	COE	1996	2046	28	28	7.150%	No	28
280	FY 2026	Hungry Horse Dam	BOR	1996	2046	2	2	7.150%	No	2
281	FY 2026	Hungry Horse Dam	BOR	1996	2046	15	15	7.150%	No	15
282	FY 2026	Little Goose	COE	1996	2046	10	10	7.150%	No	10
283	FY 2026	Little Goose	COE	1996	2046	10	10	7.150%	No	10
284	FY 2026	Little Goose	COE	1996	2046	211	211	7.150%	No	211
285	FY 2026	Little Goose	COE	1996	2046	241	241	7.150%	No	241
286	FY 2026	Little Goose	COE	1996	2046	520	520	7.150%	No	520
287	FY 2026	Little Goose	COE	1996	2046	3,909	3,909	7.150%	No	3,909
288	FY 2026	Lost Creek	COE	1996	2046	24	24	7.150%	No	24
289	FY 2026	Lower Granite	COE	1996	2046	9	9	7.150%	No	9
290	FY 2026	Lower Granite	COE	1996	2046	625	625	7.150%	No	625
291	FY 2026	Lower Monument	COE	1996	2046	10	10	7.150%	No	10
292	FY 2026	Lower Snake Fish and Wildlife	LSFW	1996	2046	12,085	12,085	7.150%	No	12,085
293	FY 2026	McNary	COE	1996	2046	619	619	7.150%	No	619
294	FY 2026	The Dalles	COE	1996	2046	1,991	1,991	7.150%	No	1,991
295	FY 2026	Albeni Falls	COE	1997	2047	431	431	7.150%	No	431
296	FY 2026	Boise	BOR	1997	2047	2,266	2,266	7.150%	No	2,266
297	FY 2026	Bonneville Dam	COE	1997	2047	161	161	7.150%	No	161
298	FY 2026	Chief Joseph	COE	1997	2047	657	657	7.150%	No	657
299	FY 2026	Columbia Basin	BOR	1997	2047	3,393	3,393	7.150%	No	3,393
300	FY 2026	Cougar	COE	1997	2047	26	26	7.150%	No	26
301	FY 2026	Dworshak	COE	1997	2047	7,588	7,588	7.150%	No	7,588
302	FY 2026	Hungry Horse Dam	BOR	1997	2047	111	111	7.150%	No	111
303	FY 2026	Ice Harbor	COE	1997	2047	67	67	7.150%	No	67
304	FY 2026	John Day	COE	1997	2047	179	179	7.150%	No	179
305	FY 2026	Libby	COE	1997	2047	660	660	7.150%	No	660
306	FY 2026	Little Goose	COE	1997	2047	1	1	7.150%	No	1
307	FY 2026	Lower Granite	COE	1997	2047	677	677	7.150%	No	677
308	FY 2026	Lower Snake Fish and Wildlife	LSFW	1997	2047	2,173	2,173	7.150%	No	2,173
309	FY 2026	Minidoka/Palisades	BOR	1997	2047	50,911	50,911	7.150%	No	50,911
310	FY 2026	Bonneville Dam	COE	2000	2050	24,446	24,446	6.125%	No	24,446
311	FY 2026	Columbia River Fish Mitigation	COE	2000	2050	47,006	47,006	6.125%	No	47,006
312	FY 2026	Hills Creek	COE	2000	2050	2,630	2,630	6.125%	No	2,630
313	FY 2026	Ice Harbor	COE	2000	2050	548	548	6.125%	No	548
314	FY 2026	John Day	COE	2000	2050	2,761	2,761	6.125%	No	2,761
315	FY 2026	Lookout Dam	COE	2000	2050	5,098	5,098	6.125%	No	5,098
316	FY 2026	Lower Snake Fish and Wildlife	LSFW	2000	2050	1,529	1,529	6.125%	No	1,529
317	FY 2026	The Dalles	COE	2000	2050	2,588	2,588	6.125%	No	2,588
318	FY 2026	Rogue River Projects - Green Springs	BOR	2001	2051	11,145	11,145	5.875%	No	3,961
319	FY 2026	Yakima Roza	BOR	2001	2051	15	14	5.875%	No	14
320		<b>FY 2026 Subtotal:</b>	-	-	-	<b>622,523</b>	<b>611,399</b>		-	<b>604,216</b>
321	FY 2027	Bureau Direct	-	2012	2027	25,000	25,000	3.900%	No	25,000
322	FY 2027	Conservation	-	2015	2027	16,930	16,930	4.300%	No	16,930
323	FY 2027	Conservation	-	2015	2027	19,070	19,070	4.300%	No	19,070
324	FY 2027	Conservation	-	2015	2027	27,140	27,140	4.300%	No	27,140
325	FY 2027	Conservation	-	2015	2027	28,860	28,860	4.300%	No	28,860
326	FY 2027	Fish and Wildlife	-	2012	2027	11,000	11,000	3.090%	No	11,000
327	FY 2027	Bureau Direct	-	2013	2043	15,000	15,000	6.000%	No	15,000

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Fiscal Year	Project	Appropriation Type	In Service	Due Date	Original Principal	Current Balance	Rate	Rollover	Amount Amortized	
328	FY 2027	Bureau Direct	-	2013	2043	18,000	18,000	6.000%	No	18,000
329	FY 2027	Bonneville Dam	COE	1999	2049	19,368	19,368	5.375%	No	19,368
330	FY 2027	Columbia River Fish Mitigation	COE	1999	2049	14,115	14,115	5.375%	No	14,115
331	FY 2027	Dworshak	COE	1999	2049	630	630	5.375%	No	630
332	FY 2027	Ice Harbor	COE	1999	2049	5,516	5,516	5.375%	No	5,516
333	FY 2027	John Day	COE	1999	2049	3,510	3,510	5.375%	No	3,510
334	FY 2027	Lower Granite	COE	1999	2049	856	856	5.375%	No	856
335	FY 2027	Lower Snake Fish and Wildlife	LSFW	1999	2049	7	7	5.375%	No	7
336	FY 2027	Bonneville Dam	COE	2001	2051	2,530	2,530	5.875%	No	2,530
337	FY 2027	Chief Joseph	COE	2001	2051	345	345	5.875%	No	345
338	FY 2027	Columbia Basin	BOR	2001	2051	69,226	69,226	5.875%	No	69,226
339	FY 2027	Columbia River Fish Mitigation	COE	2001	2051	6,168	6,168	5.875%	No	6,168
340	FY 2027	Detroit Lake/Big Cliff	COE	2001	2051	282	282	5.875%	No	282
341	FY 2027	Green Peter/Foster	COE	2001	2051	200	200	5.875%	No	200
342	FY 2027	Hills Creek	COE	2001	2051	8	8	5.875%	No	8
343	FY 2027	Hungry Horse Dam	BOR	2001	2051	552	552	5.875%	No	552
344	FY 2027	Ice Harbor	COE	2001	2051	764	764	5.875%	No	764
345	FY 2027	John Day	COE	2001	2051	619	619	5.875%	No	619
346	FY 2027	Libby	COE	2001	2051	5,562	5,562	5.875%	No	5,562
347	FY 2027	Little Goose	COE	2001	2051	4,608	4,608	5.875%	No	4,608
348	FY 2027	Lost Creek	COE	2001	2051	147	147	5.875%	No	147
349	FY 2027	Lower Granite	COE	2001	2051	2,025	2,025	5.875%	No	2,025
350	FY 2027	Lower Monument	COE	2001	2051	3,301	3,301	5.875%	No	3,301
351	FY 2027	Lower Snake Fish and Wildlife	LSFW	2001	2051	325	325	5.875%	No	325
352	FY 2027	McNary	COE	2001	2051	1,046	1,046	5.875%	No	1,046
353	FY 2027	Minidoka/Palsades	BOR	2001	2051	42	42	5.875%	No	42
354	FY 2027	Rogue River Projects - Green Springs	BOR	2001	2051	11,145	7,184	5.875%	No	7,184
355	FY 2027	Bonneville Dam	COE	2002	2052	448	448	5.500%	No	448
356	FY 2027	Chief Joseph	COE	2002	2052	2	2	5.500%	No	2
357	FY 2027	Columbia River Fish Mitigation	COE	2002	2052	8,797	8,797	5.500%	No	8,797
358	FY 2027	Detroit Lake/Big Cliff	COE	2002	2052	18	18	5.500%	No	18
359	FY 2027	Dworshak	COE	2002	2052	199	199	5.500%	No	199
360	FY 2027	Hills Creek	COE	2002	2052	2	2	5.500%	No	2
361	FY 2027	Ice Harbor	COE	2002	2052	1,014	1,014	5.500%	No	1,014
362	FY 2027	Little Goose	COE	2002	2052	27	27	5.500%	No	27
363	FY 2027	Lower Granite	COE	2002	2052	1,275	1,275	5.500%	No	1,275
364	FY 2027	Lower Monument	COE	2002	2052	29	29	5.500%	No	29
365	FY 2027	Lower Snake Fish and Wildlife	LSFW	2002	2052	890	890	5.500%	No	890
366	FY 2027	The Dalles	COE	2002	2052	1,226	1,226	5.500%	No	1,226
367	FY 2027	Bonneville Dam	COE	2003	2053	4,581	4,581	5.125%	No	4,581
368	FY 2027	Chief Joseph	COE	2003	2053	992	992	5.125%	No	992
369	FY 2027	Columbia River Fish Mitigation	COE	2003	2053	68,440	68,440	5.125%	No	68,440
370	FY 2027	Detroit Lake/Big Cliff	COE	2003	2053	223	223	5.125%	No	223
371	FY 2027	Dworshak	COE	2003	2053	761	761	5.125%	No	761
372	FY 2027	Ice Harbor	COE	2003	2053	50	50	5.125%	No	50
373	FY 2027	Little Goose	COE	2003	2053	146	146	5.125%	No	146
374	FY 2027	Lookout Dam	COE	2003	2053	135	135	5.125%	No	135
375	FY 2027	Lower Granite	COE	2003	2053	42	42	5.125%	No	42
376	FY 2027	Lower Monument	COE	2003	2053	22	22	5.125%	No	22
377	FY 2027	Lower Snake Fish and Wildlife	LSFW	2003	2053	98	98	5.125%	No	98
378	FY 2027	McNary	COE	2003	2053	97	97	5.750%	No	97
379	FY 2027	Bonneville Dam	COE	2004	2054	26,741	26,741	5.375%	No	26,741
380	FY 2027	Columbia River Fish Mitigation	COE	2004	2054	60,581	60,581	5.375%	No	60,581
381	FY 2027	Cougar	COE	2004	2054	3,622	3,622	5.375%	No	3,622
382	FY 2027	Ice Harbor	COE	2004	2054	3,321	3,321	5.375%	No	3,321
383	FY 2027	John Day	COE	2004	2054	2,830	2,830	5.375%	No	2,830
384	FY 2027	Little Goose	COE	2004	2054	67	67	5.375%	No	67
385	FY 2027	Lower Monument	COE	2004	2054	3,423	3,423	5.375%	No	3,423
386	FY 2027	Lower Snake Fish and Wildlife	LSFW	2004	2054	230	230	5.375%	No	230
387	FY 2027	McNary	COE	2004	2054	6,138	6,138	5.375%	No	6,138
388	FY 2027	The Dalles	COE	2004	2054	182	182	5.375%	No	182
389	FY 2027	Albani Falls	COE	2005	2055	481	481	5.125%	No	481
390	FY 2027	Boise	BOR	2005	2055	903	903	5.125%	No	903
391	FY 2027	Bonneville Dam	COE	2005	2055	19,725	19,725	5.125%	No	19,725
392	FY 2027	Columbia Basin	BOR	2005	2055	10,963	10,963	5.125%	No	10,963
393	FY 2027	Columbia River Fish Mitigation	COE	2005	2055	52,039	52,039	5.125%	No	52,039
394	FY 2027	Cougar	COE	2005	2055	8,130	8,130	5.125%	No	8,130
395	FY 2027	Detroit Lake/Big Cliff	COE	2005	2055	1,031	1,031	5.125%	No	1,031
396	FY 2027	Dworshak	COE	2005	2055	713	713	5.125%	No	713
397	FY 2027	Hills Creek	COE	2005	2055	46	46	5.125%	No	46
398	FY 2027	Hungry Horse Dam	BOR	2005	2055	2,951	2,951	5.125%	No	2,951
399	FY 2027	John Day	COE	2005	2055	2,827	2,827	5.125%	No	2,827
400	FY 2027	Lookout Dam	COE	2005	2055	7,355	7,355	5.125%	No	7,355
401	FY 2027	Lower Granite	COE	2005	2055	393	393	5.125%	No	393
402	FY 2027	Lower Monument	COE	2005	2055	527	527	5.125%	No	527

**TABLE 14B: Application of Amortization  
October 1, 2013 - September 30, 2015 Cost Evaluation Period  
(\$000s) (FY 2015)**

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	
403	FY 2027	Lower Snake Fish and Wildlife	LSFW	2005	2055	4	4	5.125%	No	4
404	FY 2027	McNary	COE	2005	2055	550	550	5.125%	No	550
405	FY 2027	The Dalles	COE	2005	2055	36,019	36,019	5.125%	No	36,019
406	FY 2027	Yakima Chandler/Kenniwick	BOR	2005	2055	833	833	5.125%	No	833
407	FY 2027	Abeni Falls	-	2016	2061	191,022	191,022	5.060%	No	1,651
408		<b>FY 2027 Subtotal:</b>	-	-	-	<b>847,054</b>	<b>843,093</b>		-	<b>653,722</b>
409	FY 2028	Fish and Wildlife	-	2013	2028	10,000	10,000	5.400%	No	10,000
410	FY 2028	Fish and Wildlife	-	2013	2028	25,000	25,000	5.000%	No	25,000
411	FY 2028	Fish and Wildlife	-	2013	2028	11,690	11,690	3.100%	No	11,690
412	FY 2028	Fish and Wildlife	-	2013	2028	13,310	13,310	3.100%	No	13,310
413	FY 2028	Abeni Falls	-	2016	2061	191,022	189,371	5.060%	No	189,371
414	FY 2028	Abeni Falls	-	2017	2062	184,494	184,494	5.060%	No	184,494
415	FY 2028	Abeni Falls	-	2018	2063	185,357	185,357	5.060%	No	185,357
416	FY 2028	Abeni Falls	-	2019	2064	182,808	182,808	5.060%	No	67,216
417		<b>FY 2028 Subtotal:</b>	-	-	-	<b>803,681</b>	<b>802,030</b>		-	<b>686,438</b>
418	FY 2029	Fish and Wildlife	-	2012	2029	5,000	5,000	3.630%	No	5,000
419	FY 2029	Fish and Wildlife	-	2014	2029	10,060	10,060	4.400%	No	10,060
420	FY 2029	Fish and Wildlife	-	2014	2029	11,850	11,850	3.600%	No	11,850
421	FY 2029	Fish and Wildlife	-	2014	2029	13,490	13,490	3.600%	No	13,490
422	FY 2029	Fish and Wildlife	-	2014	2029	24,880	24,880	3.600%	No	24,880
423	FY 2029	Abeni Falls	-	2019	2064	182,808	115,592	5.060%	No	115,592
424	FY 2029	Abeni Falls	-	2020	2065	180,336	180,336	5.060%	No	180,336
425	FY 2029	Abeni Falls	-	2021	2066	178,641	178,641	5.060%	No	178,641
426	FY 2029	Abeni Falls	-	2022	2067	171,569	171,569	5.060%	No	171,569
427	FY 2029	Abeni Falls	-	2023	2068	171,569	171,569	5.060%	No	7,817
428		<b>FY 2029 Subtotal:</b>	-	-	-	<b>950,203</b>	<b>882,987</b>		-	<b>719,235</b>
429	FY 2030	Fish and Wildlife	-	2015	2030	8,560	8,560	4.400%	No	8,560
430	FY 2030	Fish and Wildlife	-	2015	2030	10,090	10,090	4.400%	No	10,090
431	FY 2030	Fish and Wildlife	-	2015	2030	11,480	11,480	4.400%	No	11,480
432	FY 2030	Fish and Wildlife	-	2015	2030	21,160	21,160	4.400%	No	21,160
433	FY 2030	Abeni Falls	-	2023	2068	171,569	163,752	5.060%	No	163,752
434	FY 2030	Abeni Falls	-	2024	2069	171,569	171,569	5.060%	No	171,569
435	FY 2030	Abeni Falls	-	2025	2070	171,569	171,569	5.060%	No	171,569
436	FY 2030	Abeni Falls	-	2026	2071	171,569	171,569	5.060%	No	171,569
437	FY 2030	Abeni Falls	-	2027	2072	171,569	171,569	5.060%	No	18,412
438		<b>FY 2030 Subtotal:</b>	-	-	-	<b>909,135</b>	<b>901,318</b>		-	<b>748,162</b>
439	FY 2031	Abeni Falls	-	2027	2072	171,569	153,157	5.060%	No	153,157
440	FY 2031	Abeni Falls	-	2028	2073	171,569	171,569	5.060%	No	171,569
441	FY 2031	Abeni Falls	-	2029	2074	171,569	171,569	5.060%	No	171,569
442	FY 2031	Abeni Falls	-	2030	2075	171,569	171,569	5.060%	No	171,569
443	FY 2031	Abeni Falls	-	2031	2076	171,569	171,569	5.060%	No	100,481
444		<b>FY 2031 Subtotal:</b>	-	-	-	<b>857,845</b>	<b>839,433</b>		-	<b>768,345</b>
445	FY 2032	Bureau Direct	-	2011	2038	30,000	30,000	4.700%	No	30,000
446	FY 2032	Bureau Direct	-	2009	2039	25,000	25,000	5.192%	No	25,000
447	FY 2032	Bureau Direct	-	2011	2039	35,000	35,000	5.040%	No	35,000
448	FY 2032	Bureau Direct	-	2011	2040	50,000	50,000	4.995%	No	50,000
449	FY 2032	Bureau Direct	-	2013	2043	70,000	70,000	5.000%	No	70,000
450	FY 2032	Bureau Direct	-	2015	2045	7,830	7,830	5.100%	No	7,830
451	FY 2032	Bureau Direct	-	2015	2045	9,010	9,010	5.100%	No	9,010
452	FY 2032	Bureau Direct	-	2015	2045	9,490	9,490	5.100%	No	9,490
453	FY 2032	Bureau Direct	-	2015	2045	10,190	10,190	5.100%	No	10,190
454	FY 2032	Bureau Direct	-	2015	2045	10,510	10,510	5.100%	No	10,510
455	FY 2032	Bureau Direct	-	2015	2045	10,730	10,730	5.100%	No	10,730
456	FY 2032	Bureau Direct	-	2015	2045	11,530	11,530	5.100%	No	11,530
457	FY 2032	Bureau Direct	-	2015	2045	11,800	11,800	5.100%	No	11,800
458	FY 2032	Bureau Direct	-	2015	2045	12,230	12,230	5.100%	No	12,230
459	FY 2032	Bureau Direct	-	2015	2045	12,320	12,320	5.100%	No	12,320
460	FY 2032	Bureau Direct	-	2015	2045	12,710	12,710	5.100%	No	12,710
461	FY 2032	Bureau Direct	-	2015	2045	13,570	13,570	5.100%	No	13,570
462	FY 2032	Columbia River Fish Mitigation	COE	2006	2056	366,395	366,395	4.500%	No	95,090
463	FY 2032	John Day	COE	2006	2056	601	601	4.500%	No	601
464	FY 2032	Lower Monument	COE	2006	2056	285	285	4.500%	No	285
465	FY 2032	Lower Snake Fish and Wildlife	LSFW	2006	2056	379	379	4.500%	No	379
466	FY 2032	McNary	COE	2006	2056	4,080	4,080	4.500%	No	4,080
467	FY 2032	The Dalles	COE	2006	2056	2,030	2,030	4.500%	No	2,030
468	FY 2032	Boise	BOR	2007	2057	76	76	5.000%	No	76
469	FY 2032	Bonneville Dam	COE	2007	2057	1,124	1,124	5.000%	No	1,124
470	FY 2032	Columbia Basin	BOR	2007	2057	929	929	5.000%	No	929
471	FY 2032	Columbia River Fish Mitigation	COE	2007	2057	53,525	53,525	5.000%	No	53,525
472	FY 2032	Cougar	COE	2007	2057	120	120	5.000%	No	120
473	FY 2032	Hungry Horse Dam	BOR	2007	2057	294	294	5.000%	No	294
474	FY 2032	John Day	COE	2007	2057	233	233	5.000%	No	233
475	FY 2032	Lookout Dam	COE	2007	2057	572	572	5.000%	No	572
476	FY 2032	The Dalles	COE	2007	2057	140	140	5.000%	No	140
477	FY 2032	Boise	BOR	2008	2058	64	64	4.875%	No	64

**TABLE 14B: Application of Amortization  
October 1, 2013 - September 30, 2015 Cost Evaluation Period  
(\$000s) (FY 2015)**

	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
478	FY 2032	Bonneville Dam	COE	2008	2058	14,609	14,609	4.875%	No	14,609
479	FY 2032	Chief Joseph	COE	2008	2058	3,500	3,500	4.875%	No	3,500
480	FY 2032	Columbia Basin	BOR	2008	2058	835	835	4.875%	No	835
481	FY 2032	Columbia River Fish Mitigation	COE	2008	2058	36,554	36,554	4.875%	No	36,554
482	FY 2032	Dworshak	COE	2008	2058	10	10	4.875%	No	10
483	FY 2032	Hungry Horse Dam	BOR	2008	2058	76	76	4.875%	No	76
484	FY 2032	Ice Harbor	COE	2008	2058	14	14	4.875%	No	14
485	FY 2032	Libby	COE	2008	2058	1,567	1,567	4.875%	No	1,567
486	FY 2032	Little Goose	COE	2008	2058	13	13	4.875%	No	13
487	FY 2032	Lower Granite	COE	2008	2058	24	24	4.875%	No	24
488	FY 2032	Lower Monument	COE	2008	2058	9	9	4.875%	No	9
489	FY 2032	Lower Snake Fish and Wildlife	LSFW	2008	2058	74	74	4.875%	No	74
490	FY 2032	McNary	COE	2008	2058	215	215	4.875%	No	215
491	FY 2032	The Dalles	COE	2008	2058	1,651	1,651	4.875%	No	1,651
492	FY 2032	Albeni Falls	-	2031	2076	171,569	71,088	5.060%	No	71,088
493	FY 2032	Albeni Falls	-	2032	2077	171,569	171,569	5.060%	No	171,569
494		<b>FY 2032 Subtotal:</b>	-	-	-	<b>1,175,055</b>	<b>1,074,574</b>		-	<b>803,269</b>
495	FY 2033	Bureau Direct	-	2011	2035	20,000	20,000	4.211%	No	11,652
496	FY 2033	Bureau Direct	-	2011	2036	30,000	30,000	4.629%	No	30,000
497	FY 2033	Bureau Direct	-	2011	2037	30,000	30,000	4.208%	No	30,000
498	FY 2033	Bureau Direct	-	2014	2044	4,140	4,140	4.500%	No	4,140
499	FY 2033	Bureau Direct	-	2014	2044	4,760	4,760	4.500%	No	4,760
500	FY 2033	Bureau Direct	-	2014	2044	5,020	5,020	4.500%	No	5,020
501	FY 2033	Bureau Direct	-	2014	2044	5,390	5,390	4.500%	No	5,390
502	FY 2033	Bureau Direct	-	2014	2044	5,560	5,560	4.500%	No	5,560
503	FY 2033	Bureau Direct	-	2014	2044	5,670	5,670	4.500%	No	5,670
504	FY 2033	Bureau Direct	-	2014	2044	6,090	6,090	4.500%	No	6,090
505	FY 2033	Bureau Direct	-	2014	2044	6,240	6,240	4.500%	No	6,240
506	FY 2033	Bureau Direct	-	2014	2044	6,460	6,460	4.500%	No	6,460
507	FY 2033	Bureau Direct	-	2014	2044	6,510	6,510	4.500%	No	6,510
508	FY 2033	Bureau Direct	-	2014	2044	6,720	6,720	4.500%	No	6,720
509	FY 2033	Bureau Direct	-	2014	2044	7,170	7,170	4.500%	No	7,170
510	FY 2033	Boise	BOR	2006	2056	15	15	4.500%	No	15
511	FY 2033	Bonneville Dam	COE	2006	2056	2,628	2,628	4.500%	No	2,628
512	FY 2033	Columbia Basin	BOR	2006	2056	1,987	1,987	4.500%	No	1,987
513	FY 2033	Columbia River Fish Mitigation	COE	2006	2056	366,395	271,305	4.500%	No	271,305
514	FY 2033	Cougar	COE	2006	2056	109	109	4.500%	No	109
515	FY 2033	Dworshak	COE	2006	2056	73	73	4.500%	No	73
516	FY 2033	Albeni Falls	COE	2009	2059	57	57	4.375%	No	57
517	FY 2033	Boise	BOR	2009	2059	2	2	4.375%	No	2
518	FY 2033	Bonneville Dam	COE	2009	2059	2,744	2,744	4.375%	No	2,744
519	FY 2033	Chief Joseph	COE	2009	2059	24,727	24,727	4.375%	No	24,727
520	FY 2033	Columbia Basin	BOR	2009	2059	1,338	1,338	4.375%	No	1,338
521	FY 2033	Columbia River Fish Mitigation	COE	2009	2059	103,203	103,203	4.375%	No	103,203
522	FY 2033	Cougar	COE	2009	2059	121	121	4.375%	No	121
523	FY 2033	Dworshak	COE	2009	2059	2,480	2,480	4.375%	No	2,480
524	FY 2033	Hungry Horse Dam	BOR	2009	2059	60	60	4.375%	No	60
525	FY 2033	Ice Harbor	COE	2009	2059	2,615	2,615	4.375%	No	2,615
526	FY 2033	John Day	COE	2009	2059	1,548	1,548	4.375%	No	1,548
527	FY 2033	Little Goose	COE	2009	2059	3,171	3,171	4.375%	No	3,171
528	FY 2033	Lower Granite	COE	2009	2059	5,669	5,669	4.375%	No	5,669
529	FY 2033	Lower Monument	COE	2009	2059	2,332	2,332	4.375%	No	2,332
530	FY 2033	Lower Snake Fish and Wildlife	LSFW	2009	2059	1,540	1,540	4.375%	No	1,540
531	FY 2033	Yakima Chandler/Kenniwick	BOR	2009	2059	15	15	4.375%	No	15
532	FY 2033	Albeni Falls	COE	2010	2060	42	42	4.250%	No	42
533	FY 2033	Bonneville Dam	COE	2010	2060	1,425	1,425	4.250%	No	1,425
534	FY 2033	Columbia Basin	BOR	2010	2060	877	877	4.250%	No	877
535	FY 2033	Columbia River Fish Mitigation	COE	2010	2060	56,832	56,832	4.250%	No	56,832
536	FY 2033	Cougar	COE	2010	2060	59	59	4.250%	No	59
537	FY 2033	Hungry Horse Dam	BOR	2010	2060	779	779	4.250%	No	779
538	FY 2033	Ice Harbor	COE	2010	2060	207	207	4.250%	No	207
539	FY 2033	John Day	COE	2010	2060	356	356	4.250%	No	356
540	FY 2033	Libby	COE	2010	2060	40	40	4.250%	No	40
541	FY 2033	Little Goose	COE	2010	2060	30	30	4.250%	No	30
542	FY 2033	Lower Granite	COE	2010	2060	1,156	1,156	4.250%	No	1,156
543	FY 2033	Lower Snake Fish and Wildlife	LSFW	2010	2060	6	6	4.250%	No	6
544	FY 2033	Columbia River Fish Mitigation	-	2015	2065	38,981	38,981	4.450%	No	38,981
545	FY 2033	Albeni Falls	-	2033	2078	171,569	171,569	5.060%	No	171,569
546		<b>FY 2033 Subtotal:</b>	-	-	-	<b>944,918</b>	<b>849,828</b>		-	<b>841,479</b>
547	FY 2034	Bureau Direct	-	2012	2034	55,000	55,000	3.780%	No	55,000
548	FY 2034	Bureau Direct	-	2011	2035	20,000	8,348	4.211%	No	8,348
549	FY 2034	Bureau Direct	-	2012	2038	15,000	15,000	3.893%	No	15,000
550	FY 2034	Conservation	-	2012	2038	55,000	55,000	3.840%	No	55,000
551	FY 2034	Fish and Wildlife	-	2012	2038	30,000	30,000	3.893%	No	30,000
552	FY 2034	Bureau Direct	-	2012	2039	35,000	35,000	3.880%	No	35,000

**TABLE 14B: Application of Amortization**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

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	
553	FY 2034	Bureau Direct	-	2011	2041	30,000	30,000	3.825%	No	30,000
554	FY 2034	Bureau Direct	-	2012	2041	50,000	50,000	3.666%	No	50,000
555	FY 2034	Fish and Wildlife	-	2012	2041	12,000	12,000	3.666%	No	12,000
556	FY 2034	Bureau Direct	-	2012	2042	44,000	44,000	3.834%	No	44,000
557	FY 2034	Bureau Direct	-	2013	2043	2,490	2,490	4.100%	No	2,490
558	FY 2034	Bureau Direct	-	2013	2043	4,100	4,100	4.100%	No	4,100
559	FY 2034	Bureau Direct	-	2013	2043	5,160	5,160	4.100%	No	5,160
560	FY 2034	Bureau Direct	-	2013	2043	7,390	7,390	4.100%	No	7,390
561	FY 2034	Bureau Direct	-	2013	2043	8,370	8,370	4.100%	No	8,370
562	FY 2034	Bureau Direct	-	2013	2043	8,900	8,900	4.100%	No	8,900
563	FY 2034	Bonneville Dam	COE	2011	2061	10,962	10,962	3.750%	No	10,962
564	FY 2034	Chief Joseph	COE	2011	2061	4	4	3.750%	No	4
565	FY 2034	Columbia Basin	BOR	2011	2061	1,723	1,723	3.750%	No	1,723
566	FY 2034	Columbia River Fish Mitigation	COE	2011	2061	106,014	106,014	3.750%	No	106,014
567	FY 2034	Cougar	COE	2011	2061	282	282	3.750%	No	282
568	FY 2034	Green Peter/Foster	COE	2011	2061	87	87	3.750%	No	87
569	FY 2034	Hills Creek	COE	2011	2061	12	12	3.750%	No	12
570	FY 2034	Hungry Horse Dam	BOR	2011	2061	503	503	3.750%	No	503
571	FY 2034	Ice Harbor	COE	2011	2061	819	819	3.750%	No	819
572	FY 2034	John Day	COE	2011	2061	175	175	3.750%	No	175
573	FY 2034	Libby	COE	2011	2061	152	152	3.750%	No	152
574	FY 2034	Lookout Dam	COE	2011	2061	17	17	3.750%	No	17
575	FY 2034	Lost Creek	COE	2011	2061	7	7	3.750%	No	7
576	FY 2034	Lower Granite	COE	2011	2061	8	8	3.750%	No	8
577	FY 2034	Lower Snake Fish and Wildlife	LSFW	2011	2061	122	122	3.750%	No	122
578	FY 2034	McNary	COE	2011	2061	565	565	3.750%	No	565
579	FY 2034	Chief Joseph	COE	2012	2062	24	24	3.375%	No	24
580	FY 2034	Columbia River Fish Mitigation	COE	2012	2062	102,794	102,794	3.375%	No	102,794
581	FY 2034	Cougar	COE	2012	2062	170	170	3.375%	No	170
582	FY 2034	Green Peter/Foster	COE	2012	2062	44	44	3.375%	No	44
583	FY 2034	Hills Creek	COE	2012	2062	142	142	3.375%	No	142
584	FY 2034	Hungry Horse Dam	BOR	2012	2062	3	3	3.375%	No	3
585	FY 2034	Ice Harbor	COE	2012	2062	115	115	3.375%	No	115
586	FY 2034	John Day	COE	2012	2062	6,161	6,161	3.375%	No	6,161
587	FY 2034	Libby	COE	2012	2062	16	16	3.375%	No	16
588	FY 2034	Little Goose	COE	2012	2062	-	-	3.375%	No	-
589	FY 2034	Lookout Dam	COE	2012	2062	294	294	3.375%	No	294
590	FY 2034	Lost Creek	COE	2012	2062	788	788	3.375%	No	788
591	FY 2034	Lower Monument	COE	2012	2062	89	89	3.375%	No	89
592	FY 2034	McNary	COE	2012	2062	11	11	3.375%	No	11
593	FY 2034	Minidoka/Palissades	BOR	2012	2062	11	11	3.375%	No	11
594	FY 2034	Columbia River Fish Mitigation	-	2013	2063	141,823	141,823	2.875%	No	749
595	FY 2034	Columbia River Fish Mitigation	-	2014	2064	99,343	99,343	3.840%	No	99,343
596	FY 2034	Abeni Falls	-	2034	2079	171,569	171,569	5.060%	No	171,569
597		<b>FY 2034 Subtotal:</b>	-	-	-	<b>1,027,257</b>	<b>1,015,605</b>	-	-	<b>874,532</b>
598	FY 2035	Columbia River Fish Mitigation	-	2013	2063	141,823	141,074	2.875%	No	141,074
599	FY 2035	Abeni Falls	-	2035	2080	171,569	171,569	5.060%	No	171,569
600		<b>FY 2035 Subtotal:</b>	-	-	-	<b>313,392</b>	<b>312,643</b>	-	-	<b>312,643</b>
601	FY 2036	Abeni Falls	-	2036	2081	171,569	171,569	5.060%	No	171,569
602		<b>FY 2036 Subtotal:</b>	-	-	-	<b>171,569</b>	<b>171,569</b>	-	-	<b>171,569</b>
603	FY 2037	Abeni Falls	-	2037	2082	171,569	171,569	5.060%	No	171,569
604		<b>FY 2037 Subtotal:</b>	-	-	-	<b>171,569</b>	<b>171,569</b>	-	-	<b>171,569</b>
605	FY 2038	Abeni Falls	-	2038	2083	171,569	171,569	5.060%	No	171,569
606		<b>FY 2038 Subtotal:</b>	-	-	-	<b>171,569</b>	<b>171,569</b>	-	-	<b>171,569</b>
607	FY 2039	Abeni Falls	-	2039	2084	171,569	171,569	5.060%	No	171,569
608		<b>FY 2039 Subtotal:</b>	-	-	-	<b>171,569</b>	<b>171,569</b>	-	-	<b>171,569</b>
609	FY 2040	Abeni Falls	-	2040	2085	171,569	171,569	5.060%	No	171,569
610		<b>FY 2040 Subtotal:</b>	-	-	-	<b>171,569</b>	<b>171,569</b>	-	-	<b>171,569</b>
611	FY 2041	Abeni Falls	-	2041	2086	171,569	171,569	5.060%	No	171,569
612		<b>FY 2041 Subtotal:</b>	-	-	-	<b>171,569</b>	<b>171,569</b>	-	-	<b>171,569</b>
613	FY 2042	Abeni Falls	-	2042	2087	171,569	171,569	5.060%	No	171,569
614		<b>FY 2042 Subtotal:</b>	-	-	-	<b>171,569</b>	<b>171,569</b>	-	-	<b>171,569</b>
615	FY 2043	Abeni Falls	-	2043	2088	171,569	171,569	5.060%	No	171,569
616		<b>FY 2043 Subtotal:</b>	-	-	-	<b>171,569</b>	<b>171,569</b>	-	-	<b>171,569</b>
617	FY 2044	Abeni Falls	-	2044	2089	171,569	171,569	5.060%	No	171,569
618		<b>FY 2044 Subtotal:</b>	-	-	-	<b>171,569</b>	<b>171,569</b>	-	-	<b>171,569</b>
619	FY 2045	Abeni Falls	-	2045	2090	171,569	171,569	5.060%	No	171,569
620		<b>FY 2045 Subtotal:</b>	-	-	-	<b>171,569</b>	<b>171,569</b>	-	-	<b>171,569</b>
621	FY 2046	Abeni Falls	-	2046	2091	171,569	171,569	5.060%	No	171,569
622		<b>FY 2046 Subtotal:</b>	-	-	-	<b>171,569</b>	<b>171,569</b>	-	-	<b>171,569</b>
623	FY 2047	Abeni Falls	-	2047	2092	171,569	171,569	5.060%	No	171,569
624		<b>FY 2047 Subtotal:</b>	-	-	-	<b>171,569</b>	<b>171,569</b>	-	-	<b>171,569</b>
625	FY 2048	Abeni Falls	-	2048	2093	171,569	171,569	5.060%	No	171,569
626		<b>FY 2048 Subtotal:</b>	-	-	-	<b>171,569</b>	<b>171,569</b>	-	-	<b>171,569</b>
627	FY 2049	Abeni Falls	-	2049	2094	171,569	171,569	5.060%	No	171,569



**TABLE 14B: Application of Amortization**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

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
628	<b>FY 2049 Subtotal:</b>	-	-	-	171,569	171,569		-	171,569
629	FY 2050	-	2050	2095	171,569	171,569	5.060%	No	171,569
630	<b>FY 2050 Subtotal:</b>	-	-	-	171,569	171,569		-	171,569
631	FY 2051	-	2051	2096	171,569	171,569	5.060%	No	171,569
632	<b>FY 2051 Subtotal:</b>	-	-	-	171,569	171,569		-	171,569
633	FY 2052	-	2052	2097	171,569	171,569	5.060%	No	171,569
634	<b>FY 2052 Subtotal:</b>	-	-	-	171,569	171,569		-	171,569
635	FY 2053	-	2053	2098	171,569	171,569	5.060%	No	171,569
636	<b>FY 2053 Subtotal:</b>	-	-	-	171,569	171,569		-	171,569
637	FY 2054	-	2054	2099	171,569	171,569	5.060%	No	171,569
638	<b>FY 2054 Subtotal:</b>	-	-	-	171,569	171,569		-	171,569
639	FY 2055	-	2055	2100	171,569	171,569	5.060%	No	171,569
640	<b>FY 2055 Subtotal:</b>	-	-	-	171,569	171,569		-	171,569
641	FY 2056	-	2056	2101	171,569	171,569	5.060%	No	171,569
642	<b>FY 2056 Subtotal:</b>	-	-	-	171,569	171,569		-	171,569
643	FY 2057	-	2057	2102	171,569	171,569	5.060%	No	171,569
644	<b>FY 2057 Subtotal:</b>	-	-	-	171,569	171,569		-	171,569
645	FY 2058	-	2058	2103	171,569	171,569	5.060%	No	171,569
646	<b>FY 2058 Subtotal:</b>	-	-	-	171,569	171,569		-	171,569
647	FY 2059	-	2059	2104	171,569	171,569	5.060%	No	171,569
648	<b>FY 2059 Subtotal:</b>	-	-	-	171,569	171,569		-	171,569
649	FY 2060	-	2060	2105	171,569	171,569	5.060%	No	171,569
650	<b>FY 2060 Subtotal:</b>	-	-	-	171,569	171,569		-	171,569
651	FY 2061	-	2061	2106	171,569	171,569	5.060%	No	171,569
652	<b>FY 2061 Subtotal:</b>	-	-	-	171,569	171,569		-	171,569
653	FY 2062	-	2062	2107	171,569	171,569	5.060%	No	171,569
654	<b>FY 2062 Subtotal:</b>	-	-	-	171,569	171,569		-	171,569
655	FY 2063	-	2063	2108	171,569	171,569	5.060%	No	171,569
656	<b>FY 2063 Subtotal:</b>	-	-	-	171,569	171,569		-	171,569
657	FY 2064	-	2064	2109	171,569	171,569	5.060%	No	171,569
658	<b>FY 2064 Subtotal:</b>	-	-	-	171,569	171,569		-	171,569
659	FY 2065	-	2065	2110	171,569	171,569	5.060%	No	171,569
660	<b>FY 2065 Subtotal:</b>	-	-	-	171,569	171,569		-	171,569
<b>Grand Total:</b>		-	-	-	17,389,352	16,207,790		-	14,745,371

**TABLE 14C: Summary of Interest**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	
1																				
2	Boise	295	295	295	295	295	295	295	295	295	295	295	295	295	54	8	8	8	8	8
3	Columbia Basin	5,492	5491.97	5,492	5491.97	5,492	5,492	5,492	5,492	5,487	5,487	5,487	5,461	5,461	4,966	337	337	337	337	337
4	Columbia Basin 3rd Powerhouse	32,565	32,565	32,565	32,565	32,565	32,565	32,565	32,565	29,405	22,249	18,653	11,518	903	-	-	-	-	-	-
5	Hungry Horse Dam	832	832	832	832	832	832	832	832	832	832	832	709	709	257	73	73	73	73	73
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					
7	Rogue River Projects - Green Springs	655	655	655	655	655	655	655	655	655	655	655	655	655	422	-	-	-	-	-
8	Yakima Chandler/Kennwick	43	43	43	43	43	43	43	43	43	43	43	43	43	43	1	1	1	1	1
9	Yakima Roza	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	-
10	<b>Bureau of Reclamation Subtotal:</b>	<b>43,526</b>	<b>43,526</b>	<b>43,526</b>	<b>43,526</b>	<b>43,526</b>	<b>43,526</b>	<b>43,526</b>	<b>43,526</b>	<b>40,361</b>	<b>33,204</b>	<b>29,608</b>	<b>22,324</b>	<b>11,709</b>	<b>5,745</b>	<b>419</b>	<b>419</b>	<b>419</b>	<b>419</b>	<b>419</b>
11	Albeni Falls	208	208	208	208	9,874	19,210	28,589	37,839	46,964	56,003	64,684	73,366	82,047	90,728	99,230	107,804	84,787	60,379	33,798
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	23,881	705	-	-	-	-	-	-
13	Bonneville Dam	8,312	8,312	8,312	8,312	8,312	8,312	8,312	8,312	8,312	8,312	7,192	7,192	7,153	5,376	1,478	1,478	1,478	1,478	1,478
14	Chief Joseph	16,243	16,243	16,243	16,243	16,243	16,243	16,243	16,243	16,243	16,243	14,061	11,333	1,906	1,894	1,325	1,253	1,253	1,253	1,253
15	Columbia River Fish Mitigation	52,219	56,296	60,111	61,845	61,845	61,845	61,845	61,845	61,845	61,845	61,845	61,845	61,845	55,984	44,948	44,948	44,948	44,948	44,948
16	Cougar	648	648	648	648	648	648	648	648	648	648	648	648	648	648	35	35	35	35	35
17	Detroit Lake/Big Cliff	85	85	85	85	85	85	85	85	85	85	85	85	85	82	-	-	-	-	-
18	Dworshak	7,503	7,503	2,039	2,039	2,039	1,978	892	892	892	892	892	862	862	233	112	112	112	112	112
19	Green Peter/Foster	18	18	18	18	18	18	18	18	18	18	18	18	18	16	5	5	5	5	5
20	Hills Creek	171	171	171	171	171	171	171	171	171	171	171	171	171	8	5	5	5	5	5
21	Ice Harbor	2,289	2,289	2,289	2,289	2,289	2,289	2,289	2,289	2,287	807	807	802	802	737	158	158	158	158	158
22	John Day	1,647	1,647	1,647	1,647	1,647	1,647	1,647	1,647	1,647	1,647	1,647	1,647	1,633	858	336	336	336	336	336
23	Libby	16,744	16,744	16,744	16,744	16,744	16,744	16,744	16,744	13,368	3,439	1,537	1,537	1,515	411	84	84	84	84	84
24	Little Goose	4,408	4,408	4,408	4,408	4,408	4,408	4,408	4,408	4,408	3,758	860	860	860	424	141	141	141	141	141
25	Lookout Dam	740	740	740	740	740	740	740	740	740	740	740	740	423	39	39	39	39	39	
26	Lost Creek	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032	46	46	44	44	36	27	27	27	27	27
27	Lower Granite	12,441	12,441	12,441	12,441	12,441	11,772	3,744	3,679	3,679	775	775	650	650	556	299	299	299	299	299
28	Lower Monument	3,607	3,607	3,607	3,607	3,607	3,607	3,607	3,607	3,607	3,607	3,607	680	662	526	118	118	118	118	118
29	McNary	713	713	713	713	713	713	713	713	688	688	688	686	641	216	216	216	216	216	216
30	The Dalles	2,922	2,922	2,922	2,922	2,922	2,403	2,403	2,403	2,403	2,403	2,403	2,403	2,403	2,102	179	179	179	179	179
31	<b>Corps of Engineers Subtotal:</b>	<b>158,178</b>	<b>162,255</b>	<b>160,606</b>	<b>162,340</b>	<b>172,006</b>	<b>181,280</b>	<b>188,386</b>	<b>189,608</b>	<b>195,292</b>	<b>194,375</b>	<b>191,832</b>	<b>194,888</b>	<b>188,684</b>	<b>174,106</b>	<b>169,613</b>	<b>157,238</b>	<b>134,221</b>	<b>109,813</b>	<b>83,232</b>
32	Lower Snake Fish and Wildlife	16,525	16,525	16,525	16,525	16,525	16,525	16,525	16,525	16,525	16,525	16,525	16,525	16,525	12,176	179	93	93	93	93
33	<b>Lower Snake Fish &amp; Wildlife Subtotal:</b>	<b>16,525</b>	<b>16,525</b>	<b>16,525</b>	<b>16,525</b>	<b>16,525</b>	<b>16,525</b>	<b>16,525</b>	<b>16,525</b>	<b>16,525</b>	<b>16,525</b>	<b>16,525</b>	<b>16,525</b>	<b>16,525</b>	<b>12,176</b>	<b>179</b>	<b>93</b>	<b>93</b>	<b>93</b>	<b>93</b>
34	<b>Appropriation Subtotal:</b>	<b>218,229</b>	<b>222,306</b>	<b>220,657</b>	<b>222,391</b>	<b>232,057</b>	<b>241,331</b>	<b>248,437</b>	<b>249,659</b>	<b>255,343</b>	<b>251,262</b>	<b>241,562</b>	<b>241,021</b>	<b>227,533</b>	<b>197,991</b>	<b>175,536</b>	<b>157,749</b>	<b>134,733</b>	<b>110,324</b>	<b>83,744</b>
35	Bureau Direct	34,485	39,160	43,838	47,679	47,679	47,679	47,679	45,491	39,619	37,985	37,985	36,887	36,887	36,887	34,010	34,010	34,010	34,010	34,010
36	Conservation	12,980	11,805	14,392	15,626	15,382	15,262	15,262	15,262	14,918	14,918	10,641	10,223	8,673	6,068	2,112	2,112	2,112	2,112	2,112
37	Construction	852	1,271	1,316	1,586	1,399	1,399	1,399	1,034	626	-	-	-	-	-	-	-	-	-	-
38	Fish and Wildlife	13,200	11,395	13,632	15,210	15,210	15,210	15,210	13,623	13,623	13,623	13,623	12,712	12,712	9,202	8,862	6,297	3,865	1,608	1,608
39	<b>(Less Interest Income)</b>	<b>(4,828)</b>	<b>(3,514)</b>	<b>(3,892)</b>	<b>(3,155)</b>	<b>(3,205)</b>	<b>(3,169)</b>	<b>(5,451)</b>	<b>(5,015)</b>	<b>(5,229)</b>	<b>(5,178)</b>	<b>(5,185)</b>	<b>(5,884)</b>	<b>(7,934)</b>	<b>(8,033)</b>	<b>(8,176)</b>	<b>(8,188)</b>	<b>(8,199)</b>	<b>(8,210)</b>	<b>(8,210)</b>
40	Coupon Scale Down Premiums	-	22	58	-	-	-	-	-	-	-	-	-	-	1,056	-	-	-	-	-
41	<b>BPA Borrowing Subtotal:</b>	<b>56,689</b>	<b>60,139</b>	<b>69,343</b>	<b>76,947</b>	<b>76,466</b>	<b>76,382</b>	<b>74,100</b>	<b>70,395</b>	<b>63,901</b>	<b>61,349</b>	<b>61,341</b>	<b>55,268</b>	<b>51,888</b>	<b>50,335</b>	<b>45,180</b>	<b>36,808</b>	<b>34,231</b>	<b>31,787</b>	<b>29,520</b>
42	<b>Treasury Subtotal:</b>	<b>56,689</b>	<b>60,139</b>	<b>69,343</b>	<b>76,947</b>	<b>76,466</b>	<b>76,382</b>	<b>74,100</b>	<b>70,395</b>	<b>63,901</b>	<b>61,349</b>	<b>61,341</b>	<b>55,268</b>	<b>51,888</b>	<b>50,335</b>	<b>45,180</b>	<b>36,808</b>	<b>34,231</b>	<b>31,787</b>	<b>29,520</b>
43	<b>GRAND TOTAL:</b>	<b>274,918</b>	<b>282,445</b>	<b>290,000</b>	<b>299,338</b>	<b>308,523</b>	<b>317,713</b>	<b>322,538</b>	<b>320,054</b>	<b>319,244</b>	<b>312,610</b>	<b>302,903</b>	<b>296,289</b>	<b>279,421</b>	<b>248,326</b>	<b>220,716</b>	<b>194,557</b>	<b>168,963</b>	<b>142,111</b>	<b>113,263</b>

**TABLE 14C: Summary of Interest**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

	A	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK
		2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048
1																		
2	Boise	8	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Columbia Basin	337	250	65	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Columbia Basin 3rd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Hungry Horse Dam	73	55	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Minidoka/Palisades	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Rogue River Projects - Green Springs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Yakima Chandler/Kenniwick	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Yakima Roza	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	<b>Bureau of Reclamation Subtotal:</b>	<b>419</b>	<b>306</b>	<b>84</b>														
11	Albeni Falls	3,601	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Bonneville Dam	1,478	710	411	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Chief Joseph	1,253	1,083	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Columbia River Fish Mitigation	44,948	36,211	15,337	4,056	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Cougar	35	29	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Dworshak	112	112	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	Green Peter/Foster	5	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Hills Creek	5	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	Ice Harbor	158	158	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	John Day	336	297	215	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	Libby	84	8	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	Little Goose	141	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	Lookout Dam	39	11	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	Lost Creek	27	27	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	Lower Granite	299	297	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	Lower Monument	118	105	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	McNary	216	22	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	The Dalles	179	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	<b>Corps of Engineers Subtotal:</b>	<b>53,035</b>	<b>39,223</b>	<b>16,093</b>	<b>4,056</b>													
32	Lower Snake Fish and Wildlife	93	72	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	<b>Lower Snake Fish &amp; Wildlife Subtotal:</b>	<b>93</b>	<b>72</b>	<b>5</b>														
34	<b>Appropriation Subtotal:</b>	<b>53,547</b>	<b>39,602</b>	<b>16,181</b>	<b>4,056</b>													
35	Bureau Direct	34,010	16,812	10,533	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	Conservation	2,112	2,112	2,112	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	Fish and Wildlife	1,608	1,608	1,608	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	<b>(Less Interest Income)</b>	<b>(8,210)</b>	<b>(8,356)</b>	<b>(8,385)</b>	<b>(8,452)</b>	<b>(8,452)</b>	<b>(8,458)</b>	<b>(8,452)</b>	<b>(8,452)</b>	<b>(8,452)</b>	<b>(8,452)</b>	<b>(8,452)</b>	<b>(8,452)</b>	<b>(7,400)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>
40	Coupon Scale Down Premiums	5,945	1,552	2,575	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	<b>BPA Borrowing Subtotal:</b>	<b>35,464</b>	<b>13,729</b>	<b>8,442</b>	<b>(8,452)</b>	<b>(8,452)</b>	<b>(8,458)</b>	<b>(8,452)</b>	<b>(8,452)</b>	<b>(8,452)</b>	<b>(8,452)</b>	<b>(8,452)</b>	<b>(8,452)</b>	<b>(7,400)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>
42	<b>Treasury Subtotal:</b>	<b>35,464</b>	<b>13,729</b>	<b>8,442</b>	<b>(8,452)</b>	<b>(8,452)</b>	<b>(8,458)</b>	<b>(8,452)</b>	<b>(8,452)</b>	<b>(8,452)</b>	<b>(8,452)</b>	<b>(8,452)</b>	<b>(8,452)</b>	<b>(7,400)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>
43	<b>GRAND TOTAL:</b>	<b>89,011</b>	<b>53,331</b>	<b>24,624</b>	<b>(4,396)</b>	<b>(8,452)</b>	<b>(8,458)</b>	<b>(8,452)</b>	<b>(8,452)</b>	<b>(8,452)</b>	<b>(8,452)</b>	<b>(8,452)</b>	<b>(8,452)</b>	<b>(7,400)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>

**TABLE 14C: Summary of Interest**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

	A	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	Total
1		2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065		
2	Boise	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,217
3	Columbia Basin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83,775
4	Columbia Basin 3rd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	375,810
5	Hungry Horse Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12,101
6	Minidoka/Palisades	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51,007
7	Rogue River Projects - Green Springs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,589
8	Yakima Chandler/Kennwick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	654
9	Yakima Roza	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
10	<b>Bureau of Reclamation Subtotal:</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>537,165</b>
11	Albeni Falls	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	899,740
12	Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	339,297
13	Bonneville Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	125,735
14	Chief Joseph	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200,300
15	Columbia River Fish Mitigation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,185,252
16	Cougar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,941
17	Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,266
18	Dworshak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31,084
19	Green Peter/Foster	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	306
20	Hills Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,442
21	Ice Harbor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27,824
22	John Day	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26,097
23	Libby	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	157,713
24	Little Goose	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51,691
25	Lookout Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11,006
26	Lost Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10,727
27	Lower Granite	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	102,717
28	Lower Monument	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45,847
29	McNary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11,623
30	The Dalles	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39,751
31	<b>Corps of Engineers Subtotal:</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>3,280,360</b>
32	Lower Snake Fish and Wildlife	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	227,727
33	<b>Lower Snake Fish &amp; Wildlife Subtotal:</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>227,727</b>
34	<b>Appropriation Subtotal:</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>4,045,253</b>
35	Bureau Direct	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	814,223
36	Conservation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	211,458
37	Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10,883
38	Fish and Wildlife	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	227,264
39	<b>(Less Interest Income)</b>	(4,271)	(4,271)	(4,271)	(4,271)	(4,271)	(4,271)	(4,271)	(4,271)	(4,271)	(4,271)	(4,271)	(4,271)	(4,271)	(4,271)	(4,271)	(4,271)	(4,271)	(4,271)	<b>(308,503)</b>
40	Coupon Scale Down Premiums	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11,207
41	<b>BPA Borrowing Subtotal:</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>966,533</b>
42	<b>Treasury Subtotal:</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>966,533</b>
43	<b>GRAND TOTAL:</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>(4,271)</b>	<b>5,011,786</b>

**TABLE 14D: Summary of Amortization**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
1																		
2	Boise	-	-	-	-	-	-	-	-	-	-	-	-	3,365	903	-	-	-
3	Columbia Basin	-	-	-	-	-	-	-	72	-	-	360	-	6,927	80,188	-	-	-
4	Columbia Basin 3rd Powerhouse	-	0	-	-	-	-	-	44,125	100,095	50,295	99,784	148,459	12,631	-	-	-	-
5	Hungry Horse Dam	-	0	-	-	-	-	-	-	-	-	1,731	-	6,318	3,503	-	-	-
6	Minidoka/Palisades	-	-	-	-	-	-	-	-	-	-	-	-	50,911	42	-	-	-
7	Rogue River Projects - Green Springs	-	-	-	-	-	-	-	-	-	-	-	-	3,961	7,184	-	-	-
8	Yakima Chandler/Kenniwick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	833	-	-
9	Yakima Roza	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-
10	<b>Bureau of Reclamation Subtotal:</b>								44,197	100,095	50,295	101,875	148,459	84,127	92,654	-	-	-
11	Alberi Falls	-	-	-	-	-	-	-	-	-	-	-	-	2,510	2,133	626,438	653,955	-
12	Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	-	-	32,797	324,132	9,867	-	-	-	-
13	Bonneville Dam	-	-	-	-	-	-	-	-	15,670	-	22	518	28,363	73,393	-	-	-
14	Chief Joseph	-	-	-	-	-	-	-	-	30,512	38,157	131,843	166	7,970	1,339	-	-	-
15	Columbia River Fish Mitigation	-	-	-	-	-	-	-	-	-	-	-	-	88,719	210,139	-	-	-
16	Cougar	-	-	-	-	-	-	-	-	-	-	-	-	26	11,752	-	-	-
17	Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	-	-	-	-	38	1,554	-	-	-
18	Dworshak	-	76,000	-	1	847	15,094	-	-	-	-	427	-	8,803	2,302	-	-	-
19	Green Peter/Foster	-	-	-	-	-	-	-	-	-	-	-	-	26	200	-	-	-
20	Hills Creek	-	-	-	-	-	-	-	-	-	-	-	-	2,658	55	-	-	-
21	Ice Harbor	-	-	-	-	-	-	-	21	20,700	-	78	-	986	10,665	-	-	-
22	John Day	-	-	-	-	-	-	-	-	-	-	-	195	11,238	9,786	-	-	-
23	Libby	-	-	-	-	-	-	47,159	138,868	26,602	-	302	-	15,441	5,562	-	-	-
24	Little Goose	-	-	-	-	-	-	-	-	9,092	40,533	-	-	6,102	4,848	-	-	-
25	Lookout Dam	-	-	-	-	-	-	-	-	-	-	-	-	5,170	7,490	-	-	-
26	Lost Creek	-	-	-	-	-	-	-	-	13,793	-	31	-	118	147	-	-	-
27	Lower Granite	-	-	-	-	9,339	112,125	908	-	40,611	-	1,757	-	1,311	4,590	-	-	-
28	Lower Monument	-	-	-	-	-	-	-	-	-	-	40,925	264	1,896	7,303	-	-	-
29	McNary	-	-	-	-	-	-	-	351	-	-	-	30	635	7,831	-	-	-
30	The Dalles	-	-	-	-	7,240	-	-	-	-	-	-	-	4,579	37,426	-	-	-
31	<b>Corps of Engineers Subtotal:</b>	76,000	-	1	847	31,673	112,125	48,067	139,240	156,980	78,690	208,182	325,305	196,456	398,515	626,438	653,955	
32	Lower Snake Fish and Wildlife	-	-	-	-	-	-	-	-	-	-	-	-	60,831	168,012	1,554	-	-
33	<b>Lower Snake Fish &amp; Wildlife Subtotal:</b>													60,831	168,012	1,554	-	-
34	<b>Appropriation Subtotal:</b>	76,000	-	1	847	31,673	112,125	48,067	183,437	257,075	128,985	310,057	534,595	448,596	492,722	626,438	653,955	
35	Bureau Direct	-	-	-	-	-	59,000	160,000	47,000	-	25,000	-	-	-	58,000	-	-	-
36	Conservation	62,800	15,661	98,451	4,888	20,000	-	-	10,000	-	115,000	15,000	46,200	75,620	92,000	-	-	-
37	Construction	-	14,950	12,700	10,500	-	-	22,730	18,540	18,980	-	-	-	-	-	-	-	-
38	Fish and Wildlife	60,000	-	-	-	-	-	46,000	-	-	-	-	20,000	80,000	11,000	60,000	65,280	-
39	Irrigation Assistance	58,961	52,550	52,110	60,957	51,393	27,567	57,228	24,599	12,232	14,392	12,971	15,146	13,752	20,969	6,196	11,276	4,065
40	<b>BPA Borrowing Subtotal:</b>	181,761	83,161	163,261	76,345	71,393	27,567	184,958	203,139	88,212	14,392	152,971	50,146	59,952	176,589	167,196	71,276	69,345
41	Discounts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	Premiums	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	<b>Make Whole Call Subtotal:</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	<b>Treasury Subtotal:</b>	181,761	83,161	163,261	76,345	71,393	27,567	184,958	203,139	88,212	14,392	152,971	50,146	59,952	176,589	167,196	71,276	69,345
45	<b>GRAND TOTAL:</b>	181,761	159,161	163,261	76,346	72,240	59,240	297,083	251,206	271,649	271,467	281,956	360,203	594,547	625,184	659,918	697,713	723,299

**TABLE 14D: Summary of Amortization**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

	A	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK
1		2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048
2	Boise	-	-	140	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Columbia Basin	-	-	1,764	4,202	1,723	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Columbia Basin 3rd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Hungry Horse Dam	-	-	370	840	506	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Minidoka/Palisades	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Rogue River Projects - Green Springs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Yakima Chandler/Kennwick	-	-	-	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Yakima Roza	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	<b>Bureau of Reclamation Subtotal:</b>	-	-	2,273	5,074	2,239	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Albeni Falls	696,872	768,345	242,657	171,668	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569
12	Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Bonneville Dam	-	-	15,733	6,797	10,962	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Chief Joseph	-	-	3,500	24,727	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Columbia River Fish Mitigation	-	-	185,169	470,320	308,900	141,074	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Cougar	-	-	120	289	451	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Dworshak	-	-	10	2,553	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	Green Peter/Foster	-	-	-	-	131	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Hills Creek	-	-	-	-	154	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	Ice Harbor	-	-	14	2,822	934	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	John Day	-	-	834	1,903	6,336	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	Libby	-	-	1,567	40	167	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	Little Goose	-	-	13	3,201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	Lookout Dam	-	-	572	-	311	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	Lost Creek	-	-	-	-	795	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	Lower Granite	-	-	24	6,825	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	Lower Monument	-	-	294	2,332	89	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	McNary	-	-	4,295	-	576	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	The Dalles	-	-	3,821	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	<b>Corps of Engineers Subtotal:</b>	696,872	768,345	458,622	693,478	501,412	312,643	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569
32	Lower Snake Fish and Wildlife	-	-	453	1,545	122	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	<b>Lower Snake Fish &amp; Wildlife Subtotal:</b>	-	-	453	1,545	122	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	<b>Appropriation Subtotal:</b>	696,872	768,345	461,349	700,098	503,773	312,643	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569
35	Bureau Direct	-	-	341,920	141,382	273,758	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	Conservation	-	-	-	-	55,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	Fish and Wildlife	51,290	-	-	-	42,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	Irrigation Assistance	1,996	10,658	-	4,347	-	7,861	28,920	16,183	-	14,229	-	-	73,659	-	-	11,728	-	-	-
40	<b>BPA Borrowing Subtotal:</b>	53,286	10,658	341,920	145,729	370,758	7,861	28,920	16,183	-	14,229	-	-	73,659	-	-	11,728	-	-	-
41	Discounts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	Premiums	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	<b>Make Whole Call Subtotal:</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	<b>Treasury Subtotal:</b>	53,286	10,658	341,920	145,729	370,758	7,861	28,920	16,183	-	14,229	-	-	73,659	-	-	11,728	-	-	-
45	<b>GRAND TOTAL:</b>	750,157	779,003	803,269	845,826	874,532	320,504	200,489	187,752	171,569	185,798	171,569	171,569	245,228	171,569	171,569	183,297	171,569	171,569	171,569

**TABLE 14D: Summary of Amortization**  
**October 1, 2013 - September 30, 2015 Cost Evaluation Period**  
**(\$000s) (FY 2015)**

A	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	Total
1	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065		
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,425
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95,235
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	455,389
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13,268
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50,964
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11,145
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	848
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
10	<b>Bureau of Reclamation Subtotal:</b>																		<b>631,288</b>
11	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569	171,569	8,654,784
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	366,796
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	151,458
14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	238,242
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,404,321
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12,638
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,592
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106,037
19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	356
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,867
21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36,219
22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30,292
23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	235,708
24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63,790
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13,543
26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14,884
27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	177,498
28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53,104
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13,718
30	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	<u>53,067</u>
31	<b>Corps of Engineers Subtotal:</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>11,630,916</b>
32	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	<u>232,518</u>
33	<b>Lower Snake Fish &amp; Wildlife Subtotal:</b>																		<b>232,518</b>
34	<b>Appropriation Subtotal:</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>12,494,721</b>
35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,106,060
36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	610,620
37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98,400
38	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	<u>435,570</u>
39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	665,944
40	<b>BPA Borrowing Subtotal:</b>																		<b>2,916,594</b>
41	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	±	-
42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	<b>Make Whole Call Subtotal:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-</b>
44	<b>Treasury Subtotal:</b>																		<b>2,916,594</b>
45	<b>GRAND TOTAL:</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>171,569</b>	<b>15,411,315</b>

## **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.

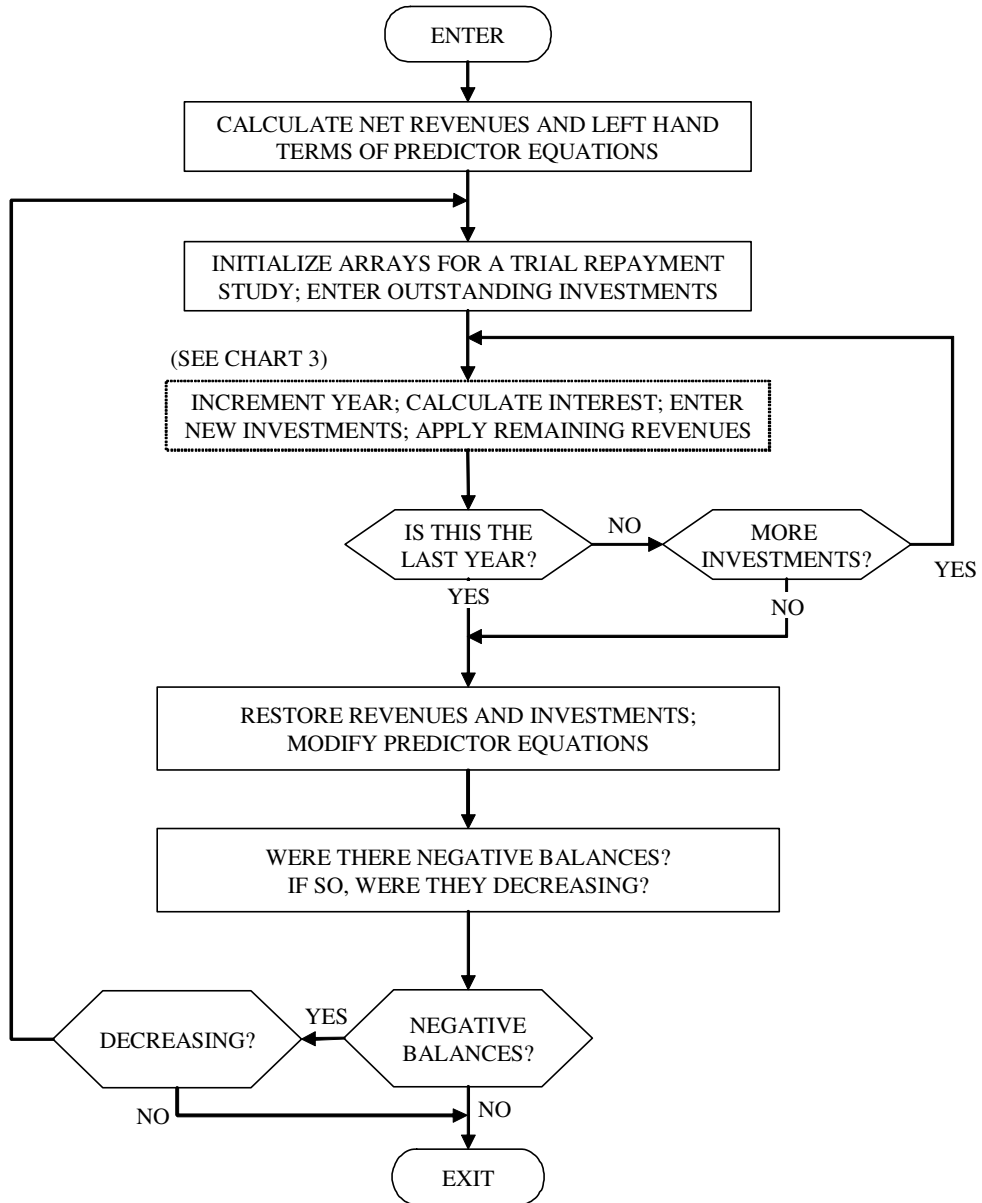
Investment equation: The payments on each investment are less than or equal to the principle of that investment (and equal to the principle of that investment after the investment is due).

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)**

