

BP-14 Initial Rate Proposal

Power Revenue Requirements Study Documentation

November 2012

BP-14-E-BPA-02A



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Revenue Requirement Documentation

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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
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

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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 11, described below. *See* Documentation, BP-14-E-BPA-02A, Chapter 3.

Operating Generation (Line 3). This category includes the operations and maintenance expenses associated with power-producing resources including the CGS, Reclamation, and 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.*

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/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 Augmentation investments in the FY 2002-2006 period are amortized using a declining life method, with all amortization being complete in FY 2011. Conservation Acquisition investments beginning in FY 2007 are amortized using a straight-line, five-year life. Investments beginning in FY 2011 are amortized using a straight-line, twelve-year life. *Id.*

Total Operating Expenses (Line 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.*

Amortization of Capitalized Bond Premiums (Line 25). When a bond issued to the U.S. Treasury is refinanced, any call premium resulting from early retirement of the original bond is capitalized and included in the principal of the new bond. The capitalized call premium is then amortized over the term of the new bond. The annual amortization is a non-cash component of interest expense. *Id.*

Allowance for Funds Used During Construction (AFUDC) (Line 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 (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-E-BPA-03.

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

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

1.3 Statement of Cash Flows

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

Minimum Required Net Revenues (Line 2). Determination of this line is a result of annual cash inflows and outflows shown on the Statement of Cash Flows. MRNR may be necessary so that the cash provided from operating activities will be sufficient to cover the planned amortization and irrigation assistance payments without causing the Annual Increase (Decrease) in Cash (Line 21) to be negative. The MRNR amount determined in the Statement of Cash Flows is incorporated in the Income Statement (Line 31).

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

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

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

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

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

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

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

Investment in Fish and Wildlife (Line 13). Investment in Fish and Wildlife represents the annual increase in BPA's capital expenditures to fund projects for the protection, mitigation, and enhancement of fish and wildlife affected by the FCRPS in a manner consistent with the NPCC's Columbia River Basin Fish and Wildlife Program and the BiOp issued by NMFS and USFWS.

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

Increase in Treasury Borrowings (Line 16). This category reflects the new bonds issued by BPA to the U.S. Treasury to fund capital equipment, conservation, and fish and wildlife capital programs and to direct-fund Reclamation and COE investments under the EPA-92. *Id.*, Chapter 7.

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

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

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

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

Cash Provided by Borrowing and Appropriations (Line 21). Cash Provided by Borrowing and Appropriations is the sum of Lines 16 through 20. This is the net cash-flow resulting from increases in cash from new long-term debt and capital appropriations and decreases in cash from repayment of long-term debt and capital appropriations.

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

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

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

Table 1A

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

	<u>A</u>	<u>B</u>
	<u>2014</u>	<u>2015</u>
1 OPERATING EXPENSES		
2 POWER SYSTEM GENERATION RESOURCES		
3 OPERATING GENERATION RESOURCES	705,205	757,205
4 OPERATING GENERATION SETTLEMENT PAYMENTS	21,404	21,905
5 NON-OPERATING GENERATION	2,206	2,228
6 CONTRACTED POWER PURCHASES	75,149	56,964
7 AUGMENTATION POWER PURCHASES	27,611	123,273
8 EXCHANGES & SETTLEMENTS	276,582	276,575
9 RENEWABLE GENERATION	39,799	40,147
10 GENERATION CONSERVATION	48,408	49,320
11 POWER NON-GENERATION OPERATIONS	91,856	94,710
12 PS TRANSMISSION ACQUISITION AND ANCILLARY SERVICES	167,640	168,319
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	514,981	437,912
17 DEPRECIATION	127,665	134,451
18 AMORTIZATION	96,462	94,175
19 TOTAL OPERATING EXPENSES	2,564,107	2,635,984
20 INTEREST EXPENSE:		
21 INTEREST		
22 APPROPRIATED FUNDS	223,187	220,893
23 CAPITALIZATION ADJUSTMENT	(45,937)	(45,937)
24 BONDS ISSUED TO U.S. TREASURY	68,929	84,766
25 AMORTIZATION OF CAPITALIZED BOND PREMIUMS	0	0
26 ALLOWANCE FOR FUNDS USED DURING CONSTRUCTION	(9,651)	(8,823)
27 INTEREST CREDIT ON CASH RESERVES	(6,454)	(11,208)
28 NET INTEREST EXPENSE	230,074	239,691
29 TOTAL EXPENSES	2,794,181	2,875,675
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	2,794,181	2,875,676

1/ SEE NOTE ON TABLE 1B

Table 1B

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

	<u>A</u>	<u>B</u>
	2014	2013
1 CASH FROM OPERATING ACTIVITIES		
2 MINIMUM REQUIRED NET REVENUES 1/	0	0
3 NON-CASH ITEMS:		
4 DEPRECIATION AND AMORTIZATION	224,126	228,625
5 AMORTIZATION OF CAPITALIZED BOND PREMIUMS	0	0
6 CAPITALIZATION ADJUSTMENT	(45,937)	(45,937)
7 ACCRUAL REVENUES	(3,524)	(3,524)
8 CASH PROVIDED BY OPERATING ACTIVITIES	174,665	179,165
9 CASH USED FOR INVESTMENT ACTIVITIES:		
10 INVESTMENT IN:		
11 FEDERAL UTILITY PLANT (INCLUDING AFUDC)	(355,318)	(381,272)
12 CONSERVATION	(75,200)	(92,000)
13 FISH & WILDLIFE	(60,275)	(41,807)
14 CASH USED FOR INVESTMENT ACTIVITIES	(490,794)	(515,079)
15 CASH FROM AND (USED FOR) FINANCING ACTIVITIES		
16 INCREASE IN TREASURY BORROWINGS	391,451	466,321
17 REPAYMENT OF TREASURY BORROWINGS	(29,950)	(117,700)
18 INCREASE IN FEDERAL CONSTRUCTION APPROPRIATIONS	99,343	48,758
19 REPAYMENT OF FEDERAL CONSTRUCTION APPROPRIATIONS	(92,288)	(9,476)
20 PAYMENT OF IRRIGATION ASSISTANCE	(52,427)	(51,989)
21 CASH USED FOR FINANCING ACTIVITIES	316,129	335,915
22 ANNUAL INCREASE (DECREASE) IN CASH	0	0
23 PLANNED NET REVENUES FOR RISK	0	0
24 TOTAL ANNUAL INCREASE (DECREASE) IN CASH	0	0

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

2. COST ANALYSES

2.1 Introduction

This chapter documents the development of the costs necessary for ratemaking from the annual generation revenue requirements. For Cost of Service Analysis (COSA), net interest expense and planned net revenues 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

Operating Reserves

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

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

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

Regulation

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

Synchronous Condensing

Synchronous Condensing: Capital-related Annual Costs are from identified investment in synchronous condensers: depreciation expense is calculated directly; suballocation of interest and MRNR from Federal Hydro in COSA, based on ratio of synchronous condenser net investment to total 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

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

Table 2A

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

FY 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	544,663	125,053	669,717
3. HYDRO		187,113	0	Percent	81%	19%	100%
4. FISH AND WILDLIFE	331,660	19,788	0				
5. TROJAN				Net Interest Expense	187,113	42,961	230,074
6. WNP #1							
7. CGS				Planned Net Revenues	-	-	-
8. WNP #3							
9. SYSTEM AUGMENTATION							
10. BALANCING POWER PURCHASES							
11. TOTAL FEDERAL BASE SYSTEM	331,660	206,901	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	331,269	19,765	0				
19. OTHER GENERATION COSTS							
20. BPA PROGRAMS	57,120	3,408	0				
21. WNP #3 PLANT							
22. TOTAL OTHER GENERATION COSTS	57,120	3,408	0				
23. TOTAL GENERATION COSTS	720,049	230,074	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		230,074	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	561,219	126,516	687,735
3. HYDRO		195,597	0	Percent	82%	18%	100%
4. FISH AND WILDLIFE	349,321	20,095	0				
5. TROJAN				Net Interest Expense	195,597	44,094	239,691
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	349,321	215,692	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	359,543	20,682	0				
19. OTHER GENERATION COSTS							
20. BPA PROGRAMS	57,663	3,317	0				
21. WNP #3 PLANT							
22. TOTAL OTHER GENERATION COSTS	57,663	3,317	0				
23. TOTAL GENERATION COSTS	766,527	239,691	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		239,691	0				

Table 2B

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

	A	B	C	D	E	F	G
	AVG	COMP	WT AV	2014	COMP	WT AV	2015
	LIFE	PLANT	INT	EQ ANN	PLANT	INT	EQ ANN
	LIFE	9/30/2014	RATE	COSTS	9/30/2015	RATE	COSTS
1 Corps of Engineers/Bureau of Reclamation	50	9,186,885	5.53%	\$544,663	9,521,851	5.49%	\$561,219
2 BPA F&W							
3 PBL General Plant	15	485,394	3.57%	42,360	522,112	3.78%	46,243
4 CONSERVATION	6	97,323	2.08%	13,631	110,147	2.24%	15,879
5 Sub-Total	13	659,925	0	69,062	637,019	0	64,394
				125,053			126,516
	WTD	INV. BASE	ANNUAL	AVG	INV. BASE	ANNUAL	
	LIFE	AS OF	DEPR/AMORT	LIFE	AS OF	DEPR/AMORT	
	LIFE	9/30/2014	DEPR/AMORT	LIFE	9/30/2015	DEPR/AMORT	
6 OFFICE FURNITURE & FIXTURES							
7 DATA PROCESSING EQUIPMENT							
8 DATA PROCESSING SOFTWARE							
9 TOTAL GENERAL PLANT - PBL CONSERVATION	8	97,323	12,466	8	110,147	14,448	
10 LEGACY							
11 CONAUG							
12 CONSERVATION ACQUISITION							
13 TOTAL CONSERVATION	11	659,925	57,784	12	637,019	52,867	

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 GENERATION		100.00%	6,998		100.00%	7,119
3 COLUMBIA BASIN						
4 GENERATION	1,673,814	96.50%	105,321	1,795,247	96.73%	107,397
5 TRANSMISSION	60,654	3.50%	3,817	60,654	3.27%	3,629
6 TOTAL	1,734,468	100.00%	109,138	1,855,901	100.00%	111,026
7 GREEN SPRINGS						
8 GENERATION		100.00%	1,320		100.00%	1,343
9 HUNGRY HORSE						
10 GENERATION	140,521	98.56%	7,005	141,397	98.57%	7,127
11 TRANSMISSION	2,048	1.44%	102	2,048	1.43%	103
12 TOTAL	142,569	100.00%	7,107	143,445	100.00%	7,230
13 MINIDOKA-PALISADES						
14 GENERATION	113,417	98.51%	12,161	113,409	98.51%	12,371
15 TRANSMISSION	1,711	1.49%	183	1,711	1.49%	187
16 TOTAL	115,128	100.00%	12,344	115,120	100.00%	12,558
17 YAKIMA						
18 GENERATION		100.00%	3,692		100.00%	3,756
19 GENERATION 1/			158,425			161,261
20 TRANSMISSION			4,102			3,919
21 TOTAL USBR			162,527			165,180
1/ INCLUDES COLVILLE PAYMENT OF			21,928			22,148
22 BONNEVILLE						
23 GENERATION	1,153,790	99.74%	29,844	1,175,991	99.75%	30,663
24 TRANSMISSION	3,000	0.26%	78	3,000	0.25%	78
25 TOTAL	1,156,790	100.00%	29,922	1,178,991	100.00%	30,741
26 OTHER PROJECTS						
27 CORPS - GENERATION ONLY			178,778			184,959
28 USF&W (LSRCP)			28,800			29,900
29 GENERATION			237,422			245,522
30 TRANSMISSION			78			78
31 TOTAL CORPS			237,500			245,600

Table 2D

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

	A	B	C	D	E	F
	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>AVERAGE</u>	<u>FY 2014</u>	<u>FY 2015</u>
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 Total Reclamation				82,044	140,601	143,033
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 Total COE				185,693	225,687	231,878

Table 2E

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

	<u>A</u>	<u>B</u>	<u>C</u>
	<u>2014</u>	<u>2015</u>	<u>Average</u>
1 Big 10 Dams			
2 O&M	256,216	263,137	259,676
3 Depreciation	79,627	82,666	81,147
4 Net Interest	112,224	116,789	114,507
5 Minimum Required Net Revenues	-	-	-
6 Planned Net Revenues for Risk	-	-	-
7 Subtotal	448,067	462,592	455,330
8			
9 Fish & Wildlife 1/			
10 O&M	320,779	327,467	324,123
11 Amortization/Depreciation	50,375	54,085	52,230
12 Net Interest	57,666	60,676	59,171
13 Minimum Required Net Revenues	-	-	-
14 Planned Net Revenues for Risk	-	-	-
15 Subtotal	428,820	442,228	435,524
16			
17 A&G Expense 1/ 2/	104,303	107,217	105,760
18			
19 Total Revenue Requirement	981,190	1,012,037	996,614
20 Revenue Credits:			
21 4h10C (non-operations) 1/	65,878	63,265	64,571
22 Colville payment Treas. Credit	4,600	4,600	4,600
23 Net Revenue Requirement	910,712	944,172	927,442
24			
25 Capacity Factor for Big Ten Projects	0.94		
26			
27 1/ Scaled from total of these elements by line 19.			
28			
29 2/ Power Marketing Sales & Support, Power Scheduling, Generation Oversight, Corporate Expense and 1/2 Planning Council			

Table 2E

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

	A	B
	<u>2012</u>	<u>2013</u>
30 Big 10 average net plant	3,760,457	3,907,105
31 Total COE/BOR av net plt	6,252,937	6,463,665
32 Percent of total	60.14%	60.45%
33		
34 O&M by project		
35 Columbia Basin	127,249	129,545
36 Bonneville	29,844	30,663
37 John Day	24,285	24,951
38 The Dalles	21,893	22,494
39 Chief Joseph	24,927	25,611
40 Ice Harbor	10,018	10,292
41 Lower Granite	15,431	15,855
42 Lower Monumental	10,001	10,275
43 Little Goose	9,620	9,884
44 McNary	<u>22,563</u>	<u>23,182</u>
45 Total O&M	295,831	302,752

Table 2F

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

	<u>A</u>	<u>B</u>
	<u>2014</u>	<u>2015</u>
1 All Hydro Projects 1/		
2 O&M	321,949	332,465
3 Depreciation	96,901	100,372
4 Net Interest	140,098	143,668
5 Minimum Required Net Revenues	-	-
6 Planned Net Revenues For Risk	-	-
7 Total Revenue Requirement	558,948	576,505
8		
9 Fish & Wildlife 2/		
10 O&M	331,016	337,918
11 Amortization/Depreciation	51,983	55,812
12 Net Interest	59,507	62,613
13 Minimum Required Net Revenues	-	-
14 Planned Net Revenues For Risk	-	-
15 Subtotal	442,506	456,342
16		
17 A&G Expense 2/ 3/	107,632	110,639
18		
19 Total Revenue Requirement	1,109,086	1,143,485
20 Revenue Credits		
21 4h10C (non-operations) 2/	67,981	65,284
22 Colville payment Treasury Credit	4,600	4,600
23 Net Revenue Requirement	1,036,505	1,073,601
Capacity Factor for Projects in BA	0.97	
24 Net Interest	186,608	193,209
25 Minimum Required Net Revenues	0	0
26 Total Hydro Net Plant	0	0
27 Operating Reserves Projects' Net Plant	6,252,937	6,463,665
28		
29 2011 Net Plant		
29 2012 Net Plant	5,952,371	
30 2013 Net Plant	6,225,254	
31 Operating Reserves Net Plant	6,378,183	
32 percent of total	4,694,461	4,806,297

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

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

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

Table 2G

Synchronous Condensers
 Net Plant Calculation
 (\$000s)

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	
Life	Project	Plant-in-Service	Accumulated Depreciation																	
		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 2H

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

	A	B
	<u>2014</u>	<u>2015</u>
1 Synchronous Condensers Net Plant	6,216	6,113
2 Total Corps/Bureau Average Net Plant	6,252,937	6,463,665
3 percent	0.099%	0.095%
4 Corps/Bureau Net Interest	186,608	193,209
5 Sync Cond Net Interest	185	183
6 Corps/Bureau MRNR	-	0
7 Sync Cond MRNR	-	-
8 Sync Cond Depreciation	103	103
9 Total Sync Cond Costs	288	286

Table 2I

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	4,180	4,089	91	3,997	3,908	89	4,089	3,999	90
2 Depreciation	899	884	15	899	884	15	899	884	15
3 Interest Expense	1,274	1,251	23	1,250	1,228	22	1,263	1,240	23
4 MRNR	0	0	0	0	0	0	0	0	0
5 Total COE/BOR Trans Costs	6,353	6,224	129	6,146	6,020	126	6,251	6,123	128
6 Average Net Transmission Plant	42,704	41,947	757	41,805	41,064	741			
7 Total Hydro Projects Average Net Plant	6,252,937			6,463,665					
8 percent Transmission	0.68%			0.65%					
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 2J

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

		A	B	C	D	E	F	G	H
		2014 GROSS PLANT	2014 DEPREC EXP	2014 O&M	2014 AVG NET PLANT	2015 GROSS PLANT	2015 DEPREC EXP	2015 O&M	2015 AVG NET PLANT
1 Bureau of Reclamation									
2 COLUMBIA BASIN									
3	Network	59,890	799	3,769	37,938	59,890	799	3,583	37,140
4	Delivery	764	10	48	484	764	10	46	473
5	TOTAL	60,654	809	3,817	38,422	60,654	809	3,629	37,615
6 HUNGRY HORSE									
7	Network	2,048	27	102	1,149	2,048	27	103	1,122
8 MINIDOKA-PALISADES									
9	Network	1,313	18	140	901	1,313	18	144	883
10	Delivery	398	5	43	273	398	5	43	268
11	TOTAL	1,711	23	183	1,174	1,711	23	187	1,151
12 Corps of Engineers									
13 BONNEVILLE									
14	Network	3,000	40	78	1,959	3,000	40	78	1,919
15 TOTAL TRANSMISSION									
16	Network	66,251	884	4,089	41,947	66,251	884	3,908	41,064
17	Delivery	1,162	15	91	757	1,162	15	89	741
18	TOTAL	67,413	899	4,180	42,704	67,413	899	3,997	41,805

Table 2K

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

	A	B
	<u>2014</u>	<u>2015</u>
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	1.52%	2.60%
6 Composite Pool interest credit (Line 4 X Line 5)	(8,668)	(14,827)
7 Total interest credit from Rev Req	(6,454)	(11,208)
8 Non-Slice Pool interest credit (Line 7 - Line 6)	2,214	3,618

Table 2L

**Determination of Overhead Costs for Generation Inputs
(\$000s)**

	A	B
Summary	<u>2014</u>	<u>2015</u>
1 Fish & Wildlife		
2 O&M	341,254	348,369
4 Amortization/Depreciation	53,591	57,538
5 Net Interest	61,513	65,348
6 Minimum Required Net Revenues	-	-
7 Planned Net Revenues for Risk	-	-
8 Subtotal	456,358	471,255
9 A&G Expense 1/	110,961	114,061
10 Revenue Credits:		
11 4h10C (non-operations)	70,083	67,303

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

Table 2L

**Determination of Overhead Costs for Generation Inputs
(\$000s)**

Detail	A	B
	<u>2014</u>	<u>2015</u>
1 COE/USFW F&W COSTS		
2 O&M: USFW	30,670	31,670
3 COE	45,000	45,000
4 Depreciation/Amortization:	21,526	22,843
5 LSFW	3,285	3,285
6 CRFM	11,628	12,945
7 CRFM Intangible Asset	6,613	6,613
8 Interest	41,725	45,253
9 Minimum Required Net Revenues	-	-
10 Planned Net Revenues for Risk	-	-
11 CRFM/LSFW Average Net Plant	1,394,351	1,495,421
12 Total COE/BOR av net plt	6,252,937	6,463,666
13 Percent of total	22.30%	23.14%
14 F&W O&M in Big 10 Projects	33,615	33,615
15 F&W O&M in Col Basin O&M	6,000	6,000
16 4H10C non-operations		
17 Direct Program Expense	254,000	260,000
18 Direct Program Capital	60,275	41,807
19 Credit @ 22.3%	70,083	67,303
20 Budget Expense Programs		
21 Direct Program Expense	254,000	260,000
22 Environmental Requirements	300	300
23 Planning Council	10,568	10,799
24 Generation Project Coordination	6,826	6,968
25 Scheduling	18,039	18,569
26 Power Marketing Sales and Support	20,951	21,339
27 Agency Services G&A	59,861	61,785
28 Direct Program Amortization	32,065	34,695

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-E-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 3B includes an adjustment to repayment study interest and amortization. Amortization was increased slightly in 2014-2015 to that it matched the forecast of the sum of non-cash elements from the revenue requirement. Interest in 2015 was reduced slightly to account for the change in amortization.

Table 3A

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

	A	B
	Rate Period	
	FY 2014	FY 2015
1 Power System Generation Resources		
2 Operating Generation		
3 COLUMBIA GENERATING STATION	312,918	355,675
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>26,619</u>
7 Sub-Total	705,205	757,205
8 Operating Generation Settlements and Other Payments		
9 COLVILLE GENERATION SETTLEMENT	21,405	21,906
10 SPOKANE LEGISLATION PAYMENT	<u>0</u>	<u>0</u>
11 Sub-Total	21,405	21,906
12 Non-Operating Generation		
13 TROJAN DECOMMISSIONING	1,500	1,500
14 WNP-1&3 DECOMMISSIONING	<u>706</u>	<u>728</u>
15 Sub-Total	2,206	2,228
16 Gross Contracted Power Purchases (excluding bookout adjustments) <Note 1		
17 DSI MONETIZED POWER SALES	0	0
18 PNCA HEADWATER BENEFITS	2,957	3,030
19 HEDGING/MITIGATION	35,043	0
20 OTHER POWER PURCHASES - (e.g. Short-Term)	31,941	27,492
21 TIER 2 PURCHASES	<u>5,207</u>	<u>26,442</u>
22 Sub-Total	75,149	56,964
23 Bookout Adjustments to Contracted Power Purchases <Note 1	0	0
24 Augmentation Power Purchases (includes IOU Load Reduc. and Buy Backs)		
25 AUGMENTATION POWER PURCHASES	27,611	123,273
26 CONSERVATION AUGMENTATION	<u>0</u>	<u>0</u>
27 Sub-Total	27,611	123,273
28 Exchanges & Settlements		
29 RESIDENTIAL EXCHANGE PROGRAM	275,182	275,175
30 RESIDENTIAL EXCHANGE INTEREST ACCRUAL	1,400	1,400
31 OTHER SETTLEMENTS	<u>-</u>	<u>-</u>
32 Sub-Total	276,582	276,575
33 Renewable Generation		
34 CONTRA-EXPENSE FOR GEP REVENUES	0	0
35 RENEWABLES	<u>39,799</u>	<u>40,147</u>
36 Sub-Total	39,799	40,147
37 Generation Conservation		
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 Sub-Total	48,408	49,320
45 Power System Generation Sub-Total	1,196,364	1,327,616

Table 3A

Power Services Program Spending Levels
(\$000s)

	A	B
	Rate Period	
	FY 2014	FY 2015
46		
47	Power Non-Generation Operations	
48	Power Services System Operations	
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	Sub-Total	14,527 14,829
53	Power Services Scheduling	
54	OPERATIONS SCHEDULING	10,398 10,621
55	OPERATIONS PLANNING	<u>7,641</u> <u>7,948</u>
56	Sub-Total	18,039 18,569
57	Power Services Marketing and Business Support	
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	Sub-Total	59,290 61,312
64	Power Non-Generation Operations Sub-Total	91,856 94,710
65		
66	Power Services Transmission Acquisition and Ancillary Services	
67	PBL Transmission Acquisition and Ancillary Services	
68	POWER SERVICES TRANSMISSION & ANCILLARY SERVICES	98,524 97,901
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	11,242 11,454
72	TELEMETERING/EQUIP REPLACEMT	<u>52</u> <u>53</u>
73	Power Srvcs Trans Acquisition and Ancillary Services Sub-Total	167,640 168,319
74		
75	Fish and Wildlife/USF&W/Planning Council/Environmental Req	
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	Fish and Wildlife/USF&W/Planning Council Sub-Total	295,538 302,769
82		
83	BPA Internal Support	
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)	- -
87	BPA Internal Support Sub-Total	73,603 76,034
88		

Table 3A

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

		A	B
		Rate Period	
		FY 2014	FY 2015
89	Bad Debt Expense	0	0
90	Other Income, Expenses, Adjustments	0	0
91	Non-Federal Debt Service		
92	Energy Northwest Debt Service		
93	COLUMBIA GENERATING STATION DEBT SVC	88,425	77,686
94	WNP-1 DEBT SVC	249,161	185,460
95	WNP-3 DEBT SVC	165,932	165,403
96	EN RETIRED DEBT	-	-
97	EN LIBOR INTEREST RATE SWAP	<u>0</u>	<u>0</u>
98	Sub-Total	503,518	428,549
99	Non-Energy Northwest Debt Service		
100	CONSERVATION DEBT SVC	2,418	312
101	COWLITZ FALLS DEBT SVC	7,114	7,122
102	NORTHERN WASCO DEBT SVC	1,931	1,929
103	Sub-Total	11,463	9,363
104	Non-Federal Debt Service Sub-Total	514,981	437,912
105			
106			
107	Disaggregation of Selected Expenses From Revenue Requirement to RAM Cost Table		
108	RENEWABLES (line 34)	<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	POWER R&D (line 57)	<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	POWER SERVICES TRANSMISSION & ANCILLARY SERVICES (line 67)	<u>98,524</u>	<u>97,901</u>
117	Transmission & Ancillary Services	61,177	59,990
118	Transmission & Ancillary Services (sys. oblig.)	37,347	37,911
119			

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

	A	B
	<u>2014</u>	<u>2015</u>
1 INTEREST EXPENSE (GROSS)		
2 CORPS	163,135	160,840
3 RECLAMATION	43,526	43,526
4 LOWER SNAKE RIVER COMPENSATION PLAN	<u>16,526</u>	<u>16,526</u>
5 TOTAL APPROPRIATIONS	223,187	220,893
6 BONDS ISSUED TO TREASURY	<u>68,929</u>	<u>84,766</u>
7 TOTAL INTEREST EXPENSE	292,116	305,659
8 PLANNED AMORTIZATION		
9 CORPS	92,288	9,476
10 BUREAU	0	0
11 LOWER SNAKE RIVER COMPENSATION PLAN	0	0
12 TOTAL APPROPRIATIONS	92,288	9,476
13 LONG-TERM DEBT	<u>29,950</u>	<u>117,700</u>
14 TOTAL GENERATION AMORTIZATION	122,238	127,176
15 IRRIGATION ASSISTANCE	<u>52,427</u>	<u>51,989</u>
16 TOTAL AMORTIZATION/IRRIGATION	174,665	179,165
17		
18 Adjustment to Repayment Study Amortization & Interest		
19		
20 Repayment study amortization	121,117	125,909
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	122,238	127,176
27 Repayment study interest	292,116	305,739
28 Total revenue requirement interest	292,116	305,659

Table 3C

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

	<u>A</u>	<u>B</u>
	2014	2015
1 BPA (PBL + CORP GP)	12,466	14,448
2 Corps 1/ 2/	87,752	90,927
3 Reclamation	<u>27,447</u>	<u>29,076</u>
4 Total Depreciation	127,665	134,451
5 Amortization of Legacy Conservation	13,930	9,649
6 Amortization of Conservation Acquisitions	43,854	43,218
7 Amortization of CRFM Intangible Investment	6,613	6,613
8 Amortization of Fish & Wildlife	<u>32,065</u>	<u>34,695</u>
9 Total Amortization	96,462	94,175
10 Total Federal Projects Depreciation	224,126	228,625
1/ Excludes depreciation from investments paid for by BPA-TS	40	40
2/ Includes US Fish & Wildlife	3,285	3,285

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

	A	B
	<u>2014</u>	<u>2015</u>
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 (ln 1 - ln 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 (ln 4 - ln 5)	4,157	4,360
7 Residential Exchange Program Support (ln 2 + ln 5)	973	996
8 Strategy, Finance, & Risk Mgmt (to Pwr NonGen Ops) (ln 3)	18,299	19,374
9 Executive & Administrative Svc (to Pwr NonGen Ops) (ln 6)	4,157	4,360

Table 3E

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

		<u>A</u>	<u>B</u>	
		<u>FY 2014</u>	<u>FY 2015</u>	
1	Terminated Nuclear Facilities	332,687	283,536	
2	REP Refunds	76,537	76,537	
3	Columbia River Fish Mitigation amortization	6,613	6,613	
4	Conservation Measures			
5		Additions	75,200	92,000
6		Amortization	30,172	37,139
7	Direct Service Industries' benefit 1/	-	-	
8	Fish and Wildlife Measures			
9		Additions	60,275	41,807
10		Amortization	32,065	34,695
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> <u>2013</u>	<u>B</u> <u>2014</u>	<u>C</u> <u>2015</u>
Direct Funding Projects			
1 capital expenditures	248,349	249,802	245,082
2 plant-in-service	343,004	302,523	240,552
3 SOY CWIP Balance	289,737	206,718	162,654
4 EOY CWIP Balance	195,082	153,997	167,184
5 Average CWIP Balance	242,409	180,357	164,919
6 AFUDC Rate	4.80%	4.80%	4.80%
7 Total Direct Funding AFUDC	11,636	8,657	7,916
Capital Equipment			
8 Power IT (lapsed)	5,885	6,032	6,179
9 Corporate (IT unlapsed/facilities lapsed)	16,877	12,631	12,936
10 Total Capital Equipment AFUDC	1,052	994	907
11 Total PS AFUDC	12,688	9,651	8,823

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 forecasted 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)**

	A	B	C
	BALANCE-AS-OF		AVERAGE
	<u>9/30/2012</u>	<u>9/30/2013</u>	<u>2013</u>
1 CORPS OF ENGINEERS			
2 COMPLETED PLANT			
3 HYDROELECTRIC GEN	6,644,818	7,007,612	6,826,215
4 TRANSMISSION	<u>3,000</u>	<u>3,000</u>	<u>3,000</u>
5 TOTAL COMPLETED PLANT	6,647,818	7,010,612	6,829,215
6 ACCUMULATED DEPRECIATION			
7 HYDROELECTRIC GEN	2,151,514	2,241,567	2,196,541
8 TRANSMISSION	<u>981</u>	<u>1,021</u>	<u>1,001</u>
9 TOTAL ACCUMULATED DEPRECIATION	2,152,495	2,242,588	2,197,542
10 NET COMPLETED PLANT			
11 HYDROELECTRIC GEN	4,493,304	4,766,045	4,629,674
12 TRANSMISSION	<u>2,019</u>	<u>1,979</u>	<u>1,999</u>
13 TOTAL NET COMPLETED PLANT	4,495,323	4,768,024	4,631,673
14 BUREAU OF RECLAMATION			
15 COMPLETED PLANT			
16 HYDROELECTRIC GEN	1,801,683	1,916,237	1,858,960
17 TRANSMISSION	<u>64,413</u>	<u>64,413</u>	<u>64,413</u>
18 TOTAL COMPLETED PLANT	1,866,096	1,980,650	1,923,373
19 ACCUMULATED DEPRECIATION			
20 HYDROELECTRIC GEN	582,418	607,204	594,811
21 TRANSMISSION	<u>22,379</u>	<u>23,238</u>	<u>22,809</u>
22 TOTAL ACCUM DEPRECIATION	604,797	630,442	617,620
23 NET COMPLETED PLANT			
24 HYDROELECTRIC GEN	1,219,265	1,309,033	1,264,149
25 TRANSMISSION	<u>42,034</u>	<u>41,175</u>	<u>41,604</u>
26 TOTAL NET COMPLETED PLANT	1,261,299	1,350,208	1,305,753
27 CONSERVATION			
28 CUMULATIVE INVESTMENT	711,877	684,221	698,049
29 ACCUM PREPAID EXPENSE	407,097	361,660	384,379
30 NET CONSERVATION	304,780	322,561	313,670
31 FISH AND WILDLIFE			
32 CUMULATIVE INVESTMENT	417,480	462,630	440,055
33 ACCUM PREPAID EXPENSE	137,785	145,076	141,431
34 NET FISH AND WILDLIFE	279,695	317,554	298,624
35 BPA PLANT (PBL)			
36 CUMULATIVE INVESTMENT	63,109	90,856	76,982
37 ACCUMULATED DEPRECIATION	24,623	34,528	29,576
38 NET BPA PLANT INVESTMENT	38,486	56,328	47,406
39 TOTAL NET PLANT INVESTMENT	6,379,582	6,814,675	6,597,126

Table 4B

FCRPS Investment Base
 FY 2014
 (\$000s)

	A	B	C
	BALANCE-AS-OF		AVERAGE
	<u>9/30/2013</u>	<u>9/30/2014</u>	<u>2014</u>
1 CORPS OF ENGINEERS			
2 COMPLETED PLANT			
3 HYDROELECTRIC GEN	7,007,612	7,243,287	7,125,450
4 TRANSMISSION	<u>3,000</u>	<u>3,000</u>	<u>3,000</u>
5 TOTAL COMPLETED PLANT	7,010,612	7,246,287	7,128,450
6 ACCUMULATED DEPRECIATION			
7 HYDROELECTRIC GEN	2,241,567	2,335,915	2,288,741
8 TRANSMISSION	<u>1,021</u>	<u>1,061</u>	<u>1,041</u>
9 TOTAL ACCUMULATED DEPRECIATION	2,242,588	2,336,976	2,289,782
10 NET COMPLETED PLANT			
11 HYDROELECTRIC GEN	4,766,045	4,907,372	4,836,709
12 TRANSMISSION	<u>1,979</u>	<u>1,939</u>	<u>1,959</u>
13 TOTAL NET COMPLETED PLANT	4,768,024	4,909,311	4,838,668
14 BUREAU OF RECLAMATION			
15 COMPLETED PLANT			
16 HYDROELECTRIC GEN	1,916,237	2,071,806	1,994,022
17 TRANSMISSION	<u>64,413</u>	<u>64,413</u>	<u>64,413</u>
18 TOTAL COMPLETED PLANT	1,980,650	2,136,219	2,058,435
19 ACCUMULATED DEPRECIATION			
20 HYDROELECTRIC GEN	607,204	633,792	620,498
21 TRANSMISSION	<u>23,238</u>	<u>24,097</u>	<u>23,668</u>
22 TOTAL ACCUM DEPRECIATION	630,442	657,889	644,166
23 NET COMPLETED PLANT			
24 HYDROELECTRIC GEN	1,309,033	1,438,014	1,373,524
25 TRANSMISSION	<u>41,175</u>	<u>40,316</u>	<u>40,745</u>
26 TOTAL NET COMPLETED PLANT	1,350,208	1,478,330	1,414,269
27 CONSERVATION			
28 CUMULATIVE INVESTMENT	684,221	635,628	659,925
29 ACCUM PREPAID EXPENSE	361,660	295,651	328,656
30 NET CONSERVATION	322,561	339,977	331,269
31 FISH AND WILDLIFE			
32 CUMULATIVE INVESTMENT	462,630	508,157	485,394
33 ACCUM PREPAID EXPENSE	145,076	162,393	153,734
34 NET FISH AND WILDLIFE	317,554	345,764	331,660
35 BPA PLANT (PBL)			
36 CUMULATIVE INVESTMENT	90,856	103,791	97,323
37 ACCUMULATED DEPRECIATION	34,528	45,878	40,203
38 NET BPA PLANT INVESTMENT	56,328	57,913	57,120
39 TOTAL NET PLANT INVESTMENT	6,814,675	7,131,296	6,972,986

Table 4C

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

	A	B	C
	BALANCE-AS-OF		AVERAGE
	<u>9/30/2014</u>	<u>9/30/2015</u>	<u>2015</u>
1 CORPS OF ENGINEERS			
2 COMPLETED PLANT			
3 HYDROELECTRIC GEN	7,243,287	7,433,062	7,338,175
4 TRANSMISSION	<u>3,000</u>	<u>3,000</u>	<u>3,000</u>
5 TOTAL COMPLETED PLANT	7,246,287	7,436,062	7,341,175
6 ACCUMULATED DEPRECIATION			
7 HYDROELECTRIC GEN	2,335,915	2,433,438	2,384,677
8 TRANSMISSION	<u>1,061</u>	<u>1,101</u>	<u>1,081</u>
9 TOTAL ACCUMULATED DEPRECIATION	2,336,976	2,434,539	2,385,758
10 NET COMPLETED PLANT			
11 HYDROELECTRIC GEN	4,907,372	4,999,624	4,953,498
12 TRANSMISSION	<u>1,939</u>	<u>1,899</u>	<u>1,919</u>
13 TOTAL NET COMPLETED PLANT	4,909,311	5,001,523	4,955,417
14 BUREAU OF RECLAMATION			
15 COMPLETED PLANT			
16 HYDROELECTRIC GEN	2,071,806	2,160,720	2,116,263
17 TRANSMISSION	<u>64,413</u>	<u>64,413</u>	<u>64,413</u>
18 TOTAL COMPLETED PLANT	2,136,219	2,225,133	2,180,676
19 ACCUMULATED DEPRECIATION			
20 HYDROELECTRIC GEN	633,792	662,009	647,901
21 TRANSMISSION	<u>24,097</u>	<u>24,956</u>	<u>24,527</u>
22 TOTAL ACCUM DEPRECIATION	657,889	686,965	672,428
23 NET COMPLETED PLANT			
24 HYDROELECTRIC GEN	1,438,014	1,498,711	1,468,362
25 TRANSMISSION	<u>40,316</u>	<u>39,457</u>	<u>39,886</u>
26 TOTAL NET COMPLETED PLANT	1,478,330	1,538,168	1,508,248
27 CONSERVATION			
28 CUMULATIVE INVESTMENT	635,628	638,410	637,019
29 ACCUM PREPAID EXPENSE	295,651	259,300	277,476
30 NET CONSERVATION	339,977	379,110	359,543
31 FISH AND WILDLIFE			
32 CUMULATIVE INVESTMENT	508,157	536,066	522,112
33 ACCUM PREPAID EXPENSE	162,393	183,189	172,791
34 NET FISH AND WILDLIFE	345,764	352,877	349,321
35 BPA PLANT (PBL)			
36 CUMULATIVE INVESTMENT	103,791	116,504	110,147
37 ACCUMULATED DEPRECIATION	45,878	59,091	52,484
38 NET BPA PLANT INVESTMENT	57,913	57,413	57,663
39 TOTAL NET PLANT INVESTMENT	7,131,296	7,329,091	7,230,192

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

	A	B	C	D	E	F	G	H
	<u>FY</u>	<u>INVEST</u>	<u>FIRST YEAR</u>	<u>FULL YEAR</u>	<u>ANNUAL DEPR</u>	<u>ACCUM DEPR</u>	<u>CUMUL INVEST</u>	<u>NET INVEST</u>
1	2012	-	-	-	101	1,145	1,910	765
2	2013	-	-	-	101	1,246	1,910	664
3	2014	-	-	-	101	1,346	1,910	564
4	2015	-	-	-	101	1,447	1,910	463

Table 4E
(\$000s)

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

	A	B	C	D	E	F	G	H
	<u>FY</u>	<u>INVEST</u>	<u>FIRST YEAR</u>	<u>FULL YEAR</u>	<u>ANNUAL DEPR</u>	<u>ACCUM DEPR</u>	<u>CUMUL INVEST</u>	<u>NET INVEST</u>
1	2012	-	-	-	904	9,476	9,476	-
2	2013	-	-	-	-	9,476	9,476	-
3	2014	-	-	-	-	9,476	9,476	-
4	2015	-	-	-	-	9,476	9,476	-

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

	A	B	C	D	E	F	G	H	I	J
	FY	INVEST	FIRST YEAR	FULL YEAR	ANNUAL DEPR	ACCUM DEPR	CUMUL INVEST	NET INVEST	CORP ADDITNS	PS ADDITNS
1	2012	21,056	1,801	3,601	6,066	12,833	46,006	33,173	11,716	9,340
2	2013	22,762	1,946	3,892	9,254	22,087	68,768	46,681	16,877	5,885
3	2014	18,663	1,596	3,191	11,621	32,592	80,902	48,310	12,631	6,032
4	2015	19,115	1,635	3,269	13,548	44,906	92,799	47,893	12,936	6,179
5	2016	19,567	1,673	3,346	15,897	59,430	104,334	44,904	13,241	6,326
6	2017	20,019	1,712	3,423	17,211	76,099	121,181	45,082	13,546	6,473

Table 4G
(\$000s)

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

	A	B	C	D	E	F	G	H
	FY	INVEST	FIRST YEAR	FULL YEAR	ANNUAL DEPR	ACCUM DEPR	CUMUL INVEST	NET INVEST
1	2012	1,819	61	122	322	1,169	5,717	4,548
2	2013	4,985	167	334	550	1,719	10,702	8,983
3	2014	801	27	54	744	2,463	11,503	9,040
4	2015	817	28	55	799	3,262	12,319	9,057

Table 4H
(\$000s)

SUMMARY - PBL GENERAL PLANT

	A	B	C	D	E
	FY	ANNUAL DEPR	ACCUM DEPR	CUMUL INVEST	NET INVEST
1	2012	7,393	24,623	63,109	38,486
2	2013	9,905	34,528	90,856	56,328
3	2014	12,466	45,878	103,791	57,913
4	2015	14,448	59,091	116,504	57,413

Table 4I

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

	A	B	C	D	E	F	G	H
	<u>FY</u>	<u>INVEST</u>	<u>FIRST YEAR</u>	<u>FULL YEAR</u>	<u>ANNUAL AMORT</u>	<u>ACCUM AMORT</u>	<u>CUMUL INVEST</u>	<u>NET INVEST</u>
1	2013	67,145	2,238	4,476	29,286	145,076	462,630	317,554
2	2014	60,275	2,009	4,018	32,065	162,393	508,157	345,764
3	2015	41,807	1,394	2,787	34,695	183,189	536,066	352,877

Table 4J

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

	A	B	C	D	E	F	G	H
	<u>FY</u>	<u>INVEST</u>	<u>FIRST YEAR</u>	<u>FULL YEAR</u>	<u>ANNUAL AMORT</u>	<u>ACCUM AMORT</u>	<u>CUMUL INVEST</u>	<u>NET INVEST</u>
1	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)

	A	B	C	D	E	F	G	H
	<u>FY</u>	<u>INVEST</u>	<u>FIRST</u>	<u>FULL</u>	<u>ANNUAL</u>	<u>ACCUM</u>	<u>CUMUL</u>	<u>NET</u>
			<u>YEAR</u>	<u>YEAR</u>	<u>AMORT</u>	<u>AMORT</u>	<u>INVEST</u>	<u>INVEST</u>
1	2013		-	-	15,677	62,071	82,013	19,942
2	2014		-	-	13,253	66,561	73,250	6,689
3	2015		-	-	6,689	56,460	56,460	-

Table 4L

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

	A	B	C	D	E	F	G	H
	<u>FY</u>	<u>INVEST</u>	<u>FIRST</u>	<u>FULL</u>	<u>ANNUAL</u>	<u>ACCUM</u>	<u>CUMUL</u>	<u>NET</u>
			<u>YEAR</u>	<u>YEAR</u>	<u>AMORT</u>	<u>AMORT</u>	<u>INVEST</u>	<u>INVEST</u>
1	2013	75,200	3,134	6,267	23,905	45,221	324,442	279,221
2	2014	75,200	3,134	6,267	30,172	75,393	399,642	324,249
3	2015	92,000	3,834	7,667	37,139	112,532	491,642	379,110
4	2016	94,700	3,946	7,892	44,918	157,450	586,342	428,892
5	2017	97,600	4,067	8,133	52,931	210,381	683,942	473,561
6	2018	100,600	4,192	8,383	61,189	271,570	784,542	512,972
7	2019	103,600	4,317	8,633	69,697	341,267	888,142	546,875
8	2020	106,653	4,444	8,888	78,457	419,724	994,795	575,071
9	2021	109,853	4,577	9,154	87,478	507,202	1,104,648	597,446
10	2022	109,853	4,577	9,154	96,632	603,834	1,214,501	610,667
11	2023	109,853	4,577	9,154	101,590	705,424	1,324,354	618,930
12	2024	109,853	4,577	9,154	97,810	641,480	1,272,452	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>	
			<u>EXP</u>	<u>DEPR</u>			<u>EXP</u>	<u>DEPR</u>			<u>EXP</u>	<u>DEPR</u>		
6	BOISE													
7	GENERATION	29,153	1,802	400	10,609	30,898	-	412	11,021	30,841	-	411	11,432	30,784
8	COLUMBIA BASIN													
9	GENERATION	1,495,687	106,004	20,617	491,835	1,596,913	158,580	22,318	514,153	1,750,715	93,842	23,937	538,090	1,839,779
10	TRANSMISSION /DELIVERY	60,654	-	809	21,826	60,654	-	809	22,635	60,654	-	809	23,444	60,654
11	TOTAL	1,556,341	106,004	21,426	513,661	1,657,567	158,580	23,127	536,788	1,811,369	93,842	24,746	561,534	1,900,433
12	GREEN SPRINGS													
13	GENERATION	10,855	4,361	174	8,788	15,216	-	203	8,991	15,216	-	203	9,194	15,216
14	HUNGRY HORSE													
15	GENERATION	137,828	1,857	1,850	57,290	139,603	1,917	1,874	59,164	141,438	-	1,885	61,049	141,356
16	TRANSMISSION /DELIVERY	2,048	-	27	886	2,048	-	27	913	2,048	-	27	940	2,048
17	TOTAL	139,876	1,857	1,877	58,176	141,651	1,917	1,901	60,077	143,486	-	1,912	61,989	143,404
18	MINIDOKA-PALISADES													
19	GENERATION	112,227	1,202	1,504	34,478	113,421	-	1,512	35,990	113,413	-	1,512	37,502	113,405
20	TRANSMISSION /DELIVERY	1,711	-	23	526	1,711	-	23	549	1,711	-	23	572	1,711
21	TOTAL	113,938	1,202	1,527	35,004	115,132	-	1,535	36,539	115,124	-	1,535	38,074	115,116
22	YAKIMA													
23	GENERATION	15,933	4,256	241	4,204	20,186	-	269	4,473	20,183	-	269	4,742	20,180
24	TOTAL USBR													
25		1,866,096	119,482	25,645	630,442	1,980,650	160,497	27,447	657,889	2,136,219	93,842	29,076	686,965	2,225,133
26														
27	GENERATION	1,801,683	-	24,786	607,204	1,916,237	-	26,588	633,792	2,071,806	-	28,217	662,009	2,160,720
28	TRANSMISSION	64,413	-	859	23,238	64,413	-	859	24,097	64,413	-	859	24,956	64,413
29	TOTAL	1,866,096	-	25,645	630,442	1,980,650	-	27,447	657,889	2,136,219	-	29,076	686,965	2,225,133

Table 4N

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

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
		INVESTMENT	2013	2013	2013	INVESTMENT	2014	2014	2014	INVESTMENT	2015	2015	2015	INVESTMENT	
		9/30/2012	ADDTNS	DEPR	ACCUM	9/30/2013	ADDTNS	DEPR	ACCUM	9/30/2014	ADDTNS	DEPR	ACCUM	9/30/2015	
				EXP	DEPR			EXP	DEPR			EXP	DEPR		
1															
2															
3															
4	BONNEVILLE														
5	GENERATION	1,061,743	75,676	14,648	359,285	1,135,488	38,534	15,384	374,669	1,172,091	9,731	15,680	390,349	1,179,891	
6	TRANSMISSION	3,000		40	1,021	3,000		40	1,061	3,000		40	1,101	3,000	
7	TOTAL	1,064,743	75,676	14,688	360,306	1,138,488	38,534	15,424	375,730	1,175,091	9,731	15,720	391,450	1,182,891	
8	OTHER PROJECTS														
9	(GENERATION ONLY)														
10	ALBENI FALLS	54,020	8,282	775	22,626	62,190	6,272	870	23,496	68,350	0	911	24,407	68,238	
11	CHIEF JOSEPH	617,849	5,746	8,273	284,574	623,119	6,932	8,351	292,925	629,575	12,427	8,474	301,399	641,526	
12	COUGAR	43,495	2,599	597	6,567	46,094	0	615	7,182	46,094	1,793	627	7,809	47,887	
13	DETROIT-BIG CLIFF	68,390	19,671	1,043	26,460	88,062	19,900	1,307	27,767	107,962	0	1,439	29,206	107,962	
14	DWORSHAK	317,139	1,590	4,238	109,383	318,521	0	4,246	113,629	318,313	0	4,243	117,872	318,105	
15	GREEN PETER-FOSTER	57,678	0	769	23,155	57,672	6,847	815	23,970	64,512	0	860	24,830	64,505	
16	HILLS CREEK	24,686	2,413	345	12,000	27,098	0	361	12,361	27,098	2,443	378	12,739	29,541	
17	ICE HARBOR	187,897	8,107	2,559	79,844	195,936	2,057	2,626	82,470	197,924	0	2,639	85,109	197,856	
18	JOHN DAY	525,624	16,519	7,117	216,950	541,910	7,028	7,271	224,221	548,704	15,257	7,416	231,637	563,727	
19	LIBBY	441,488	3,398	5,907	152,059	444,604	89	5,927	157,986	444,412	0	5,924	163,910	444,130	
20	LITTLE GOOSE	229,902	2,628	3,081	100,416	232,194	10,766	3,165	103,581	242,623	6,195	3,274	106,855	248,483	
21	LOOKOUT POINT-DEXTER	62,725	1,060	842	40,152	63,563	21,643	990	41,142	84,983	5,734	1,170	42,312	90,495	
22	LOST CREEK	28,619	0	382	11,571	28,618	0	382	11,953	28,618	2,611	399	12,352	31,228	
23	LOWER GRANITE	390,083	16,761	5,311	134,699	406,589	4,159	5,447	140,146	410,493	0	5,472	145,618	410,238	
24	LOWER MONUMENTAL	263,140	16,380	3,617	111,372	279,398	0	3,724	115,096	279,276	0	3,723	118,819	279,155	
25	MCNARY	371,891	4,588	4,984	192,538	375,768	5,862	5,045	197,583	380,919	90,519	5,678	203,261	470,727	
26	THE DALLES	428,440	38,102	5,965	200,236	466,335	11,939	6,296	206,532	478,067	0	6,373	212,905	477,860	
27	LOWER SNAKE F&W	246,387		3,285	4,137	246,387		3,285	7,422	246,387		3,285	10,707	246,387	
28	COLUMBIA R. FISH BYPASS	1,223,622	144,966	16,315	153,543	1,368,066	99,343	18,241	171,784	1,466,887	48,758	19,558	191,342	1,515,123	
29	TOTAL OTHER	5,583,075	292,811	75,405	1,882,282	5,872,124	202,835	78,964	1,961,246	6,071,196	185,737	81,843	2,043,089	6,253,171	
30															
31	TOTAL CORPS	6,647,818	368,487	90,093	2,242,588	7,010,612	241,369	94,388	2,336,976	7,246,287	195,468	97,563	2,434,539	7,436,062	
32															
33	GENERATION	6,644,818		90,053	2,241,567	7,007,612		94,348	2,335,915	7,243,287		97,523	2,433,438	7,433,062	
34	TRANSMISSION	3,000		40	1,021	3,000		40	1,061	3,000		40	1,101	3,000	
35	TOTAL	6,647,818		90,093	2,242,588	7,010,612		94,388	2,336,976	7,246,287		97,563	2,434,539	7,436,062	
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	495,997		6,613	39,439	495,997		6,613	46,052	495,997		6,613	52,665	495,997	
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	4,076,569	2,452,210		1,679,914	4,256,737	2,576,823		1,737,223	4,339,673	2,602,450		1,795,952	4,469,462	2,673,510
42	F&W portion	1,470,009	1,331,929		157,680	1,614,453	1,456,773		179,206	1,713,274	1,534,068		202,049	1,761,510	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 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)

	A	B
	<u>2014</u>	<u>2015</u>
1 Annual Cash Surplus/(Deficit)	-	-
2 SOY Cash Balance	158,294	158,294
3 EOY Cash Balance	158,294	158,294
4 Average Cash Balance	158,294	158,294
5 Interest Income Rate	1.52%	2.60%
6 Interest on BPA Fund/Investments (In 4 X In 5)	2,406	4,116
7 Repayment Study Interest Income	2,754	5,607
Interest Earned on Funds Held for Others		
8 SOY Cash Balance	101,250	69,000
9 EOY Cash Balance	69,000	45,250
10 Average Cash Balance	85,125	57,125
11 Interest Income (In 11 X In 5)	1,294	1,485
12 Annual Interest Income (In 6+7+11)	6,454	11,208

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

	A	B
	<u>2014</u>	<u>2015</u>
1 Annual Cash Surplus/(Deficit)	(164,157)	(172,486)
2 SOY Cash Balance	158,294	(5,863)
3 EOY Cash Balance	(5,863)	(178,349)
4 Average Cash Balance	76,215	(92,106)
5 Interest Income Rate	1.52%	2.60%
6 Interest on BPA Fund/Investments (In 4 X In 5)	1,158	(2,395)
7 Repayment Study Interest Income	2,754	5,607
Interest Earned on Funds Held for Others		
8 SOY Cash Balance	101,250	69,000
9 EOY Cash Balance	69,000	45,250
10 Average Cash Balance	85,125	57,125
11 Interest Income (In 11 X In 5)	1,294	1,485
12 Annual Interest Income (In 6+7+11)	5,206	4,697

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

	A	B
	<u>2014</u>	<u>2015</u>
1 Annual Cash Surplus/(Deficit)	8,798	(7,927)
2 SOY Cash Balance	158,294	167,092
3 EOY Cash Balance	167,092	159,165
4 Average Cash Balance	162,693	163,128
5 Interest Income Rate	1.52%	2.60%
6 Interest on BPA Fund/Investments (In 4 X In 5)	2,473	4,241
7 Repayment Study Interest Income	2,754	5,607
Interest Earned on Funds Held for Others		
8 SOY Cash Balance	101,250	69,000
9 EOY Cash Balance	69,000	45,250
10 Average Cash Balance	85,125	57,125
11 Interest Income (In 11 X In 5)	1,294	1,485
12 Annual Interest Income (In 6+7+11)	6,521	11,333

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 188 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. As noted in the attached transmittal memo documenting the interest rates in this revenue requirement study, for the FY 2014-2015 period the 30-year rate reflects a markup of 48 and 146 basis points respectively depending on call options.

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.

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

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 2011 GI Base Case forecast.

memorandum

DATE: DEC 09 2011

REPLY TO
ATTN OF: FTC-2

SUBJECT: FY 2012 Interest Rate and Inflation Forecast

to: See Attached "cc:" List

Please see the attached BPA interest rate and inflation forecast for the period FY 2012 through 2041.

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 2012 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
- Table 3: 20 Year Treasury Yields and BPA Borrowing Rates
- Table 4: 15 Year Treasury Yields and BPA Borrowing Rates
- Table 5: BPA FY 2012 Appropriation Borrowing Rate Forecast
- Table 6: BPA FY 2012 BPA Borrowing Rate – No Premium
- Table 7: BPA FY 2012 BPA Borrowing Rate – Coupon Scale-Down Redemption Premium
- Table 8: BPA FY 2012 BPA Borrowing Rate – Callable at Par
- Table 9: BPA FY 2012 Third-Party Taxable Borrowing Rate Forecast
- Table 10: BPA FY 2012 Third-Party Tax-Exempt Borrowing Rate Forecast
- Table 11: BPA FY 2012 FERC Borrowing Rate (Bank Prime) Forecast
- Table 12: BPA FY 2012 May 3-Month LIBOR Rate Forecast
- Table 13: Comparison of FY 2012 Inflation Forecast Components

Borrowing Rate Forecast Methodology

The FY 2012 forecast is based on the Global Insight (GI) Third Quarter September 2011 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-year Treasury bond yields are shown in Column A. 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 mark-up over the Treasury yield curve. Table 6 is the Government Agency borrowing rate spread over the Treasury yield curve 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 mark-up to 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 mark-up to 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. Last year, the callable at par rate was the only BPA borrowing rate calculated.

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.

Table 7: Forecasts the rate at which Bonneville would borrow from Treasury for a bullet bond callable at par.

Table 8: Forecasts the rate at which Bonneville would borrow from Treasury for a bullet bond with a coupon scale-down redemption premium.

Table 9: Forecasts the rate at which Bonneville would back third-party bonds on a taxable basis, as with Bonneville-backed Northwest Infrastructure Financing Corporation 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 2011 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 the broadest measure of inflation in the U.S. economy. GDP reflects the value of all goods and services produced by domestic and foreign capital and labor within the United States. Major components of GDP include: total consumption, investment, government purchases, and net exports. The real GDP calculations reflect both the changing mix of the components in GDP and the relative price changes in these components.

This index assumes a base year of 2005. The projected change in the GDP price deflator and comparison with the FY 2011 inflation forecast is summarized in Table 13. Column A shows the projected trend in GDP inflation rates between 2012-2041 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 2012 Common Agency Assumptions, please contact Jon M. Dull at (503) 230-7544.



Jon M. Dull
Acting Manager, Debt and Investment Management

Attachments

Table 1
30 Year Treasury Yields and BPA Borrowing Rates
 FY 2012 Forecast of BPA Borrowing Rates

Calendar/Fiscal Years 2012-2041

<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>
2011	4.02				
2012	3.90	3.93	4.59	5.54	5.89
2013	4.07	4.03	4.66	5.56	5.91
2014	4.47	4.37	4.87	5.72	6.02
2015	5.09	4.94	5.40	5.95	6.20
2016	5.31	5.25	5.71	6.11	6.31
2017	5.31	5.31	5.77	6.22	6.32
2018	5.31	5.31	5.77	6.22	6.32
2019	5.31	5.31	5.77	6.22	6.32
2020	5.31	5.31	5.77	6.22	6.32
2021	5.31	5.31	5.77	6.22	6.32
2022	5.31	5.31	5.77	6.22	6.32
2023	5.31	5.31	5.77	6.22	6.32
2024	5.31	5.31	5.77	6.22	6.32
2025	5.31	5.31	5.77	6.22	6.32
2026	5.31	5.31	5.77	6.22	6.32
2027	5.31	5.31	5.77	6.22	6.32
2028	5.31	5.31	5.77	6.22	6.32
2029	5.31	5.31	5.77	6.22	6.32
2030	5.31	5.31	5.77	6.22	6.32
2031	5.31	5.31	5.77	6.22	6.32
2032	5.31	5.31	5.77	6.22	6.32
2033	5.31	5.31	5.77	6.22	6.32
2034	5.31	5.31	5.77	6.22	6.32
2035	5.31	5.31	5.77	6.22	6.32
2036	5.31	5.31	5.77	6.22	6.32
2037	5.31	5.31	5.77	6.22	6.32
2038	5.31	5.31	5.77	6.22	6.32
2039	5.31	5.31	5.77	6.22	6.32
2040	5.31	5.31	5.77	6.22	6.32
2041	5.31	5.31	5.77	6.22	6.32

1/ Global Insight: The U.S. Economy: 30-Year Focus, September 2011 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 2012 vs. BPA FY 2011

Calendar/Fiscal Years 2012-2041

<u>Year</u>	A FY 2012 Forecast BPA Rate 1/ <u>Callable at Par</u>	B FY 2011 Forecast BPA Rate 2/ <u>Callable at Par</u>	C Difference <u>(A-B)</u>
2012	5.89	6.01	-0.12
2013	5.91	6.28	-0.37
2014	6.02	6.85	-0.82
2015	6.20	6.87	-0.67
2016	6.31	6.99	-0.67
2017	6.32	6.99	-0.67
2018	6.32	6.99	-0.67
2019	6.32	6.99	-0.67
2020	6.32	6.99	-0.67
2021	6.32	6.99	-0.67
2022	6.32	6.99	-0.67
2023	6.32	6.99	-0.67
2024	6.32	6.99	-0.67
2025	6.32	6.99	-0.67
2026	6.32	6.99	-0.67
2027	6.32	6.99	-0.67
2028	6.32	6.99	-0.67
2029	6.32	6.99	-0.67
2030	6.32	6.99	-0.67
2031	6.32	6.99	-0.67
2032	6.32	6.99	-0.67
2033	6.32	6.99	-0.67
2034	6.32	6.99	-0.67
2035	6.32	6.99	-0.67
2036	6.32	6.99	-0.67
2037	6.32	6.99	-0.67
2038	6.32	6.99	-0.67
2039	6.32	6.99	-0.67
2040	6.32	6.99	-0.67
2041	6.32		

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

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

Table 3
20 Year Treasury Yields and BPA Borrowing Rates
 FY 2012 Forecast of BPA Borrowing Rates

Calendar/Fiscal Years 2012-2041

<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>
2011	3.57				
2012	3.29	3.36	3.97	4.80	5.17
2013	3.49	3.44	4.00	4.80	5.18
2014	4.03	3.89	4.38	5.11	5.43
2015	4.85	4.64	5.09	5.51	5.79
2016	5.11	5.04	5.47	5.75	5.97
2017	5.11	5.11	5.54	5.86	5.99
2018	5.11	5.11	5.54	5.86	5.99
2019	5.11	5.11	5.54	5.86	5.99
2020	5.11	5.11	5.54	5.86	5.99
2021	5.11	5.11	5.54	5.86	5.99
2022	5.11	5.11	5.54	5.86	5.99
2023	5.11	5.11	5.54	5.86	5.99
2024	5.11	5.11	5.54	5.86	5.99
2025	5.11	5.11	5.54	5.86	5.99
2026	5.11	5.11	5.54	5.86	5.99
2027	5.11	5.11	5.54	5.86	5.99
2028	5.11	5.11	5.54	5.86	5.99
2029	5.11	5.11	5.54	5.86	5.99
2030	5.11	5.11	5.54	5.86	5.99
2031	5.11	5.11	5.54	5.86	5.99
2032	5.11	5.11	5.54	5.86	5.99
2033	5.11	5.11	5.54	5.86	5.99
2034	5.11	5.11	5.54	5.86	5.99
2035	5.11	5.11	5.54	5.86	5.99
2036	5.11	5.11	5.54	5.86	5.99
2037	5.11	5.11	5.54	5.86	5.99
2038	5.11	5.11	5.54	5.86	5.99
2039	5.11	5.11	5.54	5.86	5.99
2040	5.11	5.11	5.54	5.86	5.99
2041	5.11	5.11	5.54	5.86	5.99

1/ Global Insight: The U.S. Economy: 30-Year Focus, September 2011 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 2012 Forecast of BPA Borrowing Rates

Calendar/Fiscal Years 2012-2041

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>
2011	3.35				
2012	2.99	3.08	3.66	4.43	4.81
2013	3.20	3.15	3.68	4.43	4.82
2014	3.80	3.65	4.14	4.80	5.14
2015	4.72	4.49	4.93	5.29	5.58
2016	5.01	4.94	5.35	5.57	5.80
2017	5.01	5.01	5.43	5.69	5.83
2018	5.01	5.01	5.43	5.69	5.83
2019	5.01	5.01	5.43	5.69	5.83
2020	5.01	5.01	5.43	5.69	5.83
2021	5.01	5.01	5.43	5.69	5.83
2022	5.01	5.01	5.43	5.69	5.83
2023	5.01	5.01	5.43	5.69	5.83
2024	5.01	5.01	5.43	5.69	5.83
2025	5.01	5.01	5.43	5.69	5.83
2026	5.01	5.01	5.43	5.69	5.83
2027	5.01	5.01	5.43	5.69	5.83
2028	5.01	5.01	5.43	5.69	5.83
2029	5.01	5.01	5.43	5.69	5.83
2030	5.01	5.01	5.43	5.69	5.83
2031	5.01	5.01	5.43	5.69	5.83
2032	5.01	5.01	5.43	5.69	5.83
2033	5.01	5.01	5.43	5.69	5.83
2034	5.01	5.01	5.43	5.69	5.83
2035	5.01	5.01	5.43	5.69	5.83
2036	5.01	5.01	5.43	5.69	5.83
2037	5.01	5.01	5.43	5.69	5.83
2038	5.01	5.01	5.43	5.69	5.83
2039	5.01	5.01	5.43	5.69	5.83
2040	5.01	5.01	5.43	5.69	5.83
2041	5.01	5.01	5.43	5.69	5.83

1/ Global Insight: The U.S. Economy: 30-Year Focus, September 2011 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 2012 Appropriation 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>
2012 2/	0.14	0.26	0.47	0.76	1.04	1.33	1.59	1.82	2.01	2.17	2.30	2.43	2.53	2.63	2.72
2013	0.23	0.47	0.84	1.21	1.58	1.84	2.09	2.34	2.60	2.85	2.91	2.97	3.03	3.09	3.15
2014	1.34	1.60	1.87	2.14	2.40	2.61	2.81	3.01	3.21	3.41	3.46	3.51	3.55	3.60	3.65
2015	3.14	3.31	3.47	3.64	3.80	3.91	4.02	4.13	4.24	4.34	4.37	4.40	4.43	4.46	4.49
2016	3.91	4.03	4.16	4.29	4.42	4.51	4.59	4.67	4.75	4.83	4.85	4.88	4.90	4.92	4.94
2017	4.01	4.12	4.25	4.38	4.50	4.59	4.67	4.75	4.83	4.91	4.93	4.95	4.97	4.99	5.01
2018	4.01	4.12	4.25	4.38	4.50	4.59	4.67	4.75	4.83	4.91	4.93	4.95	4.97	4.99	5.01
2019	4.01	4.12	4.25	4.38	4.50	4.59	4.67	4.75	4.83	4.91	4.93	4.95	4.97	4.99	5.01
2020	4.01	4.12	4.25	4.38	4.50	4.59	4.67	4.75	4.83	4.91	4.93	4.95	4.97	4.99	5.01
2021	4.01	4.12	4.25	4.38	4.50	4.59	4.67	4.75	4.83	4.91	4.93	4.95	4.97	4.99	5.01
2022	4.01	4.12	4.25	4.38	4.50	4.59	4.67	4.75	4.83	4.91	4.93	4.95	4.97	4.99	5.01
2023	4.01	4.12	4.25	4.38	4.50	4.59	4.67	4.75	4.83	4.91	4.93	4.95	4.97	4.99	5.01
2024	4.01	4.12	4.25	4.38	4.50	4.59	4.67	4.75	4.83	4.91	4.93	4.95	4.97	4.99	5.01
2025	4.01	4.12	4.25	4.38	4.50	4.59	4.67	4.75	4.83	4.91	4.93	4.95	4.97	4.99	5.01
2026	4.01	4.12	4.25	4.38	4.50	4.59	4.67	4.75	4.83	4.91	4.93	4.95	4.97	4.99	5.01
2027	4.01	4.12	4.25	4.38	4.50	4.59	4.67	4.75	4.83	4.91	4.93	4.95	4.97	4.99	5.01
2028	4.01	4.12	4.25	4.38	4.50	4.59	4.67	4.75	4.83	4.91	4.93	4.95	4.97	4.99	5.01
2029	4.01	4.12	4.25	4.38	4.50	4.59	4.67	4.75	4.83	4.91	4.93	4.95	4.97	4.99	5.01
2030	4.01	4.12	4.25	4.38	4.50	4.59	4.67	4.75	4.83	4.91	4.93	4.95	4.97	4.99	5.01
2031	4.01	4.12	4.25	4.38	4.50	4.59	4.67	4.75	4.83	4.91	4.93	4.95	4.97	4.99	5.01
2032	4.01	4.12	4.25	4.38	4.50	4.59	4.67	4.75	4.83	4.91	4.93	4.95	4.97	4.99	5.01
2033	4.01	4.12	4.25	4.38	4.50	4.59	4.67	4.75	4.83	4.91	4.93	4.95	4.97	4.99	5.01
2034	4.01	4.12	4.25	4.38	4.50	4.59	4.67	4.75	4.83	4.91	4.93	4.95	4.97	4.99	5.01
2035	4.01	4.12	4.25	4.38	4.50	4.59	4.67	4.75	4.83	4.91	4.93	4.95	4.97	4.99	5.01
2036	4.01	4.12	4.25	4.38	4.50	4.59	4.67	4.75	4.83	4.91	4.93	4.95	4.97	4.99	5.01
2037	4.01	4.12	4.25	4.38	4.50	4.59	4.67	4.75	4.83	4.91	4.93	4.95	4.97	4.99	5.01
2038	4.01	4.12	4.25	4.38	4.50	4.59	4.67	4.75	4.83	4.91	4.93	4.95	4.97	4.99	5.01
2039	4.01	4.12	4.25	4.38	4.50	4.59	4.67	4.75	4.83	4.91	4.93	4.95	4.97	4.99	5.01
2040	4.01	4.12	4.25	4.38	4.50	4.59	4.67	4.75	4.83	4.91	4.93	4.95	4.97	4.99	5.01
2041	4.01	4.12	4.25	4.38	4.50	4.59	4.67	4.75	4.83	4.91	4.93	4.95	4.97	4.99	5.01

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2011 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 2012 Appropriation Borrowing Rate Forecast 1/

Fiscal Years 2012-2041

<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>
2.78	2.88	2.94	3.00	3.02	3.13	3.13	3.21	3.25	3.25	3.35	3.38	3.38	3.38	3.38	3.38	2012 2/
3.20	3.26	3.32	3.38	3.44	3.50	3.56	3.61	3.67	3.73	3.79	3.85	3.91	3.97	4.03	4.03	2013
3.70	3.75	3.80	3.84	3.89	3.94	3.99	4.04	4.08	4.13	4.18	4.23	4.28	4.32	4.37	4.37	2014
4.52	4.55	4.58	4.61	4.64	4.67	4.70	4.73	4.76	4.79	4.82	4.85	4.88	4.91	4.94	4.94	2015
4.96	4.98	5.00	5.02	5.04	5.06	5.09	5.11	5.13	5.15	5.17	5.19	5.21	5.23	5.25	5.25	2016
5.03	5.05	5.07	5.09	5.11	5.13	5.15	5.17	5.19	5.21	5.23	5.25	5.27	5.29	5.31	5.31	2017
5.03	5.05	5.07	5.09	5.11	5.13	5.15	5.17	5.19	5.21	5.23	5.25	5.27	5.29	5.31	5.31	2018
5.03	5.05	5.07	5.09	5.11	5.13	5.15	5.17	5.19	5.21	5.23	5.25	5.27	5.29	5.31	5.31	2019
5.03	5.05	5.07	5.09	5.11	5.13	5.15	5.17	5.19	5.21	5.23	5.25	5.27	5.29	5.31	5.31	2020
5.03	5.05	5.07	5.09	5.11	5.13	5.15	5.17	5.19	5.21	5.23	5.25	5.27	5.29	5.31	5.31	2021
5.03	5.05	5.07	5.09	5.11	5.13	5.15	5.17	5.19	5.21	5.23	5.25	5.27	5.29	5.31	5.31	2022
5.03	5.05	5.07	5.09	5.11	5.13	5.15	5.17	5.19	5.21	5.23	5.25	5.27	5.29	5.31	5.31	2023
5.03	5.05	5.07	5.09	5.11	5.13	5.15	5.17	5.19	5.21	5.23	5.25	5.27	5.29	5.31	5.31	2024
5.03	5.05	5.07	5.09	5.11	5.13	5.15	5.17	5.19	5.21	5.23	5.25	5.27	5.29	5.31	5.31	2025
5.03	5.05	5.07	5.09	5.11	5.13	5.15	5.17	5.19	5.21	5.23	5.25	5.27	5.29	5.31	5.31	2026
5.03	5.05	5.07	5.09	5.11	5.13	5.15	5.17	5.19	5.21	5.23	5.25	5.27	5.29	5.31	5.31	2027
5.03	5.05	5.07	5.09	5.11	5.13	5.15	5.17	5.19	5.21	5.23	5.25	5.27	5.29	5.31	5.31	2028
5.03	5.05	5.07	5.09	5.11	5.13	5.15	5.17	5.19	5.21	5.23	5.25	5.27	5.29	5.31	5.31	2029
5.03	5.05	5.07	5.09	5.11	5.13	5.15	5.17	5.19	5.21	5.23	5.25	5.27	5.29	5.31	5.31	2030
5.03	5.05	5.07	5.09	5.11	5.13	5.15	5.17	5.19	5.21	5.23	5.25	5.27	5.29	5.31	5.31	2031
5.03	5.05	5.07	5.09	5.11	5.13	5.15	5.17	5.19	5.21	5.23	5.25	5.27	5.29	5.31	5.31	2032
5.03	5.05	5.07	5.09	5.11	5.13	5.15	5.17	5.19	5.21	5.23	5.25	5.27	5.29	5.31	5.31	2033
5.03	5.05	5.07	5.09	5.11	5.13	5.15	5.17	5.19	5.21	5.23	5.25	5.27	5.29	5.31	5.31	2034
5.03	5.05	5.07	5.09	5.11	5.13	5.15	5.17	5.19	5.21	5.23	5.25	5.27	5.29	5.31	5.31	2035
5.03	5.05	5.07	5.09	5.11	5.13	5.15	5.17	5.19	5.21	5.23	5.25	5.27	5.29	5.31	5.31	2036
5.03	5.05	5.07	5.09	5.11	5.13	5.15	5.17	5.19	5.21	5.23	5.25	5.27	5.29	5.31	5.31	2037
5.03	5.05	5.07	5.09	5.11	5.13	5.15	5.17	5.19	5.21	5.23	5.25	5.27	5.29	5.31	5.31	2038
5.03	5.05	5.07	5.09	5.11	5.13	5.15	5.17	5.19	5.21	5.23	5.25	5.27	5.29	5.31	5.31	2039
5.03	5.05	5.07	5.09	5.11	5.13	5.15	5.17	5.19	5.21	5.23	5.25	5.27	5.29	5.31	5.31	2040
5.03	5.05	5.07	5.09	5.11	5.13	5.15	5.17	5.19	5.21	5.23	5.25	5.27	5.29	5.31	5.31	2041

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2011 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 2012 BPA Borrowing Rate - No Premium

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>
2012	0.62	0.83	1.24	1.64	2.05	2.31	2.57	2.83	3.09	3.36	3.42	3.48	3.54	3.60	3.66
2013	0.56	0.80	1.21	1.62	2.03	2.30	2.56	2.82	3.09	3.35	3.42	3.48	3.55	3.61	3.68
2014	1.64	1.90	2.18	2.47	2.75	2.98	3.21	3.44	3.66	3.89	3.94	3.99	4.04	4.09	4.14
2015	3.42	3.56	3.74	3.92	4.10	4.24	4.37	4.51	4.64	4.77	4.81	4.84	4.87	4.90	4.93
2016	4.19	4.24	4.39	4.55	4.70	4.81	4.92	5.02	5.13	5.23	5.26	5.28	5.31	5.33	5.35
2017	4.29	4.33	4.48	4.63	4.78	4.89	5.00	5.10	5.21	5.31	5.33	5.36	5.38	5.40	5.43
2018	4.29	4.33	4.48	4.63	4.78	4.89	5.00	5.10	5.21	5.31	5.33	5.36	5.38	5.40	5.43
2019	4.29	4.33	4.48	4.63	4.78	4.89	5.00	5.10	5.21	5.31	5.33	5.36	5.38	5.40	5.43
2020	4.29	4.33	4.48	4.63	4.78	4.89	5.00	5.10	5.21	5.31	5.33	5.36	5.38	5.40	5.43
2021	4.29	4.33	4.48	4.63	4.78	4.89	5.00	5.10	5.21	5.31	5.33	5.36	5.38	5.40	5.43
2022	4.29	4.33	4.48	4.63	4.78	4.89	5.00	5.10	5.21	5.31	5.33	5.36	5.38	5.40	5.43
2023	4.29	4.33	4.48	4.63	4.78	4.89	5.00	5.10	5.21	5.31	5.33	5.36	5.38	5.40	5.43
2024	4.29	4.33	4.48	4.63	4.78	4.89	5.00	5.10	5.21	5.31	5.33	5.36	5.38	5.40	5.43
2025	4.29	4.33	4.48	4.63	4.78	4.89	5.00	5.10	5.21	5.31	5.33	5.36	5.38	5.40	5.43
2026	4.29	4.33	4.48	4.63	4.78	4.89	5.00	5.10	5.21	5.31	5.33	5.36	5.38	5.40	5.43
2027	4.29	4.33	4.48	4.63	4.78	4.89	5.00	5.10	5.21	5.31	5.33	5.36	5.38	5.40	5.43
2028	4.29	4.33	4.48	4.63	4.78	4.89	5.00	5.10	5.21	5.31	5.33	5.36	5.38	5.40	5.43
2029	4.29	4.33	4.48	4.63	4.78	4.89	5.00	5.10	5.21	5.31	5.33	5.36	5.38	5.40	5.43
2030	4.29	4.33	4.48	4.63	4.78	4.89	5.00	5.10	5.21	5.31	5.33	5.36	5.38	5.40	5.43
2031	4.29	4.33	4.48	4.63	4.78	4.89	5.00	5.10	5.21	5.31	5.33	5.36	5.38	5.40	5.43
2032	4.29	4.33	4.48	4.63	4.78	4.89	5.00	5.10	5.21	5.31	5.33	5.36	5.38	5.40	5.43
2033	4.29	4.33	4.48	4.63	4.78	4.89	5.00	5.10	5.21	5.31	5.33	5.36	5.38	5.40	5.43
2034	4.29	4.33	4.48	4.63	4.78	4.89	5.00	5.10	5.21	5.31	5.33	5.36	5.38	5.40	5.43
2035	4.29	4.33	4.48	4.63	4.78	4.89	5.00	5.10	5.21	5.31	5.33	5.36	5.38	5.40	5.43
2036	4.29	4.33	4.48	4.63	4.78	4.89	5.00	5.10	5.21	5.31	5.33	5.36	5.38	5.40	5.43
2037	4.29	4.33	4.48	4.63	4.78	4.89	5.00	5.10	5.21	5.31	5.33	5.36	5.38	5.40	5.43
2038	4.29	4.33	4.48	4.63	4.78	4.89	5.00	5.10	5.21	5.31	5.33	5.36	5.38	5.40	5.43
2039	4.29	4.33	4.48	4.63	4.78	4.89	5.00	5.10	5.21	5.31	5.33	5.36	5.38	5.40	5.43
2040	4.29	4.33	4.48	4.63	4.78	4.89	5.00	5.10	5.21	5.31	5.33	5.36	5.38	5.40	5.43
2041	4.29	4.33	4.48	4.63	4.78	4.89	5.00	5.10	5.21	5.31	5.33	5.36	5.38	5.40	5.43

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2011 Forecast, Base Case.

Table 6
BPA FY 2012 BPA Borrowing Rate - No Premium

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>
3.73	3.79	3.85	3.91	3.97	4.03	4.09	4.16	4.22	4.28	4.34	4.40	4.46	4.53	4.59	4.59	2012
3.74	3.81	3.87	3.94	4.00	4.07	4.13	4.20	4.26	4.33	4.39	4.46	4.53	4.59	4.66	4.66	2013
4.19	4.23	4.28	4.33	4.38	4.43	4.48	4.53	4.58	4.63	4.68	4.73	4.77	4.82	4.87	4.87	2014
4.96	4.99	5.02	5.05	5.09	5.12	5.15	5.18	5.21	5.24	5.27	5.30	5.34	5.37	5.40	5.40	2015
5.38	5.40	5.43	5.45	5.47	5.50	5.52	5.55	5.57	5.59	5.62	5.64	5.67	5.69	5.71	5.71	2016
5.45	5.47	5.49	5.52	5.54	5.56	5.59	5.61	5.63	5.65	5.68	5.70	5.72	5.74	5.77	5.77	2017
5.45	5.47	5.49	5.52	5.54	5.56	5.59	5.61	5.63	5.65	5.68	5.70	5.72	5.74	5.77	5.77	2018
5.45	5.47	5.49	5.52	5.54	5.56	5.59	5.61	5.63	5.65	5.68	5.70	5.72	5.74	5.77	5.77	2019
5.45	5.47	5.49	5.52	5.54	5.56	5.59	5.61	5.63	5.65	5.68	5.70	5.72	5.74	5.77	5.77	2020
5.45	5.47	5.49	5.52	5.54	5.56	5.59	5.61	5.63	5.65	5.68	5.70	5.72	5.74	5.77	5.77	2021
5.45	5.47	5.49	5.52	5.54	5.56	5.59	5.61	5.63	5.65	5.68	5.70	5.72	5.74	5.77	5.77	2022
5.45	5.47	5.49	5.52	5.54	5.56	5.59	5.61	5.63	5.65	5.68	5.70	5.72	5.74	5.77	5.77	2023
5.45	5.47	5.49	5.52	5.54	5.56	5.59	5.61	5.63	5.65	5.68	5.70	5.72	5.74	5.77	5.77	2024
5.45	5.47	5.49	5.52	5.54	5.56	5.59	5.61	5.63	5.65	5.68	5.70	5.72	5.74	5.77	5.77	2025
5.45	5.47	5.49	5.52	5.54	5.56	5.59	5.61	5.63	5.65	5.68	5.70	5.72	5.74	5.77	5.77	2026
5.45	5.47	5.49	5.52	5.54	5.56	5.59	5.61	5.63	5.65	5.68	5.70	5.72	5.74	5.77	5.77	2027
5.45	5.47	5.49	5.52	5.54	5.56	5.59	5.61	5.63	5.65	5.68	5.70	5.72	5.74	5.77	5.77	2028
5.45	5.47	5.49	5.52	5.54	5.56	5.59	5.61	5.63	5.65	5.68	5.70	5.72	5.74	5.77	5.77	2029
5.45	5.47	5.49	5.52	5.54	5.56	5.59	5.61	5.63	5.65	5.68	5.70	5.72	5.74	5.77	5.77	2030
5.45	5.47	5.49	5.52	5.54	5.56	5.59	5.61	5.63	5.65	5.68	5.70	5.72	5.74	5.77	5.77	2031
5.45	5.47	5.49	5.52	5.54	5.56	5.59	5.61	5.63	5.65	5.68	5.70	5.72	5.74	5.77	5.77	2032
5.45	5.47	5.49	5.52	5.54	5.56	5.59	5.61	5.63	5.65	5.68	5.70	5.72	5.74	5.77	5.77	2033
5.45	5.47	5.49	5.52	5.54	5.56	5.59	5.61	5.63	5.65	5.68	5.70	5.72	5.74	5.77	5.77	2034
5.45	5.47	5.49	5.52	5.54	5.56	5.59	5.61	5.63	5.65	5.68	5.70	5.72	5.74	5.77	5.77	2035
5.45	5.47	5.49	5.52	5.54	5.56	5.59	5.61	5.63	5.65	5.68	5.70	5.72	5.74	5.77	5.77	2036
5.45	5.47	5.49	5.52	5.54	5.56	5.59	5.61	5.63	5.65	5.68	5.70	5.72	5.74	5.77	5.77	2037
5.45	5.47	5.49	5.52	5.54	5.56	5.59	5.61	5.63	5.65	5.68	5.70	5.72	5.74	5.77	5.77	2038
5.45	5.47	5.49	5.52	5.54	5.56	5.59	5.61	5.63	5.65	5.68	5.70	5.72	5.74	5.77	5.77	2039
5.45	5.47	5.49	5.52	5.54	5.56	5.59	5.61	5.63	5.65	5.68	5.70	5.72	5.74	5.77	5.77	2040
5.45	5.47	5.49	5.52	5.54	5.56	5.59	5.61	5.63	5.65	5.68	5.70	5.72	5.74	5.77	5.77	2041

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2011 Forecast, Base Case.

Table 7
BPA FY 2012 BPA Borrowing Rate - Coupon Scale-Down Redemption Premium

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>
2012	0.69	0.97	1.45	1.92	2.40	2.73	3.06	3.39	3.72	4.06	4.13	4.20	4.28	4.35	4.43
2013	0.63	0.94	1.42	1.90	2.38	2.72	3.05	3.38	3.72	4.05	4.13	4.20	4.28	4.35	4.43
2014	1.70	2.02	2.36	2.71	3.05	3.34	3.63	3.92	4.20	4.49	4.55	4.61	4.68	4.74	4.80
2015	3.45	3.62	3.83	4.04	4.25	4.42	4.58	4.75	4.91	5.07	5.12	5.16	5.21	5.25	5.29
2016	4.21	4.27	4.44	4.61	4.78	4.90	5.02	5.14	5.26	5.38	5.42	5.46	5.49	5.53	5.57
2017	4.31	4.37	4.54	4.71	4.88	5.01	5.14	5.26	5.39	5.51	5.55	5.58	5.62	5.65	5.69
2018	4.31	4.37	4.54	4.71	4.88	5.01	5.14	5.26	5.39	5.51	5.55	5.58	5.62	5.65	5.69
2019	4.31	4.37	4.54	4.71	4.88	5.01	5.14	5.26	5.39	5.51	5.55	5.58	5.62	5.65	5.69
2020	4.31	4.37	4.54	4.71	4.88	5.01	5.14	5.26	5.39	5.51	5.55	5.58	5.62	5.65	5.69
2021	4.31	4.37	4.54	4.71	4.88	5.01	5.14	5.26	5.39	5.51	5.55	5.58	5.62	5.65	5.69
2022	4.31	4.37	4.54	4.71	4.88	5.01	5.14	5.26	5.39	5.51	5.55	5.58	5.62	5.65	5.69
2023	4.31	4.37	4.54	4.71	4.88	5.01	5.14	5.26	5.39	5.51	5.55	5.58	5.62	5.65	5.69
2024	4.31	4.37	4.54	4.71	4.88	5.01	5.14	5.26	5.39	5.51	5.55	5.58	5.62	5.65	5.69
2025	4.31	4.37	4.54	4.71	4.88	5.01	5.14	5.26	5.39	5.51	5.55	5.58	5.62	5.65	5.69
2026	4.31	4.37	4.54	4.71	4.88	5.01	5.14	5.26	5.39	5.51	5.55	5.58	5.62	5.65	5.69
2027	4.31	4.37	4.54	4.71	4.88	5.01	5.14	5.26	5.39	5.51	5.55	5.58	5.62	5.65	5.69
2028	4.31	4.37	4.54	4.71	4.88	5.01	5.14	5.26	5.39	5.51	5.55	5.58	5.62	5.65	5.69
2029	4.31	4.37	4.54	4.71	4.88	5.01	5.14	5.26	5.39	5.51	5.55	5.58	5.62	5.65	5.69
2030	4.31	4.37	4.54	4.71	4.88	5.01	5.14	5.26	5.39	5.51	5.55	5.58	5.62	5.65	5.69
2031	4.31	4.37	4.54	4.71	4.88	5.01	5.14	5.26	5.39	5.51	5.55	5.58	5.62	5.65	5.69
2032	4.31	4.37	4.54	4.71	4.88	5.01	5.14	5.26	5.39	5.51	5.55	5.58	5.62	5.65	5.69
2033	4.31	4.37	4.54	4.71	4.88	5.01	5.14	5.26	5.39	5.51	5.55	5.58	5.62	5.65	5.69
2034	4.31	4.37	4.54	4.71	4.88	5.01	5.14	5.26	5.39	5.51	5.55	5.58	5.62	5.65	5.69
2035	4.31	4.37	4.54	4.71	4.88	5.01	5.14	5.26	5.39	5.51	5.55	5.58	5.62	5.65	5.69
2036	4.31	4.37	4.54	4.71	4.88	5.01	5.14	5.26	5.39	5.51	5.55	5.58	5.62	5.65	5.69
2037	4.31	4.37	4.54	4.71	4.88	5.01	5.14	5.26	5.39	5.51	5.55	5.58	5.62	5.65	5.69
2038	4.31	4.37	4.54	4.71	4.88	5.01	5.14	5.26	5.39	5.51	5.55	5.58	5.62	5.65	5.69
2039	4.31	4.37	4.54	4.71	4.88	5.01	5.14	5.26	5.39	5.51	5.55	5.58	5.62	5.65	5.69
2040	4.31	4.37	4.54	4.71	4.88	5.01	5.14	5.26	5.39	5.51	5.55	5.58	5.62	5.65	5.69
2041	4.31	4.37	4.54	4.71	4.88	5.01	5.14	5.26	5.39	5.51	5.55	5.58	5.62	5.65	5.69

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2011 Forecast, Base Case.

Table 7
BPA FY 2012 BPA Borrowing Rate - Coupon Scale-Down Redemption Premium

Fiscal Years 2012-2041

<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>
4.50	4.57	4.65	4.72	4.80	4.87	4.94	5.02	5.09	5.17	5.24	5.32	5.39	5.46	5.54	5.54	2012
4.50	4.58	4.65	4.73	4.80	4.88	4.95	5.03	5.10	5.18	5.25	5.33	5.41	5.48	5.56	5.56	2013
4.86	4.92	4.98	5.04	5.11	5.17	5.23	5.29	5.35	5.41	5.48	5.54	5.60	5.66	5.72	5.72	2014
5.34	5.38	5.42	5.47	5.51	5.55	5.60	5.64	5.69	5.73	5.77	5.82	5.86	5.90	5.95	5.95	2015
5.60	5.64	5.68	5.71	5.75	5.79	5.82	5.86	5.89	5.93	5.97	6.00	6.04	6.08	6.11	6.11	2016
5.72	5.76	5.79	5.83	5.86	5.90	5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.22	2017
5.72	5.76	5.79	5.83	5.86	5.90	5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.22	2018
5.72	5.76	5.79	5.83	5.86	5.90	5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.22	2019
5.72	5.76	5.79	5.83	5.86	5.90	5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.22	2020
5.72	5.76	5.79	5.83	5.86	5.90	5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.22	2021
5.72	5.76	5.79	5.83	5.86	5.90	5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.22	2022
5.72	5.76	5.79	5.83	5.86	5.90	5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.22	2023
5.72	5.76	5.79	5.83	5.86	5.90	5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.22	2024
5.72	5.76	5.79	5.83	5.86	5.90	5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.22	2025
5.72	5.76	5.79	5.83	5.86	5.90	5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.22	2026
5.72	5.76	5.79	5.83	5.86	5.90	5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.22	2027
5.72	5.76	5.79	5.83	5.86	5.90	5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.22	2028
5.72	5.76	5.79	5.83	5.86	5.90	5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.22	2029
5.72	5.76	5.79	5.83	5.86	5.90	5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.22	2030
5.72	5.76	5.79	5.83	5.86	5.90	5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.22	2031
5.72	5.76	5.79	5.83	5.86	5.90	5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.22	2032
5.72	5.76	5.79	5.83	5.86	5.90	5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.22	2033
5.72	5.76	5.79	5.83	5.86	5.90	5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.22	2034
5.72	5.76	5.79	5.83	5.86	5.90	5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.22	2035
5.72	5.76	5.79	5.83	5.86	5.90	5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.22	2036
5.72	5.76	5.79	5.83	5.86	5.90	5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.22	2037
5.72	5.76	5.79	5.83	5.86	5.90	5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.22	2038
5.72	5.76	5.79	5.83	5.86	5.90	5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.22	2039
5.72	5.76	5.79	5.83	5.86	5.90	5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.22	2040
5.72	5.76	5.79	5.83	5.86	5.90	5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.18	6.22	6.22	2041

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2011 Forecast, Base Case.

Table 8
BPA FY 2012 BPA Borrowing Rate - Callable at Par

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>
2012	0.73	1.05	1.57	2.08	2.60	2.97	3.34	3.71	4.08	4.46	4.53	4.60	4.67	4.74	4.81
2013	0.67	1.02	1.54	2.06	2.58	2.96	3.33	3.70	4.08	4.45	4.53	4.60	4.67	4.74	4.82
2014	1.73	2.09	2.47	2.85	3.23	3.55	3.87	4.20	4.52	4.84	4.90	4.96	5.02	5.08	5.14
2015	3.48	3.68	3.92	4.16	4.40	4.60	4.79	4.99	5.18	5.37	5.42	5.46	5.50	5.54	5.58
2016	4.23	4.32	4.51	4.71	4.90	5.05	5.20	5.34	5.49	5.63	5.67	5.70	5.74	5.77	5.80
2017	4.33	4.40	4.58	4.77	4.96	5.10	5.24	5.38	5.52	5.66	5.69	5.73	5.76	5.79	5.83
2018	4.33	4.40	4.58	4.77	4.96	5.10	5.24	5.38	5.52	5.66	5.69	5.73	5.76	5.79	5.83
2019	4.33	4.40	4.58	4.77	4.96	5.10	5.24	5.38	5.52	5.66	5.69	5.73	5.76	5.79	5.83
2020	4.33	4.40	4.58	4.77	4.96	5.10	5.24	5.38	5.52	5.66	5.69	5.73	5.76	5.79	5.83
2021	4.33	4.40	4.58	4.77	4.96	5.10	5.24	5.38	5.52	5.66	5.69	5.73	5.76	5.79	5.83
2022	4.33	4.40	4.58	4.77	4.96	5.10	5.24	5.38	5.52	5.66	5.69	5.73	5.76	5.79	5.83
2023	4.33	4.40	4.58	4.77	4.96	5.10	5.24	5.38	5.52	5.66	5.69	5.73	5.76	5.79	5.83
2024	4.33	4.40	4.58	4.77	4.96	5.10	5.24	5.38	5.52	5.66	5.69	5.73	5.76	5.79	5.83
2025	4.33	4.40	4.58	4.77	4.96	5.10	5.24	5.38	5.52	5.66	5.69	5.73	5.76	5.79	5.83
2026	4.33	4.40	4.58	4.77	4.96	5.10	5.24	5.38	5.52	5.66	5.69	5.73	5.76	5.79	5.83
2027	4.33	4.40	4.58	4.77	4.96	5.10	5.24	5.38	5.52	5.66	5.69	5.73	5.76	5.79	5.83
2028	4.33	4.40	4.58	4.77	4.96	5.10	5.24	5.38	5.52	5.66	5.69	5.73	5.76	5.79	5.83
2029	4.33	4.40	4.58	4.77	4.96	5.10	5.24	5.38	5.52	5.66	5.69	5.73	5.76	5.79	5.83
2030	4.33	4.40	4.58	4.77	4.96	5.10	5.24	5.38	5.52	5.66	5.69	5.73	5.76	5.79	5.83
2031	4.33	4.40	4.58	4.77	4.96	5.10	5.24	5.38	5.52	5.66	5.69	5.73	5.76	5.79	5.83
2032	4.33	4.40	4.58	4.77	4.96	5.10	5.24	5.38	5.52	5.66	5.69	5.73	5.76	5.79	5.83
2033	4.33	4.40	4.58	4.77	4.96	5.10	5.24	5.38	5.52	5.66	5.69	5.73	5.76	5.79	5.83
2034	4.33	4.40	4.58	4.77	4.96	5.10	5.24	5.38	5.52	5.66	5.69	5.73	5.76	5.79	5.83
2035	4.33	4.40	4.58	4.77	4.96	5.10	5.24	5.38	5.52	5.66	5.69	5.73	5.76	5.79	5.83
2036	4.33	4.40	4.58	4.77	4.96	5.10	5.24	5.38	5.52	5.66	5.69	5.73	5.76	5.79	5.83
2037	4.33	4.40	4.58	4.77	4.96	5.10	5.24	5.38	5.52	5.66	5.69	5.73	5.76	5.79	5.83
2038	4.33	4.40	4.58	4.77	4.96	5.10	5.24	5.38	5.52	5.66	5.69	5.73	5.76	5.79	5.83
2039	4.33	4.40	4.58	4.77	4.96	5.10	5.24	5.38	5.52	5.66	5.69	5.73	5.76	5.79	5.83
2040	4.33	4.40	4.58	4.77	4.96	5.10	5.24	5.38	5.52	5.66	5.69	5.73	5.76	5.79	5.83
2041	4.33	4.40	4.58	4.77	4.96	5.10	5.24	5.38	5.52	5.66	5.69	5.73	5.76	5.79	5.83

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2011 Forecast, Base Case.

Table 8
BPA FY 2012 BPA Borrowing Rate - Callable at Par

Fiscal Years 2012-2041

<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>
4.89	4.96	5.03	5.10	5.17	5.24	5.31	5.39	5.46	5.53	5.60	5.67	5.74	5.82	5.89	5.89	2012
4.89	4.96	5.03	5.11	5.18	5.25	5.32	5.40	5.47	5.54	5.61	5.69	5.76	5.83	5.91	5.91	2013
5.20	5.25	5.31	5.37	5.43	5.49	5.55	5.61	5.67	5.73	5.79	5.85	5.90	5.96	6.02	6.02	2014
5.62	5.66	5.70	5.74	5.79	5.83	5.87	5.91	5.95	5.99	6.03	6.07	6.12	6.16	6.20	6.20	2015
5.84	5.87	5.91	5.94	5.97	6.01	6.04	6.08	6.11	6.14	6.18	6.21	6.25	6.28	6.31	6.31	2016
5.86	5.89	5.92	5.96	5.99	6.02	6.06	6.09	6.12	6.15	6.19	6.22	6.25	6.28	6.32	6.32	2017
5.86	5.89	5.92	5.96	5.99	6.02	6.06	6.09	6.12	6.15	6.19	6.22	6.25	6.28	6.32	6.32	2018
5.86	5.89	5.92	5.96	5.99	6.02	6.06	6.09	6.12	6.15	6.19	6.22	6.25	6.28	6.32	6.32	2019
5.86	5.89	5.92	5.96	5.99	6.02	6.06	6.09	6.12	6.15	6.19	6.22	6.25	6.28	6.32	6.32	2020
5.86	5.89	5.92	5.96	5.99	6.02	6.06	6.09	6.12	6.15	6.19	6.22	6.25	6.28	6.32	6.32	2021
5.86	5.89	5.92	5.96	5.99	6.02	6.06	6.09	6.12	6.15	6.19	6.22	6.25	6.28	6.32	6.32	2022
5.86	5.89	5.92	5.96	5.99	6.02	6.06	6.09	6.12	6.15	6.19	6.22	6.25	6.28	6.32	6.32	2023
5.86	5.89	5.92	5.96	5.99	6.02	6.06	6.09	6.12	6.15	6.19	6.22	6.25	6.28	6.32	6.32	2024
5.86	5.89	5.92	5.96	5.99	6.02	6.06	6.09	6.12	6.15	6.19	6.22	6.25	6.28	6.32	6.32	2025
5.86	5.89	5.92	5.96	5.99	6.02	6.06	6.09	6.12	6.15	6.19	6.22	6.25	6.28	6.32	6.32	2026
5.86	5.89	5.92	5.96	5.99	6.02	6.06	6.09	6.12	6.15	6.19	6.22	6.25	6.28	6.32	6.32	2027
5.86	5.89	5.92	5.96	5.99	6.02	6.06	6.09	6.12	6.15	6.19	6.22	6.25	6.28	6.32	6.32	2028
5.86	5.89	5.92	5.96	5.99	6.02	6.06	6.09	6.12	6.15	6.19	6.22	6.25	6.28	6.32	6.32	2029
5.86	5.89	5.92	5.96	5.99	6.02	6.06	6.09	6.12	6.15	6.19	6.22	6.25	6.28	6.32	6.32	2030
5.86	5.89	5.92	5.96	5.99	6.02	6.06	6.09	6.12	6.15	6.19	6.22	6.25	6.28	6.32	6.32	2031
5.86	5.89	5.92	5.96	5.99	6.02	6.06	6.09	6.12	6.15	6.19	6.22	6.25	6.28	6.32	6.32	2032
5.86	5.89	5.92	5.96	5.99	6.02	6.06	6.09	6.12	6.15	6.19	6.22	6.25	6.28	6.32	6.32	2033
5.86	5.89	5.92	5.96	5.99	6.02	6.06	6.09	6.12	6.15	6.19	6.22	6.25	6.28	6.32	6.32	2034
5.86	5.89	5.92	5.96	5.99	6.02	6.06	6.09	6.12	6.15	6.19	6.22	6.25	6.28	6.32	6.32	2035
5.86	5.89	5.92	5.96	5.99	6.02	6.06	6.09	6.12	6.15	6.19	6.22	6.25	6.28	6.32	6.32	2036
5.86	5.89	5.92	5.96	5.99	6.02	6.06	6.09	6.12	6.15	6.19	6.22	6.25	6.28	6.32	6.32	2037
5.86	5.89	5.92	5.96	5.99	6.02	6.06	6.09	6.12	6.15	6.19	6.22	6.25	6.28	6.32	6.32	2038
5.86	5.89	5.92	5.96	5.99	6.02	6.06	6.09	6.12	6.15	6.19	6.22	6.25	6.28	6.32	6.32	2039
5.86	5.89	5.92	5.96	5.99	6.02	6.06	6.09	6.12	6.15	6.19	6.22	6.25	6.28	6.32	6.32	2040
5.86	5.89	5.92	5.96	5.99	6.02	6.06	6.09	6.12	6.15	6.19	6.22	6.25	6.28	6.32	6.32	2041

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2011 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>
2012	0.60	0.83	1.29	1.75	2.21	2.53	2.85	3.17	3.49	3.81	3.88	3.96	4.03	4.11	4.18
2013	0.52	0.82	1.30	1.78	2.26	2.58	2.91	3.23	3.55	3.88	3.96	4.04	4.11	4.19	4.27
2014	2.12	2.31	2.65	2.99	3.33	3.58	3.84	4.09	4.35	4.60	4.66	4.73	4.79	4.86	4.92
2015	3.71	3.83	4.06	4.29	4.52	4.66	4.81	4.96	5.10	5.25	5.29	5.34	5.38	5.42	5.46
2016	4.39	4.47	4.67	4.87	5.07	5.19	5.31	5.42	5.54	5.66	5.69	5.73	5.76	5.79	5.82
2017	4.49	4.56	4.76	4.96	5.16	5.27	5.39	5.51	5.63	5.75	5.78	5.81	5.84	5.87	5.90
2018	4.49	4.56	4.76	4.96	5.16	5.27	5.39	5.51	5.63	5.75	5.78	5.81	5.84	5.87	5.90
2019	4.49	4.56	4.76	4.96	5.16	5.27	5.39	5.51	5.63	5.75	5.78	5.81	5.84	5.87	5.90
2020	4.49	4.56	4.76	4.96	5.16	5.27	5.39	5.51	5.63	5.75	5.78	5.81	5.84	5.87	5.90
2021	4.49	4.56	4.76	4.96	5.16	5.27	5.39	5.51	5.63	5.75	5.78	5.81	5.84	5.87	5.90
2022	4.49	4.56	4.76	4.96	5.16	5.27	5.39	5.51	5.63	5.75	5.78	5.81	5.84	5.87	5.90
2023	4.49	4.56	4.76	4.96	5.16	5.27	5.39	5.51	5.63	5.75	5.78	5.81	5.84	5.87	5.90
2024	4.49	4.56	4.76	4.96	5.16	5.27	5.39	5.51	5.63	5.75	5.78	5.81	5.84	5.87	5.90
2025	4.49	4.56	4.76	4.96	5.16	5.27	5.39	5.51	5.63	5.75	5.78	5.81	5.84	5.87	5.90
2026	4.49	4.56	4.76	4.96	5.16	5.27	5.39	5.51	5.63	5.75	5.78	5.81	5.84	5.87	5.90
2027	4.49	4.56	4.76	4.96	5.16	5.27	5.39	5.51	5.63	5.75	5.78	5.81	5.84	5.87	5.90
2028	4.49	4.56	4.76	4.96	5.16	5.27	5.39	5.51	5.63	5.75	5.78	5.81	5.84	5.87	5.90
2029	4.49	4.56	4.76	4.96	5.16	5.27	5.39	5.51	5.63	5.75	5.78	5.81	5.84	5.87	5.90
2030	4.49	4.56	4.76	4.96	5.16	5.27	5.39	5.51	5.63	5.75	5.78	5.81	5.84	5.87	5.90
2031	4.49	4.56	4.76	4.96	5.16	5.27	5.39	5.51	5.63	5.75	5.78	5.81	5.84	5.87	5.90
2032	4.49	4.56	4.76	4.96	5.16	5.27	5.39	5.51	5.63	5.75	5.78	5.81	5.84	5.87	5.90
2033	4.49	4.56	4.76	4.96	5.16	5.27	5.39	5.51	5.63	5.75	5.78	5.81	5.84	5.87	5.90
2034	4.49	4.56	4.76	4.96	5.16	5.27	5.39	5.51	5.63	5.75	5.78	5.81	5.84	5.87	5.90
2035	4.49	4.56	4.76	4.96	5.16	5.27	5.39	5.51	5.63	5.75	5.78	5.81	5.84	5.87	5.90
2036	4.49	4.56	4.76	4.96	5.16	5.27	5.39	5.51	5.63	5.75	5.78	5.81	5.84	5.87	5.90
2037	4.49	4.56	4.76	4.96	5.16	5.27	5.39	5.51	5.63	5.75	5.78	5.81	5.84	5.87	5.90
2038	4.49	4.56	4.76	4.96	5.16	5.27	5.39	5.51	5.63	5.75	5.78	5.81	5.84	5.87	5.90
2039	4.49	4.56	4.76	4.96	5.16	5.27	5.39	5.51	5.63	5.75	5.78	5.81	5.84	5.87	5.90
2040	4.49	4.56	4.76	4.96	5.16	5.27	5.39	5.51	5.63	5.75	5.78	5.81	5.84	5.87	5.90
2041	4.49	4.56	4.76	4.96	5.16	5.27	5.39	5.51	5.63	5.75	5.78	5.81	5.84	5.87	5.90

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2011 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>
4.26	4.33	4.41	4.48	4.56	4.63	4.71	4.78	4.86	4.93	5.01	5.08	5.16	5.23	5.31	5.31	2012
4.35	4.42	4.50	4.58	4.66	4.73	4.81	4.89	4.97	5.04	5.12	5.20	5.28	5.36	5.43	5.43	2013
4.98	5.05	5.11	5.18	5.24	5.31	5.37	5.43	5.50	5.56	5.63	5.69	5.76	5.82	5.88	5.88	2014
5.50	5.54	5.58	5.63	5.67	5.71	5.75	5.79	5.83	5.88	5.92	5.96	6.00	6.04	6.08	6.08	2015
5.85	5.88	5.91	5.95	5.98	6.01	6.04	6.07	6.10	6.14	6.17	6.20	6.23	6.26	6.29	6.29	2016
5.93	5.96	5.99	6.02	6.05	6.08	6.11	6.14	6.17	6.20	6.24	6.27	6.30	6.33	6.36	6.36	2017
5.93	5.96	5.99	6.02	6.05	6.08	6.11	6.14	6.17	6.20	6.24	6.27	6.30	6.33	6.36	6.36	2018
5.93	5.96	5.99	6.02	6.05	6.08	6.11	6.14	6.17	6.20	6.24	6.27	6.30	6.33	6.36	6.36	2019
5.93	5.96	5.99	6.02	6.05	6.08	6.11	6.14	6.17	6.20	6.24	6.27	6.30	6.33	6.36	6.36	2020
5.93	5.96	5.99	6.02	6.05	6.08	6.11	6.14	6.17	6.20	6.24	6.27	6.30	6.33	6.36	6.36	2021
5.93	5.96	5.99	6.02	6.05	6.08	6.11	6.14	6.17	6.20	6.24	6.27	6.30	6.33	6.36	6.36	2022
5.93	5.96	5.99	6.02	6.05	6.08	6.11	6.14	6.17	6.20	6.24	6.27	6.30	6.33	6.36	6.36	2023
5.93	5.96	5.99	6.02	6.05	6.08	6.11	6.14	6.17	6.20	6.24	6.27	6.30	6.33	6.36	6.36	2024
5.93	5.96	5.99	6.02	6.05	6.08	6.11	6.14	6.17	6.20	6.24	6.27	6.30	6.33	6.36	6.36	2025
5.93	5.96	5.99	6.02	6.05	6.08	6.11	6.14	6.17	6.20	6.24	6.27	6.30	6.33	6.36	6.36	2026
5.93	5.96	5.99	6.02	6.05	6.08	6.11	6.14	6.17	6.20	6.24	6.27	6.30	6.33	6.36	6.36	2027
5.93	5.96	5.99	6.02	6.05	6.08	6.11	6.14	6.17	6.20	6.24	6.27	6.30	6.33	6.36	6.36	2028
5.93	5.96	5.99	6.02	6.05	6.08	6.11	6.14	6.17	6.20	6.24	6.27	6.30	6.33	6.36	6.36	2029
5.93	5.96	5.99	6.02	6.05	6.08	6.11	6.14	6.17	6.20	6.24	6.27	6.30	6.33	6.36	6.36	2030
5.93	5.96	5.99	6.02	6.05	6.08	6.11	6.14	6.17	6.20	6.24	6.27	6.30	6.33	6.36	6.36	2031
5.93	5.96	5.99	6.02	6.05	6.08	6.11	6.14	6.17	6.20	6.24	6.27	6.30	6.33	6.36	6.36	2032
5.93	5.96	5.99	6.02	6.05	6.08	6.11	6.14	6.17	6.20	6.24	6.27	6.30	6.33	6.36	6.36	2033
5.93	5.96	5.99	6.02	6.05	6.08	6.11	6.14	6.17	6.20	6.24	6.27	6.30	6.33	6.36	6.36	2034
5.93	5.96	5.99	6.02	6.05	6.08	6.11	6.14	6.17	6.20	6.24	6.27	6.30	6.33	6.36	6.36	2035
5.93	5.96	5.99	6.02	6.05	6.08	6.11	6.14	6.17	6.20	6.24	6.27	6.30	6.33	6.36	6.36	2036
5.93	5.96	5.99	6.02	6.05	6.08	6.11	6.14	6.17	6.20	6.24	6.27	6.30	6.33	6.36	6.36	2037
5.93	5.96	5.99	6.02	6.05	6.08	6.11	6.14	6.17	6.20	6.24	6.27	6.30	6.33	6.36	6.36	2038
5.93	5.96	5.99	6.02	6.05	6.08	6.11	6.14	6.17	6.20	6.24	6.27	6.30	6.33	6.36	6.36	2039
5.93	5.96	5.99	6.02	6.05	6.08	6.11	6.14	6.17	6.20	6.24	6.27	6.30	6.33	6.36	6.36	2040
5.93	5.96	5.99	6.02	6.05	6.08	6.11	6.14	6.17	6.20	6.24	6.27	6.30	6.33	6.36	6.36	2041

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2011 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

<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>
2012	0.44	0.61	0.92	1.23	1.55	1.80	2.05	2.30	2.55	2.80	2.87	2.93	3.00	3.07	3.13
2013	0.39	0.60	0.93	1.25	1.58	1.83	2.09	2.34	2.60	2.85	2.92	2.99	3.06	3.13	3.20
2014	1.34	1.56	1.80	2.05	2.29	2.51	2.72	2.94	3.16	3.37	3.43	3.49	3.55	3.61	3.67
2015	2.44	2.59	2.76	2.93	3.10	3.24	3.38	3.52	3.65	3.79	3.83	3.87	3.91	3.95	3.98
2016	2.90	3.02	3.17	3.32	3.47	3.59	3.71	3.83	3.95	4.07	4.10	4.13	4.16	4.19	4.22
2017	2.97	3.08	3.23	3.38	3.53	3.65	3.77	3.89	4.01	4.13	4.16	4.19	4.22	4.25	4.28
2018	2.97	3.08	3.23	3.38	3.53	3.65	3.77	3.89	4.01	4.13	4.16	4.19	4.22	4.25	4.28
2019	2.97	3.08	3.23	3.38	3.53	3.65	3.77	3.89	4.01	4.13	4.16	4.19	4.22	4.25	4.28
2020	2.97	3.08	3.23	3.38	3.53	3.65	3.77	3.89	4.01	4.13	4.16	4.19	4.22	4.25	4.28
2021	2.97	3.08	3.23	3.38	3.53	3.65	3.77	3.89	4.01	4.13	4.16	4.19	4.22	4.25	4.28
2022	2.97	3.08	3.23	3.38	3.53	3.65	3.77	3.89	4.01	4.13	4.16	4.19	4.22	4.25	4.28
2023	2.97	3.08	3.23	3.38	3.53	3.65	3.77	3.89	4.01	4.13	4.16	4.19	4.22	4.25	4.28
2024	2.97	3.08	3.23	3.38	3.53	3.65	3.77	3.89	4.01	4.13	4.16	4.19	4.22	4.25	4.28
2025	2.97	3.08	3.23	3.38	3.53	3.65	3.77	3.89	4.01	4.13	4.16	4.19	4.22	4.25	4.28
2026	2.97	3.08	3.23	3.38	3.53	3.65	3.77	3.89	4.01	4.13	4.16	4.19	4.22	4.25	4.28
2027	2.97	3.08	3.23	3.38	3.53	3.65	3.77	3.89	4.01	4.13	4.16	4.19	4.22	4.25	4.28
2028	2.97	3.08	3.23	3.38	3.53	3.65	3.77	3.89	4.01	4.13	4.16	4.19	4.22	4.25	4.28
2029	2.97	3.08	3.23	3.38	3.53	3.65	3.77	3.89	4.01	4.13	4.16	4.19	4.22	4.25	4.28
2030	2.97	3.08	3.23	3.38	3.53	3.65	3.77	3.89	4.01	4.13	4.16	4.19	4.22	4.25	4.28
2031	2.97	3.08	3.23	3.38	3.53	3.65	3.77	3.89	4.01	4.13	4.16	4.19	4.22	4.25	4.28
2032	2.97	3.08	3.23	3.38	3.53	3.65	3.77	3.89	4.01	4.13	4.16	4.19	4.22	4.25	4.28
2033	2.97	3.08	3.23	3.38	3.53	3.65	3.77	3.89	4.01	4.13	4.16	4.19	4.22	4.25	4.28
2034	2.97	3.08	3.23	3.38	3.53	3.65	3.77	3.89	4.01	4.13	4.16	4.19	4.22	4.25	4.28
2035	2.97	3.08	3.23	3.38	3.53	3.65	3.77	3.89	4.01	4.13	4.16	4.19	4.22	4.25	4.28
2036	2.97	3.08	3.23	3.38	3.53	3.65	3.77	3.89	4.01	4.13	4.16	4.19	4.22	4.25	4.28
2037	2.97	3.08	3.23	3.38	3.53	3.65	3.77	3.89	4.01	4.13	4.16	4.19	4.22	4.25	4.28
2038	2.97	3.08	3.23	3.38	3.53	3.65	3.77	3.89	4.01	4.13	4.16	4.19	4.22	4.25	4.28
2039	2.97	3.08	3.23	3.38	3.53	3.65	3.77	3.89	4.01	4.13	4.16	4.19	4.22	4.25	4.28
2040	2.97	3.08	3.23	3.38	3.53	3.65	3.77	3.89	4.01	4.13	4.16	4.19	4.22	4.25	4.28
2041	2.97	3.08	3.23	3.38	3.53	3.65	3.77	3.89	4.01	4.13	4.16	4.19	4.22	4.25	4.28

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2011 Forecast, Base Case.

Table 10
BPA FY 2012 Third-Party Tax-Exempt 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>
3.20	3.26	3.33	3.40	3.46	3.53	3.60	3.66	3.73	3.80	3.86	3.93	3.99	4.06	4.13	4.13	2012
3.26	3.33	3.40	3.47	3.54	3.61	3.68	3.75	3.81	3.88	3.95	4.02	4.09	4.16	4.23	4.23	2013
3.73	3.79	3.85	3.91	3.97	4.03	4.09	4.15	4.21	4.27	4.33	4.39	4.45	4.51	4.57	4.57	2014
4.02	4.06	4.10	4.14	4.18	4.22	4.26	4.29	4.33	4.37	4.41	4.45	4.49	4.53	4.56	4.56	2015
4.25	4.28	4.31	4.34	4.37	4.40	4.43	4.46	4.49	4.52	4.55	4.58	4.61	4.64	4.67	4.67	2016
4.30	4.33	4.36	4.39	4.42	4.45	4.48	4.51	4.54	4.57	4.59	4.62	4.65	4.68	4.71	4.71	2017
4.30	4.33	4.36	4.39	4.42	4.45	4.48	4.51	4.54	4.57	4.59	4.62	4.65	4.68	4.71	4.71	2018
4.30	4.33	4.36	4.39	4.42	4.45	4.48	4.51	4.54	4.57	4.59	4.62	4.65	4.68	4.71	4.71	2019
4.30	4.33	4.36	4.39	4.42	4.45	4.48	4.51	4.54	4.57	4.59	4.62	4.65	4.68	4.71	4.71	2020
4.30	4.33	4.36	4.39	4.42	4.45	4.48	4.51	4.54	4.57	4.59	4.62	4.65	4.68	4.71	4.71	2021
4.30	4.33	4.36	4.39	4.42	4.45	4.48	4.51	4.54	4.57	4.59	4.62	4.65	4.68	4.71	4.71	2022
4.30	4.33	4.36	4.39	4.42	4.45	4.48	4.51	4.54	4.57	4.59	4.62	4.65	4.68	4.71	4.71	2023
4.30	4.33	4.36	4.39	4.42	4.45	4.48	4.51	4.54	4.57	4.59	4.62	4.65	4.68	4.71	4.71	2024
4.30	4.33	4.36	4.39	4.42	4.45	4.48	4.51	4.54	4.57	4.59	4.62	4.65	4.68	4.71	4.71	2025
4.30	4.33	4.36	4.39	4.42	4.45	4.48	4.51	4.54	4.57	4.59	4.62	4.65	4.68	4.71	4.71	2026
4.30	4.33	4.36	4.39	4.42	4.45	4.48	4.51	4.54	4.57	4.59	4.62	4.65	4.68	4.71	4.71	2027
4.30	4.33	4.36	4.39	4.42	4.45	4.48	4.51	4.54	4.57	4.59	4.62	4.65	4.68	4.71	4.71	2028
4.30	4.33	4.36	4.39	4.42	4.45	4.48	4.51	4.54	4.57	4.59	4.62	4.65	4.68	4.71	4.71	2029
4.30	4.33	4.36	4.39	4.42	4.45	4.48	4.51	4.54	4.57	4.59	4.62	4.65	4.68	4.71	4.71	2030
4.30	4.33	4.36	4.39	4.42	4.45	4.48	4.51	4.54	4.57	4.59	4.62	4.65	4.68	4.71	4.71	2031
4.30	4.33	4.36	4.39	4.42	4.45	4.48	4.51	4.54	4.57	4.59	4.62	4.65	4.68	4.71	4.71	2032
4.30	4.33	4.36	4.39	4.42	4.45	4.48	4.51	4.54	4.57	4.59	4.62	4.65	4.68	4.71	4.71	2033
4.30	4.33	4.36	4.39	4.42	4.45	4.48	4.51	4.54	4.57	4.59	4.62	4.65	4.68	4.71	4.71	2034
4.30	4.33	4.36	4.39	4.42	4.45	4.48	4.51	4.54	4.57	4.59	4.62	4.65	4.68	4.71	4.71	2035
4.30	4.33	4.36	4.39	4.42	4.45	4.48	4.51	4.54	4.57	4.59	4.62	4.65	4.68	4.71	4.71	2036
4.30	4.33	4.36	4.39	4.42	4.45	4.48	4.51	4.54	4.57	4.59	4.62	4.65	4.68	4.71	4.71	2037
4.30	4.33	4.36	4.39	4.42	4.45	4.48	4.51	4.54	4.57	4.59	4.62	4.65	4.68	4.71	4.71	2038
4.30	4.33	4.36	4.39	4.42	4.45	4.48	4.51	4.54	4.57	4.59	4.62	4.65	4.68	4.71	4.71	2039
4.83	4.86	4.88	4.91	4.94	4.97	5.00	5.03	5.06	5.09	5.12	5.15	5.17	5.20	4.71	4.71	2040
4.48	4.51	4.54	4.57	4.59	4.62	4.65	4.68	4.71	4.74	4.77	4.80	4.83	4.86	4.71	4.71	2041

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2011 Forecast, Base Case.

Table 11
BPA FY 2012 FERC Borrowing Rate (Bank Prime) Forecast 1/

Calendar/Fiscal Years 2012-2041

<u>Year</u>	<u>A FERC Rate Calendar Year</u>	<u>B FERC Rate Fiscal Year</u>
2012	3.25	3.25
2013	3.25	3.25
2014	4.23	3.99
2015	6.27	5.76
2016	7.00	6.82
2017	7.00	7.00
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

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

Table 12
BPA FY 2012 May 3-Month LIBOR Rate Forecast 1/

Calendar/Fiscal Years 2012-2041

<u>Year</u>	<u>A</u> 3-Mo LIBOR <u>Calendar Year</u>	<u>B</u> 3-Mo LIBOR <u>Fiscal Year</u>
2012	0.31	0.30
2013	0.31	0.31
2014	1.54	1.23
2015	3.58	3.07
2016	4.25	4.08
2017	4.25	4.25
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

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

Table 13
Comparison of FY 2012 Inflation Forecast Components
 Calendar/Fiscal Year Forecasts 2012 vs. 2011

Calendar/Fiscal Years 2012-2041							
	A	B	C	D	E	F	G
	CY 2012 1/ Calendar Year GDP Price <u>Deflator</u> (%)	FY 2012 1/ Fiscal Year GDP Price <u>Deflator</u> (%)	FY 2012 2/ Fiscal Year Cumulative <u>Price Deflator</u> (Base Year 2012)	FY 2011 3/ Fiscal Year FY Price <u>Deflator</u> (%)	FY 2011 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>							
2012	0.96%	1.22%	1.006	1.36%	1.0194	-0.14%	-0.0133
2013	1.44%	1.32%	1.018	1.59%	1.0356	-0.27%	-0.0173
2014	1.86%	1.76%	1.032	1.82%	1.0544	-0.06%	-0.0226
2015	1.89%	1.88%	1.050	1.84%	1.0739	0.04%	-0.0239
2016	1.87%	1.88%	1.070	1.79%	1.0931	0.08%	-0.0234
2017	1.82%	1.83%	1.090	1.83%	1.1131	0.00%	-0.0233
2018	1.75%	1.76%	1.110	1.89%	1.1342	-0.13%	-0.0244
2019	1.67%	1.69%	1.129	1.87%	1.1554	-0.18%	-0.0261
2020	1.65%	1.65%	1.148	1.88%	1.1771	-0.23%	-0.0287
2021	1.63%	1.63%	1.167	1.84%	1.1987	-0.21%	-0.0313
2022	1.66%	1.66%	1.186	1.74%	1.2196	-0.08%	-0.0331
2023	1.67%	1.67%	1.206	1.71%	1.2404	-0.04%	-0.0343
2024	1.67%	1.67%	1.226	1.72%	1.2617	-0.05%	-0.0355
2025	1.68%	1.68%	1.247	1.71%	1.2834	-0.04%	-0.0366
2026	1.72%	1.71%	1.268	1.72%	1.3055	-0.01%	-0.0378
2027	1.72%	1.72%	1.289	1.76%	1.3284	-0.04%	-0.0391
2028	1.73%	1.73%	1.312	1.80%	1.3523	-0.07%	-0.0408
2029	1.76%	1.76%	1.334	1.79%	1.3765	-0.04%	-0.0423
2030	1.78%	1.77%	1.358	1.78%	1.4011	-0.01%	-0.0434
2031	1.82%	1.81%	1.382	1.77%	1.4259	0.04%	-0.0442
2032	1.81%	1.82%	1.407	1.79%	1.4513	0.03%	-0.0446
2033	1.81%	1.81%	1.432	1.78%	1.4772	0.03%	-0.0449
2034	1.83%	1.83%	1.458	1.77%	1.5034	0.06%	-0.0451
2035	1.78%	1.80%	1.485	1.75%	1.5298	0.04%	-0.0449
2036	1.73%	1.75%	1.512	1.77%	1.5568	-0.02%	-0.0452
2037	1.73%	1.73%	1.538	1.80%	1.5848	-0.07%	-0.0468
2038	1.75%	1.74%	1.565	1.86%	1.6143	-0.12%	-0.0497
2039	1.77%	1.76%	1.592	1.81%	1.6435	-0.05%	-0.0516
2040	1.76%	1.76%	1.620	1.81%	1.6733	-0.05%	-0.0534
2041	1.77%	1.76%	1.648			1.76%	1.6485

1/ BPA FY 2012 Forecast: Global Insight CY 2011.Q3 long-term outlook. The U.S. Economy: 30-Year Focus, September 2011 Forecast, Base Case.

2/ Fiscal Year Cumulative Price Deflator escalates to midyear dollars. The first year, 2012, is determined as follows: $1.007 = ((1.32/100) * .5) + 1$. An example of subsequent year cumulative growth such as in 2013 is found as: $1.020 = (1 + (1.84/100)) * 1.006$

2/ Global Insight The U.S. Economy: 30-year Focus, September 2010 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.

Table 7A
BPA Projected Generation Federal Borrowing
FY 2013 - 2015
(\$000s)

	A	B	C	D	
FY		Interest		Total	
<u>Year</u>	<u>Description</u>	<u>Rate</u>	<u>Term</u>	<u>Borrowing</u>	
1	2014	Reclamation/COE	4.00%	30	22,664
2		Reclamation/COE	4.00%	30	19,048
3		Reclamation/COE	4.00%	30	16,721
4		Reclamation/COE	4.00%	30	17,589
5		Reclamation/COE	4.00%	30	19,910
6		Reclamation/COE	4.00%	30	22,714
7		Reclamation/COE	4.00%	30	19,422
8		Reclamation/COE	4.00%	30	14,393
9		Reclamation/COE	4.00%	30	21,153
10		Reclamation/COE	4.00%	30	21,533
11		Reclamation/COE	4.00%	30	23,378
12		Reclamation/COE	4.00%	30	24,819
13		Conservation	3.50%	12	13,835
14		Conservation	3.50%	12	22,187
15		Conservation	3.50%	12	23,587
16		Conservation	3.50%	12	15,591
17		Construction (Capital Equip)	2.60%	6	3,288
18		Construction (Capital Equip)	2.60%	6	3,021
19		Construction (Capital Equip)	2.60%	6	2,819
20		Construction (Capital Equip)	2.60%	6	3,502
21		Fish and Wildlife	3.70%	15	10,058
22		Fish and Wildlife	3.70%	15	13,488
23		Fish and Wildlife	3.70%	15	24,875
24		Fish and Wildlife	3.70%	15	11,854
25					391,449
26					

Table 7A
BPA Projected Generation Federal Borrowing
FY 2013 - 2015
(\$000s)

27	FY	A	B	C	D
28	<u>Year</u>		<u>Interest</u>		<u>Total</u>
29	2015	<u>Description</u>	<u>Rate</u>	<u>Term</u>	<u>Borrowing</u>
30		Reclamation/COE	4.90%	30	17,279
31		Reclamation/COE	4.90%	30	20,771
32		Reclamation/COE	4.90%	30	22,258
33		Reclamation/COE	4.90%	30	18,719
34		Reclamation/COE	4.90%	30	16,427
35		Reclamation/COE	4.90%	30	19,561
36		Reclamation/COE	4.90%	30	19,561
37		Reclamation/COE	4.90%	30	19,077
38		Reclamation/COE	4.90%	30	21,140
39		Reclamation/COE	4.90%	30	22,958
40		Reclamation/COE	4.90%	30	24,368
41		Reclamation/COE	4.90%	30	14,135
42		Conservation	4.400%	12	19,074
43		Conservation	4.400%	12	28,856
44		Conservation	4.400%	12	27,144
45		Conservation	4.400%	12	16,926
46		Construction (Capital Equip)	3.900%	6	3,368
47		Construction (Capital Equip)	3.900%	6	3,587
48		Construction (Capital Equip)	3.900%	6	3,094
49		Construction (Capital Equip)	3.900%	6	2,887
50		Fish and Wildlife	4.500%	15	6,976
51		Fish and Wildlife	4.500%	15	17,254
52		Fish and Wildlife	4.500%	15	8,222
53		Fish and Wildlife	4.500%	15	9,356
54					382,998

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.. Projected CGS capital investments are identified in Table 8B. The non-Federal debt service displayed in the revenue requirement is net of revenues expected from the Tennessee Valley Authority for the purchase of nuclear fuel from EN. The expected revenues are identified in Table 8C. Debt service streams are derived from such sources as Official Statements, Agency agreements, Agency contracts, and budgetary data.

Table 8A

**Capitalized Contract Expense
(\$000s)**

	A	B	C	D	F	G	H	I	
	Fiscal Year	WNP-1	CGS	WNP-2	CARES	Tacoma	Wasco	Cowlitz	Total
1	2013	238,021	98,335	172,895	547	1,872	1,890	11,709	525,269
2	2014	249,161	105,935	165,932	546	1,872	1,931	7,114	532,491
3	2015	185,460	136,304	165,403	-	312	1,929	7,122	496,530
4	2016	244,506	118,672	215,070	-	-	1,931	7,118	587,297
5	2017	189,602	177,552	254,884	-	-	1,935	7,118	631,091
6	2018	-	397,106	345,481	-	-	1,934	7,120	751,641
7	2019	-	528,299	(890)	-	-	1,932	7,119	536,460
8	2020	-	463,693	-	-	-	1,937	7,119	472,749
9	2021	-	457,166	-	-	-	1,948	7,120	466,234
10	2022	-	437,094	-	-	-	1,950	7,123	446,167
11	2023	-	391,958	-	-	-	1,947	7,119	401,024
12	2024	-	322,203	-	-	-	1,947	7,121	331,271
13	2025	-	104,427	-	-	-	325	7,121	111,873
14	2026	-	112,003	-	-	-	-	7,120	119,123
15	2027	-	111,690	-	-	-	-	7,122	118,812
16	2028	-	107,961	-	-	-	-	7,121	115,082
17	Total	1,106,750	4,070,398	1,318,775	1,093	4,056	23,536	118,506	6,643,114

Table 8B**CGS New Investment
(\$000s)**

	A	B	C	D
	Fiscal Year	<u>Principal</u>	<u>Interest</u>	Total Debt <u>Service</u>
1	2013	-	1,428	1,428
2	2014	-	3,995	3,995
3	2015	-	6,414	6,414
4	2016	-	9,024	9,024
5	2017	-	11,907	11,907
6	2018	4,408	14,637	19,045
7	2019	18,374	17,260	35,634
8	2020	21,219	19,508	40,727
9	2021	23,822	21,443	45,265
10	2022	26,671	23,182	49,853
11	2023	29,647	25,276	54,923
12	2024	33,580	27,818	61,398
13	2025	37,677	30,326	68,003
14	2026	42,360	32,435	74,795
15	2027	47,139	34,474	81,613
16	2028	<u>53,089</u>	<u>36,418</u>	<u>89,507</u>
17	Total	337,986	315,545	653,531

Table 8C

**Revenue Offset to CGS Debt Service
(\$000s)**

	A	B
	<u>Fiscal Year</u>	<u>Revenue</u>
1	2014	(17,510)
2	2015	(58,618)

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	58,823
2	2013 Total:		58,823
3	2014	Columbia Basin	52,427
4	2014 Total:		52,427
5	2015	Columbia Basin	51,989
6	2015 Total:		51,989
7	2016	Columbia Basin	60,814
8	2016 Total:		60,814
9	2017	Columbia Basin	49,127
10		Greater Wenatchee	1,078
11		Yakima, Roza	1,073
12	2017 Total:		51,278
13	2018	Columbia Basin	26,052
14		Foster Creek	770
15		Yakima, Roza	684
16	2018 Total:		27,505
17	2019	Columbia Basin	51,266
18		FosterCreek	2,081
19		Michaud Flats	2,081
20		Michaud-Fort Hall	1,116
21		Yaklma,Roza	564
22	2019 Total:		57,107
23	2020	Columbia Basin	22,168
24		Crooked River	2,380
25	2020 Total:		24,547
26	2021	Columbia Basin	10,121
27		Yakirna, Roza	2,087
28	2021 Total:		12,208
29	2022	Columbia Basin	13,737
30		Yakima, Rosa	623
31	2022 Total:		14,360
32	2023	Columbia Basin	9,857
33		Rogue River	3,092
34	2023 Total:		12,949
35	2024	Columbia Basin	7,859
36		Greater Wenatchee	1,961
37		Yakirna, Kennewick	5,308
38	2024 Total:		15,127
39	2025	Columbia Basin	12,551
40		Crooked River Ext	1,172
41	2025 Total:		13,723
42	2026	Columbia Basin	13,018
43		Greater Wenatchee	930
44		Whitestone Coulee Unit	3,810
45		Yakima, Rosa	3,180
46	2026 Total:		20,938

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

	A	B	C
	Fiscal Year Due	Project	Amount
47	2027	Columbia Basin	3,965
48		Rogue River	<u>2,222</u>
49	2027 Total:		6,187
50	2028	Columbia Basin	7,055
51		The Dalles	<u>4,204</u>
52	2028 Total:		11,259
53	2029	Baker	<u>4,065</u>
54	2029 Total:		4,065
55	2030	East Greenacres	<u>2,035</u>
56	2030 Total:		2,035
57	2031	Columbia Basin	<u>10,634</u>
58	2031 Total:		10,634
59	2033	Rogue River	<u>4,348</u>
60	2033 Total:		4,348
61	2035	Columbia Basin	<u>7,843</u>
62	2035 Total:		7,843
63	2036	Manson Unit	16,163
64		Tualatin	9,098
65		Whitestone Coulee Unit	<u>3,660</u>
66	2036 Total:		28,921
67	2037	Columbia Basin	12,193
68		East Greenacres	<u>4,039</u>
69	2037 Total:		16,232
70	2039	Tualatin	14,229
71	2039 Total:		14,229
72	2042	Oroville Tonasket	<u>73,659</u>
73	2042 Total:		73,659
74	2045	Columbia Basin	<u>11,700</u>
75	2045 Total:		11,700
	Grand Total:		<u>664,908</u>

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

10. REPLACEMENTS PROJECTED AFTER THE COST EVALUATION PERIOD

10.1 Introduction

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

10.2 Methodology

The repayment study incorporates a schedule of Federal investment with the replacements that are expected to occur over the repayment period for existing generation projects. This schedule, expressed in mid-year dollars for each repayment study, FY 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	4.870%	2060
4	2016	187,748	4.870%	2061
5	2017	181,331	4.870%	2062
6	2018	182,180	4.870%	2063
7	2019	179,674	4.870%	2064
8	2020	177,244	4.870%	2065
9	2021	175,579	4.870%	2066
10	2022	168,627	4.870%	2067
11	2023	168,627	4.870%	2068
12	2024	168,627	4.870%	2069
13	2025	168,627	4.870%	2070
14	2026	168,627	4.870%	2071
15	2027	168,627	4.870%	2072
16	2028	168,627	4.870%	2073
17	2029	168,627	4.870%	2074
18	2030	168,627	4.870%	2075
19	2031	168,627	4.870%	2076
20	2032	168,627	4.870%	2077
21	2033	168,627	4.870%	2078
22	2034	168,627	4.870%	2079
23	2035	168,627	4.870%	2080
24	2036	168,627	4.870%	2081
25	2037	168,627	4.870%	2082
26	2038	168,627	4.870%	2083
27	2039	168,627	4.870%	2084
28	2040	168,627	4.870%	2085
29	2041	168,627	4.870%	2086
30	2042	168,627	4.870%	2087
31	2043	168,627	4.870%	2088
32	2044	168,627	4.870%	2089
33	2045	168,627	4.870%	2090
34	2046	168,627	4.870%	2091
35	2047	168,627	4.870%	2092
36	2048	168,627	4.870%	2093
37	2049	168,627	4.870%	2094
38	2050	168,627	4.870%	2095
39	2051	168,627	4.870%	2096
40	2052	168,627	4.870%	2097
41	2053	168,627	4.870%	2098
42	2054	168,627	4.870%	2099
43	2055	168,627	4.870%	2100
44	2056	168,627	4.870%	2101
45	2057	168,627	4.870%	2102
46	2058	168,627	4.870%	2103
47	2059	168,627	4.870%	2104
48	2060	168,627	4.870%	2105
49	2061	168,627	4.870%	2106
50	2062	168,627	0.0487	2107
51	2063	168,627	0.0487	2108
52	2064	168,627	4.870%	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**

	Fiscal Year	Total Debt Service
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 FILES, 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
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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
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	5,206	5,206	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
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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
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	27	27	3.750%	2061	2011	9	-	-
380	Columbia Basin	10,919	-	3.000%	1991	1941	9	-	-
381	Columbia Basin	1,505	-	3.000%	1991	1941	9	-	-
382	Columbia Basin	16,165	-	3.000%	1992	1942	9	-	-
383	Columbia Basin	3,011	-	3.000%	1992	1942	9	-	-
384	Columbia Basin	8,083	-	3.000%	1993	1943	9	-	-
385	Columbia Basin	1,505	-	3.000%	1993	1943	9	-	-
386	Columbia Basin	16,165	-	3.000%	1994	1944	9	-	-
387	Columbia Basin	3,011	-	3.000%	1994	1944	9	-	-
388	Columbia Basin	24,247	-	3.000%	1998	1948	9	-	-
389	Columbia Basin	4,516	-	3.000%	1998	1948	9	-	-
390	Columbia Basin	24,247	-	3.000%	1999	1949	9	-	-
391	Columbia Basin	4,516	-	3.000%	1999	1949	9	-	-
392	Columbia Basin	16,165	-	3.000%	2000	1950	9	-	-
393	Columbia Basin	3,011	-	3.000%	2000	1950	9	-	-
394	Columbia Basin	28,255	-	6.710%	2001	1951	9	-	-
395	Columbia Basin	5,790	-	6.710%	2001	1951	9	-	-
396	Columbia Basin	258	-	6.710%	2001	1952	9	-	-
397	Columbia Basin	48	-	6.710%	2001	1952	9	-	-
398	Columbia Basin	258	-	6.710%	2001	1953	9	-	-
399	Columbia Basin	48	-	6.710%	2001	1953	9	-	-
400	Columbia Basin	258	-	6.710%	2001	1954	9	-	-
401	Columbia Basin	48	-	6.710%	2001	1954	9	-	-
402	Columbia Basin	258	-	6.710%	2001	1955	9	-	-
403	Columbia Basin	48	-	6.710%	2001	1955	9	-	-
404	Columbia Basin	259	-	6.710%	2001	1956	9	-	-
405	Columbia Basin	48	-	6.710%	2001	1956	9	-	-
406	Columbia Basin	258	-	6.710%	2001	1957	9	-	-
407	Columbia Basin	48	-	6.710%	2001	1957	9	-	-
408	Columbia Basin	258	-	6.710%	2001	1958	9	-	-
409	Columbia Basin	48	-	6.710%	2001	1958	9	-	-
410	Columbia Basin	258	-	6.710%	2001	1959	9	-	-
411	Columbia Basin	48	-	6.710%	2001	1959	9	-	-
412	Columbia Basin	258	-	6.710%	2001	1960	9	-	-
413	Columbia Basin	48	-	6.710%	2001	1960	9	-	-
414	Columbia Basin	259	-	6.710%	2001	1961	9	-	-
415	Columbia Basin	48	-	6.710%	2001	1961	9	-	-
416	Columbia Basin	258	-	6.710%	2001	1962	9	-	-
417	Columbia Basin	48	-	6.710%	2001	1962	9	-	-
418	Columbia Basin	258	-	6.710%	2001	1963	9	-	-
419	Columbia Basin	48	-	6.710%	2001	1963	9	-	-
420	Columbia Basin	258	-	6.710%	2001	1964	9	-	-
421	Columbia Basin	48	-	6.710%	2001	1964	9	-	-
422	Columbia Basin	258	-	6.710%	2001	1965	9	-	-
423	Columbia Basin	48	-	6.710%	2001	1965	9	-	-
424	Columbia Basin	259	-	6.710%	2001	1966	9	-	-
425	Columbia Basin	48	-	6.710%	2001	1966	9	-	-
426	Columbia Basin	258	-	6.710%	2001	1967	9	-	-
427	Columbia Basin	48	-	6.710%	2001	1967	9	-	-
428	Columbia Basin	758	-	7.290%	2017	1967	9	-	-
429	Columbia Basin	258	-	6.710%	2001	1968	9	-	-
430	Columbia Basin	48	-	6.710%	2001	1968	9	-	-
431	Columbia Basin	258	-	6.710%	2001	1969	9	-	-
432	Columbia Basin	48	-	6.710%	2001	1969	9	-	-
433	Columbia Basin	258	-	6.710%	2001	1970	9	-	-
434	Columbia Basin	48	-	6.710%	2001	1970	9	-	-
435	Columbia Basin	259	-	6.710%	2001	1971	9	-	-
436	Columbia Basin	48	-	6.710%	2001	1971	9	-	-
437	Columbia Basin	258	-	6.710%	2001	1972	9	-	-
438	Columbia Basin	48	-	6.710%	2001	1972	9	-	-
439	Columbia Basin	258	-	6.710%	2001	1973	9	-	-
440	Columbia Basin	48	-	6.710%	2001	1973	9	-	-
441	Columbia Basin	258	-	6.710%	2001	1974	9	-	-
442	Columbia Basin	48	-	6.710%	2001	1974	9	-	-
443	Columbia Basin	258	-	6.710%	2001	1975	9	-	-
444	Columbia Basin	48	-	6.710%	2001	1975	9	-	-
445	Columbia Basin	259	-	6.710%	2001	1976	9	-	-
446	Columbia Basin	48	-	6.710%	2001	1976	9	-	-
447	Columbia Basin	258	-	6.710%	2001	1977	9	-	-
448	Columbia Basin	48	-	6.710%	2001	1977	9	-	-
449	Columbia Basin	258	-	6.710%	2001	1978	9	-	-
450	Columbia Basin	48	-	6.710%	2001	1978	9	-	-

TABLE 11A: HISTORICAL INVESTMENTS
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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
451	Columbia Basin	258	-	6.710%	2001	1979	9	-	-
452	Columbia Basin	48	-	6.710%	2001	1979	9	-	-
453	Columbia Basin	258	-	6.710%	2001	1980	9	-	-
454	Columbia Basin	48	-	6.710%	2001	1980	9	-	-
455	Columbia Basin	259	-	6.710%	2001	1981	9	-	-
456	Columbia Basin	48	-	6.710%	2001	1981	9	-	-
457	Columbia Basin	258	-	6.710%	2001	1982	9	-	-
458	Columbia Basin	48	-	6.710%	2001	1982	9	-	-
459	Columbia Basin	258	-	6.710%	2001	1983	9	-	-
460	Columbia Basin	48	-	6.710%	2001	1983	9	-	-
461	Columbia Basin	7,815	-	10.750%	2001	1984	9	-	-
462	Columbia Basin	1,455	-	10.750%	2001	1984	9	-	-
463	Columbia Basin	236	-	6.710%	2001	1985	9	-	-
464	Columbia Basin	11	-	6.710%	2001	1985	9	-	-
465	Columbia Basin	7,338	-	12.375%	2001	1985	9	-	-
466	Columbia Basin	362	-	12.375%	2001	1985	9	-	-
467	Columbia Basin	127	-	6.710%	2001	1986	9	-	-
468	Columbia Basin	13	-	6.710%	2001	1987	9	-	-
469	Columbia Basin	184	-	8.500%	2001	1988	9	-	-
470	Columbia Basin	2	-	8.500%	2001	1988	9	-	-
471	Columbia Basin	1,166	-	9.250%	2001	1989	9	-	-
472	Columbia Basin	928	-	8.875%	2001	1990	9	-	-
473	Columbia Basin	177	-	8.750%	2001	1991	9	-	-
474	Columbia Basin	1,661	-	8.750%	2001	1991	9	-	-
475	Columbia Basin	445	-	8.500%	2001	1992	9	-	-
476	Columbia Basin	652	-	8.500%	2001	1992	9	-	-
477	Columbia Basin	792	-	6.710%	2001	1993	9	-	-
478	Columbia Basin	25	-	6.620%	2000	1995	9	-	-
479	Columbia Basin	206	-	7.250%	2020	1995	9	-	-
480	Columbia Basin	25	-	7.150%	2030	1995	9	-	-
481	Columbia Basin	20	-	7.860%	2030	1995	9	-	-
482	Columbia Basin	270	-	7.860%	2030	1995	9	-	-
483	Columbia Basin	321	-	7.860%	2030	1995	9	-	-
484	Columbia Basin	323	-	7.860%	2030	1995	9	-	-
485	Columbia Basin	287	287	7.150%	2045	1995	9	-	-
486	Columbia Basin	2,511	2,453	7.150%	2045	1995	9	-	-
487	Columbia Basin	450	-	7.860%	2045	1995	9	-	-
488	Columbia Basin	450	-	7.860%	2045	1995	9	-	-
489	Columbia Basin	72	72	7.150%	2026	1996	9	-	-
490	Columbia Basin	109	109	7.150%	2031	1996	9	-	-
491	Columbia Basin	251	251	7.150%	2031	1996	9	-	-
492	Columbia Basin	426	426	7.150%	2046	1996	9	-	-
493	Columbia Basin	368	368	7.150%	2046	1996	9	-	-
494	Columbia Basin	3,393	3,393	7.150%	2047	1997	9	-	-
495	Columbia Basin	69,226	69,226	5.875%	2051	2001	9	-	-
496	Columbia Basin	10,963	10,963	5.125%	2055	2005	9	-	-
497	Columbia Basin	1,987	1,987	4.500%	2056	2006	9	-	-
498	Columbia Basin	929	929	5.000%	2057	2007	9	-	-
499	Columbia Basin	835	835	4.875%	2058	2008	9	-	-
500	Columbia Basin	1,338	1,338	4.375%	2059	2009	9	-	-
501	Columbia Basin	877	877	4.250%	2060	2010	9	-	-
502	Columbia Basin	1,740	1,740	3.750%	2061	2011	9	-	-
503	Columbia Basin 3rd Powerhouse	47,328	36,690	7.160%	2025	1975	9	-	-
504	Columbia Basin 3rd Powerhouse	8,702	7,435	7.160%	2025	1975	9	-	-
505	Columbia Basin 3rd Powerhouse	41,330	41,330	7.150%	2026	1976	9	-	-
506	Columbia Basin 3rd Powerhouse	8,037	8,037	7.150%	2026	1976	9	-	-
507	Columbia Basin 3rd Powerhouse	42,764	42,764	7.150%	2027	1977	9	-	-
508	Columbia Basin 3rd Powerhouse	7,964	7,964	7.150%	2027	1977	9	-	-
509	Columbia Basin 3rd Powerhouse	42,399	42,399	7.150%	2028	1978	9	-	-
510	Columbia Basin 3rd Powerhouse	7,896	7,896	7.150%	2028	1978	9	-	-
511	Columbia Basin 3rd Powerhouse	84,118	84,118	7.150%	2029	1979	9	-	-
512	Columbia Basin 3rd Powerhouse	15,666	15,666	7.150%	2029	1979	9	-	-
513	Columbia Basin 3rd Powerhouse	712	712	7.150%	2033	1983	9	-	-
514	Columbia Basin 3rd Powerhouse	13,003	13,003	7.150%	2033	1983	9	-	-
515	Columbia Basin 3rd Powerhouse	16,965	16,965	7.150%	2033	1984	9	-	-
516	Columbia Basin 3rd Powerhouse	13,192	13,192	7.150%	2033	1984	9	-	-
517	Columbia Basin 3rd Powerhouse	3,160	3,160	7.150%	2033	1984	9	-	-
518	Columbia Basin 3rd Powerhouse	2,060	2,060	7.150%	2033	1985	9	-	-
519	Columbia Basin 3rd Powerhouse	41,772	41,772	7.150%	2033	1985	9	-	-
520	Columbia Basin 3rd Powerhouse	107	107	7.150%	2033	1985	9	-	-
521	Columbia Basin 3rd Powerhouse	1,851	1,851	7.150%	2033	1986	9	-	-
522	Columbia Basin 3rd Powerhouse	15,538	15,538	7.150%	2033	1986	9	-	-
523	Columbia Basin 3rd Powerhouse	1,730	1,730	7.150%	2033	1987	9	-	-
524	Columbia Basin 3rd Powerhouse	14,439	14,439	7.150%	2033	1987	9	-	-
525	Columbia Basin 3rd Powerhouse	2,294	2,294	7.150%	2033	1988	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	4,351	4,351	7.150%	2033	1988	9	-	-
527	Columbia Basin 3rd Powerhouse	10,902	10,902	7.150%	2033	1989	9	-	-
528	Columbia Basin 3rd Powerhouse	6,383	6,383	7.150%	2033	1990	9	-	-
529	Columbia Basin 3rd Powerhouse	12,631	12,631	7.150%	2044	1994	9	-	-
530	Columbia River Fish Mitigation	3,969	-	8.500%	2041	1991	9	-	-
531	Columbia River Fish Mitigation	874	-	8.500%	2042	1992	9	-	-
532	Columbia River Fish Mitigation	85,846	-	8.500%	2043	1993	9	-	-
533	Columbia River Fish Mitigation	39,454	-	8.500%	2044	1994	9	-	-
534	Columbia River Fish Mitigation	43,343	39,282	7.150%	2045	1995	9	-	-
535	Columbia River Fish Mitigation	2,431	2,431	7.150%	2046	1996	9	-	-
536	Columbia River Fish Mitigation	14,115	14,115	5.375%	2049	1999	9	-	-
537	Columbia River Fish Mitigation	47,006	47,006	6.125%	2050	2000	9	-	-
538	Columbia River Fish Mitigation	6,168	6,168	5.875%	2051	2001	9	-	-
539	Columbia River Fish Mitigation	8,797	8,797	5.500%	2052	2002	9	-	-
540	Columbia River Fish Mitigation	68,440	68,440	5.125%	2053	2003	9	-	-
541	Columbia River Fish Mitigation	60,581	60,581	5.375%	2054	2004	9	-	-
542	Columbia River Fish Mitigation	52,039	52,039	5.125%	2055	2005	9	-	-
543	Columbia River Fish Mitigation	366,395	366,395	4.500%	2056	2006	9	-	-
544	Columbia River Fish Mitigation	53,525	53,525	5.000%	2057	2007	9	-	-
545	Columbia River Fish Mitigation	36,554	36,554	4.875%	2058	2008	9	-	-
546	Columbia River Fish Mitigation	103,203	103,203	4.375%	2059	2009	9	-	-
547	Columbia River Fish Mitigation	56,832	56,832	4.250%	2060	2010	9	-	-
548	Columbia River Fish Mitigation	103,478	103,478	3.750%	2061	2011	9	-	-
549	Columbia River Fish Mitigation	93,715	93,715	3.380%	2062	2012	9	-	-
550	Cougar	10,414	-	7.230%	2014	1964	9	-	-
551	Cougar	20	-	7.230%	2014	1965	9	-	-
552	Cougar	20	-	7.230%	2014	1966	9	-	-
553	Cougar	20	-	7.230%	2014	1967	9	-	-
554	Cougar	20	-	7.230%	2014	1968	9	-	-
555	Cougar	20	-	7.230%	2014	1969	9	-	-
556	Cougar	20	-	7.230%	2014	1970	9	-	-
557	Cougar	20	-	7.230%	2014	1971	9	-	-
558	Cougar	20	-	7.230%	2014	1972	9	-	-
559	Cougar	20	-	7.230%	2014	1973	9	-	-
560	Cougar	19	-	7.230%	2014	1974	9	-	-
561	Cougar	20	-	7.230%	2014	1975	9	-	-
562	Cougar	20	-	7.230%	2014	1976	9	-	-
563	Cougar	20	-	7.230%	2014	1977	9	-	-
564	Cougar	20	-	7.230%	2014	1978	9	-	-
565	Cougar	20	-	7.230%	2014	1979	9	-	-
566	Cougar	20	-	7.230%	2014	1980	9	-	-
567	Cougar	20	-	7.230%	2014	1981	9	-	-
568	Cougar	20	-	7.230%	2014	1982	9	-	-
569	Cougar	20	-	7.230%	2014	1983	9	-	-
570	Cougar	1	-	10.750%	2014	1984	9	-	-
571	Cougar	1	-	7.230%	2014	1985	9	-	-
572	Cougar	104	-	7.230%	2014	1986	9	-	-
573	Cougar	55	-	11.375%	2014	1986	9	-	-
574	Cougar	45	-	7.230%	2014	1987	9	-	-
575	Cougar	2	-	8.500%	2014	1988	9	-	-
576	Cougar	6	-	9.250%	2014	1989	9	-	-
577	Cougar	10	-	8.875%	2014	1990	9	-	-
578	Cougar	1,015	-	8.750%	2014	1991	9	-	-
579	Cougar	1	-	8.750%	2014	1991	9	-	-
580	Cougar	2	-	8.500%	2014	1992	9	-	-
581	Cougar	539	-	7.875%	2014	1993	9	-	-
582	Cougar	31	-	7.125%	2019	1994	9	-	-
583	Cougar	3	-	7.330%	2000	1995	9	-	-
584	Cougar	26	26	7.150%	2047	1997	9	-	-
585	Cougar	3,622	3,622	5.375%	2054	2004	9	-	-
586	Cougar	8,123	8,123	5.125%	2055	2005	9	-	-
587	Cougar	109	109	4.500%	2056	2006	9	-	-
588	Cougar	120	120	5.000%	2057	2007	9	-	-
589	Cougar	22	22	4.375%	2059	2009	9	-	-
590	Cougar	47	47	-	2059	2009	9	-	-
591	Cougar	59	59	4.250%	2060	2010	9	-	-
592	Cougar	549	549	3.750%	2061	2011	9	-	-
593	Detroit Lake/Big Cliff	12,533	-	6.840%	2003	1953	9	-	-
594	Detroit Lake/Big Cliff	20,162	-	6.880%	2004	1954	9	-	-
595	Detroit Lake/Big Cliff	18	-	6.880%	2004	1955	9	-	-
596	Detroit Lake/Big Cliff	19	-	6.880%	2004	1956	9	-	-
597	Detroit Lake/Big Cliff	18	-	6.880%	2004	1957	9	-	-
598	Detroit Lake/Big Cliff	19	-	6.880%	2004	1958	9	-	-
599	Detroit Lake/Big Cliff	18	-	6.880%	2004	1959	9	-	-
600	Detroit Lake/Big Cliff	19	-	6.880%	2004	1960	9	-	-

TABLE 11A: HISTORICAL INVESTMENTS
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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
601	Detroit Lake/Big Cliff	18	-	6.880%	2004	1961	9	-	-
602	Detroit Lake/Big Cliff	19	-	6.880%	2004	1962	9	-	-
603	Detroit Lake/Big Cliff	18	-	6.880%	2004	1963	9	-	-
604	Detroit Lake/Big Cliff	19	-	6.880%	2004	1964	9	-	-
605	Detroit Lake/Big Cliff	18	-	6.880%	2004	1965	9	-	-
606	Detroit Lake/Big Cliff	19	-	6.880%	2004	1966	9	-	-
607	Detroit Lake/Big Cliff	18	-	6.880%	2004	1967	9	-	-
608	Detroit Lake/Big Cliff	19	-	6.880%	2004	1968	9	-	-
609	Detroit Lake/Big Cliff	18	-	6.880%	2004	1969	9	-	-
610	Detroit Lake/Big Cliff	19	-	6.880%	2004	1970	9	-	-
611	Detroit Lake/Big Cliff	18	-	6.880%	2004	1971	9	-	-
612	Detroit Lake/Big Cliff	19	-	6.880%	2004	1972	9	-	-
613	Detroit Lake/Big Cliff	18	-	6.880%	2004	1973	9	-	-
614	Detroit Lake/Big Cliff	19	-	6.880%	2004	1974	9	-	-
615	Detroit Lake/Big Cliff	18	-	6.880%	2004	1975	9	-	-
616	Detroit Lake/Big Cliff	19	-	6.880%	2004	1976	9	-	-
617	Detroit Lake/Big Cliff	18	-	6.880%	2004	1977	9	-	-
618	Detroit Lake/Big Cliff	19	-	6.880%	2004	1978	9	-	-
619	Detroit Lake/Big Cliff	18	-	6.880%	2004	1979	9	-	-
620	Detroit Lake/Big Cliff	19	-	6.880%	2004	1980	9	-	-
621	Detroit Lake/Big Cliff	18	-	6.880%	2004	1981	9	-	-
622	Detroit Lake/Big Cliff	19	-	6.880%	2004	1982	9	-	-
623	Detroit Lake/Big Cliff	18	-	6.880%	2004	1983	9	-	-
624	Detroit Lake/Big Cliff	21	-	10.750%	2004	1984	9	-	-
625	Detroit Lake/Big Cliff	6	-	6.880%	2004	1985	9	-	-
626	Detroit Lake/Big Cliff	38	-	11.375%	2004	1986	9	-	-
627	Detroit Lake/Big Cliff	3	-	6.880%	2004	1987	9	-	-
628	Detroit Lake/Big Cliff	233	-	8.875%	2004	1987	9	-	-
629	Detroit Lake/Big Cliff	68	-	8.500%	2004	1988	9	-	-
630	Detroit Lake/Big Cliff	26	-	9.250%	2004	1989	9	-	-
631	Detroit Lake/Big Cliff	115	-	8.875%	2004	1990	9	-	-
632	Detroit Lake/Big Cliff	9	-	8.750%	2004	1991	9	-	-
633	Detroit Lake/Big Cliff	20	-	8.750%	2004	1991	9	-	-
634	Detroit Lake/Big Cliff	8	-	8.500%	2004	1992	9	-	-
635	Detroit Lake/Big Cliff	211	-	7.875%	2004	1993	9	-	-
636	Detroit Lake/Big Cliff	7	-	7.125%	1999	1994	9	-	-
637	Detroit Lake/Big Cliff	13	-	7.330%	2000	1995	9	-	-
638	Detroit Lake/Big Cliff	38	38	7.150%	2045	1995	9	-	-
639	Detroit Lake/Big Cliff	24	-	6.950%	2006	1996	9	-	-
640	Detroit Lake/Big Cliff	282	282	5.875%	2051	2001	9	-	-
641	Detroit Lake/Big Cliff	18	18	5.500%	2052	2002	9	-	-
642	Detroit Lake/Big Cliff	223	223	5.125%	2053	2003	9	-	-
643	Detroit Lake/Big Cliff	1,031	1,031	5.125%	2055	2005	9	-	-
644	Dworshak	138,443	91,942	7.190%	2023	1973	9	-	-
645	Dworshak	836	-	7.190%	2023	1973	9	-	-
646	Dworshak	515	-	7.190%	2023	1974	9	-	-
647	Dworshak	3	-	7.190%	2023	1974	9	-	-
648	Dworshak	518	-	7.190%	2023	1975	9	-	-
649	Dworshak	3	-	7.190%	2023	1975	9	-	-
650	Dworshak	518	-	7.190%	2023	1976	9	-	-
651	Dworshak	3	-	7.190%	2023	1976	9	-	-
652	Dworshak	518	-	7.190%	2023	1977	9	-	-
653	Dworshak	3	-	7.190%	2023	1977	9	-	-
654	Dworshak	518	-	7.190%	2023	1978	9	-	-
655	Dworshak	3	-	7.190%	2023	1978	9	-	-
656	Dworshak	518	-	7.190%	2023	1979	9	-	-
657	Dworshak	3	-	7.190%	2023	1979	9	-	-
658	Dworshak	518	-	7.190%	2023	1980	9	-	-
659	Dworshak	3	-	7.190%	2023	1980	9	-	-
660	Dworshak	518	-	7.190%	2023	1981	9	-	-
661	Dworshak	3	-	7.190%	2023	1981	9	-	-
662	Dworshak	518	-	7.190%	2023	1982	9	-	-
663	Dworshak	3	-	7.190%	2023	1982	9	-	-
664	Dworshak	523	-	7.190%	2023	1983	9	-	-
665	Dworshak	3	-	7.190%	2023	1983	9	-	-
666	Dworshak	2,499	-	10.750%	2023	1984	9	-	-
667	Dworshak	15	-	10.750%	2023	1984	9	-	-
668	Dworshak	1,141	-	7.190%	2023	1985	9	-	-
669	Dworshak	197	-	7.190%	2023	1986	9	-	-
670	Dworshak	36	-	7.190%	2023	1987	9	-	-
671	Dworshak	65	-	8.875%	2023	1987	9	-	-
672	Dworshak	61	-	8.500%	2023	1988	9	-	-
673	Dworshak	63	-	9.250%	2023	1989	9	-	-
674	Dworshak	245	-	8.875%	2023	1990	9	-	-
675	Dworshak	24	-	8.875%	2023	1990	9	-	-

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

TABLE 11A: HISTORICAL INVESTMENTS
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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
751	Hills Creek	13	-	7.160%	2012	1974	9	-	-
752	Hills Creek	13	-	7.160%	2012	1975	9	-	-
753	Hills Creek	13	-	7.160%	2012	1976	9	-	-
754	Hills Creek	13	-	7.160%	2012	1977	9	-	-
755	Hills Creek	13	-	7.160%	2012	1978	9	-	-
756	Hills Creek	13	-	7.160%	2012	1979	9	-	-
757	Hills Creek	13	-	7.160%	2012	1980	9	-	-
758	Hills Creek	13	-	7.160%	2012	1981	9	-	-
759	Hills Creek	13	-	7.160%	2012	1982	9	-	-
760	Hills Creek	13	-	7.160%	2012	1983	9	-	-
761	Hills Creek	52	-	10.750%	2012	1984	9	-	-
762	Hills Creek	6	-	7.160%	2012	1985	9	-	-
763	Hills Creek	3	-	8.875%	2012	1987	9	-	-
764	Hills Creek	3	-	8.500%	2012	1988	9	-	-
765	Hills Creek	3	-	8.875%	2012	1990	9	-	-
766	Hills Creek	17	-	8.750%	2012	1991	9	-	-
767	Hills Creek	1	-	8.500%	2012	1992	9	-	-
768	Hills Creek	13	-	7.875%	2012	1993	9	-	-
769	Hills Creek	28	28	7.150%	2046	1996	9	-	-
770	Hills Creek	2,630	2,630	6.125%	2050	2000	9	-	-
771	Hills Creek	8	8	5.875%	2051	2001	9	-	-
772	Hills Creek	2	2	5.500%	2052	2002	9	-	-
773	Hills Creek	46	46	5.125%	2055	2005	9	-	-
774	Hills Creek	12	12	3.750%	2061	2011	9	-	-
775	Hungry Horse Dam	75,076	-	6.840%	2003	1953	9	-	-
776	Hungry Horse Dam	2,126	-	6.840%	2003	1953	9	-	-
777	Hungry Horse Dam	17	-	6.840%	2003	1954	9	-	-
778	Hungry Horse Dam	1	-	6.840%	2003	1954	9	-	-
779	Hungry Horse Dam	17	-	6.840%	2003	1955	9	-	-
780	Hungry Horse Dam	1	-	6.840%	2003	1955	9	-	-
781	Hungry Horse Dam	17	-	6.840%	2003	1956	9	-	-
782	Hungry Horse Dam	1	-	6.840%	2003	1956	9	-	-
783	Hungry Horse Dam	18	-	6.840%	2003	1957	9	-	-
784	Hungry Horse Dam	1	-	6.840%	2003	1957	9	-	-
785	Hungry Horse Dam	18	-	6.840%	2003	1958	9	-	-
786	Hungry Horse Dam	1	-	6.840%	2003	1958	9	-	-
787	Hungry Horse Dam	18	-	6.840%	2003	1959	9	-	-
788	Hungry Horse Dam	1	-	6.840%	2003	1959	9	-	-
789	Hungry Horse Dam	18	-	6.840%	2003	1960	9	-	-
790	Hungry Horse Dam	1	-	6.840%	2003	1960	9	-	-
791	Hungry Horse Dam	18	-	6.840%	2003	1961	9	-	-
792	Hungry Horse Dam	1	-	6.840%	2003	1961	9	-	-
793	Hungry Horse Dam	18	-	6.840%	2003	1962	9	-	-
794	Hungry Horse Dam	1	-	6.840%	2003	1962	9	-	-
795	Hungry Horse Dam	18	-	6.840%	2003	1963	9	-	-
796	Hungry Horse Dam	1	-	6.840%	2003	1963	9	-	-
797	Hungry Horse Dam	17	-	6.840%	2003	1964	9	-	-
798	Hungry Horse Dam	1	-	6.840%	2003	1964	9	-	-
799	Hungry Horse Dam	17	-	6.840%	2003	1965	9	-	-
800	Hungry Horse Dam	1	-	6.840%	2003	1965	9	-	-
801	Hungry Horse Dam	17	-	6.840%	2003	1966	9	-	-
802	Hungry Horse Dam	1	-	6.840%	2003	1966	9	-	-
803	Hungry Horse Dam	18	-	6.840%	2003	1967	9	-	-
804	Hungry Horse Dam	1	-	6.840%	2003	1967	9	-	-
805	Hungry Horse Dam	18	-	6.840%	2003	1968	9	-	-
806	Hungry Horse Dam	1	-	6.840%	2003	1968	9	-	-
807	Hungry Horse Dam	18	-	6.840%	2003	1969	9	-	-
808	Hungry Horse Dam	1	-	6.840%	2003	1969	9	-	-
809	Hungry Horse Dam	18	-	6.840%	2003	1970	9	-	-
810	Hungry Horse Dam	1	-	6.840%	2003	1970	9	-	-
811	Hungry Horse Dam	18	-	6.840%	2003	1971	9	-	-
812	Hungry Horse Dam	1	-	6.840%	2003	1971	9	-	-
813	Hungry Horse Dam	18	-	6.840%	2003	1972	9	-	-
814	Hungry Horse Dam	1	-	6.840%	2003	1972	9	-	-
815	Hungry Horse Dam	18	-	6.840%	2003	1973	9	-	-
816	Hungry Horse Dam	1	-	6.840%	2003	1973	9	-	-
817	Hungry Horse Dam	17	-	6.840%	2003	1974	9	-	-
818	Hungry Horse Dam	1	-	6.840%	2003	1974	9	-	-
819	Hungry Horse Dam	17	-	6.840%	2003	1975	9	-	-
820	Hungry Horse Dam	1	-	6.840%	2003	1975	9	-	-
821	Hungry Horse Dam	10	-	6.840%	2003	1976	9	-	-
822	Hungry Horse Dam	1	-	6.840%	2003	1976	9	-	-
823	Hungry Horse Dam	18	-	6.840%	2003	1977	9	-	-
824	Hungry Horse Dam	1	-	6.840%	2003	1977	9	-	-
825	Hungry Horse Dam	18	-	6.840%	2003	1978	9	-	-

TABLE 11A: HISTORICAL INVESTMENTS
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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
826	Hungry Horse Dam	1	-	6.840%	2003	1978	9	-	-
827	Hungry Horse Dam	18	-	6.840%	2003	1979	9	-	-
828	Hungry Horse Dam	1	-	6.840%	2003	1979	9	-	-
829	Hungry Horse Dam	18	-	6.840%	2003	1980	9	-	-
830	Hungry Horse Dam	1	-	6.840%	2003	1980	9	-	-
831	Hungry Horse Dam	22	-	6.840%	2003	1981	9	-	-
832	Hungry Horse Dam	1	-	6.840%	2003	1981	9	-	-
833	Hungry Horse Dam	1	-	6.840%	2003	1982	9	-	-
834	Hungry Horse Dam	12	-	6.840%	2003	1983	9	-	-
835	Hungry Horse Dam	1	-	6.840%	2003	1983	9	-	-
836	Hungry Horse Dam	32	-	10.750%	2003	1984	9	-	-
837	Hungry Horse Dam	1	-	10.750%	2003	1984	9	-	-
838	Hungry Horse Dam	36	-	12.375%	2003	1985	9	-	-
839	Hungry Horse Dam	37	-	12.375%	2003	1985	9	-	-
840	Hungry Horse Dam	101	-	9.250%	2003	1989	9	-	-
841	Hungry Horse Dam	58	-	8.875%	2003	1990	9	-	-
842	Hungry Horse Dam	19	-	8.750%	2003	1991	9	-	-
843	Hungry Horse Dam	9	-	8.500%	2003	1992	9	-	-
844	Hungry Horse Dam	4,136	-	7.875%	2003	1993	9	-	-
845	Hungry Horse Dam	2	-	7.875%	2003	1993	9	-	-
846	Hungry Horse Dam	56	-	7.125%	2019	1994	9	-	-
847	Hungry Horse Dam	156	-	6.620%	2000	1995	9	-	-
848	Hungry Horse Dam	84	-	6.620%	2000	1995	9	-	-
849	Hungry Horse Dam	450	-	7.930%	2020	1995	9	-	-
850	Hungry Horse Dam	536	536	7.150%	2030	1995	9	-	-
851	Hungry Horse Dam	1,198	1,195	7.150%	2030	1995	9	-	-
852	Hungry Horse Dam	6,190	6,190	7.150%	2045	1995	9	-	-
853	Hungry Horse Dam	14,354	-	7.860%	2045	1995	9	-	-
854	Hungry Horse Dam	15	15	7.150%	2046	1996	9	-	-
855	Hungry Horse Dam	2	2	7.150%	2046	1996	9	-	-
856	Hungry Horse Dam	154	-	6.950%	2007	1997	9	-	-
857	Hungry Horse Dam	111	111	7.150%	2047	1997	9	-	-
858	Hungry Horse Dam	552	552	5.875%	2051	2001	9	-	-
859	Hungry Horse Dam	2,951	2,951	5.125%	2055	2005	9	-	-
860	Hungry Horse Dam	294	294	5.000%	2057	2007	9	-	-
861	Hungry Horse Dam	76	76	4.875%	2058	2008	9	-	-
862	Hungry Horse Dam	60	60	4.375%	2059	2009	9	-	-
863	Hungry Horse Dam	779	779	4.250%	2060	2010	9	-	-
864	Hungry Horse Dam	506	506	3.750%	2061	2011	9	-	-
865	Ice Harbor	664	-	7.160%	2012	1962	9	-	-
866	Ice Harbor	59,699	-	7.160%	2012	1962	9	-	-
867	Ice Harbor	46	-	7.160%	2012	1963	9	-	-
868	Ice Harbor	1	-	7.160%	2012	1963	9	-	-
869	Ice Harbor	46	-	7.160%	2012	1964	9	-	-
870	Ice Harbor	1	-	7.160%	2012	1964	9	-	-
871	Ice Harbor	46	-	7.160%	2012	1965	9	-	-
872	Ice Harbor	1	-	7.160%	2012	1965	9	-	-
873	Ice Harbor	46	-	7.160%	2012	1966	9	-	-
874	Ice Harbor	1	-	7.160%	2012	1966	9	-	-
875	Ice Harbor	46	-	7.160%	2012	1967	9	-	-
876	Ice Harbor	1	-	7.160%	2012	1967	9	-	-
877	Ice Harbor	46	-	7.160%	2012	1968	9	-	-
878	Ice Harbor	1	-	7.160%	2012	1968	9	-	-
879	Ice Harbor	46	-	7.160%	2012	1969	9	-	-
880	Ice Harbor	1	-	7.160%	2012	1969	9	-	-
881	Ice Harbor	46	-	7.160%	2012	1970	9	-	-
882	Ice Harbor	1	-	7.160%	2012	1970	9	-	-
883	Ice Harbor	46	-	7.160%	2012	1971	9	-	-
884	Ice Harbor	1	-	7.160%	2012	1971	9	-	-
885	Ice Harbor	46	-	7.160%	2012	1972	9	-	-
886	Ice Harbor	1	-	7.160%	2012	1972	9	-	-
887	Ice Harbor	46	-	7.160%	2012	1973	9	-	-
888	Ice Harbor	1	-	7.160%	2012	1973	9	-	-
889	Ice Harbor	46	-	7.160%	2012	1974	9	-	-
890	Ice Harbor	1	-	7.160%	2012	1974	9	-	-
891	Ice Harbor	46	-	7.160%	2012	1975	9	-	-
892	Ice Harbor	1	-	7.160%	2012	1975	9	-	-
893	Ice Harbor	46	-	7.160%	2012	1976	9	-	-
894	Ice Harbor	1	-	7.160%	2012	1976	9	-	-
895	Ice Harbor	20,472	20,472	7.150%	2026	1976	9	-	-
896	Ice Harbor	228	228	7.150%	2026	1976	9	-	-
897	Ice Harbor	46	-	7.160%	2012	1977	9	-	-
898	Ice Harbor	1	-	7.160%	2012	1977	9	-	-
899	Ice Harbor	46	-	7.160%	2012	1978	9	-	-
900	Ice Harbor	1	-	7.160%	2012	1978	9	-	-

TABLE 11A: HISTORICAL INVESTMENTS
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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
901	Ice Harbor	46	-	7.160%	2012	1979	9	-	-
902	Ice Harbor	1	-	7.160%	2012	1979	9	-	-
903	Ice Harbor	46	-	7.160%	2012	1980	9	-	-
904	Ice Harbor	1	-	7.160%	2012	1980	9	-	-
905	Ice Harbor	46	-	7.160%	2012	1981	9	-	-
906	Ice Harbor	1	-	7.160%	2012	1981	9	-	-
907	Ice Harbor	46	-	7.160%	2012	1982	9	-	-
908	Ice Harbor	1	-	7.160%	2012	1982	9	-	-
909	Ice Harbor	46	-	7.160%	2012	1983	9	-	-
910	Ice Harbor	1	-	7.160%	2012	1983	9	-	-
911	Ice Harbor	41	-	7.160%	2012	1985	9	-	-
912	Ice Harbor	21	21	7.150%	2026	1985	9	-	-
913	Ice Harbor	137	-	7.160%	2012	1986	9	-	-
914	Ice Harbor	3	-	7.160%	2012	1987	9	-	-
915	Ice Harbor	71	-	8.875%	2012	1987	9	-	-
916	Ice Harbor	1	-	8.875%	2012	1987	9	-	-
917	Ice Harbor	8	-	8.500%	2012	1988	9	-	-
918	Ice Harbor	57	-	8.500%	2012	1988	9	-	-
919	Ice Harbor	51	-	9.250%	2012	1989	9	-	-
920	Ice Harbor	427	-	8.875%	2012	1990	9	-	-
921	Ice Harbor	348	-	8.750%	2012	1991	9	-	-
922	Ice Harbor	177	-	8.500%	2012	1992	9	-	-
923	Ice Harbor	3,192	-	7.875%	2012	1993	9	-	-
924	Ice Harbor	1,645	-	7.875%	2012	1993	9	-	-
925	Ice Harbor	328	-	7.125%	2029	1994	9	-	-
926	Ice Harbor	520	-	7.125%	2029	1994	9	-	-
927	Ice Harbor	2	-	7.330%	2000	1995	9	-	-
928	Ice Harbor	84	-	7.270%	2019	1995	9	-	-
929	Ice Harbor	171	-	7.270%	2019	1995	9	-	-
930	Ice Harbor	849	-	7.270%	2019	1995	9	-	-
931	Ice Harbor	78	78	7.150%	2031	1996	9	-	-
932	Ice Harbor	371	371	7.150%	2041	1996	9	-	-
933	Ice Harbor	66	-	7.230%	2022	1997	9	-	-
934	Ice Harbor	67	67	7.150%	2047	1997	9	-	-
935	Ice Harbor	5,516	5,516	5.375%	2049	1999	9	-	-
936	Ice Harbor	548	548	6.125%	2050	2000	9	-	-
937	Ice Harbor	764	764	5.875%	2051	2001	9	-	-
938	Ice Harbor	1,014	1,014	5.500%	2052	2002	9	-	-
939	Ice Harbor	50	50	5.125%	2053	2003	9	-	-
940	Ice Harbor	3,321	3,321	5.375%	2054	2004	9	-	-
941	Ice Harbor	14	14	4.875%	2058	2008	9	-	-
942	Ice Harbor	2,615	2,615	4.375%	2059	2009	9	-	-
943	Ice Harbor	207	207	4.250%	2060	2010	9	-	-
944	Ice Harbor	491	491	3.750%	2061	2011	9	-	-
945	John Day	27,254	-	7.280%	2018	1968	9	-	-
946	John Day	96,104	-	7.270%	2019	1969	9	-	-
947	John Day	23,656	-	7.250%	2020	1970	9	-	-
948	John Day	34,974	-	7.230%	2021	1971	9	-	-
949	John Day	11,502	-	7.210%	2022	1972	9	-	-
950	John Day	3,677	-	10.750%	2022	1984	9	-	-
951	John Day	6,490	-	7.210%	2022	1985	9	-	-
952	John Day	1,209	-	12.375%	2022	1985	9	-	-
953	John Day	3,227	-	7.210%	2022	1986	9	-	-
954	John Day	713	-	11.375%	2022	1986	9	-	-
955	John Day	706	-	7.210%	2022	1987	9	-	-
956	John Day	4,353	-	8.875%	2022	1987	9	-	-
957	John Day	332	-	8.500%	2022	1988	9	-	-
958	John Day	199	-	8.500%	2022	1988	9	-	-
959	John Day	30	-	7.210%	2022	1989	9	-	-
960	John Day	377	-	9.250%	2022	1989	9	-	-
961	John Day	37	-	7.210%	2022	1990	9	-	-
962	John Day	543	-	8.875%	2022	1990	9	-	-
963	John Day	13,218	-	8.750%	2022	1991	9	-	-
964	John Day	144	-	8.750%	2022	1991	9	-	-
965	John Day	19	-	7.210%	2022	1992	9	-	-
966	John Day	95	-	8.500%	2022	1992	9	-	-
967	John Day	7,810	-	7.875%	2022	1993	9	-	-
968	John Day	9,585	-	7.875%	2022	1993	9	-	-
969	John Day	14	-	7.125%	2019	1994	9	-	-
970	John Day	1,252	-	7.125%	2029	1994	9	-	-
971	John Day	2	-	7.330%	2000	1995	9	-	-
972	John Day	9	-	7.330%	2000	1995	9	-	-
973	John Day	79	-	7.250%	2020	1995	9	-	-
974	John Day	22	22	7.150%	2035	1995	9	-	-
975	John Day	52	52	7.150%	2035	1995	9	-	-

TABLE 11A: HISTORICAL INVESTMENTS
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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
976	John Day	121	121	7.150%	2035	1995	9	-	-
977	John Day	37	37	7.150%	2045	1995	9	-	-
978	John Day	608	608	7.150%	2045	1995	9	-	-
979	John Day	7,653	7,653	7.150%	2045	1995	9	-	-
980	John Day	237	-	7.130%	2011	1996	9	-	-
981	John Day	1,072	-	7.290%	2016	1996	9	-	-
982	John Day	133	-	7.230%	2022	1997	9	-	-
983	John Day	179	179	7.150%	2047	1997	9	-	-
984	John Day	3,510	3,510	5.375%	2049	1999	9	-	-
985	John Day	2,761	2,761	6.125%	2050	2000	9	-	-
986	John Day	619	619	5.875%	2051	2001	9	-	-
987	John Day	2,830	2,830	5.375%	2054	2004	9	-	-
988	John Day	2,827	2,827	5.125%	2055	2005	9	-	-
989	John Day	601	601	4.500%	2056	2006	9	-	-
990	John Day	233	233	5.000%	2057	2007	9	-	-
991	John Day	1,548	1,548	4.375%	2059	2009	9	-	-
992	John Day	356	356	4.250%	2060	2010	9	-	-
993	John Day	175	175	3.750%	2061	2011	9	-	-
994	Libby	54,644	48,138	7.160%	2025	1975	9	-	-
995	Libby	153,432	153,432	7.150%	2026	1976	9	-	-
996	Libby	1,465	1,465	7.150%	2026	1977	9	-	-
997	Libby	1,465	1,465	7.150%	2026	1978	9	-	-
998	Libby	1,465	1,465	7.150%	2026	1979	9	-	-
999	Libby	1,465	1,465	7.150%	2026	1980	9	-	-
1000	Libby	1,465	1,465	7.150%	2026	1981	9	-	-
1001	Libby	1,465	1,465	7.150%	2026	1982	9	-	-
1002	Libby	1,465	1,465	7.150%	2026	1983	9	-	-
1003	Libby	104	-	10.750%	2026	1984	9	-	-
1004	Libby	518	518	7.150%	2026	1985	9	-	-
1005	Libby	283	283	7.150%	2026	1986	9	-	-
1006	Libby	2	2	7.150%	2026	1987	9	-	-
1007	Libby	35	-	8.505%	2026	1988	9	-	-
1008	Libby	18,043	14,781	7.150%	2038	1988	9	-	-
1009	Libby	1	1	7.150%	2026	1989	9	-	-
1010	Libby	131	-	9.250%	2026	1989	9	-	-
1011	Libby	11	-	8.875%	2026	1990	9	-	-
1012	Libby	134	-	8.750%	2026	1991	9	-	-
1013	Libby	100	-	8.500%	2026	1992	9	-	-
1014	Libby	70	-	8.500%	2026	1992	9	-	-
1015	Libby	600	-	7.875%	2026	1993	9	-	-
1016	Libby	286	152	7.150%	2029	1994	9	-	-
1017	Libby	215	-	7.125%	2029	1994	9	-	-
1018	Libby	15	15	7.150%	2030	1995	9	-	-
1019	Libby	41	41	7.150%	2030	1995	9	-	-
1020	Libby	94	94	7.150%	2030	1995	9	-	-
1021	Libby	432	-	7.230%	2022	1997	9	-	-
1022	Libby	660	660	7.150%	2047	1997	9	-	-
1023	Libby	5,562	5,562	5.875%	2051	2001	9	-	-
1024	Libby	1,567	1,567	4.875%	2058	2008	9	-	-
1025	Libby	40	40	4.250%	2060	2010	9	-	-
1026	Libby	174	174	3.750%	2061	2011	9	-	-
1027	Little Goose	22,326	-	7.250%	2020	1970	9	-	-
1028	Little Goose	42,962	-	7.230%	2021	1971	9	-	-
1029	Little Goose	28	-	7.230%	2021	1972	9	-	-
1030	Little Goose	29	-	7.230%	2021	1973	9	-	-
1031	Little Goose	28	-	7.230%	2021	1974	9	-	-
1032	Little Goose	29	-	7.230%	2021	1975	9	-	-
1033	Little Goose	28	-	7.230%	2021	1976	9	-	-
1034	Little Goose	29	-	7.230%	2021	1977	9	-	-
1035	Little Goose	28	-	7.230%	2021	1978	9	-	-
1036	Little Goose	49,578	49,578	7.150%	2028	1978	9	-	-
1037	Little Goose	29	-	7.230%	2021	1979	9	-	-
1038	Little Goose	28	-	7.230%	2021	1980	9	-	-
1039	Little Goose	29	-	7.230%	2021	1981	9	-	-
1040	Little Goose	28	-	7.230%	2021	1982	9	-	-
1041	Little Goose	29	-	7.230%	2021	1983	9	-	-
1042	Little Goose	201	-	10.750%	2021	1984	9	-	-
1043	Little Goose	174	-	7.230%	2021	1985	9	-	-
1044	Little Goose	47	47	7.150%	2028	1985	9	-	-
1045	Little Goose	239	-	7.230%	2021	1986	9	-	-
1046	Little Goose	6	-	7.230%	2021	1987	9	-	-
1047	Little Goose	72	-	8.875%	2021	1987	9	-	-
1048	Little Goose	12	-	8.500%	2021	1988	9	-	-
1049	Little Goose	68	-	8.500%	2021	1988	9	-	-
1050	Little Goose	77	-	9.250%	2021	1989	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
1051	Little Goose	408	-	8.875%	2021	1990	9	-	-
1052	Little Goose	21	-	8.875%	2021	1990	9	-	-
1053	Little Goose	266	-	8.750%	2021	1991	9	-	-
1054	Little Goose	66	-	8.500%	2021	1992	9	-	-
1055	Little Goose	27	-	8.500%	2021	1992	9	-	-
1056	Little Goose	276	-	7.875%	2021	1993	9	-	-
1057	Little Goose	3,359	-	7.875%	2021	1993	9	-	-
1058	Little Goose	37	-	7.125%	2019	1994	9	-	-
1059	Little Goose	2,044	-	7.125%	2029	1994	9	-	-
1060	Little Goose	17	17	7.150%	2040	1995	9	-	-
1061	Little Goose	450	450	7.150%	2040	1995	9	-	-
1062	Little Goose	733	733	7.150%	2040	1995	9	-	-
1063	Little Goose	10	10	7.150%	2046	1996	9	-	-
1064	Little Goose	10	10	7.150%	2046	1996	9	-	-
1065	Little Goose	211	211	7.150%	2046	1996	9	-	-
1066	Little Goose	241	241	7.150%	2046	1996	9	-	-
1067	Little Goose	520	520	7.150%	2046	1996	9	-	-
1068	Little Goose	3,909	3,909	7.150%	2046	1996	9	-	-
1069	Little Goose	1	1	7.150%	2047	1997	9	-	-
1070	Little Goose	4,608	4,608	5.875%	2051	2001	9	-	-
1071	Little Goose	27	27	5.500%	2052	2002	9	-	-
1072	Little Goose	146	146	5.125%	2053	2003	9	-	-
1073	Little Goose	67	67	5.375%	2054	2004	9	-	-
1074	Little Goose	13	13	4.875%	2058	2008	9	-	-
1075	Little Goose	3,171	3,171	4.375%	2059	2009	9	-	-
1076	Little Goose	30	30	4.250%	2060	2010	9	-	-
1077	Lookout Dam	34,290	-	6.910%	2005	1955	9	-	-
1078	Lookout Dam	52	-	6.910%	2005	1956	9	-	-
1079	Lookout Dam	51	-	6.910%	2005	1957	9	-	-
1080	Lookout Dam	51	-	6.910%	2005	1958	9	-	-
1081	Lookout Dam	51	-	6.910%	2005	1959	9	-	-
1082	Lookout Dam	51	-	6.910%	2005	1960	9	-	-
1083	Lookout Dam	52	-	6.910%	2005	1961	9	-	-
1084	Lookout Dam	51	-	6.910%	2005	1962	9	-	-
1085	Lookout Dam	51	-	6.910%	2005	1963	9	-	-
1086	Lookout Dam	51	-	6.910%	2005	1964	9	-	-
1087	Lookout Dam	51	-	6.910%	2005	1965	9	-	-
1088	Lookout Dam	51	-	6.910%	2005	1966	9	-	-
1089	Lookout Dam	52	-	6.910%	2005	1967	9	-	-
1090	Lookout Dam	51	-	6.910%	2005	1968	9	-	-
1091	Lookout Dam	51	-	6.910%	2005	1969	9	-	-
1092	Lookout Dam	51	-	6.910%	2005	1970	9	-	-
1093	Lookout Dam	51	-	6.910%	2005	1971	9	-	-
1094	Lookout Dam	51	-	6.910%	2005	1972	9	-	-
1095	Lookout Dam	52	-	6.910%	2005	1973	9	-	-
1096	Lookout Dam	51	-	6.910%	2005	1974	9	-	-
1097	Lookout Dam	51	-	6.910%	2005	1975	9	-	-
1098	Lookout Dam	51	-	6.910%	2005	1976	9	-	-
1099	Lookout Dam	51	-	6.910%	2005	1977	9	-	-
1100	Lookout Dam	51	-	6.910%	2005	1978	9	-	-
1101	Lookout Dam	52	-	6.910%	2005	1979	9	-	-
1102	Lookout Dam	51	-	6.910%	2005	1980	9	-	-
1103	Lookout Dam	51	-	6.910%	2005	1981	9	-	-
1104	Lookout Dam	51	-	6.910%	2005	1982	9	-	-
1105	Lookout Dam	51	-	6.910%	2005	1983	9	-	-
1106	Lookout Dam	185	-	10.750%	2005	1984	9	-	-
1107	Lookout Dam	52	-	6.910%	2005	1985	9	-	-
1108	Lookout Dam	42	-	6.910%	2005	1986	9	-	-
1109	Lookout Dam	9	-	6.910%	2005	1987	9	-	-
1110	Lookout Dam	12	-	8.875%	2005	1987	9	-	-
1111	Lookout Dam	46	-	8.500%	2005	1988	9	-	-
1112	Lookout Dam	17	-	8.500%	2005	1988	9	-	-
1113	Lookout Dam	23	-	9.250%	2005	1989	9	-	-
1114	Lookout Dam	147	-	8.875%	2005	1990	9	-	-
1115	Lookout Dam	4	-	8.875%	2005	1990	9	-	-
1116	Lookout Dam	6	-	8.750%	2005	1991	9	-	-
1117	Lookout Dam	50	-	8.750%	2005	1991	9	-	-
1118	Lookout Dam	181	-	8.500%	2005	1992	9	-	-
1119	Lookout Dam	4	-	8.500%	2005	1992	9	-	-
1120	Lookout Dam	18	-	7.875%	2005	1993	9	-	-
1121	Lookout Dam	189	-	7.875%	2005	1993	9	-	-
1122	Lookout Dam	73	-	7.125%	2019	1994	9	-	-
1123	Lookout Dam	80	39	7.150%	2045	1995	9	-	-
1124	Lookout Dam	33	33	7.150%	2045	1995	9	-	-
1125	Lookout Dam	9	-	7.860%	2045	1995	9	-	-

TABLE 11A: HISTORICAL INVESTMENTS
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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
1126	Lookout Dam	15	-	7.860%	2045	1995	9	-	-
1127	Lookout Dam	31	-	7.860%	2045	1995	9	-	-
1128	Lookout Dam	157	-	7.860%	2045	1995	9	-	-
1129	Lookout Dam	5,098	5,098	6.125%	2050	2000	9	-	-
1130	Lookout Dam	135	135	5.125%	2053	2003	9	-	-
1131	Lookout Dam	7,355	7,355	5.125%	2055	2005	9	-	-
1132	Lookout Dam	572	572	5.000%	2057	2007	9	-	-
1133	Lookout Dam	17	17	3.750%	2061	2011	9	-	-
1134	Lost Creek	13,505	13,413	7.150%	2027	1977	9	-	-
1135	Lost Creek	58	58	7.150%	2027	1978	9	-	-
1136	Lost Creek	60	60	7.150%	2027	1979	9	-	-
1137	Lost Creek	60	60	7.150%	2027	1980	9	-	-
1138	Lost Creek	60	60	7.150%	2027	1981	9	-	-
1139	Lost Creek	60	60	7.150%	2027	1982	9	-	-
1140	Lost Creek	60	60	7.150%	2027	1983	9	-	-
1141	Lost Creek	243	-	10.750%	2027	1984	9	-	-
1142	Lost Creek	12	12	7.150%	2027	1985	9	-	-
1143	Lost Creek	6	6	7.150%	2027	1986	9	-	-
1144	Lost Creek	5	-	11.375%	2027	1986	9	-	-
1145	Lost Creek	4	4	7.150%	2027	1987	9	-	-
1146	Lost Creek	3	-	8.875%	2027	1987	9	-	-
1147	Lost Creek	7	-	8.500%	2027	1988	9	-	-
1148	Lost Creek	9	-	9.250%	2027	1989	9	-	-
1149	Lost Creek	1	-	8.875%	2027	1990	9	-	-
1150	Lost Creek	31	-	8.750%	2027	1991	9	-	-
1151	Lost Creek	1	-	8.500%	2027	1992	9	-	-
1152	Lost Creek	1	-	8.500%	2027	1992	9	-	-
1153	Lost Creek	1	-	7.875%	2027	1993	9	-	-
1154	Lost Creek	14	-	7.875%	2027	1993	9	-	-
1155	Lost Creek	4	-	7.330%	2000	1995	9	-	-
1156	Lost Creek	94	94	7.150%	2045	1995	9	-	-
1157	Lost Creek	31	31	7.150%	2031	1996	9	-	-
1158	Lost Creek	24	24	7.150%	2046	1996	9	-	-
1159	Lost Creek	147	147	5.875%	2051	2001	9	-	-
1160	Lower Granite	119,237	117,645	7.160%	2025	1975	9	-	-
1161	Lower Granite	510	510	7.160%	2025	1976	9	-	-
1162	Lower Granite	510	510	7.160%	2025	1977	9	-	-
1163	Lower Granite	510	510	7.160%	2025	1978	9	-	-
1164	Lower Granite	40,611	40,611	7.150%	2028	1978	9	-	-
1165	Lower Granite	510	510	7.160%	2025	1979	9	-	-
1166	Lower Granite	510	510	7.160%	2025	1980	9	-	-
1167	Lower Granite	510	510	7.160%	2025	1981	9	-	-
1168	Lower Granite	510	510	7.160%	2025	1982	9	-	-
1169	Lower Granite	510	510	7.160%	2025	1983	9	-	-
1170	Lower Granite	311	-	10.750%	2025	1984	9	-	-
1171	Lower Granite	328	328	7.160%	2025	1985	9	-	-
1172	Lower Granite	215	215	7.160%	2025	1986	9	-	-
1173	Lower Granite	4	-	11.375%	2025	1986	9	-	-
1174	Lower Granite	8	8	7.160%	2025	1987	9	-	-
1175	Lower Granite	60	-	8.875%	2025	1987	9	-	-
1176	Lower Granite	22	-	8.500%	2025	1988	9	-	-
1177	Lower Granite	95	-	8.500%	2025	1988	9	-	-
1178	Lower Granite	112	-	9.250%	2025	1989	9	-	-
1179	Lower Granite	392	-	8.875%	2025	1990	9	-	-
1180	Lower Granite	281	-	8.750%	2025	1991	9	-	-
1181	Lower Granite	6	-	8.750%	2025	1991	9	-	-
1182	Lower Granite	83	-	8.500%	2025	1992	9	-	-
1183	Lower Granite	121	-	8.500%	2025	1992	9	-	-
1184	Lower Granite	26	-	7.875%	2025	1993	9	-	-
1185	Lower Granite	3,272	-	7.875%	2025	1993	9	-	-
1186	Lower Granite	38	-	7.125%	2019	1994	9	-	-
1187	Lower Granite	3,543	1,551	7.150%	2029	1994	9	-	-
1188	Lower Granite	77	-	7.290%	2017	1995	9	-	-
1189	Lower Granite	388	-	7.290%	2017	1995	9	-	-
1190	Lower Granite	458	-	7.290%	2017	1995	9	-	-
1191	Lower Granite	96	96	7.160%	2025	1995	9	-	-
1192	Lower Granite	255	-	7.130%	2011	1996	9	-	-
1193	Lower Granite	206	206	7.150%	2031	1996	9	-	-
1194	Lower Granite	9	9	7.150%	2046	1996	9	-	-
1195	Lower Granite	625	625	7.150%	2046	1996	9	-	-
1196	Lower Granite	677	677	7.150%	2047	1997	9	-	-
1197	Lower Granite	856	856	5.375%	2049	1999	9	-	-
1198	Lower Granite	2,025	2,025	5.875%	2051	2001	9	-	-
1199	Lower Granite	1,275	1,275	5.500%	2052	2002	9	-	-
1200	Lower Granite	42	42	5.125%	2053	2003	9	-	-

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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
1201	Lower Granite	393	393	5.125%	2055	2005	9	-	-
1202	Lower Granite	24	24	4.875%	2058	2008	9	-	-
1203	Lower Granite	5,669	5,669	4.375%	2059	2009	9	-	-
1204	Lower Granite	1,156	1,156	4.250%	2060	2010	9	-	-
1205	Lower Granite	8	8	3.750%	2061	2011	9	-	-
1206	Lower Monument	26,974	-	7.270%	2019	1969	9	-	-
1207	Lower Monument	51,218	-	7.250%	2020	1970	9	-	-
1208	Lower Monument	214	-	7.250%	2020	1971	9	-	-
1209	Lower Monument	214	-	7.250%	2020	1972	9	-	-
1210	Lower Monument	214	-	7.250%	2020	1973	9	-	-
1211	Lower Monument	214	-	7.250%	2020	1974	9	-	-
1212	Lower Monument	214	-	7.250%	2020	1975	9	-	-
1213	Lower Monument	214	-	7.250%	2020	1976	9	-	-
1214	Lower Monument	214	-	7.250%	2020	1977	9	-	-
1215	Lower Monument	214	-	7.250%	2020	1978	9	-	-
1216	Lower Monument	214	-	7.250%	2020	1979	9	-	-
1217	Lower Monument	40,669	40,669	7.150%	2029	1979	9	-	-
1218	Lower Monument	214	-	7.250%	2020	1980	9	-	-
1219	Lower Monument	214	-	7.250%	2020	1981	9	-	-
1220	Lower Monument	214	-	7.250%	2020	1982	9	-	-
1221	Lower Monument	214	-	7.250%	2020	1983	9	-	-
1222	Lower Monument	8	-	7.250%	2020	1985	9	-	-
1223	Lower Monument	256	256	7.150%	2029	1985	9	-	-
1224	Lower Monument	132	-	7.250%	2020	1986	9	-	-
1225	Lower Monument	3	-	7.250%	2020	1987	9	-	-
1226	Lower Monument	50	-	8.875%	2020	1987	9	-	-
1227	Lower Monument	1	-	8.500%	2020	1988	9	-	-
1228	Lower Monument	58	-	8.500%	2020	1988	9	-	-
1229	Lower Monument	93	-	9.250%	2020	1989	9	-	-
1230	Lower Monument	358	-	8.875%	2020	1990	9	-	-
1231	Lower Monument	594	-	8.750%	2020	1991	9	-	-
1232	Lower Monument	4,484	-	8.500%	2020	1992	9	-	-
1233	Lower Monument	24	-	7.875%	2020	1993	9	-	-
1234	Lower Monument	2,175	-	7.875%	2020	1993	9	-	-
1235	Lower Monument	107	-	7.125%	2019	1994	9	-	-
1236	Lower Monument	2,167	-	7.125%	2029	1994	9	-	-
1237	Lower Monument	6	-	7.330%	2000	1995	9	-	-
1238	Lower Monument	41	41	7.150%	2045	1995	9	-	-
1239	Lower Monument	99	99	7.150%	2045	1995	9	-	-
1240	Lower Monument	624	624	7.150%	2045	1995	9	-	-
1241	Lower Monument	1,122	1,122	7.150%	2045	1995	9	-	-
1242	Lower Monument	668	-	7.290%	2016	1996	9	-	-
1243	Lower Monument	37	-	7.230%	2021	1996	9	-	-
1244	Lower Monument	51	-	7.230%	2021	1996	9	-	-
1245	Lower Monument	264	264	7.150%	2036	1996	9	-	-
1246	Lower Monument	10	10	7.150%	2046	1996	9	-	-
1247	Lower Monument	3,301	3,301	5.875%	2051	2001	9	-	-
1248	Lower Monument	29	29	5.500%	2052	2002	9	-	-
1249	Lower Monument	22	22	5.125%	2053	2003	9	-	-
1250	Lower Monument	3,423	3,423	5.375%	2054	2004	9	-	-
1251	Lower Monument	527	527	5.125%	2055	2005	9	-	-
1252	Lower Monument	285	285	4.500%	2056	2006	9	-	-
1253	Lower Monument	9	9	4.875%	2058	2008	9	-	-
1254	Lower Monument	2,332	2,332	4.375%	2059	2009	9	-	-
1255	Lower Snake Fish and Wildlife	30,488	9,472	7.150%	2033	1983	9	-	-
1256	Lower Snake Fish and Wildlife	47,921	47,921	7.150%	2035	1985	9	-	-
1257	Lower Snake Fish and Wildlife	72,536	72,536	7.150%	2037	1987	9	-	-
1258	Lower Snake Fish and Wildlife	805	805	7.150%	2038	1988	9	-	-
1259	Lower Snake Fish and Wildlife	1,557	1,557	7.150%	2040	1990	9	-	-
1260	Lower Snake Fish and Wildlife	4,411	4,411	7.150%	2041	1991	9	-	-
1261	Lower Snake Fish and Wildlife	71,632	71,632	7.150%	2043	1993	9	-	-
1262	Lower Snake Fish and Wildlife	4,722	4,722	7.150%	2044	1994	9	-	-
1263	Lower Snake Fish and Wildlife	12,085	12,085	7.150%	2046	1996	9	-	-
1264	Lower Snake Fish and Wildlife	2,173	2,173	7.150%	2047	1997	9	-	-
1265	Lower Snake Fish and Wildlife	7	7	5.375%	2049	1999	9	-	-
1266	Lower Snake Fish and Wildlife	1,529	1,529	6.125%	2050	2000	9	-	-
1267	Lower Snake Fish and Wildlife	325	325	5.875%	2051	2001	9	-	-
1268	Lower Snake Fish and Wildlife	890	890	5.500%	2052	2002	9	-	-
1269	Lower Snake Fish and Wildlife	98	98	5.125%	2053	2003	9	-	-
1270	Lower Snake Fish and Wildlife	230	230	5.375%	2054	2004	9	-	-
1271	Lower Snake Fish and Wildlife	4	4	5.125%	2055	2005	9	-	-
1272	Lower Snake Fish and Wildlife	379	379	4.500%	2056	2006	9	-	-
1273	Lower Snake Fish and Wildlife	74	74	4.875%	2058	2008	9	-	-
1274	Lower Snake Fish and Wildlife	1,540	1,540	4.375%	2059	2009	9	-	-
1275	Lower Snake Fish and Wildlife	6	6	4.250%	2060	2010	9	-	-

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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
1276	Lower Snake Fish and Wildlife	141	141	3.750%	2061	2011	9	-	-
1277	McNary	80,256	-	6.880%	2004	1954	9	-	-
1278	McNary	53,493	-	6.910%	2005	1955	9	-	-
1279	McNary	38,748	-	6.950%	2006	1956	9	-	-
1280	McNary	24,985	-	6.980%	2007	1957	9	-	-
1281	McNary	468	-	6.980%	2007	1958	9	-	-
1282	McNary	468	-	6.980%	2007	1959	9	-	-
1283	McNary	468	-	6.980%	2007	1960	9	-	-
1284	McNary	468	-	6.980%	2007	1961	9	-	-
1285	McNary	467	-	6.980%	2007	1962	9	-	-
1286	McNary	468	-	6.980%	2007	1963	9	-	-
1287	McNary	468	-	6.980%	2007	1964	9	-	-
1288	McNary	468	-	6.980%	2007	1965	9	-	-
1289	McNary	468	-	6.980%	2007	1966	9	-	-
1290	McNary	467	-	6.980%	2007	1967	9	-	-
1291	McNary	468	-	6.980%	2007	1968	9	-	-
1292	McNary	468	-	6.980%	2007	1969	9	-	-
1293	McNary	468	-	6.980%	2007	1970	9	-	-
1294	McNary	468	-	6.980%	2007	1971	9	-	-
1295	McNary	468	-	6.980%	2007	1972	9	-	-
1296	McNary	467	-	6.980%	2007	1973	9	-	-
1297	McNary	468	-	6.980%	2007	1974	9	-	-
1298	McNary	468	-	6.980%	2007	1975	9	-	-
1299	McNary	468	-	6.980%	2007	1976	9	-	-
1300	McNary	467	-	6.980%	2007	1977	9	-	-
1301	McNary	468	-	6.980%	2007	1978	9	-	-
1302	McNary	468	-	6.980%	2007	1979	9	-	-
1303	McNary	468	-	6.980%	2007	1980	9	-	-
1304	McNary	468	-	6.980%	2007	1981	9	-	-
1305	McNary	467	-	6.980%	2007	1982	9	-	-
1306	McNary	468	-	6.980%	2007	1983	9	-	-
1307	McNary	557	-	6.980%	2007	1985	9	-	-
1308	McNary	454	-	6.980%	2007	1986	9	-	-
1309	McNary	24	-	6.980%	2007	1987	9	-	-
1310	McNary	509	-	7.090%	2010	1995	9	-	-
1311	McNary	16	16	7.150%	2045	1995	9	-	-
1312	McNary	778	-	6.950%	2006	1996	9	-	-
1313	McNary	3	-	7.130%	2011	1996	9	-	-
1314	McNary	74	74	7.150%	2026	1996	9	-	-
1315	McNary	277	277	7.150%	2026	1996	9	-	-
1316	McNary	619	619	7.150%	2046	1996	9	-	-
1317	McNary	30	30	7.150%	2032	1997	9	-	-
1318	McNary	1,046	1,046	5.875%	2051	2001	9	-	-
1319	McNary	97	97	5.750%	2053	2003	9	-	-
1320	McNary	6,138	6,138	5.375%	2054	2004	9	-	-
1321	McNary	550	550	5.125%	2055	2005	9	-	-
1322	McNary	4,080	4,080	4.500%	2056	2006	9	-	-
1323	McNary	215	215	4.875%	2058	2008	9	-	-
1324	McNary	523	523	3.750%	2061	2011	9	-	-
1325	Minidoka/Palisades	854	-	3.000%	1959	1909	9	-	-
1326	Minidoka/Palisades	226	-	3.000%	1959	1909	9	-	-
1327	Minidoka/Palisades	1,709	-	3.000%	1960	1910	9	-	-
1328	Minidoka/Palisades	451	-	3.000%	1960	1910	9	-	-
1329	Minidoka/Palisades	1,709	-	3.000%	1961	1911	9	-	-
1330	Minidoka/Palisades	451	-	3.000%	1961	1911	9	-	-
1331	Minidoka/Palisades	854	-	3.000%	1977	1927	9	-	-
1332	Minidoka/Palisades	226	-	3.000%	1977	1927	9	-	-
1333	Minidoka/Palisades	854	-	3.000%	1992	1942	9	-	-
1334	Minidoka/Palisades	226	-	3.000%	1992	1942	9	-	-
1335	Minidoka/Palisades	2,561	-	3.000%	2007	1957	9	-	-
1336	Minidoka/Palisades	677	-	3.000%	2007	1957	9	-	-
1337	Minidoka/Palisades	854	-	3.000%	2008	1958	9	-	-
1338	Minidoka/Palisades	226	-	3.000%	2008	1958	9	-	-
1339	Minidoka/Palisades	108	-	3.000%	2008	1959	9	-	-
1340	Minidoka/Palisades	28	-	3.000%	2008	1959	9	-	-
1341	Minidoka/Palisades	108	-	3.000%	2008	1960	9	-	-
1342	Minidoka/Palisades	29	-	3.000%	2008	1960	9	-	-
1343	Minidoka/Palisades	108	-	3.000%	2008	1961	9	-	-
1344	Minidoka/Palisades	29	-	3.000%	2008	1961	9	-	-
1345	Minidoka/Palisades	108	-	3.000%	2008	1962	9	-	-
1346	Minidoka/Palisades	28	-	3.000%	2008	1962	9	-	-
1347	Minidoka/Palisades	108	-	3.000%	2008	1963	9	-	-
1348	Minidoka/Palisades	29	-	3.000%	2008	1963	9	-	-
1349	Minidoka/Palisades	108	-	3.000%	2008	1964	9	-	-
1350	Minidoka/Palisades	28	-	3.000%	2008	1964	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
1351	Minidoka/Palisades	108	-	3.000%	2008	1965	9	-	-
1352	Minidoka/Palisades	29	-	3.000%	2008	1965	9	-	-
1353	Minidoka/Palisades	108	-	3.000%	2008	1966	9	-	-
1354	Minidoka/Palisades	29	-	3.000%	2008	1966	9	-	-
1355	Minidoka/Palisades	108	-	3.000%	2008	1967	9	-	-
1356	Minidoka/Palisades	28	-	3.000%	2008	1967	9	-	-
1357	Minidoka/Palisades	108	-	3.000%	2008	1968	9	-	-
1358	Minidoka/Palisades	29	-	3.000%	2008	1968	9	-	-
1359	Minidoka/Palisades	3	-	3.000%	2008	1969	9	-	-
1360	Minidoka/Palisades	28	-	3.000%	2008	1969	9	-	-
1361	Minidoka/Palisades	108	-	3.000%	2008	1970	9	-	-
1362	Minidoka/Palisades	29	-	3.000%	2008	1970	9	-	-
1363	Minidoka/Palisades	108	-	3.000%	2008	1971	9	-	-
1364	Minidoka/Palisades	29	-	3.000%	2008	1971	9	-	-
1365	Minidoka/Palisades	108	-	3.000%	2008	1972	9	-	-
1366	Minidoka/Palisades	28	-	3.000%	2008	1972	9	-	-
1367	Minidoka/Palisades	108	-	3.000%	2008	1973	9	-	-
1368	Minidoka/Palisades	29	-	3.000%	2008	1973	9	-	-
1369	Minidoka/Palisades	108	-	3.000%	2008	1974	9	-	-
1370	Minidoka/Palisades	28	-	3.000%	2008	1974	9	-	-
1371	Minidoka/Palisades	108	-	3.000%	2008	1975	9	-	-
1372	Minidoka/Palisades	29	-	3.000%	2008	1975	9	-	-
1373	Minidoka/Palisades	108	-	3.000%	2008	1976	9	-	-
1374	Minidoka/Palisades	29	-	3.000%	2008	1976	9	-	-
1375	Minidoka/Palisades	83	-	7.020%	2008	1977	9	-	-
1376	Minidoka/Palisades	28	-	7.020%	2008	1977	9	-	-
1377	Minidoka/Palisades	75	-	7.020%	2008	1978	9	-	-
1378	Minidoka/Palisades	20	-	7.020%	2008	1978	9	-	-
1379	Minidoka/Palisades	75	-	7.020%	2008	1979	9	-	-
1380	Minidoka/Palisades	19	-	7.020%	2008	1979	9	-	-
1381	Minidoka/Palisades	75	-	7.020%	2008	1980	9	-	-
1382	Minidoka/Palisades	20	-	7.020%	2008	1980	9	-	-
1383	Minidoka/Palisades	75	-	7.020%	2008	1981	9	-	-
1384	Minidoka/Palisades	20	-	7.020%	2008	1981	9	-	-
1385	Minidoka/Palisades	75	-	7.020%	2008	1982	9	-	-
1386	Minidoka/Palisades	19	-	7.020%	2008	1982	9	-	-
1387	Minidoka/Palisades	65	-	7.020%	2008	1983	9	-	-
1388	Minidoka/Palisades	20	-	7.020%	2008	1983	9	-	-
1389	Minidoka/Palisades	44	-	10.075%	2008	1984	9	-	-
1390	Minidoka/Palisades	11	-	10.075%	2008	1984	9	-	-
1391	Minidoka/Palisades	21	-	7.020%	2008	1985	9	-	-
1392	Minidoka/Palisades	21	-	7.020%	2008	1986	9	-	-
1393	Minidoka/Palisades	48	-	11.375%	2008	1986	9	-	-
1394	Minidoka/Palisades	16	-	7.020%	2008	1987	9	-	-
1395	Minidoka/Palisades	31	-	8.500%	2008	1988	9	-	-
1396	Minidoka/Palisades	20	-	9.250%	2008	1989	9	-	-
1397	Minidoka/Palisades	33	-	8.875%	2008	1990	9	-	-
1398	Minidoka/Palisades	62	-	8.750%	2008	1991	9	-	-
1399	Minidoka/Palisades	11	-	8.750%	2008	1991	9	-	-
1400	Minidoka/Palisades	32	-	8.750%	2008	1991	9	-	-
1401	Minidoka/Palisades	6	-	8.500%	2008	1992	9	-	-
1402	Minidoka/Palisades	351	-	7.125%	2029	1994	9	-	-
1403	Minidoka/Palisades	6	-	7.330%	2000	1995	9	-	-
1404	Minidoka/Palisades	40	-	7.890%	2010	1995	9	-	-
1405	Minidoka/Palisades	54	-	7.130%	2011	1996	9	-	-
1406	Minidoka/Palisades	66	-	6.950%	2007	1997	9	-	-
1407	Minidoka/Palisades	50,911	50,911	7.150%	2047	1997	9	-	-
1408	Minidoka/Palisades	42	42	5.875%	2051	2001	9	-	-
1409	Rogue River Projects - Green Springs	11,145	11,145	5.875%	2051	2001	9	-	-
1410	The Dalles	15,908	-	2.500%	2007	1957	9	-	-
1411	The Dalles	45,837	-	7.020%	2008	1958	9	-	-
1412	The Dalles	40,415	-	7.060%	2009	1959	9	-	-
1413	The Dalles	39,179	-	7.090%	2010	1960	9	-	-
1414	The Dalles	9,492	-	7.130%	2011	1961	9	-	-
1415	The Dalles	56	-	7.130%	2011	1962	9	-	-
1416	The Dalles	57	-	7.130%	2011	1963	9	-	-
1417	The Dalles	57	-	7.130%	2011	1964	9	-	-
1418	The Dalles	56	-	7.130%	2011	1965	9	-	-
1419	The Dalles	57	-	7.130%	2011	1966	9	-	-
1420	The Dalles	57	-	7.130%	2011	1967	9	-	-
1421	The Dalles	56	-	7.130%	2011	1968	9	-	-
1422	The Dalles	57	-	7.130%	2011	1969	9	-	-
1423	The Dalles	57	-	7.130%	2011	1970	9	-	-
1424	The Dalles	56	-	7.130%	2011	1971	9	-	-
1425	The Dalles	57	-	7.130%	2011	1972	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
1426	The Dalles	57	-	7.130%	2011	1973	9	-	-
1427	The Dalles	21,983	-	7.190%	2023	1973	9	-	-
1428	The Dalles	56	-	7.130%	2011	1974	9	-	-
1429	The Dalles	7,268	7,240	7.170%	2024	1974	9	-	-
1430	The Dalles	57	-	7.130%	2011	1975	9	-	-
1431	The Dalles	57	-	7.130%	2011	1976	9	-	-
1432	The Dalles	56	-	7.130%	2011	1977	9	-	-
1433	The Dalles	57	-	7.130%	2011	1978	9	-	-
1434	The Dalles	57	-	7.130%	2011	1979	9	-	-
1435	The Dalles	56	-	7.130%	2011	1980	9	-	-
1436	The Dalles	57	-	7.130%	2011	1981	9	-	-
1437	The Dalles	57	-	7.130%	2011	1982	9	-	-
1438	The Dalles	56	-	7.130%	2011	1983	9	-	-
1439	The Dalles	961	-	10.750%	2011	1984	9	-	-
1440	The Dalles	95	-	7.130%	2011	1985	9	-	-
1441	The Dalles	280	-	12.375%	2011	1985	9	-	-
1442	The Dalles	95	-	7.130%	2011	1986	9	-	-
1443	The Dalles	4	-	11.375%	2011	1986	9	-	-
1444	The Dalles	1,417	-	7.130%	2011	1987	9	-	-
1445	The Dalles	81	-	8.875%	2011	1987	9	-	-
1446	The Dalles	685	-	8.500%	2011	1988	9	-	-
1447	The Dalles	1	-	8.500%	2011	1988	9	-	-
1448	The Dalles	898	-	9.250%	2011	1989	9	-	-
1449	The Dalles	319	-	8.875%	2011	1990	9	-	-
1450	The Dalles	745	-	8.875%	2011	1990	9	-	-
1451	The Dalles	89	-	8.750%	2011	1991	9	-	-
1452	The Dalles	2,452	-	8.750%	2011	1991	9	-	-
1453	The Dalles	57	-	8.500%	2011	1992	9	-	-
1454	The Dalles	130	-	8.500%	2011	1992	9	-	-
1455	The Dalles	2,028	-	7.875%	2011	1993	9	-	-
1456	The Dalles	2,929	-	7.875%	2011	1993	9	-	-
1457	The Dalles	1,425	-	7.125%	2029	1994	9	-	-
1458	The Dalles	196	-	7.020%	2008	1996	9	-	-
1459	The Dalles	457	-	7.130%	2011	1996	9	-	-
1460	The Dalles	1,991	1,991	7.150%	2046	1996	9	-	-
1461	The Dalles	2,588	2,588	6.125%	2050	2000	9	-	-
1462	The Dalles	1,226	1,226	5.500%	2052	2002	9	-	-
1463	The Dalles	182	182	5.375%	2054	2004	9	-	-
1464	The Dalles	36,019	36,019	5.125%	2055	2005	9	-	-
1465	The Dalles	2,030	2,030	4.500%	2056	2006	9	-	-
1466	The Dalles	140	140	5.000%	2057	2007	9	-	-
1467	The Dalles	1,652	1,652	4.875%	2058	2008	9	-	-
1468	Yakima Chandler/Kenniwick	1,068	-	7.210%	2022	1956	9	-	-
1469	Yakima Chandler/Kenniwick	481	-	7.210%	2022	1956	9	-	-
1470	Yakima Chandler/Kenniwick	1	-	7.210%	2022	1959	9	-	-
1471	Yakima Chandler/Kenniwick	1	-	7.210%	2022	1960	9	-	-
1472	Yakima Chandler/Kenniwick	1	-	7.210%	2022	1961	9	-	-
1473	Yakima Chandler/Kenniwick	35	-	10.750%	2022	1984	9	-	-
1474	Yakima Chandler/Kenniwick	10	-	10.750%	2022	1984	9	-	-
1475	Yakima Chandler/Kenniwick	357	-	12.375%	2022	1985	9	-	-
1476	Yakima Chandler/Kenniwick	439	-	7.210%	2022	1986	9	-	-
1477	Yakima Chandler/Kenniwick	7	-	11.375%	2022	1986	9	-	-
1478	Yakima Chandler/Kenniwick	126	-	8.875%	2022	1987	9	-	-
1479	Yakima Chandler/Kenniwick	18	-	9.250%	2022	1989	9	-	-
1480	Yakima Chandler/Kenniwick	40	-	8.875%	2022	1990	9	-	-
1481	Yakima Chandler/Kenniwick	109	-	8.750%	2022	1991	9	-	-
1482	Yakima Chandler/Kenniwick	833	833	5.125%	2055	2005	9	-	-
1483	Yakima Chandler/Kenniwick	15	15	4.375%	2059	2009	9	-	-
1484	Yakima Roza	1,194	-	7.020%	2008	1958	9	-	-
1485	Yakima Roza	383	-	7.020%	2008	1958	9	-	-
1486	Yakima Roza	17	-	10.750%	2008	1984	9	-	-
1487	Yakima Roza	5	-	10.750%	2008	1984	9	-	-
1488	Yakima Roza	69	-	7.020%	2008	1985	9	-	-
1489	Yakima Roza	5	-	12.375%	2008	1985	9	-	-
1490	Yakima Roza	6	-	7.020%	2008	1986	9	-	-
1491	Yakima Roza	2	-	7.020%	2008	1987	9	-	-
1492	Yakima Roza	9	-	8.875%	2008	1987	9	-	-
1493	Yakima Roza	15	14	5.875%	2051	2001	9	-	-
1494	Bureau Direct	35,000	-	7.500%	2015	1995	5	-	-
1495	Bureau Direct	50,000	-	6.500%	2000	1997	5	-	-
1496	Bureau Direct	25,000	-	6.000%	2008	1998	5	-	-
1497	Bureau Direct	20,000	-	6.400%	2004	1999	9	-	-
1498	Bureau Direct	40,000	-	6.850%	2003	2000	4	-	-
1499	Bureau Direct	20,000	-	6.700%	2005	2000	9	-	-
1500	Bureau Direct	50,000	-	4.750%	2004	2001	6	-	-

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	Bureau Direct	30,000	-	4.600%	2005	2002	3	-	-
1502	Bureau Direct	20,000	-	3.050%	2006	2002	9	-	-
1503	Bureau Direct	40,000	-	2.400%	2006	2003	4	-	-
1504	Bureau Direct	25,000	-	2.400%	2006	2003	4	-	-
1505	Bureau Direct	30,000	-	2.300%	2006	2003	7	-	-
1506	Bureau Direct	25,000	-	2.500%	2006	2003	9	-	-
1507	Bureau Direct	40,000	-	3.050%	2007	2003	12	-	-
1508	Bureau Direct	25,000	-	2.500%	2007	2004	1	-	-
1509	Bureau Direct	35,000	-	2.950%	2007	2004	4	-	-
1510	Bureau Direct	30,000	-	3.100%	2007	2004	9	-	-
1511	Bureau Direct	25,000	-	3.450%	2007	2004	7	-	-
1512	Bureau Direct	20,000	-	3.500%	2008	2005	11	-	-
1513	Bureau Direct	20,000	-	3.600%	2008	2005	1	-	-
1514	Bureau Direct	30,000	-	3.950%	2008	2005	6	-	-
1515	Bureau Direct	25,000	-	4.250%	2008	2005	9	-	-
1516	Bureau Direct	25,000	-	5.050%	2009	2006	3	-	-
1517	Bureau Direct	45,000	-	5.350%	2009	2006	7	-	-
1518	Bureau Direct	15,000	-	4.950%	2009	2006	9	-	-
1519	Bureau Direct	35,000	-	5.100%	2010	2007	1	-	-
1520	Bureau Direct	30,000	-	4.800%	2010	2007	3	-	-
1521	Bureau Direct	30,000	-	5.350%	2010	2007	6	-	-
1522	Bureau Direct	35,000	-	2.850%	2011	2008	1	-	-
1523	Bureau Direct	35,000	-	3.358%	2011	2008	5	-	-
1524	Bureau Direct	25,000	-	3.358%	2011	2008	5	-	-
1525	Bureau Direct	20,000	-	2.850%	2011	2008	1	-	-
1526	Bureau Direct	30,000	-	3.974%	2012	2008	6	-	-
1527	Bureau Direct	35,000	-	3.913%	2012	2008	7	-	-
1528	Bureau Direct	35,000	-	3.444%	2012	2008	9	-	-
1529	Bureau Direct	25,000	25,000	3.699%	2019	2009	9	-	-
1530	Bureau Direct	25,000	25,000	3.999%	2021	2009	1	-	-
1531	Bureau Direct	25,000	25,000	4.391%	2023	2009	4	-	-
1532	Bureau Direct	25,000	25,000	5.192%	2039	2009	6	-	-
1533	Bureau Direct	24,000	24,000	3.719%	2019	2010	10	-	-
1534	Bureau Direct	10,000	10,000	3.714%	2019	2010	1	-	-
1535	Bureau Direct	10,000	-	0.165%	2019	2010	2	-	-
1536	Bureau Direct	20,000	20,000	3.842%	2020	2010	10	-	-
1537	Bureau Direct	7,000	7,000	3.637%	2020	2010	11	-	-
1538	Bureau Direct	13,000	13,000	4.194%	2020	2010	12	-	-
1539	Bureau Direct	30,000	30,000	4.083%	2020	2010	3	-	-
1540	Bureau Direct	18,000	18,000	3.973%	2020	2010	4	-	-
1541	Bureau Direct	15,000	15,000	3.574%	2020	2010	5	-	-
1542	Bureau Direct	10,000	10,000	3.243%	2020	2010	6	-	-
1543	Bureau Direct	30,000	30,000	3.243%	2020	2010	6	-	-
1544	Bureau Direct	17,000	17,000	3.118%	2020	2010	7	-	-
1545	Bureau Direct	5,000	-	0.165%	2020	2010	8	-	-
1546	Bureau Direct	22,000	22,000	2.883%	2021	2010	9	-	-
1547	Bureau Direct	20,000	-	0.244%	2011	2011	9	-	-
1548	Bureau Direct	35,000	-	0.076%	2011	2011	9	-	-
1549	Bureau Direct	25,000	-	0.076%	2011	2011	9	-	-
1550	Bureau Direct	35,000	-	0.244%	2011	2011	9	-	-
1551	Bureau Direct	20,000	20,000	4.211%	2035	2011	10	-	-
1552	Bureau Direct	30,000	30,000	4.629%	2036	2011	6	-	-
1553	Bureau Direct	30,000	30,000	4.208%	2037	2011	8	-	-
1554	Bureau Direct	30,000	30,000	4.700%	2038	2011	7	-	-
1555	Bureau Direct	35,000	35,000	5.040%	2039	2011	1	-	-
1556	Bureau Direct	50,000	50,000	4.995%	2040	2011	2	-	-
1557	Bureau Direct	30,000	30,000	3.825%	2041	2011	7	-	-
1558	Bureau Direct	30,000	-	0.119%	2012	2012	9	-	-
1559	Bureau Direct	25,000	25,000	3.590%	2027	2012	9	-	-
1560	Bureau Direct	55,000	55,000	3.780%	2034	2012	2	-	-
1561	Bureau Direct	15,000	15,000	3.860%	2038	2012	1	-	-
1562	Bureau Direct	35,000	-	3.880%	2039	2012	12	-	-
1563	Bureau Direct	35,000	35,000	3.860%	2039	2012	12	-	-
1564	Bureau Direct	50,000	50,000	3.666%	2041	2012	6	-	-
1565	Bureau Direct	44,000	44,000	3.590%	2042	2012	8	-	-
1566	Conservation	140,000	-	12.200%	2003	1983	9	-	-

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	144,966	144,966	4.030%	2063	2013	9
2	Columbia River Fish Mitigation	99,343	99,343	4.370%	2064	2014	9
3	Bureau Direct	18,924	18,924	4.000%	2043	2013	2
4	Bureau Direct	14,304	14,304	4.000%	2043	2013	10
5	Bureau Direct	17,477	17,477	4.000%	2043	2013	11
6	Bureau Direct	21,022	21,022	4.000%	2043	2013	12
7	Bureau Direct	22,523	22,523	4.000%	2043	2013	1
8	Bureau Direct	16,614	16,614	4.000%	2043	2013	3
9	Bureau Direct	19,783	19,783	4.000%	2043	2013	4
10	Bureau Direct	22,569	22,569	4.000%	2043	2013	5
11	Bureau Direct	19,300	19,300	4.000%	2043	2013	6
12	Bureau Direct	21,402	21,402	4.000%	2043	2013	6
13	Bureau Direct	23,232	23,232	4.000%	2043	2013	7
14	Bureau Direct	24,667	24,667	4.000%	2043	2013	9
15	Bureau Direct	22,664	22,664	4.400%	2044	2014	1
16	Bureau Direct	19,048	19,048	4.400%	2044	2014	3
17	Bureau Direct	16,721	16,721	4.400%	2044	2014	3
18	Bureau Direct	17,589	17,589	4.400%	2044	2014	11
19	Bureau Direct	19,910	19,910	4.400%	2044	2014	4
20	Bureau Direct	22,714	22,714	4.400%	2044	2014	5
21	Bureau Direct	19,422	19,422	4.400%	2044	2014	6
22	Bureau Direct	14,393	14,393	4.400%	2044	2014	10
23	Bureau Direct	21,153	21,153	4.400%	2044	2014	12
24	Bureau Direct	21,533	21,533	4.400%	2044	2014	6
25	Bureau Direct	23,378	23,378	4.400%	2044	2014	7
26	Bureau Direct	24,819	24,819	4.400%	2044	2014	9
27	Conservation	22,187	22,187	3.000%	2025	2013	9
28	Conservation	15,591	15,591	3.000%	2025	2013	3
29	Conservation	23,587	23,587	3.000%	2025	2013	6
30	Conservation	13,835	13,835	3.000%	2026	2013	12
31	Conservation	13,835	13,835	3.500%	2026	2014	12
32	Conservation	22,187	22,187	3.500%	2026	2014	9
33	Conservation	23,587	23,587	3.500%	2026	2014	6
34	Conservation	15,591	15,591	3.500%	2026	2014	3
35	Construction	3,767	3,767	1.800%	2019	2013	12
36	Construction	4,037	4,037	1.800%	2019	2013	6
37	Construction	4,680	4,680	1.800%	2019	2013	9
38	Construction	4,394	4,394	1.800%	2019	2013	3
39	Construction	3,288	3,288	2.600%	2020	2014	3
40	Construction	3,021	3,021	2.600%	2020	2014	6
41	Construction	2,819	2,819	2.600%	2020	2014	12
42	Construction	3,502	3,502	2.600%	2026	2014	9

TABLE 11B: PROJECTED INVESTMENTS
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(\$000s) (FY 2014)

	A	B	C	D	E	F	G
	Project	Initial Principal	Current Principal	Interest Rate	Due Date	In Service Date	Month
43	Fish and Wildlife	11,204	11,204	3.200%	2028	2013	3
44	Fish and Wildlife	15,026	15,026	3.200%	2028	2013	12
45	Fish and Wildlife	13,205	13,205	3.200%	2028	2013	6
46	Fish and Wildlife	27,710	27,710	3.200%	2028	2013	9
47	Fish and Wildlife	10,058	10,058	3.700%	2029	2014	3
48	Fish and Wildlife	13,488	13,488	3.700%	2029	2014	12
49	Fish and Wildlife	24,875	24,875	3.700%	2029	2014	9
50	Fish and Wildlife	11,854	11,854	3.700%	2029	2014	6
51		1,036,798	1,036,798				

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	145,701	5.557%	8,096	-	8,096
5	2013	Chief Joseph	Historical	238,241	6.818%	16,243	-	16,243
6	2013	Columbia Basin	Historical	95,253	5.766%	5,493	-	5,493
7	2013	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
8	2013	Columbia River Fish Mitigation	Historical	1,112,559	4.858%	51,822	-	51,822
9	2013	Cougar	Historical	12,677	5.110%	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	312	5.392%	17	-	17
13	2013	Hills Creek	Historical	2,725	6.107%	166	-	166
14	2013	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
15	2013	Ice Harbor	Historical	35,776	6.352%	2,272	-	2,272
16	2013	John Day	Historical	24,130	5.964%	1,439	-	1,439
17	2013	Libby	Historical	235,714	7.104%	16,745	-	16,745
18	2013	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
19	2013	Lookout Dam	Historical	13,249	5.514%	731	-	731
20	2013	Lost Creek	Historical	14,089	7.137%	1,006	-	1,006
21	2013	Lower Granite	Historical	177,499	7.009%	12,441	-	12,441
22	2013	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
23	2013	Lower Snake Fish and Wildlife	Historical	232,537	7.107%	16,526	-	16,526
24	2013	McNary	Historical	13,665	5.207%	711	-	711
25	2013	Minidoka/Palisades	Historical	50,953	7.149%	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	4.016%	30,721	-	30,721
31	2013	Bureau Direct	New	217,150	1.914%	4,156	-	4,156
32	2013	Conservation	Historical	367,800	3.298%	12,129	-	12,129
33	2013	Conservation	New	53,013	1.962%	722	-	722
34	2013	Construction	Historical	38,150	1.992%	760	-	760
35	2013	Construction	New	12,198	0.890%	109	-	109
36	2013	Fish and Wildlife	Historical	264,000	4.456%	11,764	-	11,764
37	2013	Fish and Wildlife	New	39,435	1.637%	646	-	646
38	2013	Float	Historical	-	-	(3,222)	-	(3,222)
39	FY 2013	Subtotal:		5,294,304		275,130	-	275,130
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	145,701	5.557%	8,096	-	8,096
44	2014	Chief Joseph	Historical	238,241	6.818%	16,243	-	16,243
45	2014	Columbia Basin	Historical	95,253	5.766%	5,493	-	5,493
46	2014	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
47	2014	Columbia River Fish Mitigation	Historical	1,257,525	4.585%	57,664	-	57,664
48	2014	Cougar	Historical	12,677	5.110%	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	312	5.392%	17	-	17
52	2014	Hills Creek	Historical	2,725	6.107%	166	-	166
53	2014	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
54	2014	Ice Harbor	Historical	35,776	6.352%	2,272	-	2,272
55	2014	John Day	Historical	24,130	5.964%	1,439	-	1,439
56	2014	Libby	Historical	235,714	7.104%	16,745	-	16,745
57	2014	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
58	2014	Lookout Dam	Historical	13,249	5.514%	731	-	731
59	2014	Lost Creek	Historical	14,089	7.137%	1,006	-	1,006
60	2014	Lower Granite	Historical	177,499	7.009%	12,441	-	12,441
61	2014	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
62	2014	Lower Snake Fish and Wildlife	Historical	232,537	7.107%	16,526	-	16,526
63	2014	McNary	Historical	13,665	5.207%	711	-	711
64	2014	Minidoka/Palisades	Historical	50,953	7.149%	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	1,006,817	4.012%	40,394	-	40,394
70	2014	Bureau Direct	New	218,525	2.073%	4,531	-	4,531
71	2014	Conservation	Historical	380,200	2.909%	11,058	-	11,058
72	2014	Conservation	New	53,013	1.589%	842	-	842
73	2014	Construction	Historical	55,028	1.933%	1,064	-	1,064
74	2014	Construction	New	9,128	1.286%	117	-	117
75	2014	Fish and Wildlife	Historical	271,145	3.781%	10,253	-	10,253
76	2014	Fish and Wildlife	New	35,400	1.893%	670	-	670
77	2014	Float	Historical	-	-	(2,754)	-	(2,754)
78	FY 2014	Subtotal:		5,711,780		289,363	-	289,363
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	145,701	5.557%	8,096	-	8,096
83	2015	Chief Joseph	Historical	238,241	6.818%	16,243	-	16,243
84	2015	Columbia Basin	Historical	95,253	5.766%	5,493	-	5,493
85	2015	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
86	2015	Columbia River Fish Mitigation	Historical	1,356,868	4.570%	62,005	-	62,005
87	2015	Cougar	Historical	12,677	5.110%	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	14,870	6.377%	948	-	948
90	2015	Green Peter/Foster	Historical	312	5.392%	17	-	17
91	2015	Hills Creek	Historical	2,725	6.107%	166	-	166
92	2015	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
93	2015	Ice Harbor	Historical	35,776	6.352%	2,272	-	2,272
94	2015	John Day	Historical	24,130	5.964%	1,439	-	1,439
95	2015	Libby	Historical	235,714	7.104%	16,745	-	16,745
96	2015	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
97	2015	Lookout Dam	Historical	13,249	5.514%	731	-	731
98	2015	Lost Creek	Historical	14,089	7.137%	1,006	-	1,006
99	2015	Lower Granite	Historical	177,499	7.009%	12,441	-	12,441
100	2015	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
101	2015	Lower Snake Fish and Wildlife	Historical	232,537	7.107%	16,526	-	16,526
102	2015	McNary	Historical	13,665	5.207%	711	-	711
103	2015	Minidoka/Palisades	Historical	50,953	7.149%	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	1,250,161	4.088%	51,101	-	51,101
109	2015	Conservation	Historical	440,400	3.015%	13,278	-	13,278
110	2015	Construction	Historical	52,708	1.805%	952	-	952
111	2015	Fish and Wildlife	Historical	331,420	3.766%	12,483	-	12,483
112	2015	Float	Historical	-	-	(2,785)	-	(2,785)
113	FY 2015	Subtotal:		5,765,389		296,003	-	296,003
114	2016	Albeni Falls	Historical	191,941	4.900%	9,405	-	9,405
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	145,701	5.557%	8,096	-	8,096
118	2016	Chief Joseph	Historical	238,241	6.818%	16,243	-	16,243
119	2016	Columbia Basin	Historical	95,253	5.766%	5,493	-	5,493
120	2016	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
121	2016	Columbia River Fish Mitigation	Historical	1,356,868	4.570%	62,005	-	62,005
122	2016	Cougar	Historical	12,677	5.110%	648	-	648
123	2016	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
124	2016	Dworshak	Historical	14,095	6.332%	892	-	892
125	2016	Green Peter/Foster	Historical	312	5.392%	17	-	17
126	2016	Hills Creek	Historical	2,725	6.107%	166	-	166
127	2016	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
128	2016	Ice Harbor	Historical	35,776	6.352%	2,272	-	2,272
129	2016	John Day	Historical	24,130	5.964%	1,439	-	1,439
130	2016	Libby	Historical	235,714	7.104%	16,745	-	16,745
131	2016	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
132	2016	Lookout Dam	Historical	13,249	5.514%	731	-	731
133	2016	Lost Creek	Historical	14,089	7.137%	1,006	-	1,006
134	2016	Lower Granite	Historical	177,305	7.009%	12,427	-	12,427
135	2016	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
136	2016	Lower Snake Fish and Wildlife	Historical	232,537	7.107%	16,526	-	16,526
137	2016	McNary	Historical	13,665	5.207%	711	-	711
138	2016	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
139	2016	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
140	2016	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
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	1,250,161	4.088%	51,101	-	51,101
144	2016	Conservation	Historical	335,400	3.474%	11,652	-	11,652
145	2016	Construction	Historical	40,008	2.047%	819	-	819
146	2016	Fish and Wildlife	Historical	331,420	3.766%	12,483	-	12,483
147	2016	Float	Historical	-	-	(2,917)	-	(2,917)
148	FY 2016	Subtotal:		5,828,331		302,720	-	302,720
149	2017	Albeni Falls	Historical	379,689	4.885%	18,549	-	18,549
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	145,701	5.557%	8,096	-	8,096
153	2017	Chief Joseph	Historical	238,241	6.818%	16,243	-	16,243
154	2017	Columbia Basin	Historical	95,253	5.766%	5,493	-	5,493
155	2017	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
156	2017	Columbia River Fish Mitigation	Historical	1,356,868	4.570%	62,005	-	62,005
157	2017	Cougar	Historical	12,677	5.110%	648	-	648
158	2017	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
159	2017	Dworshak	Historical	14,095	6.332%	892	-	892
160	2017	Green Peter/Foster	Historical	312	5.392%	17	-	17
161	2017	Hills Creek	Historical	2,725	6.107%	166	-	166
162	2017	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
163	2017	Ice Harbor	Historical	35,776	6.352%	2,272	-	2,272
164	2017	John Day	Historical	24,130	5.964%	1,439	-	1,439
165	2017	Libby	Historical	235,714	7.104%	16,745	-	16,745
166	2017	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
167	2017	Lookout Dam	Historical	13,249	5.514%	731	-	731
168	2017	Lost Creek	Historical	14,089	7.137%	1,006	-	1,006
169	2017	Lower Granite	Historical	61,081	6.721%	4,105	-	4,105
170	2017	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
171	2017	Lower Snake Fish and Wildlife	Historical	232,537	7.107%	16,526	-	16,526
172	2017	McNary	Historical	13,665	5.207%	711	-	711
173	2017	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
174	2017	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
175	2017	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
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	1,250,161	4.088%	51,101	-	51,101
179	2017 Conservation	Historical	335,400	3.474%	11,652	-	11,652
180	2017 Construction	Historical	29,508	2.142%	632	-	632
181	2017 Fish and Wildlife	Historical	331,420	3.766%	12,483	-	12,483
182	2017 Float	Historical	-	-	(2,654)	-	(2,654)
183	FY 2017 Subtotal:		5,889,355		303,618	-	303,618
184	2018 Albeni Falls	Historical	561,020	4.880%	27,380	-	27,380
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	145,701	5.557%	8,096	-	8,096
188	2018 Chief Joseph	Historical	238,241	6.818%	16,243	-	16,243
189	2018 Columbia Basin	Historical	95,253	5.766%	5,493	-	5,493
190	2018 Columbia Basin 3rd Powerhouse	Historical	415,031	7.150%	29,675	-	29,675
191	2018 Columbia River Fish Mitigation	Historical	1,356,868	4.570%	62,005	-	62,005
192	2018 Cougar	Historical	12,677	5.110%	648	-	648
193	2018 Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
194	2018 Dworshak	Historical	14,095	6.332%	892	-	892
195	2018 Green Peter/Foster	Historical	312	5.392%	17	-	17
196	2018 Hills Creek	Historical	2,725	6.107%	166	-	166
197	2018 Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
198	2018 Ice Harbor	Historical	35,776	6.352%	2,272	-	2,272
199	2018 John Day	Historical	24,130	5.964%	1,439	-	1,439
200	2018 Libby	Historical	187,576	7.089%	13,298	-	13,298
201	2018 Little Goose	Historical	63,790	6.911%	4,408	-	4,408
202	2018 Lookout Dam	Historical	13,249	5.514%	731	-	731
203	2018 Lost Creek	Historical	14,089	7.137%	1,006	-	1,006
204	2018 Lower Granite	Historical	55,127	6.674%	3,679	-	3,679
205	2018 Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
206	2018 Lower Snake Fish and Wildlife	Historical	232,537	7.107%	16,526	-	16,526
207	2018 McNary	Historical	13,665	5.207%	711	-	711
208	2018 Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
209	2018 Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
210	2018 The Dalles	Historical	45,827	5.243%	2,403	-	2,403
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	1,250,161	4.088%	51,101	-	51,101
214	2018 Conservation	Historical	335,400	3.474%	11,652	-	11,652
215	2018 Construction	Historical	29,508	2.142%	632	-	632
216	2018 Fish and Wildlife	Historical	331,420	3.766%	12,483	-	12,483
217	2018 Float	Historical	-	-	(1,909)	-	(1,909)
218	FY 2018 Subtotal:		5,976,235		306,431	-	306,431
219	2019 Albeni Falls	Historical	743,200	4.878%	36,252	-	36,252
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	145,701	5.557%	8,096	-	8,096
223	2019 Chief Joseph	Historical	238,241	6.818%	16,243	-	16,243
224	2019 Columbia Basin	Historical	95,253	5.766%	5,493	-	5,493
225	2019 Columbia Basin 3rd Powerhouse	Historical	415,030	7.150%	29,675	-	29,675
226	2019 Columbia River Fish Mitigation	Historical	1,356,868	4.570%	62,005	-	62,005
227	2019 Cougar	Historical	12,677	5.110%	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	312	5.392%	17	-	17
231	2019 Hills Creek	Historical	2,725	6.107%	166	-	166
232	2019 Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
233	2019 Ice Harbor	Historical	35,776	6.352%	2,272	-	2,272
234	2019 John Day	Historical	24,130	5.964%	1,439	-	1,439
235	2019 Libby	Historical	187,576	7.089%	13,298	-	13,298
236	2019 Little Goose	Historical	63,790	6.911%	4,408	-	4,408
237	2019 Lookout Dam	Historical	13,249	5.514%	731	-	731
238	2019 Lost Creek	Historical	14,089	7.137%	1,006	-	1,006
239	2019 Lower Granite	Historical	55,127	6.674%	3,679	-	3,679
240	2019 Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
241	2019 Lower Snake Fish and Wildlife	Historical	232,537	7.107%	16,526	-	16,526
242	2019 McNary	Historical	13,665	5.207%	711	-	711
243	2019 Minidoka/Palisades	Historical	50,953	7.149%	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	1,250,161	4.088%	51,101	-	51,101
249	2019 Conservation	Historical	335,400	3.474%	11,652	-	11,652
250	2019 Construction	Historical	29,508	2.142%	632	-	632
251	2019 Fish and Wildlife	Historical	331,420	3.766%	12,483	-	12,483
252	2019 Float	Historical	-	-	(3,365)	-	(3,365)
253	FY 2019 Subtotal:		6,158,414		313,847	-	313,847
254	2020 Albeni Falls	Historical	922,874	4.876%	45,002	-	45,002
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	145,701	5.557%	8,096	-	8,096
258	2020 Chief Joseph	Historical	238,241	6.818%	16,243	-	16,243
259	2020 Columbia Basin	Historical	95,180	5.765%	5,487	-	5,487
260	2020 Columbia Basin 3rd Powerhouse	Historical	411,264	7.150%	29,405	-	29,405
261	2020 Columbia River Fish Mitigation	Historical	1,356,868	4.570%	62,005	-	62,005
262	2020 Cougar	Historical	12,677	5.110%	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	312	5.392%	17	-	17
266	2020	Hills Creek	Historical	2,725	6.107%	166	-	166
267	2020	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
268	2020	Ice Harbor	Historical	35,755	6.351%	2,271	-	2,271
269	2020	John Day	Historical	24,130	5.964%	1,439	-	1,439
270	2020	Libby	Historical	124,909	7.059%	8,817	-	8,817
271	2020	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
272	2020	Lookout Dam	Historical	13,249	5.514%	731	-	731
273	2020	Lost Creek	Historical	14,089	7.137%	1,006	-	1,006
274	2020	Lower Granite	Historical	55,127	6.674%	3,679	-	3,679
275	2020	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
276	2020	Lower Snake Fish and Wildlife	Historical	232,537	7.107%	16,526	-	16,526
277	2020	McNary	Historical	13,314	5.155%	686	-	686
278	2020	Minidoka/Palisades	Historical	50,953	7.149%	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	1,191,161	4.106%	48,913	-	48,913
284	2020	Conservation	Historical	335,400	3.474%	11,652	-	11,652
285	2020	Construction	Historical	12,630	2.600%	328	-	328
286	2020	Fish and Wildlife	Historical	285,420	3.817%	10,896	-	10,896
287	2020	Float	Historical	-	-	(3,822)	-	(3,822)
288	FY 2020	Subtotal:		6,149,333		313,278	-	313,278
289	2021	Albeni Falls	Historical	1,100,118	4.875%	53,634	-	53,634
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	145,701	5.557%	8,096	-	8,096
293	2021	Chief Joseph	Historical	238,241	6.818%	16,243	-	16,243
294	2021	Columbia Basin	Historical	95,180	5.765%	5,487	-	5,487
295	2021	Columbia Basin 3rd Powerhouse	Historical	411,264	7.150%	29,405	-	29,405
296	2021	Columbia River Fish Mitigation	Historical	1,356,868	4.570%	62,005	-	62,005
297	2021	Cougar	Historical	12,677	5.110%	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	312	5.392%	17	-	17
301	2021	Hills Creek	Historical	2,725	6.107%	166	-	166
302	2021	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
303	2021	Ice Harbor	Historical	16,019	5.368%	860	-	860
304	2021	John Day	Historical	24,130	5.964%	1,439	-	1,439
305	2021	Libby	Historical	23,085	6.658%	1,537	-	1,537
306	2021	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
307	2021	Lookout Dam	Historical	13,249	5.514%	731	-	731
308	2021	Lost Creek	Historical	14,089	7.137%	1,006	-	1,006
309	2021	Lower Granite	Historical	55,127	6.674%	3,679	-	3,679
310	2021	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
311	2021	Lower Snake Fish and Wildlife	Historical	232,537	7.107%	16,526	-	16,526
312	2021	McNary	Historical	13,314	5.155%	686	-	686
313	2021	Minidoka/Palisades	Historical	50,953	7.149%	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	1,031,161	4.174%	43,041	-	43,041
319	2021	Conservation	Historical	335,400	3.474%	11,652	-	11,652
320	2021	Construction	Historical	3,502	2.600%	91	-	91
321	2021	Fish and Wildlife	Historical	285,420	3.817%	10,896	-	10,896
322	2021	Float	Historical	-	-	(3,913)	-	(3,913)
323	FY 2021	Subtotal:		6,035,889		307,018	-	307,018
324	2022	Albeni Falls	Historical	1,275,697	4.875%	62,184	-	62,184
325	2022	Boise	Historical	4,425	6.657%	295	-	295
326	2022	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
327	2022	Bonneville Dam	Historical	130,031	5.365%	6,976	-	6,976
328	2022	Chief Joseph	Historical	207,729	6.769%	14,061	-	14,061
329	2022	Columbia Basin	Historical	95,180	5.765%	5,487	-	5,487
330	2022	Columbia Basin 3rd Powerhouse	Historical	289,095	7.150%	20,670	-	20,670
331	2022	Columbia River Fish Mitigation	Historical	1,356,868	4.570%	62,005	-	62,005
332	2022	Cougar	Historical	12,677	5.110%	648	-	648
333	2022	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
334	2022	Dworshak	Historical	14,095	6.332%	892	-	892
335	2022	Green Peter/Foster	Historical	312	5.392%	17	-	17
336	2022	Hills Creek	Historical	2,725	6.107%	166	-	166
337	2022	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
338	2022	Ice Harbor	Historical	15,055	5.254%	791	-	791
339	2022	John Day	Historical	24,130	5.964%	1,439	-	1,439
340	2022	Libby	Historical	23,085	6.658%	1,537	-	1,537
341	2022	Little Goose	Historical	14,165	6.073%	860	-	860
342	2022	Lookout Dam	Historical	13,249	5.514%	731	-	731
343	2022	Lost Creek	Historical	296	6.518%	19	-	19
344	2022	Lower Granite	Historical	14,516	5.342%	775	-	775
345	2022	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
346	2022	Lower Snake Fish and Wildlife	Historical	232,537	7.107%	16,526	-	16,526
347	2022	McNary	Historical	13,314	5.155%	686	-	686
348	2022	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
349	2022	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655

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	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
351	2022	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
352	2022	Yakima Roza	Historical	14	5.892%	1	-	1
353	2022	Bureau Direct	Historical	984,161	4.207%	41,407	-	41,407
354	2022	Conservation	Historical	335,400	3.474%	11,652	-	11,652
355	2022	Construction	Historical	3,502	2.600%	91	-	91
356	2022	Fish and Wildlife	Historical	285,420	3.817%	10,896	-	10,896
357	2022	Float	Historical	-	-	(4,078)	-	(4,078)
358	FY 2022	Subtotal:		5,891,124		294,227	-	294,227
359	2023	Albeni Falls	Historical	1,444,324	4.874%	70,397	-	70,397
360	2023	Boise	Historical	4,425	6.657%	295	-	295
361	2023	Bonneville 2nd Powerhouse	Historical	354,796	7.150%	25,368	-	25,368
362	2023	Bonneville Dam	Historical	130,009	5.364%	6,974	-	6,974
363	2023	Chief Joseph	Historical	37,729	5.053%	1,906	-	1,906
364	2023	Columbia Basin	Historical	94,820	5.760%	5,462	-	5,462
365	2023	Columbia Basin 3rd Powerhouse	Historical	161,090	7.150%	11,518	-	11,518
366	2023	Columbia River Fish Mitigation	Historical	1,356,868	4.570%	62,005	-	62,005
367	2023	Cougar	Historical	12,677	5.110%	648	-	648
368	2023	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
369	2023	Dworshak	Historical	13,668	6.307%	862	-	862
370	2023	Green Peter/Foster	Historical	312	5.392%	17	-	17
371	2023	Hills Creek	Historical	2,725	6.107%	166	-	166
372	2023	Hungry Horse Dam	Historical	11,537	6.142%	709	-	709
373	2023	Ice Harbor	Historical	14,977	5.244%	785	-	785
374	2023	John Day	Historical	24,130	5.964%	1,439	-	1,439
375	2023	Libby	Historical	22,783	6.651%	1,515	-	1,515
376	2023	Little Goose	Historical	14,165	6.073%	860	-	860
377	2023	Lookout Dam	Historical	13,249	5.514%	731	-	731
378	2023	Lost Creek	Historical	265	6.443%	17	-	17
379	2023	Lower Granite	Historical	12,759	5.092%	650	-	650
380	2023	Lower Monument	Historical	12,089	5.604%	677	-	677
381	2023	Lower Snake Fish and Wildlife	Historical	232,537	7.107%	16,526	-	16,526
382	2023	McNary	Historical	13,314	5.155%	686	-	686
383	2023	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
384	2023	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
385	2023	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
386	2023	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
387	2023	Yakima Roza	Historical	14	5.892%	1	-	1
388	2023	Bureau Direct	Historical	984,161	4.207%	41,407	-	41,407
389	2023	Conservation	Historical	335,400	3.474%	11,652	-	11,652
390	2023	Construction	Historical	3,502	2.600%	91	-	91
391	2023	Fish and Wildlife	Historical	285,420	3.817%	10,896	-	10,896
392	2023	Float	Historical	-	-	(4,402)	-	(4,402)
393	FY 2023	Subtotal:		5,704,114		276,687	-	276,687
394	2024	Albeni Falls	Historical	1,612,951	4.874%	78,609	-	78,609
395	2024	Boise	Historical	4,425	6.657%	295	-	295
396	2024	Bonneville 2nd Powerhouse	Historical	112,686	7.150%	8,057	-	8,057
397	2024	Bonneville Dam	Historical	129,491	5.357%	6,937	-	6,937
398	2024	Chief Joseph	Historical	37,563	5.044%	1,895	-	1,895
399	2024	Columbia Basin	Historical	94,820	5.760%	5,462	-	5,462
400	2024	Columbia Basin 3rd Powerhouse	Historical	119,116	7.150%	8,517	-	8,517
401	2024	Columbia River Fish Mitigation	Historical	1,356,868	4.570%	62,005	-	62,005
402	2024	Cougar	Historical	12,677	5.110%	648	-	648
403	2024	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
404	2024	Dworshak	Historical	13,668	6.307%	862	-	862
405	2024	Green Peter/Foster	Historical	312	5.392%	17	-	17
406	2024	Hills Creek	Historical	2,725	6.107%	166	-	166
407	2024	Hungry Horse Dam	Historical	11,537	6.142%	709	-	709
408	2024	Ice Harbor	Historical	14,977	5.244%	785	-	785
409	2024	John Day	Historical	24,130	5.964%	1,439	-	1,439
410	2024	Libby	Historical	22,783	6.651%	1,515	-	1,515
411	2024	Little Goose	Historical	14,165	6.073%	860	-	860
412	2024	Lookout Dam	Historical	13,249	5.514%	731	-	731
413	2024	Lost Creek	Historical	265	6.443%	17	-	17
414	2024	Lower Granite	Historical	12,759	5.092%	650	-	650
415	2024	Lower Monument	Historical	12,089	5.604%	677	-	677
416	2024	Lower Snake Fish and Wildlife	Historical	232,537	7.107%	16,526	-	16,526
417	2024	McNary	Historical	13,284	5.151%	684	-	684
418	2024	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
419	2024	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
420	2024	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
421	2024	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
422	2024	Yakima Roza	Historical	14	5.892%	1	-	1
423	2024	Bureau Direct	Historical	959,161	4.203%	40,309	-	40,309
424	2024	Conservation	Historical	220,400	3.346%	7,375	-	7,375
425	2024	Construction	Historical	3,502	2.600%	91	-	91
426	2024	Fish and Wildlife	Historical	285,420	3.817%	10,896	-	10,896
427	2024	Float	Historical	-	-	(4,911)	-	(4,911)
428	FY 2024	Subtotal:		5,447,943		258,652	-	258,652
429	2025	Albeni Falls	Historical	1,781,578	4.873%	86,821	-	86,821
430	2025	Boise	Historical	4,425	6.657%	295	-	295
431	2025	Bonneville 2nd Powerhouse	Historical	4,167	7.150%	298	-	298
432	2025	Bonneville Dam	Historical	129,491	5.357%	6,937	-	6,937
433	2025	Chief Joseph	Historical	33,546	4.791%	1,607	-	1,607
434	2025	Columbia Basin	Historical	94,820	5.760%	5,462	-	5,462
435	2025	Columbia River Fish Mitigation	Historical	1,353,057	4.562%	61,733	-	61,733
436	2025	Cougar	Historical	12,677	5.110%	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
437	2025	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
438	2025	Dworshak	Historical	13,668	6.307%	862	-	862
439	2025	Green Peter/Foster	Historical	312	5.392%	17	-	17
440	2025	Hills Creek	Historical	2,725	6.107%	166	-	166
441	2025	Hungry Horse Dam	Historical	5,347	4.974%	266	-	266
442	2025	Ice Harbor	Historical	14,606	5.195%	759	-	759
443	2025	John Day	Historical	15,637	5.320%	832	-	832
444	2025	Libby	Historical	8,002	5.730%	459	-	459
445	2025	Little Goose	Historical	12,965	5.974%	774	-	774
446	2025	Lookout Dam	Historical	13,177	5.505%	725	-	725
447	2025	Lost Creek	Historical	171	6.055%	10	-	10
448	2025	Lower Granite	Historical	12,759	5.092%	650	-	650
449	2025	Lower Monument	Historical	9,939	5.269%	524	-	524
450	2025	Lower Snake Fish and Wildlife	Historical	19,480	6.636%	1,293	-	1,293
451	2025	McNary	Historical	13,268	5.148%	683	-	683
452	2025	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
453	2025	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
454	2025	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
455	2025	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
456	2025	Yakima Roza	Historical	14	5.892%	1	-	1
457	2025	Bureau Direct	Historical	959,161	4.203%	40,309	-	40,309
458	2025	Conservation	Historical	205,400	3.408%	7,000	-	7,000
459	2025	Construction	Historical	3,502	2.600%	91	-	91
460	2025	Fish and Wildlife	Historical	265,420	3.762%	9,984	-	9,984
461	2025	Float	Historical	-	-	(6,372)	-	(6,372)
462	FY 2025	Subtotal:		5,099,682		229,661	-	229,661
463	2026	Albeni Falls	Historical	1,947,695	4.870%	94,853	-	94,853
464	2026	Boise	Historical	1,060	5.091%	54	-	54
465	2026	Bonneville Dam	Historical	42,791	4.753%	2,034	-	2,034
466	2026	Chief Joseph	Historical	28,254	4.436%	1,253	-	1,253
467	2026	Columbia Basin	Historical	7,705	4.381%	338	-	338
468	2026	Columbia River Fish Mitigation	Historical	1,058,010	4.263%	45,108	-	45,108
469	2026	Cougar	Historical	906	3.861%	35	-	35
470	2026	Dworshak	Historical	2,562	4.381%	112	-	112
471	2026	Green Peter/Foster	Historical	87	3.745%	3	-	3
472	2026	Hills Creek	Historical	12	3.780%	-	-	-
473	2026	Hungry Horse Dam	Historical	1,716	4.263%	73	-	73
474	2026	Ice Harbor	Historical	3,327	4.277%	142	-	142
475	2026	John Day	Historical	2,911	4.398%	128	-	128
476	2026	Libby	Historical	1,781	4.751%	85	-	85
477	2026	Little Goose	Historical	3,214	4.376%	141	-	141
478	2026	Lookout Dam	Historical	589	4.963%	29	-	29
479	2026	Lower Granite	Historical	6,858	4.355%	299	-	299
480	2026	Lower Monument	Historical	2,626	4.390%	115	-	115
481	2026	Lower Snake Fish and Wildlife	Historical	2,139	4.373%	94	-	94
482	2026	McNary	Historical	4,819	4.435%	214	-	214
483	2026	The Dalles	Historical	3,821	4.680%	179	-	179
484	2026	Yakima Chandler/Kenniwick	Historical	15	4.370%	1	-	1
485	2026	Bureau Direct	Historical	959,161	4.203%	40,309	562	40,872
486	2026	Conservation	Historical	144,035	3.582%	5,159	-	5,159
487	2026	Construction	Historical	3,502	2.600%	91	-	91
488	2026	Fish and Wildlife	Historical	265,420	3.762%	9,984	-	9,984
489	2026	Float	Historical	-	-	(6,375)	-	(6,375)
490	FY 2026	Subtotal:		4,495,017		194,458	562	195,021
491	2027	Albeni Falls	Historical	1,645,786	4.870%	80,149	-	80,149
492	2027	Boise	Historical	17	4.499%	1	-	1
493	2027	Bonneville Dam	Historical	12,003	4.116%	494	-	494
494	2027	Chief Joseph	Historical	24,754	4.374%	1,083	-	1,083
495	2027	Columbia Basin	Historical	5,942	4.215%	250	-	250
496	2027	Columbia River Fish Mitigation	Historical	967,931	4.200%	40,650	-	40,650
497	2027	Cougar	Historical	786	3.687%	29	-	29
498	2027	Dworshak	Historical	2,553	4.379%	112	-	112
499	2027	Green Peter/Foster	Historical	87	3.745%	3	-	3
500	2027	Hills Creek	Historical	12	3.780%	-	-	-
501	2027	Hungry Horse Dam	Historical	1,346	4.068%	55	-	55
502	2027	Ice Harbor	Historical	3,313	4.275%	142	-	142
503	2027	John Day	Historical	2,679	4.346%	116	-	116
504	2027	Libby	Historical	214	3.844%	8	-	8
505	2027	Little Goose	Historical	3,201	4.374%	140	-	140
506	2027	Lookout Dam	Historical	17	3.766%	1	-	1
507	2027	Lower Granite	Historical	6,834	4.353%	297	-	297
508	2027	Lower Monument	Historical	2,617	4.389%	115	-	115
509	2027	Lower Snake Fish and Wildlife	Historical	2,065	4.355%	90	-	90
510	2027	McNary	Historical	4,603	4.415%	203	-	203
511	2027	The Dalles	Historical	2,030	4.500%	91	-	91
512	2027	Yakima Chandler/Kenniwick	Historical	15	4.370%	1	-	1
513	2027	Bureau Direct	Historical	934,161	4.176%	39,011	-	39,011
514	2027	Conservation	Historical	55,000	3.840%	2,112	-	2,112
515	2027	Fish and Wildlife	Historical	185,420	3.492%	6,474	-	6,474
516	2027	Float	Historical	-	-	(6,447)	-	(6,447)
517	FY 2027	Subtotal:		3,863,386		165,181	-	165,181
518	2028	Albeni Falls	Historical	998,440	4.870%	48,623	-	48,623
519	2028	Boise	Historical	17	4.499%	1	-	1
520	2028	Bonneville Dam	Historical	12,003	4.116%	494	-	494
521	2028	Chief Joseph	Historical	24,754	4.374%	1,083	-	1,083
522	2028	Columbia Basin	Historical	5,942	4.215%	250	-	250

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	Columbia River Fish Mitigation	Historical	967,931	4.200%	40,650	-	40,650
524	2028	Cougar	Historical	786	3.687%	29	-	29
525	2028	Dworshak	Historical	2,553	4.379%	112	-	112
526	2028	Green Peter/Foster	Historical	87	3.745%	3	-	3
527	2028	Hills Creek	Historical	12	3.780%	-	-	-
528	2028	Hungry Horse Dam	Historical	1,346	4.068%	55	-	55
529	2028	Ice Harbor	Historical	3,313	4.275%	142	-	142
530	2028	John Day	Historical	2,679	4.346%	116	-	116
531	2028	Libby	Historical	214	3.844%	8	-	8
532	2028	Little Goose	Historical	3,201	4.374%	140	-	140
533	2028	Lookout Dam	Historical	17	3.766%	1	-	1
534	2028	Lower Granite	Historical	6,834	4.353%	297	-	297
535	2028	Lower Monument	Historical	2,617	4.389%	115	-	115
536	2028	Lower Snake Fish and Wildlife	Historical	2,065	4.355%	90	-	90
537	2028	McNary	Historical	4,603	4.415%	203	-	203
538	2028	The Dalles	Historical	2,030	4.500%	91	-	91
539	2028	Yakima Chandler/Kenniwick	Historical	15	4.370%	1	-	1
540	2028	Bureau Direct	Historical	909,161	4.192%	38,114	-	38,114
541	2028	Conservation	Historical	55,000	3.840%	2,112	-	2,112
542	2028	Fish and Wildlife	Historical	174,420	3.536%	6,168	-	6,168
543	2028	Float	Historical	-	-	(6,526)	-	(6,526)
544	FY 2028	Subtotal:		3,180,039		132,373		132,373
545	2029	Albeni Falls	Historical	342,875	4.870%	16,697	-	16,697
546	2029	Boise	Historical	17	4.499%	1	-	1
547	2029	Bonneville Dam	Historical	12,003	4.116%	494	-	494
548	2029	Chief Joseph	Historical	24,754	4.374%	1,083	-	1,083
549	2029	Columbia Basin	Historical	5,942	4.215%	250	-	250
550	2029	Columbia River Fish Mitigation	Historical	967,931	4.200%	40,650	-	40,650
551	2029	Cougar	Historical	786	3.687%	29	-	29
552	2029	Dworshak	Historical	2,553	4.379%	112	-	112
553	2029	Green Peter/Foster	Historical	87	3.745%	3	-	3
554	2029	Hills Creek	Historical	12	3.780%	-	-	-
555	2029	Hungry Horse Dam	Historical	1,346	4.068%	55	-	55
556	2029	Ice Harbor	Historical	3,313	4.275%	142	-	142
557	2029	John Day	Historical	2,679	4.346%	116	-	116
558	2029	Libby	Historical	214	3.844%	8	-	8
559	2029	Little Goose	Historical	3,201	4.374%	140	-	140
560	2029	Lookout Dam	Historical	17	3.766%	1	-	1
561	2029	Lower Granite	Historical	6,834	4.353%	297	-	297
562	2029	Lower Monument	Historical	2,617	4.389%	115	-	115
563	2029	Lower Snake Fish and Wildlife	Historical	2,065	4.355%	90	-	90
564	2029	McNary	Historical	4,603	4.415%	203	-	203
565	2029	The Dalles	Historical	2,030	4.500%	91	-	91
566	2029	Yakima Chandler/Kenniwick	Historical	15	4.370%	1	-	1
567	2029	Bureau Direct	Historical	909,161	4.192%	38,114	2,047	40,161
568	2029	Conservation	Historical	55,000	3.840%	2,112	-	2,112
569	2029	Fish and Wildlife	Historical	107,275	3.747%	4,020	-	4,020
570	2029	Float	Historical	-	-	(6,533)	-	(6,533)
571	FY 2029	Subtotal:		2,457,329		98,291	2,047	100,339
572	2030	Albeni Falls	Historical	99	4.330%	4	-	4
573	2030	Boise	Historical	17	4.499%	1	-	1
574	2030	Bonneville Dam	Historical	12,003	4.116%	494	-	494
575	2030	Chief Joseph	Historical	24,754	4.374%	1,083	-	1,083
576	2030	Columbia Basin	Historical	5,942	4.215%	250	-	250
577	2030	Columbia River Fish Mitigation	Historical	736,414	4.105%	30,231	-	30,231
578	2030	Cougar	Historical	786	3.687%	29	-	29
579	2030	Dworshak	Historical	2,553	4.379%	112	-	112
580	2030	Green Peter/Foster	Historical	87	3.745%	3	-	3
581	2030	Hills Creek	Historical	12	3.780%	-	-	-
582	2030	Hungry Horse Dam	Historical	1,346	4.068%	55	-	55
583	2030	Ice Harbor	Historical	3,313	4.275%	142	-	142
584	2030	John Day	Historical	2,078	4.301%	89	-	89
585	2030	Libby	Historical	214	3.844%	8	-	8
586	2030	Little Goose	Historical	3,201	4.374%	140	-	140
587	2030	Lookout Dam	Historical	17	3.766%	1	-	1
588	2030	Lower Granite	Historical	6,834	4.353%	297	-	297
589	2030	Lower Monument	Historical	2,332	4.375%	102	-	102
590	2030	Lower Snake Fish and Wildlife	Historical	1,686	4.322%	73	-	73
591	2030	McNary	Historical	523	3.751%	20	-	20
592	2030	Yakima Chandler/Kenniwick	Historical	15	4.370%	1	-	1
593	2030	Bureau Direct	Historical	794,161	4.085%	32,442	5,845	38,288
594	2030	Conservation	Historical	55,000	3.840%	2,112	-	2,112
595	2030	Fish and Wildlife	Historical	42,000	3.828%	1,608	-	1,608
596	2030	Float	Historical	-	-	(6,559)	-	(6,559)
597	FY 2030	Subtotal:		1,695,386		62,739	5,845	68,584
598	2031	Bonneville Dam	Historical	5,206	3.750%	195	-	195
599	2031	Chief Joseph	Historical	27	3.734%	1	-	1
600	2031	Columbia Basin	Historical	1,740	3.750%	65	-	65
601	2031	Columbia River Fish Mitigation	Historical	322,138	3.751%	12,083	-	12,083
602	2031	Cougar	Historical	549	3.751%	21	-	21
603	2031	Green Peter/Foster	Historical	87	3.745%	3	-	3
604	2031	Hills Creek	Historical	12	3.780%	-	-	-
605	2031	Hungry Horse Dam	Historical	506	3.750%	19	-	19
606	2031	Ice Harbor	Historical	491	3.751%	18	-	18
607	2031	John Day	Historical	175	3.752%	7	-	7
608	2031	Libby	Historical	174	3.748%	7	-	7
609	2031	Lookout Dam	Historical	17	3.766%	1	-	1

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	Lower Granite	Historical	8	3.800%	-	-
611	2031	Lower Snake Fish and Wildlife	Historical	141	3.748%	5	5
612	2031	McNary	Historical	523	3.751%	20	20
613	2031	Bureau Direct	Historical	470,817	3.874%	18,242	24,544
614	2031	Conservation	Historical	55,000	3.840%	2,112	2,681
615	2031	Fish and Wildlife	Historical	42,000	3.828%	1,608	2,074
616	2031	Float	Historical	-	-	(6,605)	(6,605)
617	FY 2031	Subtotal:		899,610		27,802	35,139
618	2032	Columbia River Fish Mitigation	Historical	79,041	3.380%	2,672	2,672
619	2032	Float	Historical	-	-	(6,676)	(6,676)
620	FY 2032	Subtotal:		79,041		(4,004)	(4,004)
621	2033	Float	Historical	-	-	(6,734)	(6,734)
622	FY 2033	Subtotal:		-		(6,734)	(6,734)
623	2034	Float	Historical	-	-	(6,780)	(6,780)
624	FY 2034	Subtotal:		-		(6,780)	(6,780)
625	2035	Float	Historical	-	-	(6,806)	(6,806)
626	FY 2035	Subtotal:		-		(6,806)	(6,806)
627	2036	Float	Historical	-	-	(6,806)	(6,806)
628	FY 2036	Subtotal:		-		(6,806)	(6,806)
629	2037	Float	Historical	-	-	(6,810)	(6,810)
630	FY 2037	Subtotal:		-		(6,810)	(6,810)
631	2038	Float	Historical	-	-	(6,806)	(6,806)
632	FY 2038	Subtotal:		-		(6,806)	(6,806)
633	2039	Float	Historical	-	-	(6,806)	(6,806)
634	FY 2039	Subtotal:		-		(6,806)	(6,806)
635	2040	Float	Historical	-	-	(6,806)	(6,806)
636	FY 2040	Subtotal:		-		(6,806)	(6,806)
637	2041	Float	Historical	-	-	(6,806)	(6,806)
638	FY 2041	Subtotal:		-		(6,806)	(6,806)
639	2042	Float	Historical	-	-	(6,806)	(6,806)
640	FY 2042	Subtotal:		-		(6,806)	(6,806)
641	2043	Float	Historical	-	-	(6,806)	(6,806)
642	FY 2043	Subtotal:		-		(6,806)	(6,806)
643	2044	Float	Historical	-	-	(6,018)	(6,018)
644	FY 2044	Subtotal:		-		(6,018)	(6,018)
645	2045	Float	Historical	-	-	(3,771)	(3,771)
646	FY 2045	Subtotal:		-		(3,771)	(3,771)
647	2046	Float	Historical	-	-	(3,771)	(3,771)
648	FY 2046	Subtotal:		-		(3,771)	(3,771)
649	2047	Float	Historical	-	-	(3,771)	(3,771)
650	FY 2047	Subtotal:		-		(3,771)	(3,771)
651	2048	Float	Historical	-	-	(3,771)	(3,771)
652	FY 2048	Subtotal:		-		(3,771)	(3,771)
653	2049	Float	Historical	-	-	(3,771)	(3,771)
654	FY 2049	Subtotal:		-		(3,771)	(3,771)
655	2050	Float	Historical	-	-	(3,771)	(3,771)
656	FY 2050	Subtotal:		-		(3,771)	(3,771)
657	2051	Float	Historical	-	-	(3,771)	(3,771)
658	FY 2051	Subtotal:		-		(3,771)	(3,771)
659	2052	Float	Historical	-	-	(3,771)	(3,771)
660	FY 2052	Subtotal:		-		(3,771)	(3,771)
661	2053	Float	Historical	-	-	(3,771)	(3,771)
662	FY 2053	Subtotal:		-		(3,771)	(3,771)
663	2054	Float	Historical	-	-	(3,771)	(3,771)
664	FY 2054	Subtotal:		-		(3,771)	(3,771)
665	2055	Float	Historical	-	-	(3,771)	(3,771)
666	FY 2055	Subtotal:		-		(3,771)	(3,771)
667	2056	Float	Historical	-	-	(3,771)	(3,771)
668	FY 2056	Subtotal:		-		(3,771)	(3,771)
669	2057	Float	Historical	-	-	(3,771)	(3,771)
670	FY 2057	Subtotal:		-		(3,771)	(3,771)
671	2058	Float	Historical	-	-	(3,771)	(3,771)
672	FY 2058	Subtotal:		-		(3,771)	(3,771)
673	2059	Float	Historical	-	-	(3,771)	(3,771)
674	FY 2059	Subtotal:		-		(3,771)	(3,771)
675	2060	Float	Historical	-	-	(3,771)	(3,771)
676	FY 2060	Subtotal:		-		(3,771)	(3,771)
677	2061	Float	Historical	-	-	(3,771)	(3,771)
678	FY 2061	Subtotal:		-		(3,771)	(3,771)
679	2062	Float	Historical	-	-	(3,771)	(3,771)
680	FY 2062	Subtotal:		-		(3,771)	(3,771)
681	2063	Float	Historical	-	-	(3,771)	(3,771)
682	FY 2063	Subtotal:		-		(3,771)	(3,771)
683	2064	Float	Historical	-	-	(3,771)	(3,771)
684	FY 2064	Subtotal:		-		(3,771)	(3,771)
685	Grand Total:			\$91,621,700		\$4,287,265	4,303,057

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		FY 2013 Subtotal:	-	-	-	122,800	122,800	-	-	122,800
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	2023	138,443	91,942	7.190%	No	91,167
9		FY 2014 Subtotal:	-	-	-	168,393	121,892	-	-	121,117
10	FY 2015	Conservation	-	2010	2015	20,000	20,000	2.677%	No	20,000
11	FY 2015	Conservation	-	2010	2015	15,000	15,000	2.609%	No	15,000
12	FY 2015	Conservation	-	2010	2015	15,000	15,000	1.619%	No	15,000
13	FY 2015	Conservation	-	2010	2015	10,000	10,000	1.534%	No	10,000
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	Dworshak	COE	1973	2023	138,443	775	7.190%	No	775
19	FY 2015	The Dalles	COE	1974	2024	7,268	7,240	7.170%	No	7,240
20	FY 2015	Lower Granite	COE	1986	2025	215	215	7.160%	No	90
21	FY 2015	Lower Granite	COE	1987	2025	8	8	7.160%	No	8
22	FY 2015	Lower Granite	COE	1995	2025	96	96	7.160%	No	96
23		FY 2015 Subtotal:	-	-	-	263,730	126,034	-	-	125,909
24	FY 2016	Construction	-	2011	2016	7,000	7,000	1.957%	No	7,000
25	FY 2016	Construction	-	2011	2016	3,500	3,500	1.423%	No	3,500
26	FY 2016	Lower Granite	COE	1975	2025	119,237	117,645	7.160%	No	111,691
27	FY 2016	Lower Granite	COE	1976	2025	510	510	7.160%	No	510
28	FY 2016	Lower Granite	COE	1977	2025	510	510	7.160%	No	510
29	FY 2016	Lower Granite	COE	1978	2025	510	510	7.160%	No	510
30	FY 2016	Lower Granite	COE	1979	2025	510	510	7.160%	No	510
31	FY 2016	Lower Granite	COE	1980	2025	510	510	7.160%	No	510
32	FY 2016	Lower Granite	COE	1981	2025	510	510	7.160%	No	510
33	FY 2016	Lower Granite	COE	1982	2025	510	510	7.160%	No	510
34	FY 2016	Lower Granite	COE	1983	2025	510	510	7.16	No	510
35	FY 2016	Lower Granite	COE	1985	2025	328	328	7.160%	No	328
36	FY 2016	Lower Granite	COE	1986	2025	215	125	7.160%	No	125
37		FY 2016 Subtotal:	-	-	-	134,360	132,678	-	-	126,724
38	FY 2017	Columbia Basin 3rd Powerhouse	BOR	1975	2025	8,702	7,435	7.160%	No	7,435
39	FY 2017	Columbia Basin 3rd Powerhouse	BOR	1975	2025	47,328	36,690	7.160%	No	32,923
40	FY 2017	Libby	COE	1975	2025	54,644	48,138	7.160%	No	48,138
41	FY 2017	Lower Granite	COE	1975	2025	119,237	5,954	7.160%	No	5,954
42		FY 2017 Subtotal:	-	-	-	229,911	98,217	-	-	94,451
43	FY 2018	Columbia Basin 3rd Powerhouse	BOR	1975	2025	47,328	3,767	7.160%	No	1
44		FY 2018 Subtotal:	-	-	-	47,328	3,767	-	-	1
45	FY 2019	Bureau Direct	-	2009	2019	25,000	25,000	3.699%	No	25,000
46	FY 2019	Bureau Direct	-	2010	2019	24,000	24,000	3.719%	No	24,000
47	FY 2019	Bureau Direct	-	2010	2019	10,000	10,000	3.714%	No	10,000
48	FY 2019	Construction	-	2013	2019	3,767	3,767	1.800%	No	3,767
49	FY 2019	Construction	-	2013	2019	4,037	4,037	1.800%	No	4,037
50	FY 2019	Construction	-	2013	2019	4,394	4,394	1.800%	No	4,394
51	FY 2019	Construction	-	2013	2019	4,680	4,680	1.800%	No	4,680
52	FY 2019	Fish and Wildlife	-	2010	2019	26,000	26,000	4.069%	No	26,000
53	FY 2019	Fish and Wildlife	-	2010	2019	20,000	20,000	2.646%	No	20,000
54	FY 2019	Columbia Basin 3rd Powerhouse	BOR	1975	2025	47,328	3,766	7.160%	No	3,766
55	FY 2019	Columbia Basin	BOR	1996	2026	72	72	7.15	No	72
56	FY 2019	Ice Harbor	COE	1985	2026	21	21	7.15	No	21
57	FY 2019	Libby	COE	1976	2026	153,432	153,432	7.150%	No	51,608
58	FY 2019	Libby	COE	1977	2026	1,465	1,465	7.15	No	1,465
59	FY 2019	Libby	COE	1978	2026	1,465	1,465	7.150%	No	1,465
60	FY 2019	Libby	COE	1979	2026	1,465	1,465	7.15	No	1,465
61	FY 2019	Libby	COE	1980	2026	1,465	1,465	7.150%	No	1,465
62	FY 2019	Libby	COE	1981	2026	1,465	1,465	7.150%	No	1,465
63	FY 2019	Libby	COE	1982	2026	1,465	1,465	7.150%	No	1,465
64	FY 2019	Libby	COE	1983	2026	1,465	1,465	7.150%	No	1,465
65	FY 2019	Libby	COE	1985	2026	518	518	7.150%	No	518
66	FY 2019	Libby	COE	1986	2026	283	283	7.150%	No	283
67	FY 2019	Libby	COE	1987	2026	2	2	7.150%	No	2
68	FY 2019	Libby	COE	1989	2026	1	1	7.150%	No	1
69	FY 2019	McNary	COE	1996	2026	74	74	7.150%	No	74
70	FY 2019	McNary	COE	1996	2026	277	277	7.150%	No	277
71		FY 2019 Subtotal:	-	-	-	334,141	290,579	-	-	188,755
72	FY 2020	Bureau Direct	-	2010	2020	13,000	13,000	4.194%	No	13,000
73	FY 2020	Bureau Direct	-	2010	2020	30,000	30,000	4.083%	No	30,000
74	FY 2020	Bureau Direct	-	2010	2020	18,000	18,000	3.973%	No	18,000
75	FY 2020	Bureau Direct	-	2010	2020	20,000	20,000	3.842	No	20,000
76	FY 2020	Bureau Direct	-	2010	2020	7,000	7,000	3.637%	No	7,000
77	FY 2020	Bureau Direct	-	2010	2020	15,000	15,000	3.574%	No	15,000
78	FY 2020	Bureau Direct	-	2010	2020	10,000	10,000	3.243%	No	10,000
79	FY 2020	Bureau Direct	-	2010	2020	30,000	30,000	3.243%	No	30,000
80	FY 2020	Bureau Direct	-	2010	2020	17,000	17,000	3.118%	No	17,000
81	FY 2020	Construction	-	2014	2020	2,819	2,819	2.600%	No	2,819
82	FY 2020	Construction	-	2014	2020	3,021	3,021	2.600%	No	3,021

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 2020	Construction	-	2014	2020	3,288	3,288	2.600%	No	3,288
84	FY 2020	Ice Harbor	COE	1976	2026	228	228	7.150%	No	228
85	FY 2020	Ice Harbor	COE	1976	2026	20,472	20,472	7.150%	No	19,508
86	FY 2020	Libby	COE	1976	2026	153,432	101,824	7.150%	No	101,824
87		FY 2020 Subtotal:	-	-	-	343,260	291,652	-	-	290,688
88	FY 2021	Bureau Direct	-	2009	2021	25,000	25,000	3.999%	No	25,000
89	FY 2021	Bureau Direct	-	2010	2021	22,000	22,000	2.883%	No	22,000
90	FY 2021	Columbia Basin 3rd Powerhouse	BOR	1976	2026	8,037	8,037	7.150%	No	8,037
91	FY 2021	Columbia Basin 3rd Powerhouse	BOR	1976	2026	41,330	41,330	7.150%	No	41,330
92	FY 2021	Ice Harbor	COE	1976	2026	20,472	964	7.150%	No	964
93	FY 2021	Bonneville Dam	COE	1977	2027	15,670	15,670	7.150%	No	15,670
94	FY 2021	Chief Joseph	COE	1977	2027	30,512	30,512	7.150%	No	30,512
95	FY 2021	Columbia Basin 3rd Powerhouse	BOR	1977	2027	7,964	7,964	7.150%	No	7,964
96	FY 2021	Columbia Basin 3rd Powerhouse	BOR	1977	2027	42,764	42,764	7.150%	No	42,764
97	FY 2021	Lost Creek	COE	1977	2027	13,505	13,413	7.150%	No	13,413
98	FY 2021	Lost Creek	COE	1978	2027	58	58	7.150%	No	58
99	FY 2021	Lost Creek	COE	1979	2027	60	60	7.150%	No	60
100	FY 2021	Lost Creek	COE	1980	2027	60	60	7.150%	No	60
101	FY 2021	Lost Creek	COE	1981	2027	60	60	7.150%	No	60
102	FY 2021	Lost Creek	COE	1982	2027	60	60	7.150%	No	60
103	FY 2021	Lost Creek	COE	1983	2027	60	60	7.150%	No	60
104	FY 2021	Lost Creek	COE	1985	2027	12	12	7.150%	No	12
105	FY 2021	Lost Creek	COE	1986	2027	6	6	7.150%	No	6
106	FY 2021	Lost Creek	COE	1987	2027	4	4	7.150%	No	4
107	FY 2021	Columbia Basin 3rd Powerhouse	BOR	1978	2028	7,896	7,896	7.150%	No	7,896
108	FY 2021	Columbia Basin 3rd Powerhouse	BOR	1978	2028	42,399	42,399	7.150%	No	14,178
109	FY 2021	Little Goose	COE	1978	2028	49,578	49,578	7.150%	No	49,578
110	FY 2021	Little Goose	COE	1985	2028	47	47	7.150%	No	47
111	FY 2021	Lower Granite	COE	1978	2028	40,611	40,611	7.150%	No	40,611
112		FY 2021 Subtotal:	-	-	-	368,165	348,565	-	-	320,344
113	FY 2022	Chief Joseph	COE	1978	2028	75,669	75,669	7.150%	No	75,669
114	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1978	2028	42,399	28,221	7.150%	No	28,221
115	FY 2022	Chief Joseph	COE	1979	2029	60,079	60,079	7.150%	No	60,079
116	FY 2022	Chief Joseph	COE	1985	2029	16,372	16,372	7.150%	No	16,372
117	FY 2022	Chief Joseph	COE	1986	2029	5,363	5,363	7.150%	No	5,363
118	FY 2022	Chief Joseph	COE	1987	2029	3,036	3,036	7.150%	No	3,036
119	FY 2022	Chief Joseph	COE	1988	2029	2,722	2,722	7.150%	No	2,722
120	FY 2022	Chief Joseph	COE	1989	2029	2,227	2,227	7.150%	No	2,227
121	FY 2022	Chief Joseph	COE	1990	2029	4,505	4,505	7.150%	No	4,505
122	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1979	2029	15,666	15,666	7.150%	No	15,666
123	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1979	2029	84,118	84,118	7.150%	No	84,118
124	FY 2022	Libby	COE	1994	2029	286	152	7.150%	No	152
125	FY 2022	Lower Granite	COE	1994	2029	3,543	1,551	7.150%	No	1,551
126	FY 2022	Lower Monument	COE	1979	2029	40,669	40,669	7.150%	No	40,669
127	FY 2022	Lower Monument	COE	1985	2029	256	256	7.150%	No	256
128	FY 2022	Dworshak	COE	1995	2030	218	218	7.150%	No	218
129	FY 2022	Hungry Horse Dam	BOR	1995	2030	536	536	7.150%	No	536
130	FY 2022	Hungry Horse Dam	BOR	1995	2030	1,198	1,195	7.150%	No	1,195
131	FY 2022	Libby	COE	1995	2030	15	15	7.150%	No	15
132	FY 2022	Libby	COE	1995	2030	41	41	7.150%	No	41
133	FY 2022	Libby	COE	1995	2030	94	94	7.150%	No	94
134	FY 2022	Bonneville 2nd Powerhouse	COE	1981	2031	455	455	7.150%	No	455
135	FY 2022	Bonneville 2nd Powerhouse	COE	1981	2031	40,964	40,964	7.150%	No	11,545
136	FY 2022	Bonneville Dam	COE	1996	2031	22	22	7.150%	No	22
137	FY 2022	Chief Joseph	COE	1996	2031	27	27	7.150%	No	27
138	FY 2022	Columbia Basin	BOR	1996	2031	109	109	7.150%	No	109
139	FY 2022	Columbia Basin	BOR	1996	2031	251	251	7.150%	No	251
140	FY 2022	Dworshak	COE	1996	2031	6	6	7.150%	No	6
141	FY 2022	Dworshak	COE	1996	2031	203	203	7.150%	No	203
142	FY 2022	Ice Harbor	COE	1996	2031	78	78	7.150%	No	78
143	FY 2022	Lost Creek	COE	1996	2031	31	31	7.150%	No	31
144	FY 2022	Lower Granite	COE	1996	2031	206	206	7.150%	No	206
145		FY 2022 Subtotal:	-	-	-	401,364	385,057	-	-	355,638
146	FY 2023	Bureau Direct	-	2009	2023	25,000	25,000	4.391%	No	25,000
147	FY 2023	Conservation	-	2011	2023	40,000	40,000	4.046%	No	40,000
148	FY 2023	Conservation	-	2011	2023	35,000	35,000	3.932%	No	35,000
149	FY 2023	Conservation	-	2011	2023	40,000	40,000	3.206%	No	40,000
150	FY 2023	Bonneville 2nd Powerhouse	COE	1981	2031	40,964	29,419	7.150%	No	29,419
151	FY 2023	Bonneville 2nd Powerhouse	COE	1982	2032	2,264	2,264	7.150%	No	2,264
152	FY 2023	Bonneville 2nd Powerhouse	COE	1982	2032	203,535	203,535	7.150%	No	203,535
153	FY 2023	Bonneville Dam	COE	1997	2032	518	518	7.150%	No	518
154	FY 2023	Chief Joseph	COE	1997	2032	166	166	7.150%	No	166
155	FY 2023	McNary	COE	1997	2032	30	30	7.150%	No	30
156	FY 2023	Bonneville 2nd Powerhouse	COE	1987	2033	2,801	2,801	7.150%	No	2,801
157	FY 2023	Bonneville 2nd Powerhouse	COE	1988	2033	1,271	1,271	7.150%	No	1,271
158	FY 2023	Bonneville 2nd Powerhouse	COE	1989	2033	1,232	1,232	7.150%	No	1,232
159	FY 2023	Bonneville 2nd Powerhouse	COE	1990	2033	1,588	1,588	7.150%	No	1,588
160	FY 2023	Columbia Basin 3rd Powerhouse	BOR	1986	2033	15,538	15,538	7.150%	No	1,875
161	FY 2023	Columbia Basin 3rd Powerhouse	BOR	1987	2033	1,730	1,730	7.150%	No	1,730
162	FY 2023	Columbia Basin 3rd Powerhouse	BOR	1987	2033	14,439	14,439	7.150%	No	14,439
163	FY 2023	Columbia Basin 3rd Powerhouse	BOR	1988	2033	2,294	2,294	7.150%	No	2,294
164	FY 2023	Columbia Basin 3rd Powerhouse	BOR	1988	2033	4,351	4,351	7.150%	No	4,351
165	FY 2023	Columbia Basin 3rd Powerhouse	BOR	1989	2033	10,902	10,902	7.150%	No	10,902

TABLE 12B: Application of Amortization
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A	B	C	D	E	F	G	H	I	J	
Fiscal Year	Project	Appropriation Type	In Service	Due Date	Original Principal	Current Balance	Rate	Rollover	Amount Amortized	
166	FY 2023	Columbia Basin 3rd Powerhouse	BOR	1990	2033	6,383	6,383	7.150%	No	6,383
167		FY 2023 Subtotal:	-	-	-	450,006	438,461		-	424,798
168	FY 2024	Conservation	-	2012	2024	15,000	15,000	2.500%	No	15,000
169	FY 2024	Fish and Wildlife	-	2009	2024	20,000	20,000	4.556%	No	20,000
170	FY 2024	Bonneville 2nd Powerhouse	COE	1983	2033	694	694	7.150%	No	694
171	FY 2024	Bonneville 2nd Powerhouse	COE	1983	2033	62,409	62,409	7.150%	No	62,409
172	FY 2024	Bonneville 2nd Powerhouse	COE	1985	2033	9,138	9,138	7.150%	No	9,138
173	FY 2024	Bonneville 2nd Powerhouse	COE	1986	2033	30,578	30,578	7.150%	No	30,578
174	FY 2024	Columbia Basin 3rd Powerhouse	BOR	1983	2033	712	712	7.150%	No	712
175	FY 2024	Columbia Basin 3rd Powerhouse	BOR	1983	2033	13,003	13,003	7.150%	No	13,003
176	FY 2024	Columbia Basin 3rd Powerhouse	BOR	1984	2033	3,160	3,160	7.150%	No	3,160
177	FY 2024	Columbia Basin 3rd Powerhouse	BOR	1984	2033	13,192	13,192	7.150%	No	13,192
178	FY 2024	Columbia Basin 3rd Powerhouse	BOR	1984	2033	16,965	16,965	7.150%	No	16,965
179	FY 2024	Columbia Basin 3rd Powerhouse	BOR	1985	2033	107	107	7.150%	No	107
180	FY 2024	Columbia Basin 3rd Powerhouse	BOR	1985	2033	2,060	2,060	7.150%	No	2,060
181	FY 2024	Columbia Basin 3rd Powerhouse	BOR	1985	2033	41,772	41,772	7.15	No	41,772
182	FY 2024	Columbia Basin 3rd Powerhouse	BOR	1986	2033	1,851	1,851	7.150%	No	1,851
183	FY 2024	Columbia Basin 3rd Powerhouse	BOR	1986	2033	15,538	13,663	7.150%	No	13,663
184	FY 2024	Lower Snake Fish and Wildlife	LSFW	1983	2033	30,488	9,472	7.150%	No	9,472
185	FY 2024	John Day	COE	1995	2035	22	22	7.150%	No	22
186	FY 2024	John Day	COE	1995	2035	52	52	7.150%	No	52
187	FY 2024	John Day	COE	1995	2035	121	121	7.150%	No	121
188	FY 2024	Lower Snake Fish and Wildlife	LSFW	1985	2035	47,921	47,921	7.150%	No	47,921
189	FY 2024	Lower Monument	COE	1996	2036	264	264	7.150%	No	264
190	FY 2024	Lower Snake Fish and Wildlife	LSFW	1987	2037	72,536	72,536	7.150%	No	72,536
191	FY 2024	Libby	COE	1988	2038	18,043	14,781	7.150%	No	14,781
192	FY 2024	Lower Snake Fish and Wildlife	LSFW	1988	2038	805	805	7.150%	No	805
193	FY 2024	Little Goose	COE	1995	2040	17	17	7.150%	No	17
194	FY 2024	Little Goose	COE	1995	2040	450	450	7.150%	No	450
195	FY 2024	Little Goose	COE	1995	2040	733	733	7.150%	No	733
196	FY 2024	Lower Snake Fish and Wildlife	LSFW	1990	2040	1,557	1,557	7.150%	No	1,557
197	FY 2024	Ice Harbor	COE	1996	2041	371	371	7.150%	No	371
198	FY 2024	Lower Snake Fish and Wildlife	LSFW	1991	2041	4,411	4,411	7.150%	No	4,411
199	FY 2024	Lower Snake Fish and Wildlife	LSFW	1993	2043	71,632	71,632	7.150%	No	71,632
200	FY 2024	Bonneville 2nd Powerhouse	COE	1994	2044	5,700	5,700	7.150%	No	5,700
201	FY 2024	Chief Joseph	COE	1994	2044	4,280	4,017	7.150%	No	4,017
202	FY 2024	Columbia Basin 3rd Powerhouse	BOR	1994	2044	12,631	12,631	7.150%	No	12,631
203	FY 2024	Lower Snake Fish and Wildlife	LSFW	1994	2044	4,722	4,722	7.150%	No	4,722
204	FY 2024	Columbia River Fish Mitigation	COE	1995	2045	43,343	39,282	7.150%	No	3,812
205	FY 2024	Hungry Horse Dam	BOR	1995	2045	6,190	6,190	7.150%	No	6,190
206	FY 2024	John Day	COE	1995	2045	37	37	7.150%	No	37
207	FY 2024	John Day	COE	1995	2045	608	608	7.150%	No	608
208	FY 2024	John Day	COE	1995	2045	7,653	7,653	7.150%	No	7,653
209	FY 2024	Lookout Dam	COE	1995	2045	33	33	7.150%	No	33
210	FY 2024	Lookout Dam	COE	1995	2045	80	39	7.150%	No	39
211	FY 2024	Last Creek	COE	1995	2045	94	94	7.150%	No	94
212	FY 2024	Lower Monument	COE	1995	2045	41	41	7.150%	No	41
213	FY 2024	Lower Monument	COE	1995	2045	99	99	7.150%	No	99
214	FY 2024	Lower Monument	COE	1995	2045	624	624	7.150%	No	624
215	FY 2024	Lower Monument	COE	1995	2045	1,122	1,122	7.150%	No	1,122
216	FY 2024	McNary	COE	1995	2045	16	16	7.150%	No	16
217		FY 2024 Subtotal:	-	-	-	582,875	552,358		-	516,888
218	FY 2025	Conservation	-	2013	2025	15,591	15,591	3.000%	No	15,591
219	FY 2025	Conservation	-	2013	2025	22,187	22,187	3.000%	No	22,187
220	FY 2025	Conservation	-	2013	2025	23,587	23,587	3.000%	No	23,587
221	FY 2025	Albeni Falls	COE	1995	2045	443	443	7.150%	No	443
222	FY 2025	Albeni Falls	COE	1995	2045	531	531	7.150%	No	531
223	FY 2025	Albeni Falls	COE	1995	2045	1,105	1,105	7.150%	No	1,105
224	FY 2025	Bonneville 2nd Powerhouse	COE	1995	2045	3,791	3,791	7.150%	No	3,791
225	FY 2025	Bonneville Dam	COE	1995	2045	243	243	7.150%	No	243
226	FY 2025	Bonneville Dam	COE	1995	2045	410	410	7.150%	No	410
227	FY 2025	Bonneville Dam	COE	1995	2045	440	440	7.150%	No	440
228	FY 2025	Chief Joseph	COE	1995	2045	147	147	7.150%	No	147
229	FY 2025	Chief Joseph	COE	1995	2045	562	562	7.150%	No	562
230	FY 2025	Chief Joseph	COE	1995	2045	712	712	7.150%	No	712
231	FY 2025	Chief Joseph	COE	1995	2045	784	784	7.150%	No	784
232	FY 2025	Columbia Basin	BOR	1995	2045	287	287	7.150%	No	287
233	FY 2025	Columbia Basin	BOR	1995	2045	2,511	2,453	7.150%	No	2,453
234	FY 2025	Columbia River Fish Mitigation	COE	1995	2045	43,343	35,470	7.150%	No	35,470
235	FY 2025	Detroit Lake/Big Cliff	COE	1995	2045	38	38	7.150%	No	38
236	FY 2025	Dworshak	COE	1995	2045	1,162	1,162	7.150%	No	1,162
237	FY 2025	Boise	BOR	1996	2046	442	442	7.150%	No	442
238	FY 2025	Boise	BOR	1996	2046	656	656	7.150%	No	656
239	FY 2025	Bonneville 2nd Powerhouse	COE	1996	2046	376	376	7.150%	No	376
240	FY 2025	Bonneville Dam	COE	1996	2046	18	18	7.150%	No	18
241	FY 2025	Bonneville Dam	COE	1996	2046	18	18	7.150%	No	18
242	FY 2025	Bonneville Dam	COE	1996	2046	80	80	7.150%	No	80
243	FY 2025	Bonneville Dam	COE	1996	2046	109	109	7.150%	No	109
244	FY 2025	Bonneville Dam	COE	1996	2046	142	142	7.150%	No	142
245	FY 2025	Bonneville Dam	COE	1996	2046	223	223	7.150%	No	223
246	FY 2025	Bonneville Dam	COE	1996	2046	751	751	7.150%	No	751
247	FY 2025	Bonneville Dam	COE	1996	2046	1,322	1,322	7.150%	No	1,322

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Fiscal Year	Project	Appropriation Type	In Service	Due Date	Original Principal	Current Balance	Rate	Rollover	Amount Amortized
248	FY 2025 Chief Joseph	COE	1996	2046	3	3	7.150%	No	3
249	FY 2025 Chief Joseph	COE	1996	2046	4	4	7.150%	No	4
250	FY 2025 Chief Joseph	COE	1996	2046	355	355	7.150%	No	355
251	FY 2025 Chief Joseph	COE	1996	2046	729	729	7.150%	No	729
252	FY 2025 Columbia Basin	BOR	1996	2046	368	368	7.150%	No	368
253	FY 2025 Columbia Basin	BOR	1996	2046	426	426	7.150%	No	426
254	FY 2025 Columbia River Fish Mitigation	COE	1996	2046	2,431	2,431	7.150%	No	2,431
255	FY 2025 Dworshak	COE	1996	2046	3	3	7.150%	No	3
256	FY 2025 Dworshak	COE	1996	2046	4	4	7.150%	No	4
257	FY 2025 Dworshak	COE	1996	2046	46	46	7.150%	No	46
258	FY 2025 Green Peter/Foster	COE	1996	2046	26	26	7.150%	No	26
259	FY 2025 Hills Creek	COE	1996	2046	28	28	7.150%	No	28
260	FY 2025 Hungry Horse Dam	BOR	1996	2046	2	2	7.150%	No	2
261	FY 2025 Hungry Horse Dam	BOR	1996	2046	15	15	7.150%	No	15
262	FY 2025 Little Goose	COE	1996	2046	10	10	7.150%	No	10
263	FY 2025 Little Goose	COE	1996	2046	10	10	7.150%	No	10
264	FY 2025 Little Goose	COE	1996	2046	211	211	7.150%	No	211
265	FY 2025 Little Goose	COE	1996	2046	241	241	7.150%	No	241
266	FY 2025 Little Goose	COE	1996	2046	520	520	7.150%	No	520
267	FY 2025 Little Goose	COE	1996	2046	3,909	3,909	7.150%	No	3,909
268	FY 2025 Lost Creek	COE	1996	2046	24	24	7.150%	No	24
269	FY 2025 Lower Granite	COE	1996	2046	9	9	7.150%	No	9
270	FY 2025 Lower Granite	COE	1996	2046	625	625	7.150%	No	625
271	FY 2025 Lower Monument	COE	1996	2046	10	10	7.150%	No	10
272	FY 2025 Lower Snake Fish and Wildlife	LSFW	1996	2046	12,085	12,085	7.150%	No	12,085
273	FY 2025 McNary	COE	1996	2046	619	619	7.150%	No	619
274	FY 2025 The Dalles	COE	1996	2046	1,991	1,991	7.150%	No	1,991
275	FY 2025 Albeni Falls	COE	1997	2047	431	431	7.150%	No	431
276	FY 2025 Boise	BOR	1997	2047	2,266	2,266	7.150%	No	2,266
277	FY 2025 Bonneville Dam	COE	1997	2047	161	161	7.150%	No	161
278	FY 2025 Chief Joseph	COE	1997	2047	657	657	7.150%	No	657
279	FY 2025 Columbia Basin	BOR	1997	2047	3,393	3,393	7.150%	No	3,393
280	FY 2025 Cougar	COE	1997	2047	26	26	7.150%	No	26
281	FY 2025 Dworshak	COE	1997	2047	7,588	7,588	7.150%	No	7,588
282	FY 2025 Hungry Horse Dam	BOR	1997	2047	111	111	7.150%	No	111
283	FY 2025 Ice Harbor	COE	1997	2047	67	67	7.150%	No	67
284	FY 2025 John Day	COE	1997	2047	179	179	7.150%	No	179
285	FY 2025 Libby	COE	1997	2047	660	660	7.150%	No	660
286	FY 2025 Little Goose	COE	1997	2047	1	1	7.150%	No	1
287	FY 2025 Lower Granite	COE	1997	2047	677	677	7.150%	No	677
288	FY 2025 Lower Snake Fish and Wildlife	LSFW	1997	2047	2,173	2,173	7.150%	No	2,173
289	FY 2025 Minidoka/Palisades	BOR	1997	2047	50,911	50,911	7.150%	No	50,911
290	FY 2025 Bonneville Dam	COE	1999	2049	19,368	19,368	5.375%	No	19,368
291	FY 2025 Columbia River Fish Mitigation	COE	1999	2049	14,115	14,115	5.375%	No	14,115
292	FY 2025 Dworshak	COE	1999	2049	630	630	5.375%	No	630
293	FY 2025 Ice Harbor	COE	1999	2049	5,516	5,516	5.375%	No	5,516
294	FY 2025 John Day	COE	1999	2049	3,510	3,510	5.375%	No	3,510
295	FY 2025 Lower Granite	COE	1999	2049	856	856	5.375%	No	856
296	FY 2025 Lower Snake Fish and Wildlife	LSFW	1999	2049	7	7	5.375%	No	7
297	FY 2025 Bonneville Dam	COE	2000	2050	24,446	24,446	6.125%	No	24,446
298	FY 2025 Columbia River Fish Mitigation	COE	2000	2050	47,006	47,006	6.125%	No	47,006
299	FY 2025 Hills Creek	COE	2000	2050	2,630	2,630	6.125%	No	2,630
300	FY 2025 Ice Harbor	COE	2000	2050	548	548	6.125%	No	548
301	FY 2025 John Day	COE	2000	2050	2,761	2,761	6.125%	No	2,761
302	FY 2025 Lookout Dam	COE	2000	2050	5,098	5,098	6.125%	No	5,098
303	FY 2025 Lower Snake Fish and Wildlife	LSFW	2000	2050	1,529	1,529	6.125%	No	1,529
304	FY 2025 The Dalles	COE	2000	2050	2,588	2,588	6.125%	No	2,588
305	FY 2025 Bonneville Dam	COE	2001	2051	2,530	2,530	5.875%	No	2,530
306	FY 2025 Chief Joseph	COE	2001	2051	345	345	5.875%	No	345
307	FY 2025 Columbia Basin	BOR	2001	2051	69,226	69,226	5.875%	No	69,226
308	FY 2025 Columbia River Fish Mitigation	COE	2001	2051	6,168	6,168	5.875%	No	6,168
309	FY 2025 Detroit Lake/Big Cliff	COE	2001	2051	282	282	5.875%	No	282
310	FY 2025 Green Peter/Foster	COE	2001	2051	200	200	5.875%	No	200
311	FY 2025 Hills Creek	COE	2001	2051	8	8	5.875%	No	8
312	FY 2025 Hungry Horse Dam	BOR	2001	2051	552	552	5.875%	No	552
313	FY 2025 Ice Harbor	COE	2001	2051	764	764	5.875%	No	764
314	FY 2025 John Day	COE	2001	2051	619	619	5.875%	No	619
315	FY 2025 Libby	COE	2001	2051	5,562	5,562	5.875%	No	5,562
316	FY 2025 Little Goose	COE	2001	2051	4,608	4,608	5.875%	No	4,608
317	FY 2025 Lost Creek	COE	2001	2051	147	147	5.875%	No	147
318	FY 2025 Lower Granite	COE	2001	2051	2,025	2,025	5.875%	No	2,025
319	FY 2025 Lower Monument	COE	2001	2051	3,301	3,301	5.875%	No	3,301
320	FY 2025 Lower Snake Fish and Wildlife	LSFW	2001	2051	325	325	5.875%	No	325
321	FY 2025 McNary	COE	2001	2051	1,046	1,046	5.875%	No	1,046
322	FY 2025 Minidoka/Palisades	BOR	2001	2051	42	42	5.875%	No	42
323	FY 2025 Rogue River Projects - Green Springs	BOR	2001	2051	11,145	11,145	5.875%	No	11,145
324	FY 2025 Yakima Roza	BOR	2001	2051	15	14	5.875%	No	14
325	FY 2025 Bonneville Dam	COE	2002	2052	448	448	5.500%	No	448
326	FY 2025 Chief Joseph	COE	2002	2052	2	2	5.500%	No	2
327	FY 2025 Columbia River Fish Mitigation	COE	2002	2052	8,797	8,797	5.500%	No	8,797
328	FY 2025 Detroit Lake/Big Cliff	COE	2002	2052	18	18	5.500%	No	18
329	FY 2025 Dworshak	COE	2002	2052	199	199	5.500%	No	199

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A	B	C	D	E	F	G	H	I	J
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330	FY 2025 Hills Creek	COE	2002	2052	2	2	5.500%	No	2
331	FY 2025 Ice Harbor	COE	2002	2052	1,014	1,014	5.500%	No	1,014
332	FY 2025 Little Goose	COE	2002	2052	27	27	5.500%	No	27
333	FY 2025 Lower Granite	COE	2002	2052	1,275	1,275	5.500%	No	1,275
334	FY 2025 Lower Monument	COE	2002	2052	29	29	5.500%	No	29
335	FY 2025 Lower Snake Fish and Wildlife	LSFW	2002	2052	890	890	5.500%	No	890
336	FY 2025 The Dalles	COE	2002	2052	1,226	1,226	5.500%	No	1,226
337	FY 2025 Bonneville Dam	COE	2003	2053	4,581	4,581	5.125%	No	4,581
338	FY 2025 Chief Joseph	COE	2003	2053	992	992	5.125%	No	992
339	FY 2025 Columbia River Fish Mitigation	COE	2003	2053	68,440	68,440	5.125%	No	68,440
340	FY 2025 Detroit Lake/Big Cliff	COE	2003	2053	223	223	5.125%	No	223
341	FY 2025 Dworshak	COE	2003	2053	761	761	5.125%	No	761
342	FY 2025 Ice Harbor	COE	2003	2053	50	50	5.125%	No	50
343	FY 2025 Little Goose	COE	2003	2053	146	146	5.125%	No	146
344	FY 2025 Lookout Dam	COE	2003	2053	135	135	5.125%	No	135
345	FY 2025 Lower Granite	COE	2003	2053	42	42	5.125%	No	42
346	FY 2025 Lower Monument	COE	2003	2053	22	22	5.125%	No	22
347	FY 2025 Lower Snake Fish and Wildlife	LSFW	2003	2053	98	98	5.125%	No	98
348	FY 2025 McNary	COE	2003	2053	97	97	5.750%	No	97
349	FY 2025 Bonneville Dam	COE	2004	2054	26,741	26,741	5.375%	No	26,741
350	FY 2025 Columbia River Fish Mitigation	COE	2004	2054	60,581	60,581	5.375%	No	60,581
351	FY 2025 Cougar	COE	2004	2054	3,622	3,622	5.375%	No	3,622
352	FY 2025 Ice Harbor	COE	2004	2054	3,321	3,321	5.375%	No	3,321
353	FY 2025 John Day	COE	2004	2054	2,830	2,830	5.375%	No	2,830
354	FY 2025 Little Goose	COE	2004	2054	67	67	5.375%	No	67
355	FY 2025 Lower Monument	COE	2004	2054	3,423	3,423	5.375%	No	3,423
356	FY 2025 Lower Snake Fish and Wildlife	LSFW	2004	2054	230	230	5.375%	No	230
357	FY 2025 McNary	COE	2004	2054	6,138	6,138	5.375%	No	6,138
358	FY 2025 The Dalles	COE	2004	2054	182	182	5.375%	No	182
359	FY 2025 Bonneville Dam	COE	2005	2055	19,725	19,725	5.125%	No	4,670
360	FY 2025 Columbia Basin	BOR	2005	2055	10,963	10,963	5.125%	No	10,963
361	FY 2025 Columbia River Fish Mitigation	COE	2005	2055	52,039	52,039	5.125%	No	52,039
362	FY 2025 Cougar	COE	2005	2055	8,123	8,123	5.125%	No	8,123
363	FY 2025 Detroit Lake/Big Cliff	COE	2005	2055	1,031	1,031	5.125%	No	1,031
364	FY 2025 Dworshak	COE	2005	2055	713	713	5.125%	No	713
365	FY 2025 Hills Creek	COE	2005	2055	46	46	5.125%	No	46
366	FY 2025 Hungry Horse Dam	BOR	2005	2055	2,951	2,951	5.125%	No	2,951
367	FY 2025 John Day	COE	2005	2055	2,827	2,827	5.125%	No	2,827
368	FY 2025 Lookout Dam	COE	2005	2055	7,355	7,355	5.125%	No	7,355
369	FY 2025 Lower Granite	COE	2005	2055	393	393	5.125%	No	393
370	FY 2025 Lower Monument	COE	2005	2055	527	527	5.125%	No	527
371	FY 2025 Lower Snake Fish and Wildlife	LSFW	2005	2055	4	4	5.125%	No	4
372	FY 2025 McNary	COE	2005	2055	550	550	5.125%	No	550
373	FY 2025 The Dalles	COE	2005	2055	36,019	36,019	5.125%	No	36,019
374	FY 2025 Yakima Chandler/Kenniwick	BOR	2005	2055	833	833	5.125%	No	833
375	FY 2025 Subtotal:	-	-	-	796,278	788,347		-	773,292
376	FY 2026 Conservation	-	2013	2026	13,835	13,835	3.000%	No	13,835
377	FY 2026 Conservation	-	2014	2026	13,835	13,835	3.500%	No	13,835
378	FY 2026 Conservation	-	2014	2026	15,591	15,591	3.500%	No	15,591
379	FY 2026 Conservation	-	2014	2026	22,187	22,187	3.500%	No	22,187
380	FY 2026 Conservation	-	2014	2026	23,587	23,587	3.500%	No	23,587
381	FY 2026 Construction	-	2014	2026	3,502	3,502	2.600%	No	3,502
382	FY 2026 Fish and Wildlife	-	2011	2026	50,000	50,000	4.440%	No	50,000
383	FY 2026 Fish and Wildlife	-	2011	2026	15,000	15,000	4.398%	No	15,000
384	FY 2026 Fish and Wildlife	-	2011	2026	15,000	15,000	4.205%	No	15,000
385	FY 2026 Bureau Direct	-	2009	2039	25,000	25,000	5.192%	No	25,000
386	FY 2026 Albeni Falls	COE	2005	2055	481	481	5.125%	No	481
387	FY 2026 Boise	BOR	2005	2055	903	903	5.125%	No	903
388	FY 2026 Bonneville Dam	COE	2005	2055	19,725	15,055	5.125%	No	15,055
389	FY 2026 Boise	BOR	2007	2057	76	76	5.000%	No	76
390	FY 2026 Bonneville Dam	COE	2007	2057	1,124	1,124	5.000%	No	1,124
391	FY 2026 Columbia Basin	BOR	2007	2057	929	929	5.000%	No	929
392	FY 2026 Columbia River Fish Mitigation	COE	2007	2057	53,525	53,525	5.000%	No	53,525
393	FY 2026 Cougar	COE	2007	2057	120	120	5.000%	No	120
394	FY 2026 Hungry Horse Dam	BOR	2007	2057	294	294	5.000%	No	294
395	FY 2026 John Day	COE	2007	2057	233	233	5.000%	No	233
396	FY 2026 Lookout Dam	COE	2007	2057	572	572	5.000%	No	572
397	FY 2026 The Dalles	COE	2007	2057	140	140	5.000%	No	140
398	FY 2026 Boise	BOR	2008	2058	64	64	4.875%	No	64
399	FY 2026 Bonneville Dam	COE	2008	2058	14,609	14,609	4.875%	No	14,609
400	FY 2026 Chief Joseph	COE	2008	2058	3,500	3,500	4.875%	No	3,500
401	FY 2026 Columbia Basin	BOR	2008	2058	835	835	4.875%	No	835
402	FY 2026 Columbia River Fish Mitigation	COE	2008	2058	36,554	36,554	4.875%	No	36,554
403	FY 2026 Dworshak	COE	2008	2058	10	10	4.875%	No	10
404	FY 2026 Hungry Horse Dam	BOR	2008	2058	76	76	4.875%	No	76
405	FY 2026 Ice Harbor	COE	2008	2058	14	14	4.875%	No	14
406	FY 2026 Libby	COE	2008	2058	1,567	1,567	4.875%	No	1,567
407	FY 2026 Little Goose	COE	2008	2058	13	13	4.875%	No	13

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408	FY 2026 Lower Granite	COE	2008	2058	24	24	4.875%	No	24
409	FY 2026 Lower Monument	COE	2008	2058	9	9	4.875%	No	9
410	FY 2026 Lower Snake Fish and Wildlife	LSFW	2008	2058	74	74	4.875%	No	74
411	FY 2026 McNary	COE	2008	2058	215	215	4.875%	No	215
412	FY 2026 The Dalles	COE	2008	2058	1,652	1,652	4.875%	No	1,652
413	FY 2026 Albeni Falls	-	2015	2060	188,851	188,851	4.870%	No	188,851
414	FY 2026 Albeni Falls	-	2016	2061	187,748	187,748	4.870%	No	187,748
415	FY 2026 Albeni Falls	-	2017	2062	181,331	181,331	4.870%	No	93,456
416	FY 2026 Subtotal:	-	-	-	892,804	888,134	-	-	800,259
417	FY 2027 Bureau Direct	-	2012	2027	25,000	25,000	3.59	No	25,000
418	FY 2027 Fish and Wildlife	-	2012	2027	11,000	11,000	2.780%	No	11,000
419	FY 2027 Albeni Falls	-	2017	2062	181,331	87,875	4.870%	No	87,875
420	FY 2027 Albeni Falls	-	2018	2063	182,180	182,180	4.870%	No	182,180
421	FY 2027 Albeni Falls	-	2019	2064	179,674	179,674	4.870%	No	179,674
422	FY 2027 Albeni Falls	-	2020	2065	177,244	177,244	4.870%	No	177,244
423	FY 2027 Albeni Falls	-	2021	2066	175,579	175,579	4.870%	No	175,579
424	FY 2027 Albeni Falls	-	2022	2067	168,627	168,627	4.870%	No	13,421
425	FY 2027 Subtotal:	-	-	-	1,100,635	1,007,179	-	-	851,974
426	FY 2028 Fish and Wildlife	-	2013	2028	11,204	11,204	3.2	No	11,204
427	FY 2028 Fish and Wildlife	-	2013	2028	13,205	13,205	3.2	No	13,205
428	FY 2028 Fish and Wildlife	-	2013	2028	15,026	15,026	3.200%	No	15,026
429	FY 2028 Fish and Wildlife	-	2013	2028	27,710	27,710	3.200%	No	27,710
430	FY 2028 Albeni Falls	-	2022	2067	168,627	155,206	4.870%	No	155,206
431	FY 2028 Albeni Falls	-	2023	2068	168,627	168,627	4.870%	No	168,627
432	FY 2028 Albeni Falls	-	2024	2069	168,627	168,627	4.870%	No	168,627
433	FY 2028 Albeni Falls	-	2025	2070	168,627	168,627	4.870%	No	168,627
434	FY 2028 Albeni Falls	-	2026	2071	168,627	168,627	4.870%	No	163,105
435	FY 2028 Subtotal:	-	-	-	910,280	896,859	-	-	891,337
436	FY 2029 Fish and Wildlife	-	2012	2029	5,000	5,000	3.63	No	5,000
437	FY 2029 Fish and Wildlife	-	2014	2029	10,058	10,058	3.700%	No	10,058
438	FY 2029 Fish and Wildlife	-	2014	2029	11,854	11,854	3.700%	No	11,854
439	FY 2029 Fish and Wildlife	-	2014	2029	13,488	13,488	3.700%	No	13,488
440	FY 2029 Fish and Wildlife	-	2014	2029	24,875	24,875	3.700%	No	24,875
441	FY 2029 Bureau Direct	-	2011	2038	30,000	30,000	4.700%	No	30,000
442	FY 2029 Bureau Direct	-	2011	2039	35,000	35,000	5.040%	No	35,000
443	FY 2029 Bureau Direct	-	2011	2040	50,000	50,000	4.995%	No	50,000
444	FY 2029 Columbia River Fish Mitigation	COE	2006	2056	366,395	366,395	4.500%	No	231,518
445	FY 2029 John Day	COE	2006	2056	601	601	4.500%	No	601
446	FY 2029 Lower Monument	COE	2006	2056	285	285	4.500%	No	285
447	FY 2029 Lower Snake Fish and Wildlife	LSFW	2006	2056	379	379	4.500%	No	379
448	FY 2029 McNary	COE	2006	2056	4,080	4,080	4.500%	No	4,080
449	FY 2029 The Dalles	COE	2006	2056	2,030	2,030	4.500%	No	2,030
450	FY 2029 Albeni Falls	-	2026	2071	168,627	5,522	4.870%	No	5,522
451	FY 2029 Albeni Falls	-	2027	2072	168,627	168,627	4.870%	No	168,627
452	FY 2029 Albeni Falls	-	2028	2073	168,627	168,627	4.870%	No	168,627
453	FY 2029 Albeni Falls	-	2029	2074	168,627	168,627	4.870%	No	168,627
454	FY 2029 Subtotal:	-	-	-	1,228,552	1,065,447	-	-	930,570
455	FY 2030 Bureau Direct	-	2011	2035	20,000	20,000	4.211%	No	20,000
456	FY 2030 Bureau Direct	-	2011	2036	30,000	30,000	4.629%	No	30,000
457	FY 2030 Bureau Direct	-	2011	2037	30,000	30,000	4.208%	No	30,000
458	FY 2030 Bureau Direct	-	2014	2044		14,393	4.400%	No	14,393
459	FY 2030 Bureau Direct	-	2014	2044	16,721	16,721	4.400%	No	16,721
460	FY 2030 Bureau Direct	-	2014	2044	17,589	17,589	4.4	No	17,589
461	FY 2030 Bureau Direct	-	2014	2044	19,048	19,048	4.400%	No	19,048
462	FY 2030 Bureau Direct	-	2014	2044	19,422	19,422	4.400%	No	19,422
463	FY 2030 Bureau Direct	-	2014	2044	19,910	19,910	4.400%	No	19,910
464	FY 2030 Bureau Direct	-	2014	2044	21,153	21,153	4.400%	No	21,153
465	FY 2030 Bureau Direct	-	2014	2044	21,533	21,533	4.400%	No	21,533
466	FY 2030 Bureau Direct	-	2014	2044	22,664	22,664	4.400%	No	22,664
467	FY 2030 Bureau Direct	-	2014	2044	22,714	22,714	4.400%	No	22,714
468	FY 2030 Bureau Direct	-	2014	2044	23,378	23,378	4.400%	No	23,378
469	FY 2030 Bureau Direct	-	2014	2044	24,819	24,819	4.400%	No	24,819
470	FY 2030 Boise	BOR	2006	2056	15	15	4.500%	No	15
471	FY 2030 Bonneville Dam	COE	2006	2056	2,628	2,628	4.500%	No	2,628
472	FY 2030 Columbia Basin	BOR	2006	2056	1,987	1,987	4.500%	No	1,987
473	FY 2030 Columbia River Fish Mitigation	COE	2006	2056	366,395	134,877	4.500%	No	134,877
474	FY 2030 Cougar	COE	2006	2056	109	109	4.500%	No	109
475	FY 2030 Dworshak	COE	2006	2056	73	73	4.500%	No	73
476	FY 2030 Albeni Falls	COE	2009	2059	57	57	4.375%	No	57
477	FY 2030 Boise	BOR	2009	2059	2	2	4.375%	No	2
478	FY 2030 Bonneville Dam	COE	2009	2059	2,744	2,744	4.375%	No	2,744
479	FY 2030 Chief Joseph	COE	2009	2059	24,727	24,727	4.375%	No	24,727
480	FY 2030 Columbia Basin	BOR	2009	2059	1,338	1,338	4.375%	No	1,338
481	FY 2030 Columbia River Fish Mitigation	COE	2009	2059	103,203	103,203	4.375%	No	103,203
482	FY 2030 Cougar	COE	2009	2059	22	22	4.375%	No	22
483	FY 2030 Dworshak	COE	2009	2059	2,480	2,480	4.375%	No	2,480
484	FY 2030 Hungry Horse Dam	BOR	2009	2059	60	60	4.375%	No	60
485	FY 2030 Ice Harbor	COE	2009	2059	2,615	2,615	4.375%	No	2,615
486	FY 2030 John Day	COE	2009	2059	1,548	1,548	4.375%	No	1,548
487	FY 2030 Little Goose	COE	2009	2059	3,171	3,171	4.375%	No	3,171
488	FY 2030 Lower Granite	COE	2009	2059	5,669	5,669	4.375%	No	5,669
489	FY 2030 Lower Monument	COE	2009	2059	2,332	2,332	4.375%	No	2,332

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490	FY 2030 Lower Snake Fish and Wildlife	LSFW	2009	2059	1,540	1,540	4.375%	No	1,540
491	FY 2030 Yakima Chandler/Kenniwick	BOR	2009	2059	15	15	4.375%	No	15
492	FY 2030 Albeni Falls	COE	2010	2060	42	42	4.250%	No	42
493	FY 2030 Bonneville Dam	COE	2010	2060	1,425	1,425	4.250%	No	1,425
494	FY 2030 Columbia Basin	BOR	2010	2060	877	877	4.250%	No	877
495	FY 2030 Columbia River Fish Mitigation	COE	2010	2060	56,832	56,832	4.250%	No	56,832
496	FY 2030 Cougar	COE	2010	2060	59	59	4.250%	No	59
497	FY 2030 Hungry Horse Dam	BOR	2010	2060	779	779	4.250%	No	779
498	FY 2030 Ice Harbor	COE	2010	2060	207	207	4.250%	No	207
499	FY 2030 John Day	COE	2010	2060	356	356	4.250%	No	356
500	FY 2030 Libby	COE	2010	2060	40	40	4.250%	No	40
501	FY 2030 Little Goose	COE	2010	2060	30	30	4.250%	No	30
502	FY 2030 Lower Granite	COE	2010	2060	1,156	1,156	4.250%	No	1,156
503	FY 2030 Lower Snake Fish and Wildlife	LSFW	2010	2060	6	6	4.250%	No	6
504	FY 2030 Columbia River Fish Mitigation	-	2013	2063	144,966	144,966	4.030%	No	20,201
505	FY 2030 Columbia River Fish Mitigation	-	2014	2064	99,343	99,343	4.370%	No	99,343
506	FY 2030 Albeni Falls	-	2030	2075	168,627	168,627	4.870%	No	168,627
507	FY 2030 Subtotal:	-	-	-	1,306,426	1,089,301	-	-	964,356
508	FY 2031 Bureau Direct	-	2012	2034	55,000	55,000	3.78	No	55,000
509	FY 2031 Bureau Direct	-	2012	2038	15,000	15,000	3.860%	No	15,000
510	FY 2031 Conservation	-	2012	2038	55,000	55,000	3.840%	No	55,000
511	FY 2031 Fish and Wildlife	-	2012	2038	30,000	30,000	3.893%	No	30,000
512	FY 2031 Bureau Direct	-	2012	2039	35,000	35,000	3.860%	No	35,000
513	FY 2031 Bureau Direct	-	2011	2041	30,000	30,000	3.825%	No	30,000
514	FY 2031 Bureau Direct	-	2012	2041	50,000	50,000	3.666%	No	50,000
515	FY 2031 Fish and Wildlife	-	2012	2041	12,000	12,000	3.666%	No	12,000
516	FY 2031 Bureau Direct	-	2012	2042	44,000	44,000	3.590%	No	44,000
517	FY 2031 Bureau Direct	-	2013	2043	14,304	14,304	4.000%	No	14,304
518	FY 2031 Bureau Direct	-	2013	2043	16,614	16,614	4.000%	No	16,614
519	FY 2031 Bureau Direct	-	2013	2043	17,477	17,477	4.000%	No	17,477
520	FY 2031 Bureau Direct	-	2013	2043	18,924	18,924	4.000%	No	18,924
521	FY 2031 Bureau Direct	-	2013	2043	19,300	19,300	4.000%	No	19,300
522	FY 2031 Bureau Direct	-	2013	2043	19,783	19,783	4.000%	No	19,783
523	FY 2031 Bureau Direct	-	2013	2043	21,022	21,022	4.000%	No	21,022
524	FY 2031 Bureau Direct	-	2013	2043	21,402	21,402	4.000%	No	21,402
525	FY 2031 Bureau Direct	-	2013	2043	22,523	22,523	4.000%	No	22,523
526	FY 2031 Bureau Direct	-	2013	2043	22,569	22,569	4.000%	No	22,569
527	FY 2031 Bureau Direct	-	2013	2043	23,232	23,232	4.000%	No	23,232
528	FY 2031 Bureau Direct	-	2013	2043	24,667	24,667	4.000%	No	24,667
529	FY 2031 Bonneville Dam	COE	2011	2061	5,206	5,206	3.750%	No	5,206
530	FY 2031 Chief Joseph	COE	2011	2061	27	27	3.750%	No	27
531	FY 2031 Columbia Basin	BOR	2011	2061	1,740	1,740	3.750%	No	1,740
532	FY 2031 Columbia River Fish Mitigation	COE	2011	2061	103,478	103,478	3.750%	No	103,478
533	FY 2031 Cougar	COE	2011	2061	549	549	3.750%	No	549
534	FY 2031 Green Peter/Foster	COE	2011	2061	87	87	3.750%	No	87
535	FY 2031 Hills Creek	COE	2011	2061	12	12	3.750%	No	12
536	FY 2031 Hungry Horse Dam	BOR	2011	2061	506	506	3.750%	No	506
537	FY 2031 Ice Harbor	COE	2011	2061	491	491	3.750%	No	491
538	FY 2031 John Day	COE	2011	2061	175	175	3.750%	No	175
539	FY 2031 Libby	COE	2011	2061	174	174	3.750%	No	174
540	FY 2031 Lookout Dam	COE	2011	2061	17	17	3.750%	No	17
541	FY 2031 Lower Granite	COE	2011	2061	8	8	3.750%	No	8
542	FY 2031 Lower Snake Fish and Wildlife	LSFW	2011	2061	141	141	3.750%	No	141
543	FY 2031 McNary	COE	2011	2061	523	523	3.750%	No	523
544	FY 2031 Columbia River Fish Mitigation	COE	2012	2062	93,715	93,715	3.380%	No	14,674
545	FY 2031 Columbia River Fish Mitigation	-	2013	2063	144,966	124,945	4.030%	No	124,945
546	FY 2031 Albeni Falls	-	2031	2076	168,627	168,627	4.870%	No	168,627
547	FY 2031 Subtotal:	-	-	-	1,088,258	1,068,237	-	-	989,196
548	FY 2032 Cougar	COE	2009	2059	47	47	0	No	47
549	FY 2032 Columbia River Fish Mitigation	COE	2012	2062	93,715	79,041	3.380%	No	79,041
550	FY 2032 Albeni Falls	-	2032	2077	168,627	168,627	4.87	No	168,627
551	FY 2032 Subtotal:	-	-	-	262,389	247,715	-	-	247,715
552	FY 2033 Albeni Falls	-	2033	2078	168,627	168,627	4.87	No	168,627
553	FY 2033 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
554	FY 2034 Albeni Falls	-	2034	2079	168,627	168,627	4.87	No	168,627
555	FY 2034 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
556	FY 2035 Albeni Falls	-	2035	2080	168,627	168,627	4.87	No	168,627
557	FY 2035 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
558	FY 2036 Albeni Falls	-	2036	2081	168,627	168,627	4.87	No	168,627
559	FY 2036 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
560	FY 2037 Albeni Falls	-	2037	2082	168,627	168,627	4.87	No	168,627
561	FY 2037 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
562	FY 2038 Albeni Falls	-	2038	2083	168,627	168,627	4.87	No	168,627
563	FY 2038 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
564	FY 2039 Albeni Falls	-	2039	2084	168,627	168,627	4.87	No	168,627
565	FY 2039 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
566	FY 2040 Albeni Falls	-	2040	2085	168,627	168,627	4.87	No	168,627
567	FY 2040 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
568	FY 2041 Albeni Falls	-	2041	2086	168,627	168,627	4.87	No	168,627
569	FY 2041 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
570	FY 2042 Albeni Falls	-	2042	2087	168,627	168,627	4.87	No	168,627
571	FY 2042 Subtotal:	-	-	-	168,627	168,627	-	-	168,627

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
572	FY 2043	Albeni Falls	-	2043	2088	168,627	168,627	4.87	No	168,627
573		FY 2043 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
574	FY 2044	Albeni Falls	-	2044	2089	168,627	168,627	4.87	No	168,627
575		FY 2044 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
576	FY 2045	Albeni Falls	-	2045	2090	168,627	168,627	4.87	No	168,627
577		FY 2045 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
578	FY 2046	Albeni Falls	-	2046	2091	168,627	168,627	4.87	No	168,627
579		FY 2046 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
580	FY 2047	Albeni Falls	-	2047	2092	168,627	168,627	4.87	No	168,627
581		FY 2047 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
582	FY 2048	Albeni Falls	-	2048	2093	168,627	168,627	4.87	No	168,627
583		FY 2048 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
584	FY 2049	Albeni Falls	-	2049	2094	168,627	168,627	4.87	No	168,627
585		FY 2049 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
586	FY 2050	Albeni Falls	-	2050	2095	168,627	168,627	4.87	No	168,627
587		FY 2050 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
588	FY 2051	Albeni Falls	-	2051	2096	168,627	168,627	4.87	No	168,627
589		FY 2051 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
590	FY 2052	Albeni Falls	-	2052	2097	168,627	168,627	4.87	No	168,627
591		FY 2052 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
592	FY 2053	Albeni Falls	-	2053	2098	168,627	168,627	4.87	No	168,627
593		FY 2053 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
594	FY 2054	Albeni Falls	-	2054	2099	168,627	168,627	4.87	No	168,627
595		FY 2054 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
596	FY 2055	Albeni Falls	-	2055	2100	168,627	168,627	4.87	No	168,627
597		FY 2055 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
598	FY 2056	Albeni Falls	-	2056	2101	168,627	168,627	4.87	No	168,627
599		FY 2056 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
600	FY 2057	Albeni Falls	-	2057	2102	168,627	168,627	4.87	No	168,627
601		FY 2057 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
602	FY 2058	Albeni Falls	-	2058	2103	168,627	168,627	4.87	No	168,627
603		FY 2058 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
604	FY 2059	Albeni Falls	-	2059	2104	168,627	168,627	4.87	No	168,627
605		FY 2059 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
606	FY 2060	Albeni Falls	-	2060	2105	168,627	168,627	4.87	No	168,627
607		FY 2060 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
608	FY 2061	Albeni Falls	-	2061	2106	168,627	168,627	4.87	No	168,627
609		FY 2061 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
610	FY 2062	Albeni Falls	-	2062	2107	168,627	168,627	4.87	No	168,627
611		FY 2062 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
612	FY 2063	Albeni Falls	-	2063	2108	168,627	168,627	4.87	No	168,627
613		FY 2063 Subtotal:	-	-	-	168,627	168,627	-	-	168,627
614	FY 2064	Albeni Falls	-	2064	2109	168,627	168,627	4.87	No	168,627
615		FY 2064 Subtotal:	-	-	-	\$16,428,020	\$15,359,342	-	-	\$14,532,874
Grand Total:			-	-	-					

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
2	Boise	295	295	295	295	295	295	295	295	295	295	295	295	295	54	1	1	1	1	-
3	Columbia Basin	5,493	5,493	5,493	5,493	5,493	5,493	5,493	5,487	5,487	5,487	5,462	5,462	5,462	338	250	250	250	250	65
4	Columbia Basin 3rd Powerhouse	32,565	32,565	32,565	32,565	32,565	29,675	29,675	29,405	29,405	20,670	11,518	8,517	-	-	-	-	-	-	-
5	Hungry Horse Dam	832	832	832	832	832	832	832	832	832	832	709	709	266	73	55	55	55	55	19
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	-	-	-	-	-	-
7	Rogue River Projects - Green Springs	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	1	1	1	1	1	-
9	Yakima Roza	1	1	1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-
10	Bureau of Reclamation Subtotal:	43,526	43,526	43,526	43,526	43,526	40,636	40,636	40,361	40,361	31,626	22,324	19,323	10,364	465	307	307	307	307	84
11	Albeni Falls	208	208	208	9,405	18,549	27,380	36,252	45,002	53,634	62,184	70,397	78,609	86,821	94,853	80,149	48,623	16,697	4	-
12	Bonneville 2nd Powerhouse	26,226	26,226	26,226	26,226	26,226	26,226	26,226	26,226	26,226	26,226	25,368	8,057	298	-	-	-	-	-	-
13	Bonneville Dam	8,096	8,096	8,096	8,096	8,096	8,096	8,096	8,096	8,096	6,976	6,974	6,937	6,937	2,034	494	494	494	494	195
14	Chief Joseph	16,243	16,243	16,243	16,243	16,243	16,243	16,243	16,243	16,243	14,061	1,906	1,895	1,607	1,253	1,083	1,083	1,083	1,083	1
15	Columbia River Fish Mitigation	51,822	57,664	62,005	62,005	62,005	62,005	62,005	62,005	62,005	62,005	62,005	62,005	61,733	45,108	40,650	40,650	40,650	30,231	12,083
16	Cougar	648	648	648	648	648	648	648	648	648	648	648	648	648	35	29	29	29	29	21
17	Detroit Lake/Big Cliff	85	85	85	85	85	85	85	85	85	85	85	85	85	-	-	-	-	-	-
18	Dworshak	7,503	7,503	948	892	892	892	892	892	892	892	862	862	862	112	112	112	112	112	-
19	Green Peter/Foster	17	17	17	17	17	17	17	17	17	17	17	17	17	3	3	3	3	3	3
20	Hills Creek	166	166	166	166	166	166	166	166	166	166	166	166	166	166	166	166	166	166	-
21	Ice Harbor	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,271	860	791	785	785	759	142	142	142	142	142	18
22	John Day	1,439	1,439	1,439	1,439	1,439	1,439	1,439	1,439	1,439	1,439	1,439	1,439	832	128	116	116	116	89	7
23	Libby	16,745	16,745	16,745	16,745	16,745	13,298	13,298	8,817	1,537	1,537	1,515	1,515	459	85	8	8	8	8	7
24	Little Goose	4,408	4,408	4,408	4,408	4,408	4,408	4,408	4,408	4,408	860	860	860	774	141	140	140	140	140	-
25	Lookout Dam	731	731	731	731	731	731	731	731	731	731	731	731	725	29	1	1	1	1	1
26	Lost Creek	1,006	1,006	1,006	1,006	1,006	1,006	1,006	1,006	19	17	17	10	-	-	-	-	-	-	-
27	Lower Granite	12,441	12,441	12,441	12,427	4,105	3,679	3,679	3,679	3,679	775	650	650	650	299	297	297	297	297	-
28	Lower Monument	3,604	3,604	3,604	3,604	3,604	3,604	3,604	3,604	3,604	677	677	677	524	115	115	115	115	102	-
29	McNary	711	711	711	711	711	711	711	686	686	686	686	684	683	214	203	203	203	20	20
30	The Dalles	2,922	2,922	2,922	2,403	2,403	2,403	2,403	2,403	2,403	2,403	2,403	2,403	2,403	179	91	91	91	-	-
31	Corps of Engineers Subtotal:	157,293	163,135	160,921	169,530	170,351	175,309	184,181	188,424	188,365	186,106	178,192	169,042	166,992	144,731	123,634	92,108	60,182	32,756	12,356
32	Lower Snake Fish and Wildlife	16,526	16,526	16,526	16,526	16,526	16,526	16,526	16,526	16,526	16,526	16,526	16,526	1,293	94	90	90	90	73	5
33	Lower Snake Fish & Wildlife Subtotal:	16,526	16,526	16,526	16,526	16,526	16,526	16,526	16,526	16,526	16,526	16,526	16,526	1,293	94	90	90	90	73	5
34	Appropriations Subtotal:	217,345	223,187	220,974	229,582	230,404	232,472	241,344	245,312	245,252	234,259	217,043	204,892	178,649	145,290	124,031	92,505	60,579	33,136	12,445
35	Bureau Direct	34,877	44,925	51,101	51,101	51,101	51,101	51,101	48,913	43,041	41,407	41,407	40,309	40,309	40,309	39,011	38,114	38,114	32,442	18,242
36	Conservation	12,851	11,901	13,278	11,652	11,652	11,652	11,652	11,652	11,652	11,652	11,652	7,375	7,000	5,159	2,112	2,112	2,112	2,112	2,112
37	Construction	868	1,181	952	819	632	632	632	328	91	91	91	91	91	91	-	-	-	-	-
38	Fish and Wildlife	12,409	10,923	12,483	12,483	12,483	12,483	12,483	10,896	10,896	10,896	10,896	9,984	9,984	6,474	6,168	4,020	1,608	1,608	1,608
39	(Less Interest Income)	(3,222)	(2,754)	(2,785)	(2,917)	(2,654)	(1,909)	(3,365)	(3,822)	(3,913)	(4,078)	(4,402)	(4,911)	(6,372)	(6,375)	(6,447)	(6,526)	(6,533)	(6,559)	(6,605)
40	Coupon Scale Down Premiums	-	-	-	-	-	-	-	-	-	-	-	-	-	562	-	-	2,047	5,845	7,337
41	BPA Borrowing Subtotal:	57,785	66,176	75,029	73,138	73,215	73,959	72,503	67,966	61,766	59,968	59,644	53,760	51,012	49,731	41,150	39,868	39,760	35,448	22,694
42	Treasury Subtotal:	57,785	66,176	75,029	73,138	73,215	73,959	72,503	67,966	61,766	59,968	59,644	53,760	51,012	49,731	41,150	39,868	39,760	35,448	22,694
43	GRAND TOTAL:	275,130	289,363	296,003	302,720	303,618	306,431	313,847	313,278	307,018	294,227	276,687	258,652	229,661	195,021	165,181	132,373	100,339	68,584	35,139

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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Columbia Basin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Columbia Basin 3rd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Hungry Horse Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Minidoka/Palisades	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Rogue River Projects - Green Springs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Yakima Chandler/Kenniwick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Yakima Roza	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Bureau of Reclamation Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Albeni Falls	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Bonneville Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Chief Joseph	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Columbia River Fish Mitigation	2,672	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Cougar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Dworshak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	Green Peter/Foster	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Hills Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	Ice Harbor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	John Day	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	Libby	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	Little Goose	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	Lookout Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	Lost Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	Lower Granite	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	Lower Monument	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	McNary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	The Dalles	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	Corps of Engineers Subtotal:	2,672	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	Lower Snake Fish and Wildlife	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	Appropriations Subtotal:	2,672	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	Bureau Direct	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	Conservation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	Fish and Wildlife	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	(Less Interest Income)	(6,676)	(6,734)	(6,780)	(6,806)	(6,806)	(6,810)	(6,806)	(6,806)	(6,806)	(6,806)	(6,806)	(6,806)	(6,018)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)
40	Coupon Scale Down Premiums	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	BPA Borrowing Subtotal:	(6,676)	(6,734)	(6,780)	(6,806)	(6,806)	(6,810)	(6,806)	(6,806)	(6,806)	(6,806)	(6,806)	(6,806)	(6,018)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)
42	Treasury Subtotal:	(6,676)	(6,734)	(6,780)	(6,806)	(6,806)	(6,810)	(6,806)	(6,806)	(6,806)	(6,806)	(6,806)	(6,806)	(6,018)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)
43	GRAND TOTAL:	(4,004)	(6,734)	(6,780)	(6,806)	(6,806)	(6,810)	(6,806)	(6,806)	(6,806)	(6,806)	(6,806)	(6,806)	(6,018)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)

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	-	-	-	-	-	-	-	-	-	-	-	-	-	3,886
3	Columbia Basin	-	-	-	-	-	-	-	-	-	-	-	-	-	72,701
4	Columbia Basin 3rd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	321,690
5	Hungry Horse Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	10,318
6	Minidoka/Palisades	-	-	-	-	-	-	-	-	-	-	-	-	-	47,354
7	Rogue River Projects - Green Springs	-	-	-	-	-	-	-	-	-	-	-	-	-	8,512
8	Yakima Chandler/Kennewick	-	-	-	-	-	-	-	-	-	-	-	-	-	567
9	Yakima Roza	±	±	±	±	±	±	±	±	±	±	±	±	±	11
10	Bureau of Reclamation Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	465,038
11	Albeni Falls	-	-	-	-	-	-	-	-	-	-	-	-	-	729,185
12	Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	295,982
13	Bonneville Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	104,896
14	Chief Joseph	-	-	-	-	-	-	-	-	-	-	-	-	-	171,242
15	Columbia River Fish Mitigation	-	-	-	-	-	-	-	-	-	-	-	-	-	1,003,312
16	Cougar	-	-	-	-	-	-	-	-	-	-	-	-	-	8,593
17	Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	-	-	-	-	-	1,099
18	Dworshak	-	-	-	-	-	-	-	-	-	-	-	-	-	25,347
19	Green Peter/Foster	-	-	-	-	-	-	-	-	-	-	-	-	-	238
20	Hills Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	2,167
21	Ice Harbor	-	-	-	-	-	-	-	-	-	-	-	-	-	22,886
22	John Day	-	-	-	-	-	-	-	-	-	-	-	-	-	18,676
23	Libby	-	-	-	-	-	-	-	-	-	-	-	-	-	125,824
24	Little Goose	-	-	-	-	-	-	-	-	-	-	-	-	-	43,732
25	Lookout Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	9,524
26	Lost Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	9,113
27	Lower Granite	-	-	-	-	-	-	-	-	-	-	-	-	-	72,785
28	Lower Monument	-	-	-	-	-	-	-	-	-	-	-	-	-	38,476
29	McNary	-	-	-	-	-	-	-	-	-	-	-	-	-	9,956
30	The Dalles	±	±	±	±	±	±	±	±	±	±	±	±	±	33,248
31	Corps of Engineers Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	2,726,282
32	Lower Snake Fish and Wildlife	±	±	±	±	±	±	±	±	±	±	±	±	±	200,049
33	Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	200,049
34	Appropriations Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	3,391,369
35	Bureau Direct	-	-	-	-	-	-	-	-	-	-	-	-	-	796,927
36	Conservation	-	-	-	-	-	-	-	-	-	-	-	-	-	161,341
37	Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	6,591
38	Fish and Wildlife	-	-	-	-	-	-	-	-	-	-	-	-	-	180,070
39	(Less Interest Income)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(249,033)
40	Coupon Scale Down Premiums	-	-	-	-	-	-	-	-	-	-	-	-	-	15,792
41	BPA Borrowing Subtotal:	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	911,688
42	Treasury Subtotal:	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	911,688
43	GRAND TOTAL:	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	(3,771)	4,303,057

**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
		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
1																	
2	Boise	-	-	-	-	-	-	-	-	-	-	-	-	3,365	1,043	-	-
3	Columbia Basin	-	-	-	-	-	-	72	-	-	360	-	-	87,115	1,764	-	-
4	Columbia Basin 3rd Powerhouse	-	-	-	-	40,358	1	3,766	-	122,169	128,005	41,974	119,116	-	-	-	-
5	Hungry Horse Dam	-	-	-	-	-	-	-	-	-	1,731	-	6,190	3,631	370	-	-
6	Minidoka/Palisades	-	-	-	-	-	-	-	-	-	-	-	-	50,953	-	-	-
7	Rogue River Projects - Green Springs	-	-	-	-	-	-	-	-	-	-	-	-	11,145	-	-	-
8	Yakima Chandler/Kenniwick	-	-	-	-	-	-	-	-	-	-	-	-	833	-	-	-
9	Yakima Roza	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-	-
10	Bureau of Reclamation Subtotal:	-	-	-	-	40,358	1	3,838	-	122,169	130,096	41,974	125,306	157,056	3,176	-	-
11	Albeni Falls	-	-	-	-	-	-	-	-	-	-	-	-	2,510	470,536	815,974	824,192
12	Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	-	12,000	242,110	108,519	4,167	-	-	-
13	Bonneville Dam	-	-	-	-	-	-	-	-	15,670	22	518	-	86,701	30,788	-	-
14	Chief Joseph	-	-	-	-	-	-	-	-	30,512	170,000	166	4,017	5,292	3,500	-	-
15	Columbia River Fish Mitigation	-	-	-	-	-	-	-	-	-	-	-	3,812	295,046	90,079	-	-
16	Cougar	-	-	-	-	-	-	-	-	-	-	-	-	11,771	120	-	-
17	Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	-	-	-	-	1,592	-	-	-
18	Dworshak	-	91,167	775	-	-	-	-	-	-	427	-	-	11,105	10	-	-
19	Green Peter/Foster	-	-	-	-	-	-	-	-	-	-	-	-	226	-	-	-
20	Hills Creek	-	-	-	-	-	-	-	-	-	-	-	-	2,713	-	-	-
21	Ice Harbor	-	-	-	-	-	-	21	19,736	964	78	-	371	11,279	14	-	-
22	John Day	-	-	-	-	-	-	-	-	-	-	-	8,493	12,726	233	-	-
23	Libby	-	-	-	-	48,138	-	62,667	101,824	-	302	-	14,781	6,222	1,567	-	-
24	Little Goose	-	-	-	-	-	-	-	-	49,625	-	-	1,200	9,750	13	-	-
25	Lookout Dam	-	-	-	-	-	-	-	-	-	-	-	72	12,588	572	-	-
26	Lost Creek	-	-	-	-	-	-	-	-	13,793	31	-	94	171	-	-	-
27	Lower Granite	-	-	194	116,224	5,954	-	-	-	40,611	1,757	-	-	5,901	24	-	-
28	Lower Monument	-	-	-	-	-	-	-	-	-	40,925	-	2,150	7,313	9	-	-
29	McNary	-	-	-	-	-	-	351	-	-	-	30	16	8,450	215	-	-
30	The Dalles	-	-	7,240	-	-	-	-	-	-	-	-	-	42,006	1,791	-	-
31	Corps of Engineers Subtotal:	-	91,167	8,209	116,224	54,092	-	63,039	121,560	151,175	225,542	242,824	143,525	537,529	599,471	815,974	824,192
32	Lower Snake Fish and Wildlife	-	-	-	-	-	-	-	-	-	-	-	213,056	17,341	74	-	-
33	Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-	-	-	-	-	-	213,056	17,341	74	-	-
34	Appropriations Subtotal:	-	91,167	8,209	116,224	94,451	1	66,877	121,560	273,344	355,638	284,798	481,888	711,927	602,722	815,974	824,192
35	Bureau Direct	-	-	-	-	-	-	59,000	160,000	47,000	-	25,000	-	-	25,000	25,000	-
36	Conservation	62,800	15,000	105,000	-	-	-	-	-	-	-	115,000	15,000	61,365	89,035	-	-
37	Construction	-	14,950	12,700	10,500	-	-	16,878	9,128	-	-	-	-	-	3,502	-	-
38	Fish and Wildlife	60,000	-	-	-	-	-	46,000	-	-	-	-	20,000	-	80,000	11,000	67,145
39	Irrigation Assistance	58,823	52,427	51,989	60,814	51,278	27,505	57,107	24,547	12,208	14,360	12,949	15,127	13,723	20,938	6,187	11,259
40	BPA Borrowing Subtotal:	181,623	82,377	169,689	71,314	51,278	27,505	178,985	193,675	59,208	14,360	152,949	50,127	75,088	218,475	42,187	78,404
41	Discounts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	Premiums	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	Make Whole Call Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	Treasury Subtotal:	181,623	82,377	169,689	71,314	51,278	27,505	178,985	193,675	59,208	14,360	152,949	50,127	75,088	218,475	42,187	78,404

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		2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048
2	Boise	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Columbia Basin	-	4,202	1,740	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Columbia Basin 3rd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Hungry Horse Dam	-	840	506	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Minidoka/Palisades	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Rogue River Projects - Green Springs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Yakima Chandler/Kenniwick	-	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Yakima Roza	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Bureau of Reclamation Subtotal:	-	5,074	2,246	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Albeni Falls	511,403	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	168,627	168,627	168,627
12	Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Bonneville Dam	-	6,797	5,206	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Chief Joseph	-	24,727	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Columbia River Fish Mitigation	231,518	414,276	243,096	79,041	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Cougar	-	190	549	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Dworshak	-	2,553	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	Green Peter/Foster	-	-	87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Hills Creek	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	Ice Harbor	-	2,822	491	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	John Day	601	1,903	175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	Libby	-	40	174	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	Little Goose	-	3,201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	Lookout Dam	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	Lost Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	Lower Granite	-	6,825	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	Lower Monument	285	2,332	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	McNary	4,080	-	523	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	The Dalles	2,030	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	Corps of Engineers Subtotal:	749,916	634,393	418,992	247,715	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
32	Lower Snake Fish and Wildlife	379	1,545	141	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	Lower Snake Fish & Wildlife Subtotal:	379	1,545	141	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	Appropriations Subtotal:	750,295	641,012	421,379	247,715	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
35	Bureau Direct	115,000	323,344	470,817	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	Conservation	-	-	55,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	Fish and Wildlife	65,275	-	42,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	Irrigation Assistance	4,065	2,035	10,634	-	4,348	-	7,843	28,920	16,232	-	14,229	-	-	73,659	-	-	11,700	-	-	-
40	BPA Borrowing Subtotal:	184,340	325,379	578,451	-	4,348	-	7,843	28,920	16,232	-	14,229	-	-	73,659	-	-	11,700	-	-	-
41	Discounts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	Premiums	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	Make Whole Call Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	Treasury Subtotal:	184,340	325,379	578,451	-	4,348	-	7,843	28,920	16,232	-	14,229	-	-	73,659	-	-	11,700	-	-	-

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
1		2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	Total
2	Boise	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,425
3	Columbia Basin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95,253
4	Columbia Basin 3rd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	455,389
5	Hungry Horse Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13,268
6	Minidoka/Palisades	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50,953
7	Rogue River Projects - Green Springs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11,145
8	Yakima Chandler/Kenniwick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	848
9	Yakima Roza	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
10	Bureau of Reclamation Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	631,295
11	Albeni 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	145,701
14	Chief Joseph	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	238,241
15	Columbia River Fish Mitigation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,356,868
16	Cougar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12,677
17	Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,592
18	Dworshak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106,037
19	Green Peter/Foster	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	312
20	Hills Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,725
21	Ice Harbor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35,776
22	John Day	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24,130
23	Libby	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	235,714
24	Little Goose	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63,790
25	Lookout Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13,249
26	Lost Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14,089
27	Lower Granite	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	177,499
28	Lower Monument	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53,014
29	McNary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13,665
30	The Dalles	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53,067
31	Corps of Engineers Subtotal:	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	11,441,603
32	Lower Snake Fish and Wildlife	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	232,537
33	Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	232,537
34	Appropriations Subtotal:	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	12,305,435
35	Bureau Direct	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,250,161
36	Conservation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	518,200
37	Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	67,658
38	Fish and Wildlife	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	391,420
39	Irrigation Assistance	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	664,908
40	BPA Borrowing Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,892,347
41	Discounts	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	Premiums	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	Make Whole Call Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	Treasury Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,892,347

13. REPAYMENT STUDY INPUT FILES, 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
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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
263	Bonneville Dam	519	-	8.875%	1994	1990	9	-	-
264	Bonneville Dam	651	-	8.875%	1994	1990	9	-	-
265	Bonneville Dam	35	-	8.750%	1994	1991	9	-	-
266	Bonneville Dam	3,193	-	8.750%	1994	1991	9	-	-
267	Bonneville Dam	99	-	8.500%	1994	1992	9	-	-
268	Bonneville Dam	25	-	8.500%	1994	1992	9	-	-
269	Bonneville Dam	5,011	-	7.880%	2018	1993	9	-	-
270	Bonneville Dam	536	-	7.125%	2029	1994	9	-	-
271	Bonneville Dam	8	-	7.330%	2000	1995	9	-	-
272	Bonneville Dam	25	-	7.090%	2010	1995	9	-	-
273	Bonneville Dam	20	-	7.250%	2020	1995	9	-	-
274	Bonneville Dam	22	-	7.250%	2020	1995	9	-	-
275	Bonneville Dam	53	-	7.860%	2030	1995	9	-	-
276	Bonneville Dam	98	-	7.860%	2035	1995	9	-	-
277	Bonneville Dam	243	243	7.150%	2045	1995	9	-	-
278	Bonneville Dam	410	410	7.150%	2045	1995	9	-	-
279	Bonneville Dam	440	440	7.150%	2045	1995	9	-	-
280	Bonneville Dam	374	-	7.860%	2045	1995	9	-	-
281	Bonneville Dam	834	-	7.290%	2016	1996	9	-	-
282	Bonneville Dam	22	22	7.150%	2031	1996	9	-	-
283	Bonneville Dam	18	18	7.150%	2046	1996	9	-	-
284	Bonneville Dam	18	18	7.150%	2046	1996	9	-	-
285	Bonneville Dam	80	80	7.150%	2046	1996	9	-	-
286	Bonneville Dam	109	109	7.150%	2046	1996	9	-	-
287	Bonneville Dam	142	142	7.150%	2046	1996	9	-	-
288	Bonneville Dam	223	223	7.150%	2046	1996	9	-	-
289	Bonneville Dam	751	751	7.150%	2046	1996	9	-	-
290	Bonneville Dam	1,322	1,322	7.150%	2046	1996	9	-	-
291	Bonneville Dam	122	-	7.230%	2022	1997	9	-	-
292	Bonneville Dam	518	518	7.150%	2032	1997	9	-	-
293	Bonneville Dam	161	161	7.150%	2047	1997	9	-	-
294	Bonneville Dam	19,368	19,368	5.375%	2049	1999	9	-	-
295	Bonneville Dam	24,446	24,446	6.125%	2050	2000	9	-	-
296	Bonneville Dam	2,530	2,530	5.875%	2051	2001	9	-	-
297	Bonneville Dam	448	448	5.500%	2052	2002	9	-	-
298	Bonneville Dam	4,581	4,581	5.125%	2053	2003	9	-	-
299	Bonneville Dam	26,741	26,741	5.375%	2054	2004	9	-	-
300	Bonneville Dam	19,725	19,725	5.125%	2055	2005	9	-	-
301	Bonneville Dam	2,628	2,628	4.500%	2056	2006	9	-	-
302	Bonneville Dam	1,124	1,124	5.000%	2057	2007	9	-	-
303	Bonneville Dam	14,609	14,609	4.875%	2058	2008	9	-	-
304	Bonneville Dam	2,744	2,744	4.375%	2059	2009	9	-	-
305	Bonneville Dam	1,425	1,425	4.250%	2060	2010	9	-	-
306	Bonneville Dam	5,206	5,206	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	-	-

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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
328	Chief Joseph	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	27	27	3.750%	2061	2011	9	-	-
380	Columbia Basin	10,919	-	3.000%	1991	1941	9	-	-
381	Columbia Basin	1,505	-	3.000%	1991	1941	9	-	-
382	Columbia Basin	16,165	-	3.000%	1992	1942	9	-	-
383	Columbia Basin	3,011	-	3.000%	1992	1942	9	-	-
384	Columbia Basin	8,083	-	3.000%	1993	1943	9	-	-
385	Columbia Basin	1,505	-	3.000%	1993	1943	9	-	-
386	Columbia Basin	16,165	-	3.000%	1994	1944	9	-	-
387	Columbia Basin	3,011	-	3.000%	1994	1944	9	-	-
388	Columbia Basin	24,247	-	3.000%	1998	1948	9	-	-
389	Columbia Basin	4,516	-	3.000%	1998	1948	9	-	-
390	Columbia Basin	24,247	-	3.000%	1999	1949	9	-	-
391	Columbia Basin	4,516	-	3.000%	1999	1949	9	-	-
392	Columbia Basin	16,165	-	3.000%	2000	1950	9	-	-

TABLE 13A: HISTORICAL INVESTMENT
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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
393	Columbia Basin	3,011	-	3.000%	2000	1950	9	-	-
394	Columbia Basin	28,255	-	6.710%	2001	1951	9	-	-
395	Columbia Basin	5,790	-	6.710%	2001	1951	9	-	-
396	Columbia Basin	258	-	6.710%	2001	1952	9	-	-
397	Columbia Basin	48	-	6.710%	2001	1952	9	-	-
398	Columbia Basin	258	-	6.710%	2001	1953	9	-	-
399	Columbia Basin	48	-	6.710%	2001	1953	9	-	-
400	Columbia Basin	258	-	6.710%	2001	1954	9	-	-
401	Columbia Basin	48	-	6.710%	2001	1954	9	-	-
402	Columbia Basin	258	-	6.710%	2001	1955	9	-	-
403	Columbia Basin	48	-	6.710%	2001	1955	9	-	-
404	Columbia Basin	259	-	6.710%	2001	1956	9	-	-
405	Columbia Basin	48	-	6.710%	2001	1956	9	-	-
406	Columbia Basin	258	-	6.710%	2001	1957	9	-	-
407	Columbia Basin	48	-	6.710%	2001	1957	9	-	-
408	Columbia Basin	258	-	6.710%	2001	1958	9	-	-
409	Columbia Basin	48	-	6.710%	2001	1958	9	-	-
410	Columbia Basin	258	-	6.710%	2001	1959	9	-	-
411	Columbia Basin	48	-	6.710%	2001	1959	9	-	-
412	Columbia Basin	258	-	6.710%	2001	1960	9	-	-
413	Columbia Basin	48	-	6.710%	2001	1960	9	-	-
414	Columbia Basin	259	-	6.710%	2001	1961	9	-	-
415	Columbia Basin	48	-	6.710%	2001	1961	9	-	-
416	Columbia Basin	258	-	6.710%	2001	1962	9	-	-
417	Columbia Basin	48	-	6.710%	2001	1962	9	-	-
418	Columbia Basin	258	-	6.710%	2001	1963	9	-	-
419	Columbia Basin	48	-	6.710%	2001	1963	9	-	-
420	Columbia Basin	258	-	6.710%	2001	1964	9	-	-
421	Columbia Basin	48	-	6.710%	2001	1964	9	-	-
422	Columbia Basin	258	-	6.710%	2001	1965	9	-	-
423	Columbia Basin	48	-	6.710%	2001	1965	9	-	-
424	Columbia Basin	259	-	6.710%	2001	1966	9	-	-
425	Columbia Basin	48	-	6.710%	2001	1966	9	-	-
426	Columbia Basin	258	-	6.710%	2001	1967	9	-	-
427	Columbia Basin	48	-	6.710%	2001	1967	9	-	-
428	Columbia Basin	758	-	7.290%	2017	1967	9	-	-
429	Columbia Basin	258	-	6.710%	2001	1968	9	-	-
430	Columbia Basin	48	-	6.710%	2001	1968	9	-	-
431	Columbia Basin	258	-	6.710%	2001	1969	9	-	-
432	Columbia Basin	48	-	6.710%	2001	1969	9	-	-
433	Columbia Basin	258	-	6.710%	2001	1970	9	-	-
434	Columbia Basin	48	-	6.710%	2001	1970	9	-	-
435	Columbia Basin	259	-	6.710%	2001	1971	9	-	-
436	Columbia Basin	48	-	6.710%	2001	1971	9	-	-
437	Columbia Basin	258	-	6.710%	2001	1972	9	-	-
438	Columbia Basin	48	-	6.710%	2001	1972	9	-	-
439	Columbia Basin	258	-	6.710%	2001	1973	9	-	-
440	Columbia Basin	48	-	6.710%	2001	1973	9	-	-
441	Columbia Basin	258	-	6.710%	2001	1974	9	-	-
442	Columbia Basin	48	-	6.710%	2001	1974	9	-	-
443	Columbia Basin	258	-	6.710%	2001	1975	9	-	-
444	Columbia Basin	48	-	6.710%	2001	1975	9	-	-
445	Columbia Basin	259	-	6.710%	2001	1976	9	-	-
446	Columbia Basin	48	-	6.710%	2001	1976	9	-	-
447	Columbia Basin	258	-	6.710%	2001	1977	9	-	-
448	Columbia Basin	48	-	6.710%	2001	1977	9	-	-
449	Columbia Basin	258	-	6.710%	2001	1978	9	-	-
450	Columbia Basin	48	-	6.710%	2001	1978	9	-	-
451	Columbia Basin	258	-	6.710%	2001	1979	9	-	-
452	Columbia Basin	48	-	6.710%	2001	1979	9	-	-
453	Columbia Basin	258	-	6.710%	2001	1980	9	-	-
454	Columbia Basin	48	-	6.710%	2001	1980	9	-	-
455	Columbia Basin	259	-	6.710%	2001	1981	9	-	-
456	Columbia Basin	48	-	6.710%	2001	1981	9	-	-
457	Columbia Basin	258	-	6.710%	2001	1982	9	-	-

TABLE 13A: HISTORICAL INVESTMENT
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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
458	Columbia Basin	48	-	6.710%	2001	1982	9	-	-
459	Columbia Basin	258	-	6.710%	2001	1983	9	-	-
460	Columbia Basin	48	-	6.710%	2001	1983	9	-	-
461	Columbia Basin	7,815	-	10.750%	2001	1984	9	-	-
462	Columbia Basin	1,455	-	10.750%	2001	1984	9	-	-
463	Columbia Basin	236	-	6.710%	2001	1985	9	-	-
464	Columbia Basin	11	-	6.710%	2001	1985	9	-	-
465	Columbia Basin	7,338	-	12.375%	2001	1985	9	-	-
466	Columbia Basin	362	-	12.375%	2001	1985	9	-	-
467	Columbia Basin	127	-	6.710%	2001	1986	9	-	-
468	Columbia Basin	13	-	6.710%	2001	1987	9	-	-
469	Columbia Basin	184	-	8.500%	2001	1988	9	-	-
470	Columbia Basin	2	-	8.500%	2001	1988	9	-	-
471	Columbia Basin	1,166	-	9.250%	2001	1989	9	-	-
472	Columbia Basin	928	-	8.875%	2001	1990	9	-	-
473	Columbia Basin	177	-	8.750%	2001	1991	9	-	-
474	Columbia Basin	1,661	-	8.750%	2001	1991	9	-	-
475	Columbia Basin	445	-	8.500%	2001	1992	9	-	-
476	Columbia Basin	652	-	8.500%	2001	1992	9	-	-
477	Columbia Basin	792	-	6.710%	2001	1993	9	-	-
478	Columbia Basin	25	-	6.620%	2000	1995	9	-	-
479	Columbia Basin	206	-	7.250%	2020	1995	9	-	-
480	Columbia Basin	25	-	7.150%	2030	1995	9	-	-
481	Columbia Basin	20	-	7.860%	2030	1995	9	-	-
482	Columbia Basin	270	-	7.860%	2030	1995	9	-	-
483	Columbia Basin	321	-	7.860%	2030	1995	9	-	-
484	Columbia Basin	323	-	7.860%	2030	1995	9	-	-
485	Columbia Basin	287	287	7.150%	2045	1995	9	-	-
486	Columbia Basin	2,511	2,453	7.150%	2045	1995	9	-	-
487	Columbia Basin	450	-	7.860%	2045	1995	9	-	-
488	Columbia Basin	450	-	7.860%	2045	1995	9	-	-
489	Columbia Basin	72	72	7.150%	2026	1996	9	-	-
490	Columbia Basin	109	109	7.150%	2031	1996	9	-	-
491	Columbia Basin	251	251	7.150%	2031	1996	9	-	-
492	Columbia Basin	426	426	7.150%	2046	1996	9	-	-
493	Columbia Basin	368	368	7.150%	2046	1996	9	-	-
494	Columbia Basin	3,393	3,393	7.150%	2047	1997	9	-	-
495	Columbia Basin	69,226	69,226	5.875%	2051	2001	9	-	-
496	Columbia Basin	10,963	10,963	5.125%	2055	2005	9	-	-
497	Columbia Basin	1,987	1,987	4.500%	2056	2006	9	-	-
498	Columbia Basin	929	929	5.000%	2057	2007	9	-	-
499	Columbia Basin	835	835	4.875%	2058	2008	9	-	-
500	Columbia Basin	1,338	1,338	4.375%	2059	2009	9	-	-
501	Columbia Basin	877	877	4.250%	2060	2010	9	-	-
502	Columbia Basin	1,740	1,740	3.750%	2061	2011	9	-	-
503	Columbia Basin 3rd Powerhouse	47,328	36,690	7.160%	2025	1975	9	-	-
504	Columbia Basin 3rd Powerhouse	8,702	7,435	7.160%	2025	1975	9	-	-
505	Columbia Basin 3rd Powerhouse	41,330	41,330	7.150%	2026	1976	9	-	-
506	Columbia Basin 3rd Powerhouse	8,037	8,037	7.150%	2026	1976	9	-	-
507	Columbia Basin 3rd Powerhouse	42,764	42,764	7.150%	2027	1977	9	-	-
508	Columbia Basin 3rd Powerhouse	7,964	7,964	7.150%	2027	1977	9	-	-
509	Columbia Basin 3rd Powerhouse	42,399	42,399	7.150%	2028	1978	9	-	-
510	Columbia Basin 3rd Powerhouse	7,896	7,896	7.150%	2028	1978	9	-	-
511	Columbia Basin 3rd Powerhouse	84,118	84,118	7.150%	2029	1979	9	-	-
512	Columbia Basin 3rd Powerhouse	15,666	15,666	7.150%	2029	1979	9	-	-
513	Columbia Basin 3rd Powerhouse	712	712	7.150%	2033	1983	9	-	-
514	Columbia Basin 3rd Powerhouse	13,003	13,003	7.150%	2033	1983	9	-	-
515	Columbia Basin 3rd Powerhouse	16,965	16,965	7.150%	2033	1984	9	-	-
516	Columbia Basin 3rd Powerhouse	13,192	13,192	7.150%	2033	1984	9	-	-
517	Columbia Basin 3rd Powerhouse	3,160	3,160	7.150%	2033	1984	9	-	-
518	Columbia Basin 3rd Powerhouse	2,060	2,060	7.150%	2033	1985	9	-	-
519	Columbia Basin 3rd Powerhouse	41,772	41,772	7.150%	2033	1985	9	-	-
520	Columbia Basin 3rd Powerhouse	107	107	7.150%	2033	1985	9	-	-
521	Columbia Basin 3rd Powerhouse	1,851	1,851	7.150%	2033	1986	9	-	-
522	Columbia Basin 3rd Powerhouse	15,538	15,538	7.150%	2033	1986	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
523	Columbia Basin 3rd Powerhouse	1,730	1,730	7.150%	2033	1987	9	-	-
524	Columbia Basin 3rd Powerhouse	14,439	14,439	7.150%	2033	1987	9	-	-
525	Columbia Basin 3rd Powerhouse	2,294	2,294	7.150%	2033	1988	9	-	-
526	Columbia Basin 3rd Powerhouse	4,351	4,351	7.150%	2033	1988	9	-	-
527	Columbia Basin 3rd Powerhouse	10,902	10,902	7.150%	2033	1989	9	-	-
528	Columbia Basin 3rd Powerhouse	6,383	6,383	7.150%	2033	1990	9	-	-
529	Columbia Basin 3rd Powerhouse	12,631	12,631	7.150%	2044	1994	9	-	-
530	Columbia River Fish Mitigation	3,969	-	8.500%	2041	1991	9	-	-
531	Columbia River Fish Mitigation	874	-	8.500%	2042	1992	9	-	-
532	Columbia River Fish Mitigation	85,846	-	8.500%	2043	1993	9	-	-
533	Columbia River Fish Mitigation	39,454	-	8.500%	2044	1994	9	-	-
534	Columbia River Fish Mitigation	43,343	39,282	7.150%	2045	1995	9	-	-
535	Columbia River Fish Mitigation	2,431	2,431	7.150%	2046	1996	9	-	-
536	Columbia River Fish Mitigation	14,115	14,115	5.375%	2049	1999	9	-	-
537	Columbia River Fish Mitigation	47,006	47,006	6.125%	2050	2000	9	-	-
538	Columbia River Fish Mitigation	6,168	6,168	5.875%	2051	2001	9	-	-
539	Columbia River Fish Mitigation	8,797	8,797	5.500%	2052	2002	9	-	-
540	Columbia River Fish Mitigation	68,440	68,440	5.125%	2053	2003	9	-	-
541	Columbia River Fish Mitigation	60,581	60,581	5.375%	2054	2004	9	-	-
542	Columbia River Fish Mitigation	52,039	52,039	5.125%	2055	2005	9	-	-
543	Columbia River Fish Mitigation	366,395	366,395	4.500%	2056	2006	9	-	-
544	Columbia River Fish Mitigation	53,525	53,525	5.000%	2057	2007	9	-	-
545	Columbia River Fish Mitigation	36,554	36,554	4.875%	2058	2008	9	-	-
546	Columbia River Fish Mitigation	103,203	103,203	4.375%	2059	2009	9	-	-
547	Columbia River Fish Mitigation	56,832	56,832	4.250%	2060	2010	9	-	-
548	Columbia River Fish Mitigation	103,478	103,478	3.750%	2061	2011	9	-	-
549	Columbia River Fish Mitigation	93,715	93,715	3.380%	2062	2012	9	-	-
550	Cougar	10,414	-	7.230%	2014	1964	9	-	-
551	Cougar	20	-	7.230%	2014	1965	9	-	-
552	Cougar	20	-	7.230%	2014	1966	9	-	-
553	Cougar	20	-	7.230%	2014	1967	9	-	-
554	Cougar	20	-	7.230%	2014	1968	9	-	-
555	Cougar	20	-	7.230%	2014	1969	9	-	-
556	Cougar	20	-	7.230%	2014	1970	9	-	-
557	Cougar	20	-	7.230%	2014	1971	9	-	-
558	Cougar	20	-	7.230%	2014	1972	9	-	-
559	Cougar	20	-	7.230%	2014	1973	9	-	-
560	Cougar	19	-	7.230%	2014	1974	9	-	-
561	Cougar	20	-	7.230%	2014	1975	9	-	-
562	Cougar	20	-	7.230%	2014	1976	9	-	-
563	Cougar	20	-	7.230%	2014	1977	9	-	-
564	Cougar	20	-	7.230%	2014	1978	9	-	-
565	Cougar	20	-	7.230%	2014	1979	9	-	-
566	Cougar	20	-	7.230%	2014	1980	9	-	-
567	Cougar	20	-	7.230%	2014	1981	9	-	-
568	Cougar	20	-	7.230%	2014	1982	9	-	-
569	Cougar	20	-	7.230%	2014	1983	9	-	-
570	Cougar	1	-	10.750%	2014	1984	9	-	-
571	Cougar	1	-	7.230%	2014	1985	9	-	-
572	Cougar	104	-	7.230%	2014	1986	9	-	-
573	Cougar	55	-	11.375%	2014	1986	9	-	-
574	Cougar	45	-	7.230%	2014	1987	9	-	-
575	Cougar	2	-	8.500%	2014	1988	9	-	-
576	Cougar	6	-	9.250%	2014	1989	9	-	-
577	Cougar	10	-	8.875%	2014	1990	9	-	-
578	Cougar	1,015	-	8.750%	2014	1991	9	-	-
579	Cougar	1	-	8.750%	2014	1991	9	-	-
580	Cougar	2	-	8.500%	2014	1992	9	-	-
581	Cougar	539	-	7.875%	2014	1993	9	-	-
582	Cougar	31	-	7.125%	2019	1994	9	-	-
583	Cougar	3	-	7.330%	2000	1995	9	-	-
584	Cougar	26	26	7.150%	2047	1997	9	-	-
585	Cougar	3,622	3,622	5.375%	2054	2004	9	-	-
586	Cougar	8,123	8,123	5.125%	2055	2005	9	-	-
587	Cougar	109	109	4.500%	2056	2006	9	-	-

TABLE 13A: HISTORICAL INVESTMENT
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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
588	Cougar	120	120	5.000%	2057	2007	9	-	-
589	Cougar	22	22	4.375%	2059	2009	9	-	-
590	Cougar	47	47	-	2059	2009	9	-	-
591	Cougar	59	59	4.250%	2060	2010	9	-	-
592	Cougar	549	549	3.750%	2061	2011	9	-	-
593	Detroit Lake/Big Cliff	12,533	-	6.840%	2003	1953	9	-	-
594	Detroit Lake/Big Cliff	20,162	-	6.880%	2004	1954	9	-	-
595	Detroit Lake/Big Cliff	18	-	6.880%	2004	1955	9	-	-
596	Detroit Lake/Big Cliff	19	-	6.880%	2004	1956	9	-	-
597	Detroit Lake/Big Cliff	18	-	6.880%	2004	1957	9	-	-
598	Detroit Lake/Big Cliff	19	-	6.880%	2004	1958	9	-	-
599	Detroit Lake/Big Cliff	18	-	6.880%	2004	1959	9	-	-
600	Detroit Lake/Big Cliff	19	-	6.880%	2004	1960	9	-	-
601	Detroit Lake/Big Cliff	18	-	6.880%	2004	1961	9	-	-
602	Detroit Lake/Big Cliff	19	-	6.880%	2004	1962	9	-	-
603	Detroit Lake/Big Cliff	18	-	6.880%	2004	1963	9	-	-
604	Detroit Lake/Big Cliff	19	-	6.880%	2004	1964	9	-	-
605	Detroit Lake/Big Cliff	18	-	6.880%	2004	1965	9	-	-
606	Detroit Lake/Big Cliff	19	-	6.880%	2004	1966	9	-	-
607	Detroit Lake/Big Cliff	18	-	6.880%	2004	1967	9	-	-
608	Detroit Lake/Big Cliff	19	-	6.880%	2004	1968	9	-	-
609	Detroit Lake/Big Cliff	18	-	6.880%	2004	1969	9	-	-
610	Detroit Lake/Big Cliff	19	-	6.880%	2004	1970	9	-	-
611	Detroit Lake/Big Cliff	18	-	6.880%	2004	1971	9	-	-
612	Detroit Lake/Big Cliff	19	-	6.880%	2004	1972	9	-	-
613	Detroit Lake/Big Cliff	18	-	6.880%	2004	1973	9	-	-
614	Detroit Lake/Big Cliff	19	-	6.880%	2004	1974	9	-	-
615	Detroit Lake/Big Cliff	18	-	6.880%	2004	1975	9	-	-
616	Detroit Lake/Big Cliff	19	-	6.880%	2004	1976	9	-	-
617	Detroit Lake/Big Cliff	18	-	6.880%	2004	1977	9	-	-
618	Detroit Lake/Big Cliff	19	-	6.880%	2004	1978	9	-	-
619	Detroit Lake/Big Cliff	18	-	6.880%	2004	1979	9	-	-
620	Detroit Lake/Big Cliff	19	-	6.880%	2004	1980	9	-	-
621	Detroit Lake/Big Cliff	18	-	6.880%	2004	1981	9	-	-
622	Detroit Lake/Big Cliff	19	-	6.880%	2004	1982	9	-	-
623	Detroit Lake/Big Cliff	18	-	6.880%	2004	1983	9	-	-
624	Detroit Lake/Big Cliff	21	-	10.750%	2004	1984	9	-	-
625	Detroit Lake/Big Cliff	6	-	6.880%	2004	1985	9	-	-
626	Detroit Lake/Big Cliff	38	-	11.375%	2004	1986	9	-	-
627	Detroit Lake/Big Cliff	3	-	6.880%	2004	1987	9	-	-
628	Detroit Lake/Big Cliff	233	-	8.875%	2004	1987	9	-	-
629	Detroit Lake/Big Cliff	68	-	8.500%	2004	1988	9	-	-
630	Detroit Lake/Big Cliff	26	-	9.250%	2004	1989	9	-	-
631	Detroit Lake/Big Cliff	115	-	8.875%	2004	1990	9	-	-
632	Detroit Lake/Big Cliff	9	-	8.750%	2004	1991	9	-	-
633	Detroit Lake/Big Cliff	20	-	8.750%	2004	1991	9	-	-
634	Detroit Lake/Big Cliff	8	-	8.500%	2004	1992	9	-	-
635	Detroit Lake/Big Cliff	211	-	7.875%	2004	1993	9	-	-
636	Detroit Lake/Big Cliff	7	-	7.125%	1999	1994	9	-	-
637	Detroit Lake/Big Cliff	13	-	7.330%	2000	1995	9	-	-
638	Detroit Lake/Big Cliff	38	38	7.150%	2045	1995	9	-	-
639	Detroit Lake/Big Cliff	24	-	6.950%	2006	1996	9	-	-
640	Detroit Lake/Big Cliff	282	282	5.875%	2051	2001	9	-	-
641	Detroit Lake/Big Cliff	18	18	5.500%	2052	2002	9	-	-
642	Detroit Lake/Big Cliff	223	223	5.125%	2053	2003	9	-	-
643	Detroit Lake/Big Cliff	1,031	1,031	5.125%	2055	2005	9	-	-
644	Dworshak	138,443	91,942	7.190%	2023	1973	9	-	-
645	Dworshak	836	-	7.190%	2023	1973	9	-	-
646	Dworshak	515	-	7.190%	2023	1974	9	-	-
647	Dworshak	3	-	7.190%	2023	1974	9	-	-
648	Dworshak	518	-	7.190%	2023	1975	9	-	-
649	Dworshak	3	-	7.190%	2023	1975	9	-	-
650	Dworshak	518	-	7.190%	2023	1976	9	-	-
651	Dworshak	3	-	7.190%	2023	1976	9	-	-
652	Dworshak	518	-	7.190%	2023	1977	9	-	-

TABLE 13A: HISTORICAL INVESTMENT
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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
653	Dworshak	3	-	7.190%	2023	1977	9	-	-
654	Dworshak	518	-	7.190%	2023	1978	9	-	-
655	Dworshak	3	-	7.190%	2023	1978	9	-	-
656	Dworshak	518	-	7.190%	2023	1979	9	-	-
657	Dworshak	3	-	7.190%	2023	1979	9	-	-
658	Dworshak	518	-	7.190%	2023	1980	9	-	-
659	Dworshak	3	-	7.190%	2023	1980	9	-	-
660	Dworshak	518	-	7.190%	2023	1981	9	-	-
661	Dworshak	3	-	7.190%	2023	1981	9	-	-
662	Dworshak	518	-	7.190%	2023	1982	9	-	-
663	Dworshak	3	-	7.190%	2023	1982	9	-	-
664	Dworshak	523	-	7.190%	2023	1983	9	-	-
665	Dworshak	3	-	7.190%	2023	1983	9	-	-
666	Dworshak	2,499	-	10.750%	2023	1984	9	-	-
667	Dworshak	15	-	10.750%	2023	1984	9	-	-
668	Dworshak	1,141	-	7.190%	2023	1985	9	-	-
669	Dworshak	197	-	7.190%	2023	1986	9	-	-
670	Dworshak	36	-	7.190%	2023	1987	9	-	-
671	Dworshak	65	-	8.875%	2023	1987	9	-	-
672	Dworshak	61	-	8.500%	2023	1988	9	-	-
673	Dworshak	63	-	9.250%	2023	1989	9	-	-
674	Dworshak	245	-	8.875%	2023	1990	9	-	-
675	Dworshak	24	-	8.875%	2023	1990	9	-	-
676	Dworshak	224	-	8.750%	2023	1991	9	-	-
677	Dworshak	4	-	2.625%	2023	1992	9	-	-
678	Dworshak	28	-	8.500%	2023	1992	9	-	-
679	Dworshak	24	-	8.500%	2023	1992	9	-	-
680	Dworshak	41	-	7.875%	2023	1993	9	-	-
681	Dworshak	1,872	-	7.875%	2023	1993	9	-	-
682	Dworshak	1,351	-	7.125%	2029	1994	9	-	-
683	Dworshak	964	-	7.125%	2029	1994	9	-	-
684	Dworshak	55	-	7.930%	2020	1995	9	-	-
685	Dworshak	218	218	7.150%	2030	1995	9	-	-
686	Dworshak	1,162	1,162	7.150%	2045	1995	9	-	-
687	Dworshak	107	-	7.130%	2011	1996	9	-	-
688	Dworshak	26	-	7.230%	2021	1996	9	-	-
689	Dworshak	184	-	7.230%	2021	1996	9	-	-
690	Dworshak	6	6	7.150%	2031	1996	9	-	-
691	Dworshak	203	203	7.150%	2031	1996	9	-	-
692	Dworshak	3	3	7.150%	2046	1996	9	-	-
693	Dworshak	4	4	7.150%	2046	1996	9	-	-
694	Dworshak	46	46	7.150%	2046	1996	9	-	-
695	Dworshak	7,588	7,588	7.150%	2047	1997	9	-	-
696	Dworshak	630	630	5.375%	2049	1999	9	-	-
697	Dworshak	199	199	5.500%	2052	2002	9	-	-
698	Dworshak	761	761	5.125%	2053	2003	9	-	-
699	Dworshak	713	713	5.125%	2055	2005	9	-	-
700	Dworshak	73	73	4.500%	2056	2006	9	-	-
701	Dworshak	10	10	4.875%	2058	2008	9	-	-
702	Dworshak	2,480	2,480	4.375%	2059	2009	9	-	-
703	Green Peter/Foster	24,445	-	7.290%	2017	1967	9	-	-
704	Green Peter/Foster	12,180	-	7.280%	2018	1968	9	-	-
705	Green Peter/Foster	39	-	7.280%	2018	1969	9	-	-
706	Green Peter/Foster	40	-	7.280%	2018	1970	9	-	-
707	Green Peter/Foster	39	-	7.280%	2018	1971	9	-	-
708	Green Peter/Foster	39	-	7.280%	2018	1972	9	-	-
709	Green Peter/Foster	39	-	7.280%	2018	1973	9	-	-
710	Green Peter/Foster	39	-	7.280%	2018	1974	9	-	-
711	Green Peter/Foster	39	-	7.280%	2018	1975	9	-	-
712	Green Peter/Foster	39	-	7.280%	2018	1976	9	-	-
713	Green Peter/Foster	39	-	7.280%	2018	1977	9	-	-
714	Green Peter/Foster	39	-	7.280%	2018	1978	9	-	-
715	Green Peter/Foster	39	-	7.280%	2018	1979	9	-	-
716	Green Peter/Foster	40	-	7.280%	2018	1980	9	-	-
717	Green Peter/Foster	39	-	7.280%	2018	1981	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
718	Green Peter/Foster	39	-	7.280%	2018	1982	9	-	-
719	Green Peter/Foster	39	-	7.280%	2018	1983	9	-	-
720	Green Peter/Foster	15	-	10.750%	2018	1984	9	-	-
721	Green Peter/Foster	16	-	7.280%	2018	1985	9	-	-
722	Green Peter/Foster	3	-	7.280%	2018	1986	9	-	-
723	Green Peter/Foster	3	-	11.375%	2018	1986	9	-	-
724	Green Peter/Foster	1	-	7.280%	2018	1987	9	-	-
725	Green Peter/Foster	2	-	8.875%	2018	1987	9	-	-
726	Green Peter/Foster	13	-	8.500%	2018	1988	9	-	-
727	Green Peter/Foster	24	-	9.250%	2018	1989	9	-	-
728	Green Peter/Foster	5	-	8.875%	2018	1990	9	-	-
729	Green Peter/Foster	48	-	8.750%	2018	1991	9	-	-
730	Green Peter/Foster	2	-	8.500%	2018	1992	9	-	-
731	Green Peter/Foster	41	-	7.875%	2018	1993	9	-	-
732	Green Peter/Foster	6	-	7.125%	1999	1994	9	-	-
733	Green Peter/Foster	4	-	7.330%	2000	1995	9	-	-
734	Green Peter/Foster	11	-	7.250%	2020	1995	9	-	-
735	Green Peter/Foster	24	-	7.250%	2020	1995	9	-	-
736	Green Peter/Foster	26	26	7.150%	2046	1996	9	-	-
737	Green Peter/Foster	200	200	5.875%	2051	2001	9	-	-
738	Green Peter/Foster	87	87	3.750%	2061	2011	9	-	-
739	Hills Creek	10,353	-	7.160%	2012	1962	9	-	-
740	Hills Creek	12	-	7.160%	2012	1963	9	-	-
741	Hills Creek	13	-	7.160%	2012	1964	9	-	-
742	Hills Creek	13	-	7.160%	2012	1965	9	-	-
743	Hills Creek	13	-	7.160%	2012	1966	9	-	-
744	Hills Creek	13	-	7.160%	2012	1967	9	-	-
745	Hills Creek	13	-	7.160%	2012	1968	9	-	-
746	Hills Creek	13	-	7.160%	2012	1969	9	-	-
747	Hills Creek	13	-	7.160%	2012	1970	9	-	-
748	Hills Creek	13	-	7.160%	2012	1971	9	-	-
749	Hills Creek	13	-	7.160%	2012	1972	9	-	-
750	Hills Creek	13	-	7.160%	2012	1973	9	-	-
751	Hills Creek	13	-	7.160%	2012	1974	9	-	-
752	Hills Creek	13	-	7.160%	2012	1975	9	-	-
753	Hills Creek	13	-	7.160%	2012	1976	9	-	-
754	Hills Creek	13	-	7.160%	2012	1977	9	-	-
755	Hills Creek	13	-	7.160%	2012	1978	9	-	-
756	Hills Creek	13	-	7.160%	2012	1979	9	-	-
757	Hills Creek	13	-	7.160%	2012	1980	9	-	-
758	Hills Creek	13	-	7.160%	2012	1981	9	-	-
759	Hills Creek	13	-	7.160%	2012	1982	9	-	-
760	Hills Creek	13	-	7.160%	2012	1983	9	-	-
761	Hills Creek	52	-	10.750%	2012	1984	9	-	-
762	Hills Creek	6	-	7.160%	2012	1985	9	-	-
763	Hills Creek	3	-	8.875%	2012	1987	9	-	-
764	Hills Creek	3	-	8.500%	2012	1988	9	-	-
765	Hills Creek	3	-	8.875%	2012	1990	9	-	-
766	Hills Creek	17	-	8.750%	2012	1991	9	-	-
767	Hills Creek	1	-	8.500%	2012	1992	9	-	-
768	Hills Creek	13	-	7.875%	2012	1993	9	-	-
769	Hills Creek	28	28	7.150%	2046	1996	9	-	-
770	Hills Creek	2,630	2,630	6.125%	2050	2000	9	-	-
771	Hills Creek	8	8	5.875%	2051	2001	9	-	-
772	Hills Creek	2	2	5.500%	2052	2002	9	-	-
773	Hills Creek	46	46	5.125%	2055	2005	9	-	-
774	Hills Creek	12	12	3.750%	2061	2011	9	-	-
775	Hungry Horse Dam	75,076	-	6.840%	2003	1953	9	-	-
776	Hungry Horse Dam	2,126	-	6.840%	2003	1953	9	-	-
777	Hungry Horse Dam	17	-	6.840%	2003	1954	9	-	-
778	Hungry Horse Dam	1	-	6.840%	2003	1954	9	-	-
779	Hungry Horse Dam	17	-	6.840%	2003	1955	9	-	-
780	Hungry Horse Dam	1	-	6.840%	2003	1955	9	-	-
781	Hungry Horse Dam	17	-	6.840%	2003	1956	9	-	-
782	Hungry Horse Dam	1	-	6.840%	2003	1956	9	-	-

TABLE 13A: HISTORICAL INVESTMENT
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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
783	Hungry Horse Dam	18	-	6.840%	2003	1957	9	-	-
784	Hungry Horse Dam	1	-	6.840%	2003	1957	9	-	-
785	Hungry Horse Dam	18	-	6.840%	2003	1958	9	-	-
786	Hungry Horse Dam	1	-	6.840%	2003	1958	9	-	-
787	Hungry Horse Dam	18	-	6.840%	2003	1959	9	-	-
788	Hungry Horse Dam	1	-	6.840%	2003	1959	9	-	-
789	Hungry Horse Dam	18	-	6.840%	2003	1960	9	-	-
790	Hungry Horse Dam	1	-	6.840%	2003	1960	9	-	-
791	Hungry Horse Dam	18	-	6.840%	2003	1961	9	-	-
792	Hungry Horse Dam	1	-	6.840%	2003	1961	9	-	-
793	Hungry Horse Dam	18	-	6.840%	2003	1962	9	-	-
794	Hungry Horse Dam	1	-	6.840%	2003	1962	9	-	-
795	Hungry Horse Dam	18	-	6.840%	2003	1963	9	-	-
796	Hungry Horse Dam	1	-	6.840%	2003	1963	9	-	-
797	Hungry Horse Dam	17	-	6.840%	2003	1964	9	-	-
798	Hungry Horse Dam	1	-	6.840%	2003	1964	9	-	-
799	Hungry Horse Dam	17	-	6.840%	2003	1965	9	-	-
800	Hungry Horse Dam	1	-	6.840%	2003	1965	9	-	-
801	Hungry Horse Dam	17	-	6.840%	2003	1966	9	-	-
802	Hungry Horse Dam	1	-	6.840%	2003	1966	9	-	-
803	Hungry Horse Dam	18	-	6.840%	2003	1967	9	-	-
804	Hungry Horse Dam	1	-	6.840%	2003	1967	9	-	-
805	Hungry Horse Dam	18	-	6.840%	2003	1968	9	-	-
806	Hungry Horse Dam	1	-	6.840%	2003	1968	9	-	-
807	Hungry Horse Dam	18	-	6.840%	2003	1969	9	-	-
808	Hungry Horse Dam	1	-	6.840%	2003	1969	9	-	-
809	Hungry Horse Dam	18	-	6.840%	2003	1970	9	-	-
810	Hungry Horse Dam	1	-	6.840%	2003	1970	9	-	-
811	Hungry Horse Dam	18	-	6.840%	2003	1971	9	-	-
812	Hungry Horse Dam	1	-	6.840%	2003	1971	9	-	-
813	Hungry Horse Dam	18	-	6.840%	2003	1972	9	-	-
814	Hungry Horse Dam	1	-	6.840%	2003	1972	9	-	-
815	Hungry Horse Dam	18	-	6.840%	2003	1973	9	-	-
816	Hungry Horse Dam	1	-	6.840%	2003	1973	9	-	-
817	Hungry Horse Dam	17	-	6.840%	2003	1974	9	-	-
818	Hungry Horse Dam	1	-	6.840%	2003	1974	9	-	-
819	Hungry Horse Dam	17	-	6.840%	2003	1975	9	-	-
820	Hungry Horse Dam	1	-	6.840%	2003	1975	9	-	-
821	Hungry Horse Dam	10	-	6.840%	2003	1976	9	-	-
822	Hungry Horse Dam	1	-	6.840%	2003	1976	9	-	-
823	Hungry Horse Dam	18	-	6.840%	2003	1977	9	-	-
824	Hungry Horse Dam	1	-	6.840%	2003	1977	9	-	-
825	Hungry Horse Dam	18	-	6.840%	2003	1978	9	-	-
826	Hungry Horse Dam	1	-	6.840%	2003	1978	9	-	-
827	Hungry Horse Dam	18	-	6.840%	2003	1979	9	-	-
828	Hungry Horse Dam	1	-	6.840%	2003	1979	9	-	-
829	Hungry Horse Dam	18	-	6.840%	2003	1980	9	-	-
830	Hungry Horse Dam	1	-	6.840%	2003	1980	9	-	-
831	Hungry Horse Dam	22	-	6.840%	2003	1981	9	-	-
832	Hungry Horse Dam	1	-	6.840%	2003	1981	9	-	-
833	Hungry Horse Dam	1	-	6.840%	2003	1982	9	-	-
834	Hungry Horse Dam	12	-	6.840%	2003	1983	9	-	-
835	Hungry Horse Dam	1	-	6.840%	2003	1983	9	-	-
836	Hungry Horse Dam	32	-	10.750%	2003	1984	9	-	-
837	Hungry Horse Dam	1	-	10.750%	2003	1984	9	-	-
838	Hungry Horse Dam	36	-	12.375%	2003	1985	9	-	-
839	Hungry Horse Dam	37	-	12.375%	2003	1985	9	-	-
840	Hungry Horse Dam	101	-	9.250%	2003	1989	9	-	-
841	Hungry Horse Dam	58	-	8.875%	2003	1990	9	-	-
842	Hungry Horse Dam	19	-	8.750%	2003	1991	9	-	-
843	Hungry Horse Dam	9	-	8.500%	2003	1992	9	-	-
844	Hungry Horse Dam	4,136	-	7.875%	2003	1993	9	-	-
845	Hungry Horse Dam	2	-	7.875%	2003	1993	9	-	-
846	Hungry Horse Dam	56	-	7.125%	2019	1994	9	-	-
847	Hungry Horse Dam	156	-	6.620%	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
848	Hungry Horse Dam	84	-	6.620%	2000	1995	9	-	-
849	Hungry Horse Dam	450	-	7.930%	2020	1995	9	-	-
850	Hungry Horse Dam	536	536	7.150%	2030	1995	9	-	-
851	Hungry Horse Dam	1,198	1,195	7.150%	2030	1995	9	-	-
852	Hungry Horse Dam	6,190	6,190	7.150%	2045	1995	9	-	-
853	Hungry Horse Dam	14,354	-	7.860%	2045	1995	9	-	-
854	Hungry Horse Dam	15	15	7.150%	2046	1996	9	-	-
855	Hungry Horse Dam	2	2	7.150%	2046	1996	9	-	-
856	Hungry Horse Dam	154	-	6.950%	2007	1997	9	-	-
857	Hungry Horse Dam	111	111	7.150%	2047	1997	9	-	-
858	Hungry Horse Dam	552	552	5.875%	2051	2001	9	-	-
859	Hungry Horse Dam	2,951	2,951	5.125%	2055	2005	9	-	-
860	Hungry Horse Dam	294	294	5.000%	2057	2007	9	-	-
861	Hungry Horse Dam	76	76	4.875%	2058	2008	9	-	-
862	Hungry Horse Dam	60	60	4.375%	2059	2009	9	-	-
863	Hungry Horse Dam	779	779	4.250%	2060	2010	9	-	-
864	Hungry Horse Dam	506	506	3.750%	2061	2011	9	-	-
865	Ice Harbor	664	-	7.160%	2012	1962	9	-	-
866	Ice Harbor	59,699	-	7.160%	2012	1962	9	-	-
867	Ice Harbor	46	-	7.160%	2012	1963	9	-	-
868	Ice Harbor	1	-	7.160%	2012	1963	9	-	-
869	Ice Harbor	46	-	7.160%	2012	1964	9	-	-
870	Ice Harbor	1	-	7.160%	2012	1964	9	-	-
871	Ice Harbor	46	-	7.160%	2012	1965	9	-	-
872	Ice Harbor	1	-	7.160%	2012	1965	9	-	-
873	Ice Harbor	46	-	7.160%	2012	1966	9	-	-
874	Ice Harbor	1	-	7.160%	2012	1966	9	-	-
875	Ice Harbor	46	-	7.160%	2012	1967	9	-	-
876	Ice Harbor	1	-	7.160%	2012	1967	9	-	-
877	Ice Harbor	46	-	7.160%	2012	1968	9	-	-
878	Ice Harbor	1	-	7.160%	2012	1968	9	-	-
879	Ice Harbor	46	-	7.160%	2012	1969	9	-	-
880	Ice Harbor	1	-	7.160%	2012	1969	9	-	-
881	Ice Harbor	46	-	7.160%	2012	1970	9	-	-
882	Ice Harbor	1	-	7.160%	2012	1970	9	-	-
883	Ice Harbor	46	-	7.160%	2012	1971	9	-	-
884	Ice Harbor	1	-	7.160%	2012	1971	9	-	-
885	Ice Harbor	46	-	7.160%	2012	1972	9	-	-
886	Ice Harbor	1	-	7.160%	2012	1972	9	-	-
887	Ice Harbor	46	-	7.160%	2012	1973	9	-	-
888	Ice Harbor	1	-	7.160%	2012	1973	9	-	-
889	Ice Harbor	46	-	7.160%	2012	1974	9	-	-
890	Ice Harbor	1	-	7.160%	2012	1974	9	-	-
891	Ice Harbor	46	-	7.160%	2012	1975	9	-	-
892	Ice Harbor	1	-	7.160%	2012	1975	9	-	-
893	Ice Harbor	46	-	7.160%	2012	1976	9	-	-
894	Ice Harbor	1	-	7.160%	2012	1976	9	-	-
895	Ice Harbor	20,472	20,472	7.150%	2026	1976	9	-	-
896	Ice Harbor	228	228	7.150%	2026	1976	9	-	-
897	Ice Harbor	46	-	7.160%	2012	1977	9	-	-
898	Ice Harbor	1	-	7.160%	2012	1977	9	-	-
899	Ice Harbor	46	-	7.160%	2012	1978	9	-	-
900	Ice Harbor	1	-	7.160%	2012	1978	9	-	-
901	Ice Harbor	46	-	7.160%	2012	1979	9	-	-
902	Ice Harbor	1	-	7.160%	2012	1979	9	-	-
903	Ice Harbor	46	-	7.160%	2012	1980	9	-	-
904	Ice Harbor	1	-	7.160%	2012	1980	9	-	-
905	Ice Harbor	46	-	7.160%	2012	1981	9	-	-
906	Ice Harbor	1	-	7.160%	2012	1981	9	-	-
907	Ice Harbor	46	-	7.160%	2012	1982	9	-	-
908	Ice Harbor	1	-	7.160%	2012	1982	9	-	-
909	Ice Harbor	46	-	7.160%	2012	1983	9	-	-
910	Ice Harbor	1	-	7.160%	2012	1983	9	-	-
911	Ice Harbor	41	-	7.160%	2012	1985	9	-	-
912	Ice Harbor	21	21	7.150%	2026	1985	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
913	Ice Harbor	137	-	7.160%	2012	1986	9	-	-
914	Ice Harbor	3	-	7.160%	2012	1987	9	-	-
915	Ice Harbor	71	-	8.875%	2012	1987	9	-	-
916	Ice Harbor	1	-	8.875%	2012	1987	9	-	-
917	Ice Harbor	8	-	8.500%	2012	1988	9	-	-
918	Ice Harbor	57	-	8.500%	2012	1988	9	-	-
919	Ice Harbor	51	-	9.250%	2012	1989	9	-	-
920	Ice Harbor	427	-	8.875%	2012	1990	9	-	-
921	Ice Harbor	348	-	8.750%	2012	1991	9	-	-
922	Ice Harbor	177	-	8.500%	2012	1992	9	-	-
923	Ice Harbor	3,192	-	7.875%	2012	1993	9	-	-
924	Ice Harbor	1,645	-	7.875%	2012	1993	9	-	-
925	Ice Harbor	328	-	7.125%	2029	1994	9	-	-
926	Ice Harbor	520	-	7.125%	2029	1994	9	-	-
927	Ice Harbor	2	-	7.330%	2000	1995	9	-	-
928	Ice Harbor	84	-	7.270%	2019	1995	9	-	-
929	Ice Harbor	171	-	7.270%	2019	1995	9	-	-
930	Ice Harbor	849	-	7.270%	2019	1995	9	-	-
931	Ice Harbor	78	78	7.150%	2031	1996	9	-	-
932	Ice Harbor	371	371	7.150%	2041	1996	9	-	-
933	Ice Harbor	66	-	7.230%	2022	1997	9	-	-
934	Ice Harbor	67	67	7.150%	2047	1997	9	-	-
935	Ice Harbor	5,516	5,516	5.375%	2049	1999	9	-	-
936	Ice Harbor	548	548	6.125%	2050	2000	9	-	-
937	Ice Harbor	764	764	5.875%	2051	2001	9	-	-
938	Ice Harbor	1,014	1,014	5.500%	2052	2002	9	-	-
939	Ice Harbor	50	50	5.125%	2053	2003	9	-	-
940	Ice Harbor	3,321	3,321	5.375%	2054	2004	9	-	-
941	Ice Harbor	14	14	4.875%	2058	2008	9	-	-
942	Ice Harbor	2,615	2,615	4.375%	2059	2009	9	-	-
943	Ice Harbor	207	207	4.250%	2060	2010	9	-	-
944	Ice Harbor	491	491	3.750%	2061	2011	9	-	-
945	John Day	27,254	-	7.280%	2018	1968	9	-	-
946	John Day	96,104	-	7.270%	2019	1969	9	-	-
947	John Day	23,656	-	7.250%	2020	1970	9	-	-
948	John Day	34,974	-	7.230%	2021	1971	9	-	-
949	John Day	11,502	-	7.210%	2022	1972	9	-	-
950	John Day	3,677	-	10.750%	2022	1984	9	-	-
951	John Day	6,490	-	7.210%	2022	1985	9	-	-
952	John Day	1,209	-	12.375%	2022	1985	9	-	-
953	John Day	3,227	-	7.210%	2022	1986	9	-	-
954	John Day	713	-	11.375%	2022	1986	9	-	-
955	John Day	706	-	7.210%	2022	1987	9	-	-
956	John Day	4,353	-	8.875%	2022	1987	9	-	-
957	John Day	332	-	8.500%	2022	1988	9	-	-
958	John Day	199	-	8.500%	2022	1988	9	-	-
959	John Day	30	-	7.210%	2022	1989	9	-	-
960	John Day	377	-	9.250%	2022	1989	9	-	-
961	John Day	37	-	7.210%	2022	1990	9	-	-
962	John Day	543	-	8.875%	2022	1990	9	-	-
963	John Day	13,218	-	8.750%	2022	1991	9	-	-
964	John Day	144	-	8.750%	2022	1991	9	-	-
965	John Day	19	-	7.210%	2022	1992	9	-	-
966	John Day	95	-	8.500%	2022	1992	9	-	-
967	John Day	7,810	-	7.875%	2022	1993	9	-	-
968	John Day	9,585	-	7.875%	2022	1993	9	-	-
969	John Day	14	-	7.125%	2019	1994	9	-	-
970	John Day	1,252	-	7.125%	2029	1994	9	-	-
971	John Day	2	-	7.330%	2000	1995	9	-	-
972	John Day	9	-	7.330%	2000	1995	9	-	-
973	John Day	79	-	7.250%	2020	1995	9	-	-
974	John Day	22	22	7.150%	2035	1995	9	-	-
975	John Day	52	52	7.150%	2035	1995	9	-	-
976	John Day	121	121	7.150%	2035	1995	9	-	-
977	John Day	37	37	7.150%	2045	1995	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
978	John Day	608	608	7.150%	2045	1995	9	-	-
979	John Day	7,653	7,653	7.150%	2045	1995	9	-	-
980	John Day	237	-	7.130%	2011	1996	9	-	-
981	John Day	1,072	-	7.290%	2016	1996	9	-	-
982	John Day	133	-	7.230%	2022	1997	9	-	-
983	John Day	179	179	7.150%	2047	1997	9	-	-
984	John Day	3,510	3,510	5.375%	2049	1999	9	-	-
985	John Day	2,761	2,761	6.125%	2050	2000	9	-	-
986	John Day	619	619	5.875%	2051	2001	9	-	-
987	John Day	2,830	2,830	5.375%	2054	2004	9	-	-
988	John Day	2,827	2,827	5.125%	2055	2005	9	-	-
989	John Day	601	601	4.500%	2056	2006	9	-	-
990	John Day	233	233	5.000%	2057	2007	9	-	-
991	John Day	1,548	1,548	4.375%	2059	2009	9	-	-
992	John Day	356	356	4.250%	2060	2010	9	-	-
993	John Day	175	175	3.750%	2061	2011	9	-	-
994	Libby	54,644	48,138	7.160%	2025	1975	9	-	-
995	Libby	153,432	153,432	7.150%	2026	1976	9	-	-
996	Libby	1,465	1,465	7.150%	2026	1977	9	-	-
997	Libby	1,465	1,465	7.150%	2026	1978	9	-	-
998	Libby	1,465	1,465	7.150%	2026	1979	9	-	-
999	Libby	1,465	1,465	7.150%	2026	1980	9	-	-
1000	Libby	1,465	1,465	7.150%	2026	1981	9	-	-
1001	Libby	1,465	1,465	7.150%	2026	1982	9	-	-
1002	Libby	1,465	1,465	7.150%	2026	1983	9	-	-
1003	Libby	104	-	10.750%	2026	1984	9	-	-
1004	Libby	518	518	7.150%	2026	1985	9	-	-
1005	Libby	283	283	7.150%	2026	1986	9	-	-
1006	Libby	2	2	7.150%	2026	1987	9	-	-
1007	Libby	35	-	8.505%	2026	1988	9	-	-
1008	Libby	18,043	14,781	7.150%	2038	1988	9	-	-
1009	Libby	1	1	7.150%	2026	1989	9	-	-
1010	Libby	131	-	9.250%	2026	1989	9	-	-
1011	Libby	11	-	8.875%	2026	1990	9	-	-
1012	Libby	134	-	8.750%	2026	1991	9	-	-
1013	Libby	100	-	8.500%	2026	1992	9	-	-
1014	Libby	70	-	8.500%	2026	1992	9	-	-
1015	Libby	600	-	7.875%	2026	1993	9	-	-
1016	Libby	286	152	7.150%	2029	1994	9	-	-
1017	Libby	215	-	7.125%	2029	1994	9	-	-
1018	Libby	15	15	7.150%	2030	1995	9	-	-
1019	Libby	41	41	7.150%	2030	1995	9	-	-
1020	Libby	94	94	7.150%	2030	1995	9	-	-
1021	Libby	432	-	7.230%	2022	1997	9	-	-
1022	Libby	660	660	7.150%	2047	1997	9	-	-
1023	Libby	5,562	5,562	5.875%	2051	2001	9	-	-
1024	Libby	1,567	1,567	4.875%	2058	2008	9	-	-
1025	Libby	40	40	4.250%	2060	2010	9	-	-
1026	Libby	174	174	3.750%	2061	2011	9	-	-
1027	Little Goose	22,326	-	7.250%	2020	1970	9	-	-
1028	Little Goose	42,962	-	7.230%	2021	1971	9	-	-
1029	Little Goose	28	-	7.230%	2021	1972	9	-	-
1030	Little Goose	29	-	7.230%	2021	1973	9	-	-
1031	Little Goose	28	-	7.230%	2021	1974	9	-	-
1032	Little Goose	29	-	7.230%	2021	1975	9	-	-
1033	Little Goose	28	-	7.230%	2021	1976	9	-	-
1034	Little Goose	29	-	7.230%	2021	1977	9	-	-
1035	Little Goose	28	-	7.230%	2021	1978	9	-	-
1036	Little Goose	49,578	49,578	7.150%	2028	1978	9	-	-
1037	Little Goose	29	-	7.230%	2021	1979	9	-	-
1038	Little Goose	28	-	7.230%	2021	1980	9	-	-
1039	Little Goose	29	-	7.230%	2021	1981	9	-	-
1040	Little Goose	28	-	7.230%	2021	1982	9	-	-
1041	Little Goose	29	-	7.230%	2021	1983	9	-	-
1042	Little Goose	201	-	10.750%	2021	1984	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	174	-	7.230%	2021	1985	9	-	-
1044	Little Goose	47	47	7.150%	2028	1985	9	-	-
1045	Little Goose	239	-	7.230%	2021	1986	9	-	-
1046	Little Goose	6	-	7.230%	2021	1987	9	-	-
1047	Little Goose	72	-	8.875%	2021	1987	9	-	-
1048	Little Goose	12	-	8.500%	2021	1988	9	-	-
1049	Little Goose	68	-	8.500%	2021	1988	9	-	-
1050	Little Goose	77	-	9.250%	2021	1989	9	-	-
1051	Little Goose	408	-	8.875%	2021	1990	9	-	-
1052	Little Goose	21	-	8.875%	2021	1990	9	-	-
1053	Little Goose	266	-	8.750%	2021	1991	9	-	-
1054	Little Goose	66	-	8.500%	2021	1992	9	-	-
1055	Little Goose	27	-	8.500%	2021	1992	9	-	-
1056	Little Goose	276	-	7.875%	2021	1993	9	-	-
1057	Little Goose	3,359	-	7.875%	2021	1993	9	-	-
1058	Little Goose	37	-	7.125%	2019	1994	9	-	-
1059	Little Goose	2,044	-	7.125%	2029	1994	9	-	-
1060	Little Goose	17	17	7.150%	2040	1995	9	-	-
1061	Little Goose	450	450	7.150%	2040	1995	9	-	-
1062	Little Goose	733	733	7.150%	2040	1995	9	-	-
1063	Little Goose	10	10	7.150%	2046	1996	9	-	-
1064	Little Goose	10	10	7.150%	2046	1996	9	-	-
1065	Little Goose	211	211	7.150%	2046	1996	9	-	-
1066	Little Goose	241	241	7.150%	2046	1996	9	-	-
1067	Little Goose	520	520	7.150%	2046	1996	9	-	-
1068	Little Goose	3,909	3,909	7.150%	2046	1996	9	-	-
1069	Little Goose	1	1	7.150%	2047	1997	9	-	-
1070	Little Goose	4,608	4,608	5.875%	2051	2001	9	-	-
1071	Little Goose	27	27	5.500%	2052	2002	9	-	-
1072	Little Goose	146	146	5.125%	2053	2003	9	-	-
1073	Little Goose	67	67	5.375%	2054	2004	9	-	-
1074	Little Goose	13	13	4.875%	2058	2008	9	-	-
1075	Little Goose	3,171	3,171	4.375%	2059	2009	9	-	-
1076	Little Goose	30	30	4.250%	2060	2010	9	-	-
1077	Lookout Dam	34,290	-	6.910%	2005	1955	9	-	-
1078	Lookout Dam	52	-	6.910%	2005	1956	9	-	-
1079	Lookout Dam	51	-	6.910%	2005	1957	9	-	-
1080	Lookout Dam	51	-	6.910%	2005	1958	9	-	-
1081	Lookout Dam	51	-	6.910%	2005	1959	9	-	-
1082	Lookout Dam	51	-	6.910%	2005	1960	9	-	-
1083	Lookout Dam	52	-	6.910%	2005	1961	9	-	-
1084	Lookout Dam	51	-	6.910%	2005	1962	9	-	-
1085	Lookout Dam	51	-	6.910%	2005	1963	9	-	-
1086	Lookout Dam	51	-	6.910%	2005	1964	9	-	-
1087	Lookout Dam	51	-	6.910%	2005	1965	9	-	-
1088	Lookout Dam	51	-	6.910%	2005	1966	9	-	-
1089	Lookout Dam	52	-	6.910%	2005	1967	9	-	-
1090	Lookout Dam	51	-	6.910%	2005	1968	9	-	-
1091	Lookout Dam	51	-	6.910%	2005	1969	9	-	-
1092	Lookout Dam	51	-	6.910%	2005	1970	9	-	-
1093	Lookout Dam	51	-	6.910%	2005	1971	9	-	-
1094	Lookout Dam	51	-	6.910%	2005	1972	9	-	-
1095	Lookout Dam	52	-	6.910%	2005	1973	9	-	-
1096	Lookout Dam	51	-	6.910%	2005	1974	9	-	-
1097	Lookout Dam	51	-	6.910%	2005	1975	9	-	-
1098	Lookout Dam	51	-	6.910%	2005	1976	9	-	-
1099	Lookout Dam	51	-	6.910%	2005	1977	9	-	-
1100	Lookout Dam	51	-	6.910%	2005	1978	9	-	-
1101	Lookout Dam	52	-	6.910%	2005	1979	9	-	-
1102	Lookout Dam	51	-	6.910%	2005	1980	9	-	-
1103	Lookout Dam	51	-	6.910%	2005	1981	9	-	-
1104	Lookout Dam	51	-	6.910%	2005	1982	9	-	-
1105	Lookout Dam	51	-	6.910%	2005	1983	9	-	-
1106	Lookout Dam	185	-	10.750%	2005	1984	9	-	-
1107	Lookout Dam	52	-	6.910%	2005	1985	9	-	-
1108	Lookout Dam	42	-	6.910%	2005	1986	9	-	-

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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
1109	Lookout Dam	9	-	6.910%	2005	1987	9	-	-
1110	Lookout Dam	12	-	8.875%	2005	1987	9	-	-
1111	Lookout Dam	46	-	8.500%	2005	1988	9	-	-
1112	Lookout Dam	17	-	8.500%	2005	1988	9	-	-
1113	Lookout Dam	23	-	9.250%	2005	1989	9	-	-
1114	Lookout Dam	147	-	8.875%	2005	1990	9	-	-
1115	Lookout Dam	4	-	8.875%	2005	1990	9	-	-
1116	Lookout Dam	6	-	8.750%	2005	1991	9	-	-
1117	Lookout Dam	50	-	8.750%	2005	1991	9	-	-
1118	Lookout Dam	181	-	8.500%	2005	1992	9	-	-
1119	Lookout Dam	4	-	8.500%	2005	1992	9	-	-
1120	Lookout Dam	18	-	7.875%	2005	1993	9	-	-
1121	Lookout Dam	189	-	7.875%	2005	1993	9	-	-
1122	Lookout Dam	73	-	7.125%	2019	1994	9	-	-
1123	Lookout Dam	80	39	7.150%	2045	1995	9	-	-
1124	Lookout Dam	33	33	7.150%	2045	1995	9	-	-
1125	Lookout Dam	9	-	7.860%	2045	1995	9	-	-
1126	Lookout Dam	15	-	7.860%	2045	1995	9	-	-
1127	Lookout Dam	31	-	7.860%	2045	1995	9	-	-
1128	Lookout Dam	157	-	7.860%	2045	1995	9	-	-
1129	Lookout Dam	5,098	5,098	6.125%	2050	2000	9	-	-
1130	Lookout Dam	135	135	5.125%	2053	2003	9	-	-
1131	Lookout Dam	7,355	7,355	5.125%	2055	2005	9	-	-
1132	Lookout Dam	572	572	5.000%	2057	2007	9	-	-
1133	Lookout Dam	17	17	3.750%	2061	2011	9	-	-
1134	Lost Creek	13,505	13,413	7.150%	2027	1977	9	-	-
1135	Lost Creek	58	58	7.150%	2027	1978	9	-	-
1136	Lost Creek	60	60	7.150%	2027	1979	9	-	-
1137	Lost Creek	60	60	7.150%	2027	1980	9	-	-
1138	Lost Creek	60	60	7.150%	2027	1981	9	-	-
1139	Lost Creek	60	60	7.150%	2027	1982	9	-	-
1140	Lost Creek	60	60	7.150%	2027	1983	9	-	-
1141	Lost Creek	243	-	10.750%	2027	1984	9	-	-
1142	Lost Creek	12	12	7.150%	2027	1985	9	-	-
1143	Lost Creek	6	6	7.150%	2027	1986	9	-	-
1144	Lost Creek	5	-	11.375%	2027	1986	9	-	-
1145	Lost Creek	4	4	7.150%	2027	1987	9	-	-
1146	Lost Creek	3	-	8.875%	2027	1987	9	-	-
1147	Lost Creek	7	-	8.500%	2027	1988	9	-	-
1148	Lost Creek	9	-	9.250%	2027	1989	9	-	-
1149	Lost Creek	1	-	8.875%	2027	1990	9	-	-
1150	Lost Creek	31	-	8.750%	2027	1991	9	-	-
1151	Lost Creek	1	-	8.500%	2027	1992	9	-	-
1152	Lost Creek	1	-	8.500%	2027	1992	9	-	-
1153	Lost Creek	1	-	7.875%	2027	1993	9	-	-
1154	Lost Creek	14	-	7.875%	2027	1993	9	-	-
1155	Lost Creek	4	-	7.330%	2000	1995	9	-	-
1156	Lost Creek	94	94	7.150%	2045	1995	9	-	-
1157	Lost Creek	31	31	7.150%	2031	1996	9	-	-
1158	Lost Creek	24	24	7.150%	2046	1996	9	-	-
1159	Lost Creek	147	147	5.875%	2051	2001	9	-	-
1160	Lower Granite	119,237	117,645	7.160%	2025	1975	9	-	-
1161	Lower Granite	510	510	7.160%	2025	1976	9	-	-
1162	Lower Granite	510	510	7.160%	2025	1977	9	-	-
1163	Lower Granite	510	510	7.160%	2025	1978	9	-	-
1164	Lower Granite	40,611	40,611	7.150%	2028	1978	9	-	-
1165	Lower Granite	510	510	7.160%	2025	1979	9	-	-
1166	Lower Granite	510	510	7.160%	2025	1980	9	-	-
1167	Lower Granite	510	510	7.160%	2025	1981	9	-	-
1168	Lower Granite	510	510	7.160%	2025	1982	9	-	-
1169	Lower Granite	510	510	7.160%	2025	1983	9	-	-
1170	Lower Granite	311	-	10.750%	2025	1984	9	-	-
1171	Lower Granite	328	328	7.160%	2025	1985	9	-	-
1172	Lower Granite	215	215	7.160%	2025	1986	9	-	-
1173	Lower Granite	4	-	11.375%	2025	1986	9	-	-

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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
1174	Lower Granite	8	8	7.160%	2025	1987	9	-	-
1175	Lower Granite	60	-	8.875%	2025	1987	9	-	-
1176	Lower Granite	22	-	8.500%	2025	1988	9	-	-
1177	Lower Granite	95	-	8.500%	2025	1988	9	-	-
1178	Lower Granite	112	-	9.250%	2025	1989	9	-	-
1179	Lower Granite	392	-	8.875%	2025	1990	9	-	-
1180	Lower Granite	281	-	8.750%	2025	1991	9	-	-
1181	Lower Granite	6	-	8.750%	2025	1991	9	-	-
1182	Lower Granite	83	-	8.500%	2025	1992	9	-	-
1183	Lower Granite	121	-	8.500%	2025	1992	9	-	-
1184	Lower Granite	26	-	7.875%	2025	1993	9	-	-
1185	Lower Granite	3,272	-	7.875%	2025	1993	9	-	-
1186	Lower Granite	38	-	7.125%	2019	1994	9	-	-
1187	Lower Granite	3,543	1,551	7.150%	2029	1994	9	-	-
1188	Lower Granite	77	-	7.290%	2017	1995	9	-	-
1189	Lower Granite	388	-	7.290%	2017	1995	9	-	-
1190	Lower Granite	458	-	7.290%	2017	1995	9	-	-
1191	Lower Granite	96	96	7.160%	2025	1995	9	-	-
1192	Lower Granite	255	-	7.130%	2011	1996	9	-	-
1193	Lower Granite	206	206	7.150%	2031	1996	9	-	-
1194	Lower Granite	9	9	7.150%	2046	1996	9	-	-
1195	Lower Granite	625	625	7.150%	2046	1996	9	-	-
1196	Lower Granite	677	677	7.150%	2047	1997	9	-	-
1197	Lower Granite	856	856	5.375%	2049	1999	9	-	-
1198	Lower Granite	2,025	2,025	5.875%	2051	2001	9	-	-
1199	Lower Granite	1,275	1,275	5.500%	2052	2002	9	-	-
1200	Lower Granite	42	42	5.125%	2053	2003	9	-	-
1201	Lower Granite	393	393	5.125%	2055	2005	9	-	-
1202	Lower Granite	24	24	4.875%	2058	2008	9	-	-
1203	Lower Granite	5,669	5,669	4.375%	2059	2009	9	-	-
1204	Lower Granite	1,156	1,156	4.250%	2060	2010	9	-	-
1205	Lower Granite	8	8	3.750%	2061	2011	9	-	-
1206	Lower Monument	26,974	-	7.270%	2019	1969	9	-	-
1207	Lower Monument	51,218	-	7.250%	2020	1970	9	-	-
1208	Lower Monument	214	-	7.250%	2020	1971	9	-	-
1209	Lower Monument	214	-	7.250%	2020	1972	9	-	-
1210	Lower Monument	214	-	7.250%	2020	1973	9	-	-
1211	Lower Monument	214	-	7.250%	2020	1974	9	-	-
1212	Lower Monument	214	-	7.250%	2020	1975	9	-	-
1213	Lower Monument	214	-	7.250%	2020	1976	9	-	-
1214	Lower Monument	214	-	7.250%	2020	1977	9	-	-
1215	Lower Monument	214	-	7.250%	2020	1978	9	-	-
1216	Lower Monument	214	-	7.250%	2020	1979	9	-	-
1217	Lower Monument	40,669	40,669	7.150%	2029	1979	9	-	-
1218	Lower Monument	214	-	7.250%	2020	1980	9	-	-
1219	Lower Monument	214	-	7.250%	2020	1981	9	-	-
1220	Lower Monument	214	-	7.250%	2020	1982	9	-	-
1221	Lower Monument	214	-	7.250%	2020	1983	9	-	-
1222	Lower Monument	8	-	7.250%	2020	1985	9	-	-
1223	Lower Monument	256	256	7.150%	2029	1985	9	-	-
1224	Lower Monument	132	-	7.250%	2020	1986	9	-	-
1225	Lower Monument	3	-	7.250%	2020	1987	9	-	-
1226	Lower Monument	50	-	8.875%	2020	1987	9	-	-
1227	Lower Monument	1	-	8.500%	2020	1988	9	-	-
1228	Lower Monument	58	-	8.500%	2020	1988	9	-	-
1229	Lower Monument	93	-	9.250%	2020	1989	9	-	-
1230	Lower Monument	358	-	8.875%	2020	1990	9	-	-
1231	Lower Monument	594	-	8.750%	2020	1991	9	-	-
1232	Lower Monument	4,484	-	8.500%	2020	1992	9	-	-
1233	Lower Monument	24	-	7.875%	2020	1993	9	-	-
1234	Lower Monument	2,175	-	7.875%	2020	1993	9	-	-
1235	Lower Monument	107	-	7.125%	2019	1994	9	-	-
1236	Lower Monument	2,167	-	7.125%	2029	1994	9	-	-
1237	Lower Monument	6	-	7.330%	2000	1995	9	-	-
1238	Lower Monument	41	41	7.150%	2045	1995	9	-	-

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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
1239	Lower Monument	99	99	7.150%	2045	1995	9	-	-
1240	Lower Monument	624	624	7.150%	2045	1995	9	-	-
1241	Lower Monument	1,122	1,122	7.150%	2045	1995	9	-	-
1242	Lower Monument	668	-	7.290%	2016	1996	9	-	-
1243	Lower Monument	37	-	7.230%	2021	1996	9	-	-
1244	Lower Monument	51	-	7.230%	2021	1996	9	-	-
1245	Lower Monument	264	264	7.150%	2036	1996	9	-	-
1246	Lower Monument	10	10	7.150%	2046	1996	9	-	-
1247	Lower Monument	3,301	3,301	5.875%	2051	2001	9	-	-
1248	Lower Monument	29	29	5.500%	2052	2002	9	-	-
1249	Lower Monument	22	22	5.125%	2053	2003	9	-	-
1250	Lower Monument	3,423	3,423	5.375%	2054	2004	9	-	-
1251	Lower Monument	527	527	5.125%	2055	2005	9	-	-
1252	Lower Monument	285	285	4.500%	2056	2006	9	-	-
1253	Lower Monument	9	9	4.875%	2058	2008	9	-	-
1254	Lower Monument	2,332	2,332	4.375%	2059	2009	9	-	-
1255	Lower Snake Fish and Wildlife	30,488	9,472	7.150%	2033	1983	9	-	-
1256	Lower Snake Fish and Wildlife	47,921	47,921	7.150%	2035	1985	9	-	-
1257	Lower Snake Fish and Wildlife	72,536	72,536	7.150%	2037	1987	9	-	-
1258	Lower Snake Fish and Wildlife	805	805	7.150%	2038	1988	9	-	-
1259	Lower Snake Fish and Wildlife	1,557	1,557	7.150%	2040	1990	9	-	-
1260	Lower Snake Fish and Wildlife	4,411	4,411	7.150%	2041	1991	9	-	-
1261	Lower Snake Fish and Wildlife	71,632	71,632	7.150%	2043	1993	9	-	-
1262	Lower Snake Fish and Wildlife	4,722	4,722	7.150%	2044	1994	9	-	-
1263	Lower Snake Fish and Wildlife	12,085	12,085	7.150%	2046	1996	9	-	-
1264	Lower Snake Fish and Wildlife	2,173	2,173	7.150%	2047	1997	9	-	-
1265	Lower Snake Fish and Wildlife	7	7	5.375%	2049	1999	9	-	-
1266	Lower Snake Fish and Wildlife	1,529	1,529	6.125%	2050	2000	9	-	-
1267	Lower Snake Fish and Wildlife	325	325	5.875%	2051	2001	9	-	-
1268	Lower Snake Fish and Wildlife	890	890	5.500%	2052	2002	9	-	-
1269	Lower Snake Fish and Wildlife	98	98	5.125%	2053	2003	9	-	-
1270	Lower Snake Fish and Wildlife	230	230	5.375%	2054	2004	9	-	-
1271	Lower Snake Fish and Wildlife	4	4	5.125%	2055	2005	9	-	-
1272	Lower Snake Fish and Wildlife	379	379	4.500%	2056	2006	9	-	-
1273	Lower Snake Fish and Wildlife	74	74	4.875%	2058	2008	9	-	-
1274	Lower Snake Fish and Wildlife	1,540	1,540	4.375%	2059	2009	9	-	-
1275	Lower Snake Fish and Wildlife	6	6	4.250%	2060	2010	9	-	-
1276	Lower Snake Fish and Wildlife	141	141	3.750%	2061	2011	9	-	-
1277	McNary	80,256	-	6.880%	2004	1954	9	-	-
1278	McNary	53,493	-	6.910%	2005	1955	9	-	-
1279	McNary	38,748	-	6.950%	2006	1956	9	-	-
1280	McNary	24,985	-	6.980%	2007	1957	9	-	-
1281	McNary	468	-	6.980%	2007	1958	9	-	-
1282	McNary	468	-	6.980%	2007	1959	9	-	-
1283	McNary	468	-	6.980%	2007	1960	9	-	-
1284	McNary	468	-	6.980%	2007	1961	9	-	-
1285	McNary	467	-	6.980%	2007	1962	9	-	-
1286	McNary	468	-	6.980%	2007	1963	9	-	-
1287	McNary	468	-	6.980%	2007	1964	9	-	-
1288	McNary	468	-	6.980%	2007	1965	9	-	-
1289	McNary	468	-	6.980%	2007	1966	9	-	-
1290	McNary	467	-	6.980%	2007	1967	9	-	-
1291	McNary	468	-	6.980%	2007	1968	9	-	-
1292	McNary	468	-	6.980%	2007	1969	9	-	-
1293	McNary	468	-	6.980%	2007	1970	9	-	-
1294	McNary	468	-	6.980%	2007	1971	9	-	-
1295	McNary	468	-	6.980%	2007	1972	9	-	-
1296	McNary	467	-	6.980%	2007	1973	9	-	-
1297	McNary	468	-	6.980%	2007	1974	9	-	-
1298	McNary	468	-	6.980%	2007	1975	9	-	-
1299	McNary	468	-	6.980%	2007	1976	9	-	-
1300	McNary	467	-	6.980%	2007	1977	9	-	-
1301	McNary	468	-	6.980%	2007	1978	9	-	-
1302	McNary	468	-	6.980%	2007	1979	9	-	-
1303	McNary	468	-	6.980%	2007	1980	9	-	-
1304	McNary	468	-	6.980%	2007	1981	9	-	-

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	A	B	C	D	E	F	G	H	I
	Project	Original Principal	Current Balance	Interest Rate	Due Date	In Service Date	Month	Rollover Date	Rollover Rate
1305	McNary	467	-	6.980%	2007	1982	9	-	-
1306	McNary	468	-	6.980%	2007	1983	9	-	-
1307	McNary	557	-	6.980%	2007	1985	9	-	-
1308	McNary	454	-	6.980%	2007	1986	9	-	-
1309	McNary	24	-	6.980%	2007	1987	9	-	-
1310	McNary	509	-	7.090%	2010	1995	9	-	-
1311	McNary	16	16	7.150%	2045	1995	9	-	-
1312	McNary	778	-	6.950%	2006	1996	9	-	-
1313	McNary	3	-	7.130%	2011	1996	9	-	-
1314	McNary	74	74	7.150%	2026	1996	9	-	-
1315	McNary	277	277	7.150%	2026	1996	9	-	-
1316	McNary	619	619	7.150%	2046	1996	9	-	-
1317	McNary	30	30	7.150%	2032	1997	9	-	-
1318	McNary	1,046	1,046	5.875%	2051	2001	9	-	-
1319	McNary	97	97	5.750%	2053	2003	9	-	-
1320	McNary	6,138	6,138	5.375%	2054	2004	9	-	-
1321	McNary	550	550	5.125%	2055	2005	9	-	-
1322	McNary	4,080	4,080	4.500%	2056	2006	9	-	-
1323	McNary	215	215	4.875%	2058	2008	9	-	-
1324	McNary	523	523	3.750%	2061	2011	9	-	-
1325	Minidoka/Palisades	854	-	3.000%	1959	1909	9	-	-
1326	Minidoka/Palisades	226	-	3.000%	1959	1909	9	-	-
1327	Minidoka/Palisades	1,709	-	3.000%	1960	1910	9	-	-
1328	Minidoka/Palisades	451	-	3.000%	1960	1910	9	-	-
1329	Minidoka/Palisades	1,709	-	3.000%	1961	1911	9	-	-
1330	Minidoka/Palisades	451	-	3.000%	1961	1911	9	-	-
1331	Minidoka/Palisades	854	-	3.000%	1977	1927	9	-	-
1332	Minidoka/Palisades	226	-	3.000%	1977	1927	9	-	-
1333	Minidoka/Palisades	854	-	3.000%	1992	1942	9	-	-
1334	Minidoka/Palisades	226	-	3.000%	1992	1942	9	-	-
1335	Minidoka/Palisades	2,561	-	3.000%	2007	1957	9	-	-
1336	Minidoka/Palisades	677	-	3.000%	2007	1957	9	-	-
1337	Minidoka/Palisades	854	-	3.000%	2008	1958	9	-	-
1338	Minidoka/Palisades	226	-	3.000%	2008	1958	9	-	-
1339	Minidoka/Palisades	108	-	3.000%	2008	1959	9	-	-
1340	Minidoka/Palisades	28	-	3.000%	2008	1959	9	-	-
1341	Minidoka/Palisades	108	-	3.000%	2008	1960	9	-	-
1342	Minidoka/Palisades	29	-	3.000%	2008	1960	9	-	-
1343	Minidoka/Palisades	108	-	3.000%	2008	1961	9	-	-
1344	Minidoka/Palisades	29	-	3.000%	2008	1961	9	-	-
1345	Minidoka/Palisades	108	-	3.000%	2008	1962	9	-	-
1346	Minidoka/Palisades	28	-	3.000%	2008	1962	9	-	-
1347	Minidoka/Palisades	108	-	3.000%	2008	1963	9	-	-
1348	Minidoka/Palisades	29	-	3.000%	2008	1963	9	-	-
1349	Minidoka/Palisades	108	-	3.000%	2008	1964	9	-	-
1350	Minidoka/Palisades	28	-	3.000%	2008	1964	9	-	-
1351	Minidoka/Palisades	108	-	3.000%	2008	1965	9	-	-
1352	Minidoka/Palisades	29	-	3.000%	2008	1965	9	-	-
1353	Minidoka/Palisades	108	-	3.000%	2008	1966	9	-	-
1354	Minidoka/Palisades	29	-	3.000%	2008	1966	9	-	-
1355	Minidoka/Palisades	108	-	3.000%	2008	1967	9	-	-
1356	Minidoka/Palisades	28	-	3.000%	2008	1967	9	-	-
1357	Minidoka/Palisades	108	-	3.000%	2008	1968	9	-	-
1358	Minidoka/Palisades	29	-	3.000%	2008	1968	9	-	-
1359	Minidoka/Palisades	3	-	3.000%	2008	1969	9	-	-
1360	Minidoka/Palisades	28	-	3.000%	2008	1969	9	-	-
1361	Minidoka/Palisades	108	-	3.000%	2008	1970	9	-	-
1362	Minidoka/Palisades	29	-	3.000%	2008	1970	9	-	-
1363	Minidoka/Palisades	108	-	3.000%	2008	1971	9	-	-
1364	Minidoka/Palisades	29	-	3.000%	2008	1971	9	-	-
1365	Minidoka/Palisades	108	-	3.000%	2008	1972	9	-	-
1366	Minidoka/Palisades	28	-	3.000%	2008	1972	9	-	-
1367	Minidoka/Palisades	108	-	3.000%	2008	1973	9	-	-
1368	Minidoka/Palisades	29	-	3.000%	2008	1973	9	-	-
1369	Minidoka/Palisades	108	-	3.000%	2008	1974	9	-	-
1370	Minidoka/Palisades	28	-	3.000%	2008	1974	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	1975	9	-	-
1372	Minidoka/Palisades	29	-	3.000%	2008	1975	9	-	-
1373	Minidoka/Palisades	108	-	3.000%	2008	1976	9	-	-
1374	Minidoka/Palisades	29	-	3.000%	2008	1976	9	-	-
1375	Minidoka/Palisades	83	-	7.020%	2008	1977	9	-	-
1376	Minidoka/Palisades	28	-	7.020%	2008	1977	9	-	-
1377	Minidoka/Palisades	75	-	7.020%	2008	1978	9	-	-
1378	Minidoka/Palisades	20	-	7.020%	2008	1978	9	-	-
1379	Minidoka/Palisades	75	-	7.020%	2008	1979	9	-	-
1380	Minidoka/Palisades	19	-	7.020%	2008	1979	9	-	-
1381	Minidoka/Palisades	75	-	7.020%	2008	1980	9	-	-
1382	Minidoka/Palisades	20	-	7.020%	2008	1980	9	-	-
1383	Minidoka/Palisades	75	-	7.020%	2008	1981	9	-	-
1384	Minidoka/Palisades	20	-	7.020%	2008	1981	9	-	-
1385	Minidoka/Palisades	75	-	7.020%	2008	1982	9	-	-
1386	Minidoka/Palisades	19	-	7.020%	2008	1982	9	-	-
1387	Minidoka/Palisades	65	-	7.020%	2008	1983	9	-	-
1388	Minidoka/Palisades	20	-	7.020%	2008	1983	9	-	-
1389	Minidoka/Palisades	44	-	10.075%	2008	1984	9	-	-
1390	Minidoka/Palisades	11	-	10.075%	2008	1984	9	-	-
1391	Minidoka/Palisades	21	-	7.020%	2008	1985	9	-	-
1392	Minidoka/Palisades	21	-	7.020%	2008	1986	9	-	-
1393	Minidoka/Palisades	48	-	11.375%	2008	1986	9	-	-
1394	Minidoka/Palisades	16	-	7.020%	2008	1987	9	-	-
1395	Minidoka/Palisades	31	-	8.500%	2008	1988	9	-	-
1396	Minidoka/Palisades	20	-	9.250%	2008	1989	9	-	-
1397	Minidoka/Palisades	33	-	8.875%	2008	1990	9	-	-
1398	Minidoka/Palisades	62	-	8.750%	2008	1991	9	-	-
1399	Minidoka/Palisades	11	-	8.750%	2008	1991	9	-	-
1400	Minidoka/Palisades	32	-	8.750%	2008	1991	9	-	-
1401	Minidoka/Palisades	6	-	8.500%	2008	1992	9	-	-
1402	Minidoka/Palisades	351	-	7.125%	2029	1994	9	-	-
1403	Minidoka/Palisades	6	-	7.330%	2000	1995	9	-	-
1404	Minidoka/Palisades	40	-	7.890%	2010	1995	9	-	-
1405	Minidoka/Palisades	54	-	7.130%	2011	1996	9	-	-
1406	Minidoka/Palisades	66	-	6.950%	2007	1997	9	-	-
1407	Minidoka/Palisades	50,911	50,911	7.150%	2047	1997	9	-	-
1408	Minidoka/Palisades	42	42	5.875%	2051	2001	9	-	-
1409	Rogue River Projects - Green Springs	11,145	11,145	5.875%	2051	2001	9	-	-
1410	The Dalles	15,908	-	2.500%	2007	1957	9	-	-
1411	The Dalles	45,837	-	7.020%	2008	1958	9	-	-
1412	The Dalles	40,415	-	7.060%	2009	1959	9	-	-
1413	The Dalles	39,179	-	7.090%	2010	1960	9	-	-
1414	The Dalles	9,492	-	7.130%	2011	1961	9	-	-
1415	The Dalles	56	-	7.130%	2011	1962	9	-	-
1416	The Dalles	57	-	7.130%	2011	1963	9	-	-
1417	The Dalles	57	-	7.130%	2011	1964	9	-	-
1418	The Dalles	56	-	7.130%	2011	1965	9	-	-
1419	The Dalles	57	-	7.130%	2011	1966	9	-	-
1420	The Dalles	57	-	7.130%	2011	1967	9	-	-
1421	The Dalles	56	-	7.130%	2011	1968	9	-	-
1422	The Dalles	57	-	7.130%	2011	1969	9	-	-
1423	The Dalles	57	-	7.130%	2011	1970	9	-	-
1424	The Dalles	56	-	7.130%	2011	1971	9	-	-
1425	The Dalles	57	-	7.130%	2011	1972	9	-	-
1426	The Dalles	57	-	7.130%	2011	1973	9	-	-
1427	The Dalles	21,983	-	7.190%	2023	1973	9	-	-
1428	The Dalles	56	-	7.130%	2011	1974	9	-	-
1429	The Dalles	7,268	7,240	7.170%	2024	1974	9	-	-
1430	The Dalles	57	-	7.130%	2011	1975	9	-	-
1431	The Dalles	57	-	7.130%	2011	1976	9	-	-
1432	The Dalles	56	-	7.130%	2011	1977	9	-	-
1433	The Dalles	57	-	7.130%	2011	1978	9	-	-
1434	The Dalles	57	-	7.130%	2011	1979	9	-	-
1435	The Dalles	56	-	7.130%	2011	1980	9	-	-
1436	The Dalles	57	-	7.130%	2011	1981	9	-	-
1437	The Dalles	57	-	7.130%	2011	1982	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	56	-	7.130%	2011	1983	9	-	-
1439	The Dalles	961	-	10.750%	2011	1984	9	-	-
1440	The Dalles	95	-	7.130%	2011	1985	9	-	-
1441	The Dalles	280	-	12.375%	2011	1985	9	-	-
1442	The Dalles	95	-	7.130%	2011	1986	9	-	-
1443	The Dalles	4	-	11.375%	2011	1986	9	-	-
1444	The Dalles	1,417	-	7.130%	2011	1987	9	-	-
1445	The Dalles	81	-	8.875%	2011	1987	9	-	-
1446	The Dalles	685	-	8.500%	2011	1988	9	-	-
1447	The Dalles	1	-	8.500%	2011	1988	9	-	-
1448	The Dalles	898	-	9.250%	2011	1989	9	-	-
1449	The Dalles	319	-	8.875%	2011	1990	9	-	-
1450	The Dalles	745	-	8.875%	2011	1990	9	-	-
1451	The Dalles	89	-	8.750%	2011	1991	9	-	-
1452	The Dalles	2,452	-	8.750%	2011	1991	9	-	-
1453	The Dalles	57	-	8.500%	2011	1992	9	-	-
1454	The Dalles	130	-	8.500%	2011	1992	9	-	-
1455	The Dalles	2,028	-	7.875%	2011	1993	9	-	-
1456	The Dalles	2,929	-	7.875%	2011	1993	9	-	-
1457	The Dalles	1,425	-	7.125%	2029	1994	9	-	-
1458	The Dalles	196	-	7.020%	2008	1996	9	-	-
1459	The Dalles	457	-	7.130%	2011	1996	9	-	-
1460	The Dalles	1,991	1,991	7.150%	2046	1996	9	-	-
1461	The Dalles	2,588	2,588	6.125%	2050	2000	9	-	-
1462	The Dalles	1,226	1,226	5.500%	2052	2002	9	-	-
1463	The Dalles	182	182	5.375%	2054	2004	9	-	-
1464	The Dalles	36,019	36,019	5.125%	2055	2005	9	-	-
1465	The Dalles	2,030	2,030	4.500%	2056	2006	9	-	-
1466	The Dalles	140	140	5.000%	2057	2007	9	-	-
1467	The Dalles	1,652	1,652	4.875%	2058	2008	9	-	-
1468	Yakima Chandler/Kenniwick	1,068	-	7.210%	2022	1956	9	-	-
1469	Yakima Chandler/Kenniwick	481	-	7.210%	2022	1956	9	-	-
1470	Yakima Chandler/Kenniwick	1	-	7.210%	2022	1959	9	-	-
1471	Yakima Chandler/Kenniwick	1	-	7.210%	2022	1960	9	-	-
1472	Yakima Chandler/Kenniwick	1	-	7.210%	2022	1961	9	-	-
1473	Yakima Chandler/Kenniwick	35	-	10.750%	2022	1984	9	-	-
1474	Yakima Chandler/Kenniwick	10	-	10.750%	2022	1984	9	-	-
1475	Yakima Chandler/Kenniwick	357	-	12.375%	2022	1985	9	-	-
1476	Yakima Chandler/Kenniwick	439	-	7.210%	2022	1986	9	-	-
1477	Yakima Chandler/Kenniwick	7	-	11.375%	2022	1986	9	-	-
1478	Yakima Chandler/Kenniwick	126	-	8.875%	2022	1987	9	-	-
1479	Yakima Chandler/Kenniwick	18	-	9.250%	2022	1989	9	-	-
1480	Yakima Chandler/Kenniwick	40	-	8.875%	2022	1990	9	-	-
1481	Yakima Chandler/Kenniwick	109	-	8.750%	2022	1991	9	-	-
1482	Yakima Chandler/Kenniwick	833	833	5.125%	2055	2005	9	-	-
1483	Yakima Chandler/Kenniwick	15	15	4.375%	2059	2009	9	-	-
1484	Yakima Roza	1,194	-	7.020%	2008	1958	9	-	-
1485	Yakima Roza	383	-	7.020%	2008	1958	9	-	-
1486	Yakima Roza	17	-	10.750%	2008	1984	9	-	-
1487	Yakima Roza	5	-	10.750%	2008	1984	9	-	-
1488	Yakima Roza	69	-	7.020%	2008	1985	9	-	-
1489	Yakima Roza	5	-	12.375%	2008	1985	9	-	-
1490	Yakima Roza	6	-	7.020%	2008	1986	9	-	-
1491	Yakima Roza	2	-	7.020%	2008	1987	9	-	-
1492	Yakima Roza	9	-	8.875%	2008	1987	9	-	-
1493	Yakima Roza	15	14	5.875%	2051	2001	9	-	-
1494	Bureau Direct	35,000	-	7.500%	2015	1995	5	-	-
1495	Bureau Direct	50,000	-	6.500%	2000	1997	5	-	-
1496	Bureau Direct	25,000	-	6.000%	2008	1998	5	-	-
1497	Bureau Direct	20,000	-	6.400%	2004	1999	9	-	-
1498	Bureau Direct	40,000	-	6.850%	2003	2000	4	-	-
1499	Bureau Direct	20,000	-	6.700%	2005	2000	9	-	-
1500	Bureau Direct	50,000	-	4.750%	2004	2001	6	-	-
1501	Bureau Direct	30,000	-	4.600%	2005	2002	3	-	-
1502	Bureau Direct	20,000	-	3.050%	2006	2002	9	-	-
1503	Bureau Direct	40,000	-	2.400%	2006	2003	4	-	-

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
1504	Bureau Direct	25,000	-	2.400%	2006	2003	4	-	-
1505	Bureau Direct	30,000	-	2.300%	2006	2003	7	-	-
1506	Bureau Direct	25,000	-	2.500%	2006	2003	9	-	-
1507	Bureau Direct	40,000	-	3.050%	2007	2003	12	-	-
1508	Bureau Direct	25,000	-	2.500%	2007	2004	1	-	-
1509	Bureau Direct	35,000	-	2.950%	2007	2004	4	-	-
1510	Bureau Direct	30,000	-	3.100%	2007	2004	9	-	-
1511	Bureau Direct	25,000	-	3.450%	2007	2004	7	-	-
1512	Bureau Direct	20,000	-	3.500%	2008	2005	11	-	-
1513	Bureau Direct	20,000	-	3.600%	2008	2005	1	-	-
1514	Bureau Direct	30,000	-	3.950%	2008	2005	6	-	-
1515	Bureau Direct	25,000	-	4.250%	2008	2005	9	-	-
1516	Bureau Direct	25,000	-	5.050%	2009	2006	3	-	-
1517	Bureau Direct	45,000	-	5.350%	2009	2006	7	-	-
1518	Bureau Direct	15,000	-	4.950%	2009	2006	9	-	-
1519	Bureau Direct	35,000	-	5.100%	2010	2007	1	-	-
1520	Bureau Direct	30,000	-	4.800%	2010	2007	3	-	-
1521	Bureau Direct	30,000	-	5.350%	2010	2007	6	-	-
1522	Bureau Direct	35,000	-	2.850%	2011	2008	1	-	-
1523	Bureau Direct	35,000	-	3.358%	2011	2008	5	-	-
1524	Bureau Direct	25,000	-	3.358%	2011	2008	5	-	-
1525	Bureau Direct	20,000	-	2.850%	2011	2008	1	-	-
1526	Bureau Direct	30,000	-	3.974%	2012	2008	6	-	-
1527	Bureau Direct	35,000	-	3.913%	2012	2008	7	-	-
1528	Bureau Direct	35,000	-	3.444%	2012	2008	9	-	-
1529	Bureau Direct	25,000	25,000	3.699%	2019	2009	9	-	-
1530	Bureau Direct	25,000	25,000	3.999%	2021	2009	1	-	-
1531	Bureau Direct	25,000	25,000	4.391%	2023	2009	4	-	-
1532	Bureau Direct	25,000	25,000	5.192%	2039	2009	6	-	-
1533	Bureau Direct	24,000	24,000	3.719%	2019	2010	10	-	-
1534	Bureau Direct	10,000	10,000	3.714%	2019	2010	1	-	-
1535	Bureau Direct	10,000	-	0.165%	2019	2010	2	-	-
1536	Bureau Direct	20,000	20,000	3.842%	2020	2010	10	-	-
1537	Bureau Direct	7,000	7,000	3.637%	2020	2010	11	-	-
1538	Bureau Direct	13,000	13,000	4.194%	2020	2010	12	-	-
1539	Bureau Direct	30,000	30,000	4.083%	2020	2010	3	-	-
1540	Bureau Direct	18,000	18,000	3.973%	2020	2010	4	-	-
1541	Bureau Direct	15,000	15,000	3.574%	2020	2010	5	-	-
1542	Bureau Direct	10,000	10,000	3.243%	2020	2010	6	-	-
1543	Bureau Direct	30,000	30,000	3.243%	2020	2010	6	-	-
1544	Bureau Direct	17,000	17,000	3.118%	2020	2010	7	-	-
1545	Bureau Direct	5,000	-	0.165%	2020	2010	8	-	-
1546	Bureau Direct	22,000	22,000	2.883%	2021	2010	9	-	-
1547	Bureau Direct	20,000	-	0.244%	2011	2011	9	-	-
1548	Bureau Direct	35,000	-	0.076%	2011	2011	9	-	-
1549	Bureau Direct	25,000	-	0.076%	2011	2011	9	-	-
1550	Bureau Direct	35,000	-	0.244%	2011	2011	9	-	-
1551	Bureau Direct	20,000	20,000	4.211%	2035	2011	10	-	-
1552	Bureau Direct	30,000	30,000	4.629%	2036	2011	6	-	-
1553	Bureau Direct	30,000	30,000	4.208%	2037	2011	8	-	-
1554	Bureau Direct	30,000	30,000	4.700%	2038	2011	7	-	-
1555	Bureau Direct	35,000	35,000	5.040%	2039	2011	1	-	-
1556	Bureau Direct	50,000	50,000	4.995%	2040	2011	2	-	-
1557	Bureau Direct	30,000	30,000	3.825%	2041	2011	7	-	-
1558	Bureau Direct	30,000	-	0.119%	2012	2012	9	-	-
1559	Bureau Direct	25,000	25,000	3.590%	2027	2012	9	-	-
1560	Bureau Direct	55,000	55,000	3.780%	2034	2012	2	-	-
1561	Bureau Direct	15,000	15,000	3.860%	2038	2012	1	-	-
1562	Bureau Direct	35,000	-	3.880%	2039	2012	12	-	-
1563	Bureau Direct	35,000	35,000	3.860%	2039	2012	12	-	-
1564	Bureau Direct	50,000	50,000	3.666%	2041	2012	6	-	-
1565	Bureau Direct	44,000	44,000	3.590%	2042	2012	8	-	-
1566	Conservation	140,000	-	12.200%	2003	1983	9	-	-
1567	Conservation	150,000	-	13.050%	2004	1984	9	-	-

TABLE 13B: PROJECTED INVESTMENT
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	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	144,966	144,966	4.030%	2063	2013	9
2	Columbia River Fish Mitigation	99,343	99,343	4.370%	2064	2014	9
3	Columbia River Fish Mitigation	48,758	48,758	4.940%	2065	2015	9
4	Bureau Direct	18,924	18,924	4.000%	2043	2013	2
5	Bureau Direct	14,304	14,304	4.000%	2043	2013	10
6	Bureau Direct	17,477	17,477	4.000%	2043	2013	11
7	Bureau Direct	21,022	21,022	4.000%	2043	2013	12
8	Bureau Direct	22,523	22,523	4.000%	2043	2013	1
9	Bureau Direct	16,614	16,614	4.000%	2043	2013	3
10	Bureau Direct	19,783	19,783	4.000%	2043	2013	4
11	Bureau Direct	22,569	22,569	4.000%	2043	2013	5
12	Bureau Direct	19,300	19,300	4.000%	2043	2013	6
13	Bureau Direct	21,402	21,402	4.000%	2043	2013	6
14	Bureau Direct	23,232	23,232	4.000%	2043	2013	7
15	Bureau Direct	24,667	24,667	4.000%	2043	2013	9
16	Bureau Direct	22,664	22,664	4.400%	2044	2014	1
17	Bureau Direct	19,048	19,048	4.400%	2044	2014	3
18	Bureau Direct	16,721	16,721	4.400%	2044	2014	3
19	Bureau Direct	17,589	17,589	4.400%	2044	2014	11
20	Bureau Direct	19,910	19,910	4.400%	2044	2014	4
21	Bureau Direct	22,714	22,714	4.400%	2044	2014	5
22	Bureau Direct	19,422	19,422	4.400%	2044	2014	6
23	Bureau Direct	0	14,393	4.400%	2044	2014	10
24	Bureau Direct	21,153	21,153	4.400%	2044	2014	12
25	Bureau Direct	21,533	21,533	4.400%	2044	2014	6
26	Bureau Direct	23,378	23,378	4.400%	2044	2014	7
27	Bureau Direct	24,819	24,819	4.400%	2044	2014	9
28	Bureau Direct	17,279	17,279	4.900%	2045	2015	11
29	Bureau Direct	20,771	20,771	4.900%	2045	2015	12
30	Bureau Direct	22,258	22,258	4.900%	2045	2015	1
31	Bureau Direct	18,719	18,719	4.900%	2045	2015	3
32	Bureau Direct	16,427	16,427	4.900%	2045	2015	3
33	Bureau Direct	19,561	19,561	4.900%	2045	2015	4
34	Bureau Direct	22,316	19,561	4.900%	2045	2015	5
35	Bureau Direct	19,077	19,077	4.900%	2045	2015	6
36	Bureau Direct	21,140	21,140	4.900%	2045	2015	7
37	Bureau Direct	22,958	22,958	4.900%	2045	2015	7
38	Bureau Direct	24,368	24,368	4.900%	2045	2015	9
39	Bureau Direct	14,135	14,135	4.900%	2045	2015	10
40	Conservation	22,187	22,187	3.000%	2025	2013	9
41	Conservation	15,591	15,591	3.000%	2025	2013	3
42	Conservation	23,587	23,587	3.000%	2025	2013	6
43	Conservation	13,835	13,835	3.000%	2026	2013	12
44	Conservation	13,835	13,835	3.500%	2026	2014	12
45	Conservation	22,187	22,187	3.500%	2026	2014	9
46	Conservation	23,587	23,587	3.500%	2026	2014	6
47	Conservation	15,591	15,591	3.500%	2026	2014	3
48	Conservation	19,074	19,074	4.400%	2027	2015	3
49	Conservation	28,856	28,856	4.400%	2027	2015	6
50	Conservation	27,144	27,144	4.400%	2027	2015	9
51	Conservation	16,926	16,926	4.400%	2027	2015	12
52	Construction	3,767	3,767	1.800%	2019	2013	12

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	4,037	4,037	1.800%	2019	2013	6
54	Construction	4,680	4,680	1.800%	2019	2013	9
55	Construction	4,394	4,394	1.800%	2019	2013	3
56	Construction	3,288	3,288	2.600%	2020	2014	3
57	Construction	3,021	3,021	2.600%	2020	2014	6
58	Construction	2,819	2,819	2.600%	2020	2014	12
59	Construction	3,368	3,368	3.900%	2021	2015	3
60	Construction	3,587	3,587	3.900%	2021	2015	9
61	Construction	3,094	3,094	3.900%	2021	2015	6
62	Construction	2,887	2,887	3.900%	2021	2015	12
63	Construction	3,502	3,502	2.600%	2026	2014	9
64	Fish and Wildlife	11,204	11,204	3.200%	2028	2013	3
65	Fish and Wildlife	15,026	15,026	3.200%	2028	2013	12
66	Fish and Wildlife	13,205	13,205	3.200%	2028	2013	6
67	Fish and Wildlife	27,710	27,710	3.200%	2028	2013	9
68	Fish and Wildlife	10,058	10,058	3.700%	2029	2014	3
69	Fish and Wildlife	13,488	13,488	3.700%	2029	2014	12
70	Fish and Wildlife	11,854	11,854	3.700%	2029	2014	6
71	Fish and Wildlife	24,875	24,875	3.700%	2029	2014	9
72	Fish and Wildlife	6,976	6,976	4.500%	2030	2015	3
73	Fish and Wildlife	17,254	17,254	4.500%	2030	2015	9
74	Fish and Wildlife	8,222	8,222	4.500%	2030	2015	6
75	Fish and Wildlife	9,356	9,356	4.500%	2030	2015	12
76	Totals:	1,456,916	1,468,554				

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	145,701	5.557%	8,096	-	8,096
5	2013	Chief Joseph	Historical	238,241	6.818%	16,243	-	16,243
6	2013	Columbia Basin	Historical	95,253	5.766%	5,493	-	5,493
7	2013	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
8	2013	Columbia River Fish Mitigation	Historical	1,112,559	4.658%	51,822	-	51,822
9	2013	Cougar	Historical	12,677	5.110%	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	312	5.392%	17	-	17
13	2013	Hills Creek	Historical	2,725	6.107%	166	-	166
14	2013	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
15	2013	Ice Harbor	Historical	35,776	6.352%	2,272	-	2,272
16	2013	John Day	Historical	24,130	5.964%	1,439	-	1,439
17	2013	Libby	Historical	235,714	7.104%	16,745	-	16,745
18	2013	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
19	2013	Lookout Dam	Historical	13,249	5.514%	731	-	731
20	2013	Lost Creek	Historical	14,089	7.137%	1,006	-	1,006
21	2013	Lower Granite	Historical	177,499	7.009%	12,441	-	12,441
22	2013	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
23	2013	Lower Snake Fish and Wildlife	Historical	232,537	7.107%	16,526	-	16,526
24	2013	McNary	Historical	13,665	5.207%	711	-	711
25	2013	Minidoka/Palisades	Historical	50,953	7.149%	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	4.016%	30,721	-	30,721
31	2013	Bureau Direct	New	217,150	1.914%	4,156	-	4,156
32	2013	Conservation	Historical	367,800	3.298%	12,129	-	12,129
33	2013	Conservation	New	53,013	1.362%	722	-	722
34	2013	Construction	Historical	38,150	1.992%	760	-	760
35	2013	Construction	New	12,198	0.890%	109	-	109
36	2013	Fish and Wildlife	Historical	264,000	4.456%	11,764	-	11,764
37	2013	Fish and Wildlife	New	39,435	1.637%	646	-	646
38	2013	Float	Historical	-	-	(3,222)	-	(3,222)
39	FY 2013	Subtotal:		5,294,304		275,130	-	275,130
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	145,701	5.557%	8,096	-	8,096
44	2014	Chief Joseph	Historical	238,241	6.818%	16,243	-	16,243
45	2014	Columbia Basin	Historical	95,253	5.766%	5,493	-	5,493
46	2014	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
47	2014	Columbia River Fish Mitigation	Historical	1,257,525	4.585%	57,664	-	57,664
48	2014	Cougar	Historical	12,677	5.110%	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	312	5.392%	17	-	17
52	2014	Hills Creek	Historical	2,725	6.107%	166	-	166
53	2014	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
54	2014	Ice Harbor	Historical	35,776	6.352%	2,272	-	2,272
55	2014	John Day	Historical	24,130	5.964%	1,439	-	1,439
56	2014	Libby	Historical	235,714	7.104%	16,745	-	16,745
57	2014	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
58	2014	Lookout Dam	Historical	13,249	5.514%	731	-	731
59	2014	Lost Creek	Historical	14,089	7.137%	1,006	-	1,006
60	2014	Lower Granite	Historical	177,499	7.009%	12,441	-	12,441
61	2014	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
62	2014	Lower Snake Fish and Wildlife	Historical	232,537	7.107%	16,526	-	16,526
63	2014	McNary	Historical	13,665	5.207%	711	-	711
64	2014	Minidoka/Palisades	Historical	50,953	7.149%	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	1,006,817	4.012%	40,394	-	40,394
70	2014	Bureau Direct	New	218,525	2.073%	4,531	-	4,531
71	2014	Conservation	Historical	380,200	2.909%	11,058	-	11,058
72	2014	Conservation	New	53,013	1.589%	842	-	842
73	2014	Construction	Historical	55,028	1.933%	1,064	-	1,064
74	2014	Construction	New	9,128	1.286%	117	-	117
75	2014	Fish and Wildlife	Historical	271,145	3.781%	10,253	-	10,253
76	2014	Fish and Wildlife	New	35,400	1.893%	670	-	670
77	2014	Float	Historical	-	-	(2,754)	-	(2,754)
78	FY 2014	Subtotal:		5,711,780		289,363	-	289,363
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	145,701	5.557%	8,096	-	8,096
83	2015	Chief Joseph	Historical	238,241	6.818%	16,243	-	16,243
84	2015	Columbia Basin	Historical	95,253	5.766%	5,493	-	5,493
85	2015	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
86	2015	Columbia River Fish Mitigation	Historical	1,356,868	4.570%	62,005	-	62,005
87	2015	Cougar	Historical	12,677	5.110%	648	-	648
88	2015	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
89	2015	Dworshak	Historical	14,870	6.377%	948	-	948
90	2015	Green Peter/Foster	Historical	312	5.392%	17	-	17
91	2015	Hills Creek	Historical	2,725	6.107%	166	-	166
92	2015	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
93	2015	Ice Harbor	Historical	35,776	6.352%	2,272	-	2,272
94	2015	John Day	Historical	24,130	5.964%	1,439	-	1,439
95	2015	Libby	Historical	235,714	7.104%	16,745	-	16,745
96	2015	Little Goose	Historical	63,790	6.911%	4,408	-	4,408
97	2015	Lookout Dam	Historical	13,249	5.514%	731	-	731
98	2015	Lost Creek	Historical	14,089	7.137%	1,006	-	1,006
99	2015	Lower Granite	Historical	177,499	7.009%	12,441	-	12,441
100	2015	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
101	2015	Lower Snake Fish and Wildlife	Historical	232,537	7.107%	16,526	-	16,526
102	2015	McNary	Historical	13,665	5.207%	711	-	711
103	2015	Minidoka/Palisades	Historical	50,953	7.149%	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	1,250,161	4.088%	51,101	-	51,101
109	2015	Bureau Direct	New	211,886	2.318%	4,911	-	4,911
110	2015	Conservation	Historical	440,400	3.015%	13,278	-	13,278
111	2015	Conservation	New	64,856	1.998%	1,296	-	1,296
112	2015	Construction	Historical	52,708	1.805%	952	-	952
113	2015	Construction	New	9,349	1.928%	180	-	180
114	2015	Fish and Wildlife	Historical	331,420	3.766%	12,483	-	12,483
115	2015	Fish and Wildlife	New	24,554	2.302%	565	-	565
116	2015	Float	Historical	-	-	(5,607)	-	(5,607)
117	FY 2015	Subtotal:		6,076,034		300,132	-	300,132
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	145,701	5.557%	8,096	-	8,096
122	2016	Chief Joseph	Historical	238,241	6.818%	16,243	-	16,243
123	2016	Columbia Basin	Historical	95,253	5.766%	5,493	-	5,493
124	2016	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	-	32,565
125	2016	Columbia River Fish Mitigation	Historical	1,405,626	4.583%	64,414	-	64,414
126	2016	Cougar	Historical	12,677	5.110%	648	-	648
127	2016	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
128	2016	Dworshak	Historical	14,095	6.332%	892	-	892
129	2016	Green Peter/Foster	Historical	312	5.392%	17	-	17
130	2016	Hills Creek	Historical	2,725	6.107%	166	-	166
131	2016	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
132	2016	Ice Harbor	Historical	35,776	6.352%	2,272	-	2,272

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	24,130	5.964%	1,439	-	1,439
134	2016	Libby	235,714	7.104%	16,745	-	16,745
135	2016	Little Goose	63,790	6.911%	4,408	-	4,408
136	2016	Lookout Dam	13,249	5.514%	731	-	731
137	2016	Lost Creek	14,089	7.137%	1,006	-	1,006
138	2016	Lower Granite	177,305	7.009%	12,427	-	12,427
139	2016	Lower Monument	53,014	6.797%	3,604	-	3,604
140	2016	Lower Snake Fish and Wildlife	232,537	7.107%	16,526	-	16,526
141	2016	McNary	13,665	5.207%	711	-	711
142	2016	Minidoka/Palisades	50,953	7.149%	3,643	-	3,643
143	2016	Rogue River Projects - Green Springs	11,145	5.875%	655	-	655
144	2016	The Dalles	45,827	5.243%	2,403	-	2,403
145	2016	Yakima Chandler/Kenniwick	848	5.111%	43	-	43
146	2016	Yakima Roza	14	5.892%	1	-	1
147	2016	Bureau Direct	1,486,415	4.217%	62,678	-	62,678
148	2016	Conservation	427,400	3.673%	15,700	-	15,700
149	2016	Construction	52,944	2.500%	1,323	-	1,323
150	2016	Fish and Wildlife	373,228	3.849%	14,364	-	14,364
151	2016	Float	-	-	(5,916)	-	(5,916)
152	FY 2016	Subtotal:	6,071,236		310,943	-	310,943
153	2017	Albeni Falls	194,112	5.421%	10,524	-	10,524
154	2017	Boise	4,425	6.657%	295	-	295
155	2017	Bonneville 2nd Powerhouse	366,796	7.150%	26,226	-	26,226
156	2017	Bonneville Dam	145,701	5.557%	8,096	-	8,096
157	2017	Chief Joseph	238,241	6.818%	16,243	-	16,243
158	2017	Columbia Basin	95,253	5.766%	5,493	-	5,493
159	2017	Columbia Basin 3rd Powerhouse	455,389	7.151%	32,565	-	32,565
160	2017	Columbia River Fish Mitigation	1,405,626	4.583%	64,414	-	64,414
161	2017	Cougar	12,677	5.110%	648	-	648
162	2017	Detroit Lake/Big Cliff	1,592	5.310%	85	-	85
163	2017	Dworshak	14,095	6.332%	892	-	892
164	2017	Green Peter/Foster	312	5.392%	17	-	17
165	2017	Hills Creek	2,725	6.107%	166	-	166
166	2017	Hungry Horse Dam	13,268	6.273%	832	-	832
167	2017	Ice Harbor	35,776	6.352%	2,272	-	2,272
168	2017	John Day	24,130	5.964%	1,439	-	1,439
169	2017	Libby	235,714	7.104%	16,745	-	16,745
170	2017	Little Goose	63,790	6.911%	4,408	-	4,408
171	2017	Lookout Dam	13,249	5.514%	731	-	731
172	2017	Lost Creek	14,089	7.137%	1,006	-	1,006
173	2017	Lower Granite	57,490	6.694%	3,848	-	3,848
174	2017	Lower Monument	53,014	6.797%	3,604	-	3,604
175	2017	Lower Snake Fish and Wildlife	232,537	7.107%	16,526	-	16,526
176	2017	McNary	13,665	5.207%	711	-	711
177	2017	Minidoka/Palisades	50,953	7.149%	3,643	-	3,643
178	2017	Rogue River Projects - Green Springs	11,145	5.875%	655	-	655
179	2017	The Dalles	45,827	5.243%	2,403	-	2,403
180	2017	Yakima Chandler/Kenniwick	848	5.111%	43	-	43
181	2017	Yakima Roza	14	5.892%	1	-	1
182	2017	Bureau Direct	1,486,415	4.217%	62,678	-	62,678
183	2017	Conservation	427,400	3.673%	15,700	-	15,700
184	2017	Construction	42,444	2.678%	1,137	-	1,137
185	2017	Fish and Wildlife	373,228	3.849%	14,364	-	14,364
186	2017	Float	-	-	(5,385)	-	(5,385)
187	FY 2017	Subtotal:	6,131,943		313,024	-	313,024
188	2018	Albeni Falls	378,606	5.411%	20,486	-	20,486
189	2018	Boise	4,425	6.657%	295	-	295
190	2018	Bonneville 2nd Powerhouse	366,796	7.150%	26,226	-	26,226
191	2018	Bonneville Dam	145,701	5.557%	8,096	-	8,096
192	2018	Chief Joseph	238,241	6.818%	16,243	-	16,243
193	2018	Columbia Basin	95,180	5.765%	5,487	-	5,487
194	2018	Columbia Basin 3rd Powerhouse	411,264	7.150%	29,405	-	29,405
195	2018	Columbia River Fish Mitigation	1,405,626	4.583%	64,414	-	64,414
196	2018	Cougar	12,677	5.110%	648	-	648
197	2018	Detroit Lake/Big Cliff	1,592	5.310%	85	-	85
198	2018	Dworshak	14,095	6.332%	892	-	892

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	312	5.392%	17	-	17
200	2018	Hills Creek	2,725	6.107%	166	-	166
201	2018	Hungry Horse Dam	13,268	6.273%	832	-	832
202	2018	Ice Harbor	35,755	6.351%	2,271	-	2,271
203	2018	John Day	24,130	5.964%	1,439	-	1,439
204	2018	Libby	185,787	7.089%	13,170	-	13,170
205	2018	Little Goose	63,790	6.911%	4,408	-	4,408
206	2018	Lookout Dam	13,249	5.514%	731	-	731
207	2018	Lost Creek	14,089	7.137%	1,006	-	1,006
208	2018	Lower Granite	55,127	6.674%	3,679	-	3,679
209	2018	Lower Monument	53,014	6.797%	3,604	-	3,604
210	2018	Lower Snake Fish and Wildlife	232,537	7.107%	16,526	-	16,526
211	2018	McNary	13,314	5.155%	686	-	686
212	2018	Minidoka/Palisades	50,953	7.149%	3,643	-	3,643
213	2018	Rogue River Projects - Green Springs	11,145	5.875%	655	-	655
214	2018	The Dalles	45,827	5.243%	2,403	-	2,403
215	2018	Yakima Chandler/Kenniwick	848	5.111%	43	-	43
216	2018	Yakima Roza	14	5.892%	1	-	1
217	2018	Bureau Direct	1,486,415	4.217%	62,678	-	62,678
218	2018	Conservation	427,400	3.673%	15,700	-	15,700
219	2018	Construction	42,444	2.678%	1,137	-	1,137
220	2018	Fish and Wildlife	373,228	3.849%	14,364	-	14,364
221	2018	Float	-	-	(3,876)	-	(3,876)
222	FY 2018	Subtotal:	6,219,577		317,561	-	317,561
223	2019	Albeni Falls	563,963	5.407%	30,496	-	30,496
224	2019	Boise	4,425	6.657%	295	-	295
225	2019	Bonneville 2nd Powerhouse	366,796	7.150%	26,226	-	26,226
226	2019	Bonneville Dam	145,701	5.557%	8,096	-	8,096
227	2019	Chief Joseph	238,241	6.818%	16,243	-	16,243
228	2019	Columbia Basin	95,180	5.765%	5,487	-	5,487
229	2019	Columbia Basin 3rd Powerhouse	411,264	7.150%	29,405	-	29,405
230	2019	Columbia River Fish Mitigation	1,405,626	4.583%	64,414	-	64,414
231	2019	Cougar	12,677	5.110%	648	-	648
232	2019	Detroit Lake/Big Cliff	1,592	5.310%	85	-	85
233	2019	Dworshak	14,095	6.332%	892	-	892
234	2019	Green Peter/Foster	312	5.392%	17	-	17
235	2019	Hills Creek	2,725	6.107%	166	-	166
236	2019	Hungry Horse Dam	13,268	6.273%	832	-	832
237	2019	Ice Harbor	35,755	6.351%	2,271	-	2,271
238	2019	John Day	24,130	5.964%	1,439	-	1,439
239	2019	Libby	185,787	7.089%	13,170	-	13,170
240	2019	Little Goose	63,790	6.911%	4,408	-	4,408
241	2019	Lookout Dam	13,249	5.514%	731	-	731
242	2019	Lost Creek	14,089	7.137%	1,006	-	1,006
243	2019	Lower Granite	55,127	6.674%	3,679	-	3,679
244	2019	Lower Monument	53,014	6.797%	3,604	-	3,604
245	2019	Lower Snake Fish and Wildlife	232,537	7.107%	16,526	-	16,526
246	2019	McNary	13,314	5.155%	686	-	686
247	2019	Minidoka/Palisades	50,953	7.149%	3,643	-	3,643
248	2019	Rogue River Projects - Green Springs	11,145	5.875%	655	-	655
249	2019	The Dalles	45,827	5.243%	2,403	-	2,403
250	2019	Yakima Chandler/Kenniwick	848	5.111%	43	-	43
251	2019	Yakima Roza	14	5.892%	1	-	1
252	2019	Bureau Direct	1,486,415	4.217%	62,678	-	62,678
253	2019	Conservation	427,400	3.673%	15,700	-	15,700
254	2019	Construction	42,444	2.678%	1,137	-	1,137
255	2019	Fish and Wildlife	373,228	3.849%	14,364	-	14,364
256	2019	Float	-	-	(6,784)	-	(6,784)
257	FY 2019	Subtotal:	6,404,934		324,661	-	324,661
258	2020	Albeni Falls	746,771	5.406%	40,367	-	40,367

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	4,425	6.657%	295	-	295
260	2020	Bonneville 2nd Powerhouse	366,796	7.150%	26,226	-	26,226
261	2020	Bonneville Dam	145,701	5.557%	8,096	-	8,096
262	2020	Chief Joseph	238,241	6.818%	16,243	-	16,243
263	2020	Columbia Basin	95,180	5.765%	5,487	-	5,487
264	2020	Columbia Basin 3rd Powerhouse	411,264	7.150%	29,405	-	29,405
265	2020	Columbia River Fish Mitigation	1,405,626	4.583%	64,414	-	64,414
266	2020	Cougar	12,677	5.110%	648	-	648
267	2020	Detroit Lake/Big Cliff	1,592	5.310%	85	-	85
268	2020	Dworshak	14,095	6.332%	892	-	892
269	2020	Green Peter/Foster	312	5.392%	17	-	17
270	2020	Hills Creek	2,725	6.107%	166	-	166
271	2020	Hungry Horse Dam	13,268	6.273%	832	-	832
272	2020	Ice Harbor	35,755	6.351%	2,271	-	2,271
273	2020	John Day	24,130	5.964%	1,439	-	1,439
274	2020	Libby	120,648	7.056%	8,513	-	8,513
275	2020	Little Goose	63,790	6.911%	4,408	-	4,408
276	2020	Lookout Dam	13,249	5.514%	731	-	731
277	2020	Lost Creek	14,089	7.137%	1,006	-	1,006
278	2020	Lower Granite	55,127	6.674%	3,679	-	3,679
279	2020	Lower Monument	53,014	6.797%	3,604	-	3,604
280	2020	Lower Snake Fish and Wildlife	232,537	7.107%	16,526	-	16,526
281	2020	McNary	13,314	5.155%	686	-	686
282	2020	Minidoka/Palisades	50,953	7.149%	3,643	-	3,643
283	2020	Rogue River Projects - Green Springs	11,145	5.875%	655	-	655
284	2020	The Dalles	45,827	5.243%	2,403	-	2,403
285	2020	Yakima Chandler/Kenniwick	848	5.111%	43	-	43
286	2020	Yakima Roza	14	5.892%	1	-	1
287	2020	Bureau Direct	1,427,415	4.238%	60,489	-	60,489
288	2020	Conservation	427,400	3.673%	15,700	-	15,700
289	2020	Construction	25,566	3.258%	833	-	833
290	2020	Fish and Wildlife	327,228	3.905%	12,777	-	12,777
291	2020	Float	-	-	(7,705)	-	(7,705)
292	FY 2020	Subtotal:	6,400,726		324,875	-	324,875
293	2021	Albeni Falls	927,107	5.404%	50,105	-	50,105
294	2021	Boise	4,425	6.657%	295	-	295
295	2021	Bonneville 2nd Powerhouse	366,796	7.150%	26,226	-	26,226
296	2021	Bonneville Dam	145,701	5.557%	8,096	-	8,096
297	2021	Chief Joseph	238,241	6.818%	16,243	-	16,243
298	2021	Columbia Basin	95,180	5.765%	5,487	-	5,487
299	2021	Columbia Basin 3rd Powerhouse	410,486	7.150%	29,350	-	29,350
300	2021	Columbia River Fish Mitigation	1,405,626	4.583%	64,414	-	64,414
301	2021	Cougar	12,677	5.110%	648	-	648
302	2021	Detroit Lake/Big Cliff	1,592	5.310%	85	-	85
303	2021	Dworshak	14,095	6.332%	892	-	892
304	2021	Green Peter/Foster	312	5.392%	17	-	17
305	2021	Hills Creek	2,725	6.107%	166	-	166
306	2021	Hungry Horse Dam	13,268	6.273%	832	-	832
307	2021	Ice Harbor	15,055	5.254%	791	-	791
308	2021	John Day	24,130	5.964%	1,439	-	1,439
309	2021	Libby	23,085	6.658%	1,537	-	1,537
310	2021	Little Goose	63,790	6.911%	4,408	-	4,408
311	2021	Lookout Dam	13,249	5.514%	731	-	731
312	2021	Lost Creek	14,089	7.137%	1,006	-	1,006
313	2021	Lower Granite	55,127	6.674%	3,679	-	3,679
314	2021	Lower Monument	53,014	6.797%	3,604	-	3,604
315	2021	Lower Snake Fish and Wildlife	232,537	7.107%	16,526	-	16,526
316	2021	McNary	13,314	5.155%	686	-	686
317	2021	Minidoka/Palisades	50,953	7.149%	3,643	-	3,643
318	2021	Rogue River Projects - Green Springs	11,145	5.875%	655	-	655
319	2021	The Dalles	45,827	5.243%	2,403	-	2,403
320	2021	Yakima Chandler/Kenniwick	848	5.111%	43	-	43
321	2021	Yakima Roza	14	5.892%	1	-	1
322	2021	Bureau Direct	1,267,415	4.309%	54,617	-	54,617
323	2021	Conservation	427,400	3.673%	15,700	-	15,700
324	2021	Construction	16,438	3.623%	596	-	596
325	2021	Fish and Wildlife	327,228	3.905%	12,777	-	12,777
326	2021	Float	-	-	(7,888)	-	(7,888)
327	FY 2021	Subtotal:	6,292,893		319,809	-	319,809

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	5.404%	59,752	-	59,752
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	130,031	5.365%	6,976	-	6,976
332	2022	Chief Joseph	Historical	207,729	6.769%	14,061	-	14,061
333	2022	Columbia Basin	Historical	95,180	5.765%	5,487	-	5,487
334	2022	Columbia Basin 3rd Powerhouse	Historical	304,007	7.150%	21,737	-	21,737
335	2022	Columbia River Fish Mitigation	Historical	1,405,626	4.583%	64,414	-	64,414
336	2022	Cougar	Historical	12,677	5.110%	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	312	5.392%	17	-	17
340	2022	Hills Creek	Historical	2,725	6.107%	166	-	166
341	2022	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
342	2022	Ice Harbor	Historical	15,055	5.254%	791	-	791
343	2022	John Day	Historical	24,130	5.964%	1,439	-	1,439
344	2022	Libby	Historical	23,085	6.658%	1,537	-	1,537
345	2022	Little Goose	Historical	14,165	6.073%	860	-	860
346	2022	Lookout Dam	Historical	13,249	5.514%	731	-	731
347	2022	Lost Creek	Historical	296	6.518%	19	-	19
348	2022	Lower Granite	Historical	14,516	5.342%	775	-	775
349	2022	Lower Monument	Historical	53,014	6.797%	3,604	-	3,604
350	2022	Lower Snake Fish and Wildlife	Historical	232,537	7.107%	16,526	-	16,526
351	2022	McNary	Historical	13,314	5.155%	686	-	686
352	2022	Minidoka/Palisades	Historical	50,953	7.149%	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	1,220,415	4.341%	52,983	-	52,983
358	2022	Conservation	Historical	427,400	3.673%	15,700	-	15,700
359	2022	Construction	Historical	3,502	2.600%	91	-	91
360	2022	Fish and Wildlife	Historical	327,228	3.905%	12,777	-	12,777
361	2022	Float	Historical	-	-	(8,223)	-	(8,223)
362	FY 2022	Subtotal:		6,154,907		308,630	-	308,630
363	2023	Albeni Falls	Historical	1,277,317	5.403%	69,017	-	69,017
364	2023	Boise	Historical	4,425	6.657%	295	-	295
365	2023	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	-	26,226
366	2023	Bonneville Dam	Historical	130,031	5.365%	6,976	-	6,976
367	2023	Chief Joseph	Historical	42,961	5.308%	2,280	-	2,280
368	2023	Columbia Basin	Historical	95,180	5.765%	5,487	-	5,487
369	2023	Columbia Basin 3rd Powerhouse	Historical	161,090	7.150%	11,518	-	11,518
370	2023	Columbia River Fish Mitigation	Historical	1,405,626	4.583%	64,414	-	64,414
371	2023	Cougar	Historical	12,677	5.110%	648	-	648
372	2023	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
373	2023	Dworshak	Historical	14,095	6.332%	892	-	892
374	2023	Green Peter/Foster	Historical	312	5.392%	17	-	17
375	2023	Hills Creek	Historical	2,725	6.107%	166	-	166
376	2023	Hungry Horse Dam	Historical	13,268	6.273%	832	-	832
377	2023	Ice Harbor	Historical	15,055	5.254%	791	-	791
378	2023	John Day	Historical	24,130	5.964%	1,439	-	1,439
379	2023	Libby	Historical	22,933	6.654%	1,526	-	1,526
380	2023	Little Goose	Historical	14,165	6.073%	860	-	860
381	2023	Lookout Dam	Historical	13,249	5.514%	731	-	731
382	2023	Lost Creek	Historical	296	6.518%	19	-	19
383	2023	Lower Granite	Historical	12,965	5.125%	664	-	664
384	2023	Lower Monument	Historical	12,089	5.604%	677	-	677
385	2023	Lower Snake Fish and Wildlife	Historical	232,537	7.107%	16,526	-	16,526
386	2023	McNary	Historical	13,314	5.155%	686	-	686
387	2023	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
388	2023	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
389	2023	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
390	2023	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
391	2023	Yakima Roza	Historical	14	5.892%	1	-	1
392	2023	Bureau Direct	Historical	1,220,415	4.341%	52,983	-	52,983
393	2023	Conservation	Historical	427,400	3.673%	15,700	-	15,700
394	2023	Construction	Historical	3,502	2.600%	91	-	91
395	2023	Fish and Wildlife	Historical	327,228	3.905%	12,777	-	12,777
396	2023	Float	Historical	-	-	(8,876)	-	(8,876)
397	FY 2023	Subtotal:		5,976,163		292,194	-	292,194

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	Albeni Falls	Historical	1,448,886	5.403%	78,281	-	78,281
399	2024	Boise	Historical	4,425	6.657%	295	-	295
400	2024	Bonneville 2nd Powerhouse	Historical	116,758	7.150%	8,348	-	8,348
401	2024	Bonneville Dam	Historical	129,491	5.357%	6,937	-	6,937
402	2024	Chief Joseph	Historical	37,563	5.044%	1,895	-	1,895
403	2024	Columbia Basin	Historical	94,820	5.760%	5,462	-	5,462
404	2024	Columbia Basin 3rd Powerhouse	Historical	141,708	7.150%	10,132	-	10,132
405	2024	Columbia River Fish Mitigation	Historical	1,405,626	4.583%	64,414	-	64,414
406	2024	Cougar	Historical	12,677	5.110%	648	-	648
407	2024	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
408	2024	Dworshak	Historical	13,668	6.307%	862	-	862
409	2024	Green Peter/Foster	Historical	312	5.392%	17	-	17
410	2024	Hills Creek	Historical	2,725	6.107%	166	-	166
411	2024	Hungry Horse Dam	Historical	11,537	6.142%	709	-	709
412	2024	Ice Harbor	Historical	14,977	5.244%	785	-	785
413	2024	John Day	Historical	24,130	5.964%	1,439	-	1,439
414	2024	Libby	Historical	22,783	6.651%	1,515	-	1,515
415	2024	Little Goose	Historical	14,165	6.073%	860	-	860
416	2024	Lookout Dam	Historical	13,249	5.514%	731	-	731
417	2024	Lost Creek	Historical	265	6.443%	17	-	17
418	2024	Lower Granite	Historical	12,759	5.092%	650	-	650
419	2024	Lower Monument	Historical	12,089	5.604%	677	-	677
420	2024	Lower Snake Fish and Wildlife	Historical	232,537	7.107%	16,526	-	16,526
421	2024	McNary	Historical	13,284	5.151%	684	-	684
422	2024	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
423	2024	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
424	2024	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
425	2024	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
426	2024	Yakima Roza	Historical	14	5.892%	1	-	1
427	2024	Bureau Direct	Historical	1,195,415	4.340%	51,886	-	51,886
428	2024	Conservation	Historical	312,400	3.657%	11,423	-	11,423
429	2024	Construction	Historical	3,502	2.600%	91	-	91
430	2024	Fish and Wildlife	Historical	327,228	3.905%	12,777	-	12,777
431	2024	Float	Historical	-	-	(9,902)	-	(9,902)
432	FY 2024	Subtotal:		5,729,361		275,155	-	275,155
433	2025	Albeni Falls	Historical	1,620,455	5.403%	87,546	-	87,546
434	2025	Boise	Historical	4,425	6.657%	295	-	295
435	2025	Bonneville 2nd Powerhouse	Historical	9,867	7.150%	705	-	705
436	2025	Bonneville Dam	Historical	129,491	5.357%	6,937	-	6,937
437	2025	Chief Joseph	Historical	37,563	5.044%	1,895	-	1,895
438	2025	Columbia Basin	Historical	94,820	5.760%	5,462	-	5,462
439	2025	Columbia Basin 3rd Powerhouse	Historical	4,003	7.150%	286	-	286
440	2025	Columbia River Fish Mitigation	Historical	1,405,626	4.583%	64,414	-	64,414
441	2025	Cougar	Historical	12,677	5.110%	648	-	648
442	2025	Detroit Lake/Big Cliff	Historical	1,592	5.310%	85	-	85
443	2025	Dworshak	Historical	13,668	6.307%	862	-	862
444	2025	Green Peter/Foster	Historical	312	5.392%	17	-	17
445	2025	Hills Creek	Historical	2,725	6.107%	166	-	166
446	2025	Hungry Horse Dam	Historical	11,537	6.142%	709	-	709
447	2025	Ice Harbor	Historical	14,606	5.195%	759	-	759
448	2025	John Day	Historical	23,935	5.955%	1,425	-	1,425
449	2025	Libby	Historical	8,002	5.730%	459	-	459
450	2025	Little Goose	Historical	12,965	5.974%	774	-	774
451	2025	Lookout Dam	Historical	13,249	5.514%	731	-	731
452	2025	Lost Creek	Historical	265	6.443%	17	-	17
453	2025	Lower Granite	Historical	12,759	5.092%	650	-	650
454	2025	Lower Monument	Historical	11,825	5.569%	659	-	659
455	2025	Lower Snake Fish and Wildlife	Historical	19,480	6.636%	1,293	-	1,293
456	2025	McNary	Historical	13,284	5.151%	684	-	684
457	2025	Minidoka/Palisades	Historical	50,953	7.149%	3,643	-	3,643
458	2025	Rogue River Projects - Green Springs	Historical	11,145	5.875%	655	-	655
459	2025	The Dalles	Historical	45,827	5.243%	2,403	-	2,403
460	2025	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
461	2025	Yakima Roza	Historical	14	5.892%	1	-	1
462	2025	Bureau Direct	Historical	1,195,415	4.340%	51,886	-	51,886
463	2025	Conservation	Historical	297,400	3.715%	11,048	-	11,048
464	2025	Construction	Historical	3,502	2.600%	91	-	91
465	2025	Fish and Wildlife	Historical	307,228	3.86220006	11,866	-	11,866
466	2025	Float	Historical	-	-	(12,848)	-	(12,848)
467	FY 2025	Subtotal:		5,391,467		246,263	-	246,263
468	2026	Albeni Falls	Historical	1,475,455	5.400%	79,672	-	79,672

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	Boise	Historical	1,060	5.091%	54	-	54
470	2026	Bonneville Dam	Historical	98,151	5.080%	4,987	-	4,987
471	2026	Chief Joseph	Historical	29,246	4.460%	1,304	-	1,304
472	2026	Columbia Basin	Historical	18,668	4.818%	899	-	899
473	2026	Columbia River Fish Mitigation	Historical	1,301,943	4.432%	57,706	-	57,706
474	2026	Cougar	Historical	12,651	5.106%	646	-	646
475	2026	Detroit Lake/Big Cliff	Historical	1,254	5.125%	64	-	64
476	2026	Dworshak	Historical	4,666	4.750%	222	-	222
477	2026	Green Peter/Foster	Historical	87	3.745%	3	-	3
478	2026	Hills Creek	Historical	58	4.835%	3	-	3
479	2026	Hungry Horse Dam	Historical	4,667	4.808%	224	-	224
480	2026	Ice Harbor	Historical	12,213	5.075%	620	-	620
481	2026	John Day	Historical	12,078	5.081%	614	-	614
482	2026	Libby	Historical	1,781	4.751%	85	-	85
483	2026	Little Goose	Historical	3,428	4.428%	152	-	152
484	2026	Lookout Dam	Historical	8,079	5.113%	413	-	413
485	2026	Lower Granite	Historical	8,148	4.503%	367	-	367
486	2026	Lower Monument	Historical	6,598	4.962%	327	-	327
487	2026	Lower Snake Fish and Wildlife	Historical	2,478	4.500%	112	-	112
488	2026	McNary	Historical	11,506	4.970%	572	-	572
489	2026	The Dalles	Historical	40,022	5.084%	2,035	-	2,035
490	2026	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
491	2026	Bureau Direct	Historical	1,195,415	4.340%	51,886	-	51,886
492	2026	Conservation	Historical	236,035	3.901%	9,207	-	9,207
493	2026	Construction	Historical	3,502	2.600%	91	-	91
494	2026	Fish and Wildlife	Historical	307,228	3.86220006	11,866	-	11,866
495	2026	Float	Historical	-	-	(12,854)	-	(12,854)
496	FY 2026	Subtotal:		4,797,264		211,319	-	211,319
497	2027	Albeni Falls	Historical	1,026,520	5.400%	55,430	-	55,430
498	2027	Boise	Historical	1,060	5.091%	54	-	54
499	2027	Bonneville Dam	Historical	98,151	5.080%	4,987	-	4,987
500	2027	Chief Joseph	Historical	29,246	4.460%	1,304	-	1,304
501	2027	Columbia Basin	Historical	18,668	4.818%	899	-	899
502	2027	Columbia River Fish Mitigation	Historical	1,301,943	4.432%	57,706	-	57,706
503	2027	Cougar	Historical	12,651	5.106%	646	-	646
504	2027	Detroit Lake/Big Cliff	Historical	1,254	5.125%	64	-	64
505	2027	Dworshak	Historical	4,666	4.750%	222	-	222
506	2027	Green Peter/Foster	Historical	87	3.745%	3	-	3
507	2027	Hills Creek	Historical	58	4.835%	3	-	3
508	2027	Hungry Horse Dam	Historical	4,667	4.808%	224	-	224
509	2027	Ice Harbor	Historical	12,213	5.075%	620	-	620
510	2027	John Day	Historical	12,078	5.081%	614	-	614
511	2027	Libby	Historical	1,781	4.751%	85	-	85
512	2027	Little Goose	Historical	3,428	4.428%	152	-	152
513	2027	Lookout Dam	Historical	8,079	5.113%	413	-	413
514	2027	Lower Granite	Historical	8,148	4.503%	367	-	367
515	2027	Lower Monument	Historical	6,598	4.962%	327	-	327
516	2027	Lower Snake Fish and Wildlife	Historical	2,478	4.500%	112	-	112
517	2027	McNary	Historical	11,506	4.970%	572	-	572
518	2027	The Dalles	Historical	40,022	5.084%	2,035	-	2,035
519	2027	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	-	43
520	2027	Bureau Direct	Historical	1,195,415	4.340%	51,886	-	51,886
521	2027	Conservation	Historical	147,000	4.190%	6,160	-	6,160
522	2027	Fish and Wildlife	Historical	227,228	3.677060045	8,355	-	8,355
523	2027	Float	Historical	-	-	(12,990)	-	(12,990)
524	FY 2027	Subtotal:		4,175,792		180,292	-	180,292
525	2028	Albeni Falls	Historical	480,148	5.400%	25,926	-	25,926
526	2028	Boise	Historical	1,060	5.091%	54	-	54
527	2028	Bonneville Dam	Historical	98,151	5.080%	4,987	-	4,987
528	2028	Chief Joseph	Historical	29,246	4.460%	1,304	-	1,304
529	2028	Columbia Basin	Historical	18,668	4.818%	899	-	899
530	2028	Columbia River Fish Mitigation	Historical	1,301,943	4.432%	57,706	-	57,706
531	2028	Cougar	Historical	12,651	5.106%	646	-	646
532	2028	Detroit Lake/Big Cliff	Historical	1,254	5.125%	64	-	64
533	2028	Dworshak	Historical	4,666	4.750%	222	-	222
534	2028	Green Peter/Foster	Historical	87	3.745%	3	-	3
535	2028	Hills Creek	Historical	58	4.835%	3	-	3
536	2028	Hungry Horse Dam	Historical	4,667	4.808%	224	-	224
537	2028	Ice Harbor	Historical	12,213	5.075%	620	-	620
538	2028	John Day	Historical	12,078	5.081%	614	-	614
539	2028	Libby	Historical	1,781	4.751%	85	-	85

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	Little Goose	3,428	4.428%	152	-	152
541	2028	Lookout Dam	8,079	5.113%	413	-	413
542	2028	Lower Granite	8,148	4.503%	367	-	367
543	2028	Lower Monument	6,598	4.962%	327	-	327
544	2028	Lower Snake Fish and Wildlife	2,478	4.500%	112	-	112
545	2028	McNary	11,506	4.970%	572	-	572
546	2028	The Dalles	40,022	5.084%	2,035	-	2,035
547	2028	Yakima Chandler/Kenniwick	848	5.111%	43	-	43
548	2028	Bureau Direct	1,170,415	4.356%	50,988	-	50,988
549	2028	Conservation	55,000	3.840%	2,112	-	2,112
550	2028	Fish and Wildlife	216,228	3.722695488	8,050	-	8,050
551	2028	Float	-	-	(13,175)	-	(13,175)
552	FY 2028	Subtotal:	3,501,421		145,351		145,351
553	2029	Albeni Falls	580	4.989%	29	-	29
554	2029	Boise	1,060	5.091%	54	-	54
555	2029	Bonneville Dam	52,042	4.820%	2,508	-	2,508
556	2029	Chief Joseph	29,246	4.460%	1,304	-	1,304
557	2029	Columbia Basin	18,668	4.818%	899	-	899
558	2029	Columbia River Fish Mitigation	1,209,721	4.364%	52,793	-	52,793
559	2029	Cougar	9,029	4.998%	451	-	451
560	2029	Detroit Lake/Big Cliff	1,254	5.125%	64	-	64
561	2029	Dworshak	4,037	4.652%	188	-	188
562	2029	Green Peter/Foster	87	3.745%	3	-	3
563	2029	Hills Creek	58	4.835%	3	-	3
564	2029	Hungry Horse Dam	4,667	4.808%	224	-	224
565	2029	Ice Harbor	3,327	4.277%	142	-	142
566	2029	John Day	5,739	4.756%	273	-	273
567	2029	Libby	1,781	4.751%	85	-	85
568	2029	Little Goose	3,214	4.376%	141	-	141
569	2029	Lookout Dam	7,944	5.113%	406	-	406
570	2029	Lower Granite	7,250	4.397%	319	-	319
571	2029	Lower Monument	3,153	4.513%	142	-	142
572	2029	Lower Snake Fish and Wildlife	2,144	4.375%	94	-	94
573	2029	McNary	5,368	4.506%	242	-	242
574	2029	The Dalles	39,840	5.082%	2,025	-	2,025
575	2029	Yakima Chandler/Kenniwick	848	5.111%	43	-	43
576	2029	Bureau Direct	1,170,415	4.356%	50,988	7,484	58,472
577	2029	Conservation	55,000	3.84	2,112	-	2,112
578	2029	Fish and Wildlife	149,083	3.958%	5,901	-	5,901
579	2029	Float	-	-	(13,189)	-	(13,189)
580	FY 2029	Subtotal:	2,785,554		108,245	7,484	115,729
581	2030	Albeni Falls	99	4.330%	4	-	4
582	2030	Boise	17	4.499%	1	-	1
583	2030	Bonneville Dam	12,003	4.116%	494	-	494
584	2030	Chief Joseph	24,754	4.374%	1,083	-	1,083
585	2030	Columbia Basin	5,942	4.215%	250	-	250
586	2030	Columbia River Fish Mitigation	967,931	4.200%	40,650	-	40,650
587	2030	Cougar	786	3.687%	29	-	29
588	2030	Dworshak	2,553	4.379%	112	-	112
589	2030	Green Peter/Foster	87	3.745%	3	-	3
590	2030	Hills Creek	12	3.780%	-	-	-
591	2030	Hungry Horse Dam	1,346	4.068%	55	-	55
592	2030	Ice Harbor	3,313	4.275%	142	-	142
593	2030	John Day	2,679	4.346%	116	-	116
594	2030	Libby	214	3.844%	8	-	8
595	2030	Little Goose	3,201	4.374%	140	-	140
596	2030	Lookout Dam	17	3.766%	1	-	1
597	2030	Lower Granite	6,834	4.353%	297	-	297
598	2030	Lower Monument	2,617	4.389%	115	-	115
599	2030	Lower Snake Fish and Wildlife	2,065	4.355%	90	-	90
600	2030	McNary	4,603	4.415%	203	-	203
601	2030	The Dalles	2,030	4.500%	91	-	91
602	2030	Yakima Chandler/Kenniwick	15	4.370%	1	-	1
603	2030	Bureau Direct	850,941	4.132418393	35,164	2,205	37,370
604	2030	Conservation	55,000	3.840%	2,112	-	2,112
605	2030	Fish and Wildlife	83,808	4.163%	3,489	-	3,489
606	2030	Float	-	-	(13,308)	-	(13,308)
607	FY 2030	Subtotal:	2,032,866		71,344	2,205	73,549
608	2031	Albeni Falls	42	4.261%	2	-	2
609	2031	Bonneville Dam	6,630	3.857%	256	-	256
610	2031	Chief Joseph	27	3.734%	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	2031	Columbia Basin	Historical	2,617	3.917%	103	-	103
612	2031	Columbia River Fish Mitigation	Historical	398,991	3.836%	15,305	-	15,305
613	2031	Cougar	Historical	608	3.799%	23	-	23
614	2031	Green Peter/Foster	Historical	87	3.745%	3	-	3
615	2031	Hills Creek	Historical	12	3.780%	-	-	-
616	2031	Hungry Horse Dam	Historical	1,286	4.053%	52	-	52
617	2031	Ice Harbor	Historical	697	3.898%	27	-	27
618	2031	John Day	Historical	530	4.086%	22	-	22
619	2031	Libby	Historical	214	3.844%	8	-	8
620	2031	Little Goose	Historical	30	4.265%	1	-	1
620	2031	Lookout Dam	Historical	17	3.766%	1	-	1
620	2031	Lower Granite	Historical	1,165	4.247%	49	-	49
620	2031	Lower Snake Fish and Wildlife	Historical	146	3.770%	6	-	6
620	2031	McNary	Historical	523	3.751%	20	-	20
620	2031	Bureau Direct	Historical	725,296	4.045721449	29,343	8,200	37,543
620	2031	Conservation	Historical	55,000	3.840%	2,112	-	2,112
620	2031	Fish and Wildlife	Historical	42,000	3.828%	1,608	19	1,627
620	2031	Float	Historical	-	-	(13,358)	-	(13,358)
620	FY 2031	Subtotal:		1,235,919		35,585	8,219	43,803
620	2032	Columbia River Fish Mitigation	Historical	93,715	3.380%	3,168	-	3,168
620	2032	Bureau Direct	Historical	229,000	3.741965066	8,569	2,113	10,682
620	2032	Conservation	Historical	55,000	3.840%	2,112	487	2,599
620	2032	Fish and Wildlife	Historical	40,161	3.825167091	1,536	390	1,926
620	2032	Float	Historical	-	-	(13,493)	-	(13,493)
620	FY 2032	Subtotal:		417,876		1,892	2,989	4,881
620	2033	Float	Historical	-	-	(13,691)	-	(13,691)
620	FY 2033	Subtotal:		-		(13,691)	-	(13,691)
620	2034	Float	Historical	-	-	(13,784)	-	(13,784)
620	FY 2034	Subtotal:		-		(13,784)	-	(13,784)
620	2035	Float	Historical	-	-	(13,853)	-	(13,853)
620	FY 2035	Subtotal:		-		(13,853)	-	(13,853)
620	2036	Float	Historical	-	-	(13,905)	-	(13,905)
620	FY 2036	Subtotal:		-		(13,905)	-	(13,905)
620	2037	Float	Historical	-	-	(13,913)	-	(13,913)
620	FY 2037	Subtotal:		-		(13,913)	-	(13,913)
620	2038	Float	Historical	-	-	(13,905)	-	(13,905)
620	FY 2038	Subtotal:		-		(13,905)	-	(13,905)
620	2039	Float	Historical	-	-	(13,905)	-	(13,905)
620	FY 2039	Subtotal:		-		(13,905)	-	(13,905)
620	2040	Float	Historical	-	-	(13,905)	-	(13,905)
620	FY 2040	Subtotal:		-		(13,905)	-	(13,905)
620	2041	Float	Historical	-	-	(13,905)	-	(13,905)
620	FY 2041	Subtotal:		-		(13,905)	-	(13,905)
620	2042	Float	Historical	-	-	(13,905)	-	(13,905)
620	FY 2042	Subtotal:		-		(13,905)	-	(13,905)
620	2043	Float	Historical	-	-	(13,905)	-	(13,905)
620	FY 2043	Subtotal:		-		(13,905)	-	(13,905)
620	2044	Float	Historical	-	-	(12,315)	-	(12,315)
620	FY 2044	Subtotal:		-		(12,315)	-	(12,315)

**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	FY 2015	Conservation	-	2010	2015	20,000	20,000	2.677%	No	20,000
29	FY 2015	Conservation	-	2010	2015	15,000	15,000	2.609%	No	15,000
30	FY 2015	Conservation	-	2010	2015	15,000	15,000	1.619%	No	15,000
31	FY 2015	Conservation	-	2010	2015	10,000	10,000	1.534%	No	10,000
32	FY 2015	Conservation	-	2012	2015	30,000	30,000	0.676%	No	30,000
33	FY 2015	Conservation	-	2012	2015	15,000	15,000	0.671%	No	15,000
34	FY 2015	Construction	-	2010	2015	5,000	5,000	1.619%	No	5,000
35	FY 2015	Construction	-	2012	2015	7,700	7,700	0.671%	No	7,700
36	FY 2015	Columbia Basin 3rd Powerhouse	BOR	1975	2025	8,702	7,435	7.160%	No	4,027
37	FY 2015	Libby	COE	1975	2025	54,644	48,138	7.160%	No	48,138
38	FY 2015	Lower Granite	COE	1975	2025	119,237	63,409	7.160%	No	63,409
39		FY 2015 Subtotal:	-	-	-	300,283	236,682	-	-	233,274
40	FY 2016	Construction	-	2011	2016	7,000	7,000	1.957%	No	7,000
41	FY 2016	Construction	-	2011	2016	3,500	3,500	1.423%	No	3,500
42	FY 2016	Columbia Basin 3rd Powerhouse	BOR	1975	2025	8,702	3,408	7.160%	No	3,408
43	FY 2016	Columbia Basin 3rd Powerhouse	BOR	1975	2025	47,328	36,690	7.160%	No	36,690
44	FY 2016	Columbia Basin	BOR	1996	2026	72	72	7.150%	No	72
45	FY 2016	Ice Harbor	COE	1985	2026	21	21	7.150%	No	21
46	FY 2016	Libby	COE	1976	2026	153,432	153,432	7.150%	No	68,229
47	FY 2016	Libby	COE	1977	2026	1,465	1,465	7.150%	No	1,465
48	FY 2016	Libby	COE	1978	2026	1,465	1,465	7.150%	No	1,465
49	FY 2016	Libby	COE	1979	2026	1,465	1,465	7.150%	No	1,465
50	FY 2016	Libby	COE	1980	2026	1,465	1,465	7.150%	No	1,465
51	FY 2016	Libby	COE	1981	2026	1,465	1,465	7.150%	No	1,465
52	FY 2016	Libby	COE	1982	2026	1,465	1,465	7.150%	No	1,465
53	FY 2016	Libby	COE	1983	2026	1,465	1,465	7.150%	No	1,465
54	FY 2016	Libby	COE	1985	2026	518	518	7.150%	No	518
55	FY 2016	Libby	COE	1986	2026	283	283	7.150%	No	283
56	FY 2016	Libby	COE	1987	2026	2	2	7.150%	No	2
57	FY 2016	Libby	COE	1989	2026	1	1	7.150%	No	1
58	FY 2016	McNary	COE	1996	2026	74	74	7.150%	No	74
59	FY 2016	McNary	COE	1996	2026	277	277	7.150%	No	277
60		FY 2016 Subtotal:	-	-	-	231,465	215,533	-	-	130,330
61	FY 2017	Ice Harbor	COE	1976	2026	228	228	7.150%	No	228
62	FY 2017	Ice Harbor	COE	1976	2026	20,472	20,472	7.150%	No	11,437
63	FY 2017	Libby	COE	1976	2026	153,432	85,203	7.150%	No	85,203
64		FY 2017 Subtotal:	-	-	-	174,132	105,903	-	-	96,868
65	FY 2019	Bureau Direct	-	2009	2019	25,000	25,000	3.699%	No	25,000
66	FY 2019	Bureau Direct	-	2010	2019	24,000	24,000	3.719%	No	24,000
67	FY 2019	Bureau Direct	-	2010	2019	10,000	10,000	3.714%	No	10,000
68	FY 2019	Construction	-	2013	2019	3,767	3,767	1.800%	No	3,767
69	FY 2019	Construction	-	2013	2019	4,037	4,037	1.800%	No	4,037
70	FY 2019	Construction	-	2013	2019	4,394	4,394	1.800%	No	4,394
71	FY 2019	Construction	-	2013	2019	4,680	4,680	1.800%	No	4,680
72	FY 2019	Fish and Wildlife	-	2010	2019	26,000	26,000	4.069%	No	26,000
73	FY 2019	Fish and Wildlife	-	2010	2019	20,000	20,000	2.646%	No	20,000
74	FY 2019	Columbia Basin 3rd Powerhouse	BOR	1976	2026	8,037	8,037	7.150%	No	8,037
75	FY 2019	Columbia Basin 3rd Powerhouse	BOR	1976	2026	41,330	41,330	7.150%	No	41,330
76	FY 2019	Ice Harbor	COE	1976	2026	20,472	9,035	7.150%	No	9,035
77	FY 2019	Lost Creek	COE	1977	2027	13,505	13,413	7.150%	No	6,355
78	FY 2019	Lost Creek	COE	1978	2027	58	58	7.150%	No	58
79	FY 2019	Lost Creek	COE	1979	2027	60	60	7.150%	No	60
80	FY 2019	Lost Creek	COE	1980	2027	60	60	7.150%	No	60
81	FY 2019	Lost Creek	COE	1981	2027	60	60	7.150%	No	60
82	FY 2019	Lost Creek	COE	1982	2027	60	60	7.150%	No	60
83	FY 2019	Lost Creek	COE	1983	2027	60	60	7.150%	No	60
84	FY 2019	Lost Creek	COE	1985	2027	12	12	7.150%	No	12
85	FY 2019	Lost Creek	COE	1986	2027	6	6	7.150%	No	6
86	FY 2019	Lost Creek	COE	1987	2027	4	4	7.150%	No	4
87		FY 2019 Subtotal:	-	-	-	205,602	194,073	-	-	187,016
88	FY 2020	Bureau Direct	-	2010	2020	13,000	13,000	4.194%	No	13,000
89	FY 2020	Bureau Direct	-	2010	2020	30,000	30,000	4.083%	No	30,000
90	FY 2020	Bureau Direct	-	2010	2020	18,000	18,000	3.973%	No	18,000
91	FY 2020	Bureau Direct	-	2010	2020	20,000	20,000	3.842%	No	20,000
92	FY 2020	Bureau Direct	-	2010	2020	7,000	7,000	3.637%	No	7,000
93	FY 2020	Bureau Direct	-	2010	2020	15,000	15,000	3.574%	No	15,000
94	FY 2020	Bureau Direct	-	2010	2020	10,000	10,000	3.243%	No	10,000
95	FY 2020	Bureau Direct	-	2010	2020	30,000	30,000	3.243%	No	30,000
96	FY 2020	Bureau Direct	-	2010	2020	17,000	17,000	3.118%	No	17,000
97	FY 2020	Construction	-	2014	2020	2,819	2,819	2.600%	No	2,819
98	FY 2020	Construction	-	2014	2020	3,021	3,021	2.600%	No	3,021
99	FY 2020	Construction	-	2014	2020	3,288	3,288	2.600%	No	3,288
100	FY 2020	Bonneville Dam	COE	1977	2027	15,670	15,670	7.150%	No	15,670
101	FY 2020	Chief Joseph	COE	1977	2027	30,512	30,512	7.150%	No	30,512
102	FY 2020	Columbia Basin 3rd Powerhouse	BOR	1977	2027	7,964	7,964	7.150%	No	7,964

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 2020	Columbia Basin 3rd Powerhouse	BOR	1977	2027	42,764	42,764	7.150%	No	42,764
104	FY 2020	Lost Creek	COE	1977	2027	13,505	7,058	7.150%	No	7,058
105	FY 2020	Little Goose	COE	1985	2028	47	47	7.150%	No	47
106	FY 2020	Lower Granite	COE	1978	2028	40,611	40,611	7.150%	No	15,025
107		FY 2020 Subtotal:	-	-	-	320,201	313,754	-	-	288,168
108	FY 2021	Bureau Direct	-	2009	2021	25,000	25,000	3.999%	No	25,000
109	FY 2021	Bureau Direct	-	2010	2021	22,000	22,000	2.883%	No	22,000
110	FY 2021	Construction	-	2015	2021	2,887	2,887	3.900%	No	2,887
111	FY 2021	Construction	-	2015	2021	3,094	3,094	3.900%	No	3,094
112	FY 2021	Construction	-	2015	2021	3,368	3,368	3.900%	No	3,368
113	FY 2021	Construction	-	2015	2021	3,587	3,587	3.900%	No	3,587
114	FY 2021	Chief Joseph	COE	1978	2028	75,669	75,669	7.150%	No	75,669
115	FY 2021	Columbia Basin 3rd Powerhouse	BOR	1978	2028	7,896	7,896	7.150%	No	7,896
116	FY 2021	Columbia Basin 3rd Powerhouse	BOR	1978	2028	42,399	42,399	7.150%	No	42,399
117	FY 2021	Little Goose	COE	1978	2028	49,578	49,578	7.150%	No	49,578
118	FY 2021	Lower Granite	COE	1978	2028	40,611	25,586	7.150%	No	25,586
119	FY 2021	Chief Joseph	COE	1985	2029	16,372	16,372	7.150%	No	16,372
120	FY 2021	Chief Joseph	COE	1986	2029	5,363	5,363	7.150%	No	5,363
121	FY 2021	Chief Joseph	COE	1987	2029	3,036	3,036	7.150%	No	3,036
122	FY 2021	Chief Joseph	COE	1988	2029	2,722	2,722	7.150%	No	2,722
123	FY 2021	Chief Joseph	COE	1989	2029	2,227	2,227	7.150%	No	2,227
124	FY 2021	Chief Joseph	COE	1990	2029	4,505	4,505	7.150%	No	4,505
125	FY 2021	Libby	COE	1994	2029	286	152	7.150%	No	152
126	FY 2021	Lower Granite	COE	1994	2029	3,543	1,551	7.150%	No	1,551
127	FY 2021	Lower Monument	COE	1979	2029	40,669	40,669	7.150%	No	19,378
128	FY 2021	Lower Monument	COE	1985	2029	256	256	7.150%	No	256
129		FY 2021 Subtotal:	-	-	-	355,068	337,917	-	-	316,626
130	FY 2022	Chief Joseph	COE	1979	2029	60,079	60,079	7.150%	No	60,079
131	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1979	2029	15,666	15,666	7.150%	No	15,666
132	FY 2022	Columbia Basin 3rd Powerhouse	BOR	1979	2029	84,118	84,118	7.150%	No	84,118
133	FY 2022	Lower Monument	COE	1979	2029	40,669	21,291	7.150%	No	21,291
134	FY 2022	Dworshak	COE	1995	2030	218	218	7.150%	No	218
135	FY 2022	Hungry Horse Dam	BOR	1995	2030	536	536	7.150%	No	536
136	FY 2022	Hungry Horse Dam	BOR	1995	2030	1,198	1,195	7.150%	No	1,195
137	FY 2022	Libby	COE	1995	2030	15	15	7.150%	No	15
138	FY 2022	Libby	COE	1995	2030	41	41	7.150%	No	41
139	FY 2022	Libby	COE	1995	2030	94	94	7.150%	No	94
140	FY 2022	Bonneville 2nd Powerhouse	COE	1981	2031	455	455	7.150%	No	455
141	FY 2022	Bonneville 2nd Powerhouse	COE	1981	2031	40,964	40,964	7.150%	No	40,964
142	FY 2022	Bonneville Dam	COE	1996	2031	22	22	7.150%	No	22
143	FY 2022	Chief Joseph	COE	1996	2031	27	27	7.150%	No	27
144	FY 2022	Columbia Basin	BOR	1996	2031	109	109	7.150%	No	109
145	FY 2022	Columbia Basin	BOR	1996	2031	251	251	7.150%	No	251
146	FY 2022	Dworshak	COE	1996	2031	6	6	7.150%	No	6
147	FY 2022	Dworshak	COE	1996	2031	203	203	7.150%	No	203
148	FY 2022	Ice Harbor	COE	1996	2031	78	78	7.150%	No	78
149	FY 2022	Lost Creek	COE	1996	2031	31	31	7.150%	No	31
150	FY 2022	Lower Granite	COE	1996	2031	206	206	7.150%	No	206
151	FY 2022	Bonneville 2nd Powerhouse	COE	1982	2032	2,264	2,264	7.150%	No	2,264
152	FY 2022	Bonneville 2nd Powerhouse	COE	1982	2032	203,535	203,535	7.150%	No	121,730
153	FY 2022	Bonneville Dam	COE	1997	2032	518	518	7.150%	No	518
154	FY 2022	Chief Joseph	COE	1997	2032	166	166	7.150%	No	166
155	FY 2022	McNary	COE	1997	2032	30	30	7.150%	No	30
156		FY 2022 Subtotal:	-	-	-	451,499	432,118	-	-	350,312
157	FY 2023	Bureau Direct	-	2009	2023	25,000	25,000	4.391%	No	25,000
158	FY 2023	Conservation	-	2011	2023	40,000	40,000	0.046%	No	40,000
159	FY 2023	Conservation	-	2011	2023	35,000	35,000	3.932%	No	35,000
160	FY 2023	Conservation	-	2011	2023	40,000	40,000	3.206%	No	40,000
161	FY 2023	Bonneville 2nd Powerhouse	COE	1982	2032	203,535	81,805	7.150%	No	81,805
162	FY 2023	Bonneville 2nd Powerhouse	COE	1985	2033	9,138	9,138	7.150%	No	9,138
163	FY 2023	Bonneville 2nd Powerhouse	COE	1986	2033	30,578	30,578	7.150%	No	30,578
164	FY 2023	Bonneville 2nd Powerhouse	COE	1987	2033	2,801	2,801	7.150%	No	2,801
165	FY 2023	Bonneville 2nd Powerhouse	COE	1988	2033	1,271	1,271	7.150%	No	1,271
166	FY 2023	Bonneville 2nd Powerhouse	COE	1989	2033	1,232	1,232	7.150%	No	1,232
167	FY 2023	Bonneville 2nd Powerhouse	COE	1990	2033	1,588	1,588	7.150%	No	1,588
168	FY 2023	Columbia Basin 3rd Powerhouse	BOR	1983	2033	13,003	13,003	7.150%	No	5,739
169	FY 2023	Columbia Basin 3rd Powerhouse	BOR	1984	2033	3,160	3,160	7.150%	No	3,160
170	FY 2023	Columbia Basin 3rd Powerhouse	BOR	1984	2033	13,192	13,192	7.150%	No	13,192
171	FY 2023	Columbia Basin 3rd Powerhouse	BOR	1984	2033	16,965	16,965	7.150%	No	16,965
172	FY 2023	Columbia Basin 3rd Powerhouse	BOR	1985	2033	107	107	7.150%	No	107
173	FY 2023	Columbia Basin 3rd Powerhouse	BOR	1985	2033	2,060	2,060	7.150%	No	2,060
174	FY 2023	Columbia Basin 3rd Powerhouse	BOR	1985	2033	41,772	41,772	7.150%	No	41,772
175	FY 2023	Columbia Basin 3rd Powerhouse	BOR	1986	2033	1,851	1,851	7.150%	No	1,851
176	FY 2023	Columbia Basin 3rd Powerhouse	BOR	1986	2033	15,538	15,538	7.150%	No	15,538
177	FY 2023	Columbia Basin 3rd Powerhouse	BOR	1987	2033	1,730	1,730	7.150%	No	1,730

**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 2023	Columbia Basin 3rd Powerhouse	BOR	1987	2033	14,439	14,439	7.150%	No	14,439
179	FY 2023	Columbia Basin 3rd Powerhouse	BOR	1988	2033	2,294	2,294	7.150%	No	2,294
180	FY 2023	Columbia Basin 3rd Powerhouse	BOR	1988	2033	4,351	4,351	7.150%	No	4,351
181	FY 2023	Columbia Basin 3rd Powerhouse	BOR	1989	2033	10,902	10,902	7.150%	No	10,902
182	FY 2023	Columbia Basin 3rd Powerhouse	BOR	1990	2033	6,383	6,383	7.150%	No	6,383
183	FY 2023	Lower Snake Fish and Wildlife	LSFW	1983	2033	30,488	9,472	7.150%	No	9,472
184		FY 2023 Subtotal:	-	-	-	568,378	425,633		-	418,369
185	FY 2024	Conservation	-	2012	2024	15,000	15,000	2.500%	No	15,000
186	FY 2024	Fish and Wildlife	-	2009	2024	20,000	20,000	4.556%	No	20,000
187	FY 2024	Bonneville 2nd Powerhouse	COE	1983	2033	694	694	7.150%	No	694
188	FY 2024	Bonneville 2nd Powerhouse	COE	1983	2033	62,409	62,409	7.150%	No	62,409
189	FY 2024	Columbia Basin 3rd Powerhouse	BOR	1983	2033	712	712	7.150%	No	712
190	FY 2024	Columbia Basin 3rd Powerhouse	BOR	1983	2033	13,003	7,264	7.150%	No	7,264
191	FY 2024	John Day	COE	1995	2035	22	22	7.150%	No	22
192	FY 2024	John Day	COE	1995	2035	52	52	7.150%	No	52
193	FY 2024	John Day	COE	1995	2035	121	121	7.150%	No	121
194	FY 2024	Lower Snake Fish and Wildlife	LSFW	1985	2035	47,921	47,921	7.150%	No	47,921
195	FY 2024	Lower Monument	COE	1996	2036	264	264	7.150%	No	264
196	FY 2024	Lower Snake Fish and Wildlife	LSFW	1987	2037	72,536	72,536	7.150%	No	72,536
197	FY 2024	Libby	COE	1988	2038	18,043	14,781	7.150%	No	14,781
198	FY 2024	Lower Snake Fish and Wildlife	LSFW	1988	2038	805	805	7.150%	No	805
199	FY 2024	Little Goose	COE	1995	2040	17	17	7.150%	No	17
200	FY 2024	Little Goose	COE	1995	2040	450	450	7.150%	No	450
201	FY 2024	Little Goose	COE	1995	2040	733	733	7.150%	No	733
202	FY 2024	Lower Snake Fish and Wildlife	LSFW	1990	2040	1,557	1,557	7.150%	No	1,557
203	FY 2024	Ice Harbor	COE	1996	2041	371	371	7.150%	No	371
204	FY 2024	Lower Snake Fish and Wildlife	LSFW	1991	2041	4,411	4,411	7.150%	No	4,411
205	FY 2024	Lower Snake Fish and Wildlife	LSFW	1993	2043	71,632	71,632	7.150%	No	71,632
206	FY 2024	Bonneville 2nd Powerhouse	COE	1994	2044	5,700	5,700	7.150%	No	5,700
207	FY 2024	Chief Joseph	COE	1994	2044	4,280	4,017	7.150%	No	4,017
208	FY 2024	Columbia Basin 3rd Powerhouse	BOR	1994	2044	12,631	12,631	7.150%	No	12,631
209	FY 2024	Lower Snake Fish and Wildlife	LSFW	1994	2044	4,722	4,722	7.150%	No	4,722
210	FY 2024	Albeni Falls	COE	1995	2045	443	443	7.150%	No	443
211	FY 2024	Albeni Falls	COE	1995	2045	531	531	7.150%	No	531
212	FY 2024	Albeni Falls	COE	1995	2045	1,105	1,105	7.150%	No	1,105
213	FY 2024	Bonneville 2nd Powerhouse	COE	1995	2045	3,791	3,791	7.150%	No	3,791
214	FY 2024	Bonneville Dam	COE	1995	2045	243	243	7.150%	No	243
215	FY 2024	Bonneville Dam	COE	1995	2045	410	410	7.150%	No	410
216	FY 2024	Bonneville Dam	COE	1995	2045	440	440	7.150%	No	440
217	FY 2024	Chief Joseph	COE	1995	2045	147	147	7.150%	No	147
218	FY 2024	Chief Joseph	COE	1995	2045	562	562	7.150%	No	562
219	FY 2024	Chief Joseph	COE	1995	2045	712	712	7.150%	No	712
220	FY 2024	Chief Joseph	COE	1995	2045	784	784	7.150%	No	784
221	FY 2024	Columbia Basin	BOR	1995	2045	287	287	7.150%	No	287
222	FY 2024	Columbia Basin	BOR	1995	2045	2,511	2,453	7.150%	No	2,453
223	FY 2024	Columbia River Fish Mitigation	COE	1995	2045	43,343	39,282	7.150%	No	39,282
224	FY 2024	Detroit Lake/Big Cliff	COE	1995	2045	38	38	7.150%	No	38
225	FY 2024	Dworshak	COE	1995	2045	1,162	1,162	7.150%	No	1,162
226	FY 2024	Hungry Horse Dam	BOR	1995	2045	6,190	6,190	7.150%	No	6,190
227	FY 2024	John Day	COE	1995	2045	37	37	7.150%	No	37
228	FY 2024	John Day	COE	1995	2045	608	608	7.150%	No	608
229	FY 2024	John Day	COE	1995	2045	7,653	7,653	7.150%	No	7,653
230	FY 2024	Lookout Dam	COE	1995	2045	33	33	7.150%	No	33
231	FY 2024	Lookout Dam	COE	1995	2045	80	39	7.150%	No	39
232	FY 2024	Lost Creek	COE	1995	2045	94	94	7.150%	No	94
233	FY 2024	Lower Monument	COE	1995	2045	41	41	7.150%	No	41
234	FY 2024	Lower Monument	COE	1995	2045	99	99	7.150%	No	99
235	FY 2024	Lower Monument	COE	1995	2045	624	624	7.150%	No	624
236	FY 2024	Lower Monument	COE	1995	2045	1,122	1,122	7.150%	No	1,122
237	FY 2024	McNary	COE	1995	2045	16	16	7.150%	No	16
238	FY 2024	Boise	BOR	1996	2046	442	442	7.150%	No	442
239	FY 2024	Boise	BOR	1996	2046	656	656	7.150%	No	656
240	FY 2024	Bonneville 2nd Powerhouse	COE	1996	2046	376	376	7.150%	No	376
241	FY 2024	Bonneville Dam	COE	1996	2046	18	18	7.150%	No	18
242	FY 2024	Bonneville Dam	COE	1996	2046	18	18	7.150%	No	18
243	FY 2024	Bonneville Dam	COE	1996	2046	80	80	7.150%	No	80
244	FY 2024	Bonneville Dam	COE	1996	2046	109	109	7.150%	No	109
245	FY 2024	Bonneville Dam	COE	1996	2046	142	142	7.150%	No	142
246	FY 2024	Bonneville Dam	COE	1996	2046	223	223	7.150%	No	223
247	FY 2024	Bonneville Dam	COE	1996	2046	751	751	7.150%	No	751
248	FY 2024	Bonneville Dam	COE	1996	2046	1,322	1,322	7.150%	No	1,322
249	FY 2024	Chief Joseph	COE	1996	2046	3	3	7.150%	No	3
250	FY 2024	Chief Joseph	COE	1996	2046	4	4	7.150%	No	4
251	FY 2024	Chief Joseph	COE	1996	2046	355	355	7.150%	No	355
252	FY 2024	Chief Joseph	COE	1996	2046	729	729	7.150%	No	729

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253	FY 2024	Columbia Basin	BOR	1996	2046	368	368	7.150%	No	368
254	FY 2024	Columbia Basin	BOR	1996	2046	426	426	7.150%	No	426
255	FY 2024	Columbia River Fish Mitigation	COE	1996	2046	2,431	2,431	7.150%	No	2,431
256	FY 2024	Dworshak	COE	1996	2046	3	3	7.150%	No	3
257	FY 2024	Dworshak	COE	1996	2046	4	4	7.150%	No	4
258	FY 2024	Dworshak	COE	1996	2046	46	46	7.150%	No	46
259	FY 2024	Green Peter/Foster	COE	1996	2046	26	26	7.150%	No	26
260	FY 2024	Hills Creek	COE	1996	2046	28	28	7.150%	No	28
261	FY 2024	Hungry Horse Dam	BOR	1996	2046	2	2	7.150%	No	2
262	FY 2024	Hungry Horse Dam	BOR	1996	2046	15	15	7.150%	No	15
263	FY 2024	Little Goose	COE	1996	2046	10	10	7.150%	No	10
264	FY 2024	Little Goose	COE	1996	2046	10	10	7.150%	No	10
265	FY 2024	Little Goose	COE	1996	2046	211	211	7.150%	No	211
266	FY 2024	Little Goose	COE	1996	2046	241	241	7.150%	No	241
267	FY 2024	Little Goose	COE	1996	2046	520	520	7.150%	No	520
268	FY 2024	Little Goose	COE	1996	2046	3,909	3,909	7.150%	No	3,909
269	FY 2024	Lost Creek	COE	1996	2046	24	24	7.150%	No	24
270	FY 2024	Lower Granite	COE	1996	2046	9	9	7.150%	No	9
271	FY 2024	Lower Granite	COE	1996	2046	625	625	7.150%	No	625
272	FY 2024	Lower Monument	COE	1996	2046	10	10	7.150%	No	10
273	FY 2024	Lower Snake Fish and Wildlife	LSFW	1996	2046	12,085	12,085	7.150%	No	12,085
274	FY 2024	McNary	COE	1996	2046	619	619	7.150%	No	619
275	FY 2024	The Dalles	COE	1996	2046	1,991	1,991	7.150%	No	1,991
276	FY 2024	Columbia Basin	BOR	1997	2047	3,393	3,393	7.150%	No	460
277	FY 2024	Cougar	COE	1997	2047	26	26	7.150%	No	26
278	FY 2024	Dworshak	COE	1997	2047	7,588	7,588	7.150%	No	7,588
279	FY 2024	Hungry Horse Dam	BOR	1997	2047	111	111	7.150%	No	111
280	FY 2024	Ice Harbor	COE	1997	2047	67	67	7.150%	No	67
281	FY 2024	John Day	COE	1997	2047	179	179	7.150%	No	179
282	FY 2024	Libby	COE	1997	2047	660	660	7.150%	No	660
283	FY 2024	Little Goose	COE	1997	2047	1	1	7.150%	No	1
284	FY 2024	Lower Granite	COE	1997	2047	677	677	7.150%	No	677
285	FY 2024	Lower Snake Fish and Wildlife	LSFW	1997	2047	2,173	2,173	7.150%	No	2,173
286	FY 2024	Minidoka/Palisades	BOR	1997	2047	50,911	50,911	7.150%	No	50,911
287	FY 2024	FY 2024 Subtotal:	-	-	-	525,819	512,395	-	-	509,462
288	FY 2025	Conservation	-	2013	2025	15,591	15,591	3.000%	No	15,591
289	FY 2025	Conservation	-	2013	2025	22,187	22,187	3.000%	No	22,187
290	FY 2025	Conservation	-	2013	2025	23,587	23,587	3.000%	No	23,587
291	FY 2025	Albion Falls	COE	1997	2047	431	431	7.150%	No	431
292	FY 2025	Boise	BOR	1997	2047	2,266	2,266	7.150%	No	2,266
293	FY 2025	Bonneville Dam	COE	1997	2047	161	161	7.150%	No	161
294	FY 2025	Chief Joseph	COE	1997	2047	657	657	7.150%	No	657
295	FY 2025	Columbia Basin	BOR	1997	2047	3,393	2,933	7.150%	No	2,933
296	FY 2025	Bonneville Dam	COE	2000	2050	24,446	24,446	6.125%	No	24,446
297	FY 2025	Columbia River Fish Mitigation	COE	2000	2050	47,006	47,006	6.125%	No	47,006
298	FY 2025	Hills Creek	COE	2000	2050	2,630	2,630	6.125%	No	2,630
299	FY 2025	Ice Harbor	COE	2000	2050	548	548	6.125%	No	548
300	FY 2025	John Day	COE	2000	2050	2,761	2,761	6.125%	No	2,761
301	FY 2025	Lookout Dam	COE	2000	2050	5,098	5,098	6.125%	No	5,098
302	FY 2025	Lower Snake Fish and Wildlife	LSFW	2000	2050	1,529	1,529	6.125%	No	1,529
303	FY 2025	The Dalles	COE	2000	2050	2,588	2,588	6.125%	No	2,588
304	FY 2025	Bonneville Dam	COE	2001	2051	2,530	2,530	5.875%	No	2,530
305	FY 2025	Chief Joseph	COE	2001	2051	345	345	5.875%	No	345
306	FY 2025	Columbia Basin	BOR	2001	2051	69,226	69,226	5.875%	No	69,226
307	FY 2025	Columbia River Fish Mitigation	COE	2001	2051	6,168	6,168	5.875%	No	6,168
308	FY 2025	Detroit Lake/Big Cliff	COE	2001	2051	282	282	5.875%	No	282
309	FY 2025	Green Peter/Foster	COE	2001	2051	200	200	5.875%	No	200
310	FY 2025	Hills Creek	COE	2001	2051	8	8	5.875%	No	8
311	FY 2025	Hungry Horse Dam	BOR	2001	2051	552	552	5.875%	No	552
312	FY 2025	Ice Harbor	COE	2001	2051	764	764	5.875%	No	764
313	FY 2025	John Day	COE	2001	2051	619	619	5.875%	No	619
314	FY 2025	Libby	COE	2001	2051	5,562	5,562	5.875%	No	5,562
315	FY 2025	Little Goose	COE	2001	2051	4,608	4,608	5.875%	No	4,608
316	FY 2025	Lost Creek	COE	2001	2051	147	147	5.875%	No	147
317	FY 2025	Lower Granite	COE	2001	2051	2,025	2,025	5.875%	No	2,025
318	FY 2025	Lower Monument	COE	2001	2051	3,301	3,301	5.875%	No	3,301
319	FY 2025	Lower Snake Fish and Wildlife	LSFW	2001	2051	325	325	5.875%	No	325
320	FY 2025	McNary	COE	2001	2051	1,046	1,046	5.875%	No	1,046
321	FY 2025	Minidoka/Palisades	BOR	2001	2051	42	42	5.875%	No	42
322	FY 2025	Rogue River Projects - Green Springs	BOR	2001	2051	11,145	11,145	5.875%	No	11,145
323	FY 2025	Yakima Roza	BOR	2001	2051	15	14	5.875%	No	14
324	FY 2025	Bonneville Dam	COE	2002	2052	448	448	5.500%	No	448
325	FY 2025	Chief Joseph	COE	2002	2052	2	2	5.500%	No	2
326	FY 2025	Columbia River Fish Mitigation	COE	2002	2052	8,797	8,797	5.500%	No	8,797
327	FY 2025	Detroit Lake/Big Cliff	COE	2002	2052	18	18	5.500%	No	18

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328	FY 2025	Dworshak	COE	2002	2052	199	199	5.500%	No	199
329	FY 2025	Hills Creek	COE	2002	2052	2	2	5.500%	No	2
330	FY 2025	Ice Harbor	COE	2002	2052	1,014	1,014	5.500%	No	1,014
331	FY 2025	Little Goose	COE	2002	2052	27	27	5.500%	No	27
332	FY 2025	Lower Granite	COE	2002	2052	1,275	1,275	5.500%	No	1,275
333	FY 2025	Lower Monument	COE	2002	2052	29	29	5.500%	No	29
334	FY 2025	Lower Snake Fish and Wildlife	LSFW	2002	2052	890	890	5.500%	No	890
335	FY 2025	The Dalles	COE	2002	2052	1,226	1,226	5.500%	No	1,226
336	FY 2025	McNary	COE	2003	2053	97	97	5.750%	No	97
337	FY 2025	Albeni Falls	-	2016	2061	191,022	191,022	5.400%	No	191,022
338	FY 2025	Albeni Falls	-	2017	2062	184,494	184,494	5.400%	No	184,494
339	FY 2025	Albeni Falls	-	2018	2063	185,357	185,357	5.400%	No	112,903
340		FY 2025 Subtotal:	-	-	-	838,686	838,225	-	-	765,771
341	FY 2026	Conservation	-	2013	2026	13,835	13,835	3.000%	No	13,835
342	FY 2026	Conservation	-	2014	2026	13,835	13,835	3.500%	No	13,835
343	FY 2026	Conservation	-	2014	2026	15,591	15,591	3.500%	No	15,591
344	FY 2026	Conservation	-	2014	2026	22,187	22,187	3.500%	No	22,187
345	FY 2026	Conservation	-	2014	2026	23,587	23,587	3.500%	No	23,587
346	FY 2026	Construction	-	2014	2026	3,502	3,502	2.600%	No	3,502
347	FY 2026	Fish and Wildlife	-	2011	2026	50,000	50,000	4.44	No	50,000
348	FY 2026	Fish and Wildlife	-	2011	2026	15,000	15,000	4.398%	No	15,000
349	FY 2026	Fish and Wildlife	-	2011	2026	15,000	15,000	4.205%	No	15,000
350	FY 2026	Albeni Falls	-	2018	2063	185,357	72,454	5.400%	No	72,454
351	FY 2026	Albeni Falls	-	2019	2064	182,808	182,808	5.400%	No	182,808
352	FY 2026	Albeni Falls	-	2020	2065	180,336	180,336	5.400%	No	180,336
353	FY 2026	Albeni Falls	-	2021	2066	178,641	178,641	5.400%	No	178,641
354	FY 2026	Albeni Falls	-	2022	2067	171,569	171,569	5.400%	No	3,213
355		FY 2026 Subtotal:	-	-	-	1,071,248	958,345	-	-	789,989
356	FY 2027	Bureau Direct	-	2012	2027	25,000	25,000	3.590%	No	25,000
357	FY 2027	Conservation	-	2015	2027	16,926	16,926	4.400%	No	16,926
358	FY 2027	Conservation	-	2015	2027	19,074	19,074	4.400%	No	19,074
359	FY 2027	Conservation	-	2015	2027	27,144	27,144	4.400%	No	27,144
360	FY 2027	Conservation	-	2015	2027	28,856	28,856	4.400%	No	28,856
361	FY 2027	Fish and Wildlife	-	2012	2027	11,000	11,000	2.780%	No	11,000
362	FY 2027	Albeni Falls	-	2022	2067	171,569	168,356	5.400%	No	168,356
363	FY 2027	Albeni Falls	-	2023	2068	171,569	171,569	5.400%	No	171,569
364	FY 2027	Albeni Falls	-	2024	2069	171,569	171,569	5.400%	No	171,569
365	FY 2027	Albeni Falls	-	2025	2070	171,569	171,569	5.400%	No	171,569
366	FY 2027	Albeni Falls	-	2026	2071	171,569	171,569	5.400%	No	31,659
367		FY 2027 Subtotal:	-	-	-	985,845	982,632	-	-	842,723
368	FY 2028	Fish and Wildlife	-	2013	2028	11,204	11,204	3.200%	No	11,204
369	FY 2028	Fish and Wildlife	-	2013	2028	13,205	13,205	3.200%	No	13,205
370	FY 2028	Fish and Wildlife	-	2013	2028	15,026	15,026	3.200%	No	15,026
371	FY 2028	Fish and Wildlife	-	2013	2028	27,710	27,710	3.200%	No	27,710
372	FY 2028	Bonneville Dam	COE	1999	2049	19,368	19,368	5.375%	No	19,368
373	FY 2028	Columbia River Fish Mitigation	COE	1999	2049	14,115	14,115	5.375%	No	14,115
374	FY 2028	Dworshak	COE	1999	2049	630	630	5.375%	No	630
375	FY 2028	Ice Harbor	COE	1999	2049	5,516	5,516	5.375%	No	5,516
376	FY 2028	John Day	COE	1999	2049	3,510	3,510	5.375%	No	3,510
377	FY 2028	Lower Granite	COE	1999	2049	856	856	5.375%	No	856
378	FY 2028	Lower Snake Fish and Wildlife	LSFW	1999	2049	7	7	5.375%	No	7
379	FY 2028	Bonneville Dam	COE	2003	2053	4,581	4,581	5.125%	No	4,581
380	FY 2028	Chief Joseph	COE	2003	2053	992	992	5.125%	No	992
381	FY 2028	Columbia River Fish Mitigation	COE	2003	2053	68,440	68,440	5.125%	No	68,440
382	FY 2028	Detroit Lake/Big Cliff	COE	2003	2053	223	223	5.125%	No	223
383	FY 2028	Dworshak	COE	2003	2053	761	761	5.125%	No	761
384	FY 2028	Ice Harbor	COE	2003	2053	50	50	5.125%	No	50
385	FY 2028	Little Goose	COE	2003	2053	146	146	5.125%	No	146
386	FY 2028	Lookout Dam	COE	2003	2053	135	135	5.125%	No	135
387	FY 2028	Lower Granite	COE	2003	2053	42	42	5.125%	No	42
388	FY 2028	Lower Monument	COE	2003	2053	22	22	5.125%	No	22
389	FY 2028	Lower Snake Fish and Wildlife	LSFW	2003	2053	98	98	5.125%	No	98
390	FY 2028	Bonneville Dam	COE	2004	2054	26,741	26,741	5.375%	No	26,741
391	FY 2028	Columbia River Fish Mitigation	COE	2004	2054	60,581	60,581	5.375%	No	60,581
392	FY 2028	Cougar	COE	2004	2054	3,622	3,622	5.375%	No	3,622
393	FY 2028	Ice Harbor	COE	2004	2054	3,321	3,321	5.375%	No	3,321
394	FY 2028	John Day	COE	2004	2054	2,830	2,830	5.375%	No	2,830
395	FY 2028	Little Goose	COE	2004	2054	67	67	5.375%	No	67
396	FY 2028	Lower Monument	COE	2004	2054	3,423	3,423	5.375%	No	3,423
397	FY 2028	Lower Snake Fish and Wildlife	LSFW	2004	2054	230	230	5.375%	No	230
398	FY 2028	McNary	COE	2004	2054	6,138	6,138	5.375%	No	6,138
399	FY 2028	The Dalles	COE	2004	2054	182	182	5.375%	No	182
400	FY 2028	Columbia River Fish Mitigation	COE	2005	2055	52,039	52,039	5.125%	No	52,039
401	FY 2028	Cougar	COE	2005	2055	8,123	8,123	5.125%	No	1,940
402	FY 2028	Detroit Lake/Big Cliff	COE	2005	2055	1,031	1,031	5.125%	No	1,031

**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
403	FY 2028 Dworshak	COE	2005	2055	713	713	5.125%	No	713
404	FY 2028 Hills Creek	COE	2005	2055	46	46	5.125%	No	46
405	FY 2028 Hungry Horse Dam	BOR	2005	2055	2,951	2,951	5.125%	No	2,951
406	FY 2028 John Day	COE	2005	2055	2,827	2,827	5.125%	No	2,827
407	FY 2028 Lookout Dam	COE	2005	2055	7,355	7,355	5.125%	No	7,355
408	FY 2028 Lower Granite	COE	2005	2055	393	393	5.125%	No	393
409	FY 2028 Lower Monument	COE	2005	2055	527	527	5.125%	No	527
410	FY 2028 Lower Snake Fish and Wildlife	LSFW	2005	2055	4	4	5.125%	No	4
411	FY 2028 McNary	COE	2005	2055	550	550	5.125%	No	550
412	FY 2028 The Dalles	COE	2005	2055	36,019	36,019	5.125%	No	36,019
413	FY 2028 Yakima Chandler/Kenniwick	BOR	2005	2055	833	833	5.125%	No	833
414	FY 2028 Albeni Falls	-	2026	2071	171,569	139,910	5.400%	No	139,910
415	FY 2028 Albeni Falls	-	2027	2072	171,569	171,569	5.400%	No	171,569
416	FY 2028 Albeni Falls	-	2028	2073	171,569	171,569	5.400%	No	171,569
417	FY 2028 Subtotal:	-	-	-	921,886	890,227	-	-	884,044
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	10,058	10,058	3.700%	No	10,058
420	FY 2029 Fish and Wildlife	-	2014	2029	11,854	11,854	3.700%	No	11,854
421	FY 2029 Fish and Wildlife	-	2014	2029	13,488	13,488	3.700%	No	13,488
422	FY 2029 Fish and Wildlife	-	2014	2029	24,875	24,875	3.700%	No	24,875
423	FY 2029 Bureau Direct	-	2011	2038	30,000	30,000	4.700%	No	30,000
424	FY 2029 Bureau Direct	-	2009	2039	25,000	25,000	5.192%	No	25,000
425	FY 2029 Bureau Direct	-	2011	2039	35,000	35,000	5.040%	No	35,000
426	FY 2029 Bureau Direct	-	2011	2040	50,000	50,000	4.995%	No	50,000
427	FY 2029 Bureau Direct	-	2015	2045	14,135	14,135	4.900%	No	14,135
428	FY 2029 Bureau Direct	-	2015	2045	16,427	16,427	4.900%	No	16,427
429	FY 2029 Bureau Direct	-	2015	2045	17,279	17,279	4.900%	No	17,279
430	FY 2029 Bureau Direct	-	2015	2045	18,719	18,719	4.900%	No	18,719
431	FY 2029 Bureau Direct	-	2015	2045	19,077	19,077	4.900%	No	19,077
432	FY 2029 Bureau Direct	-	2015	2045	19,561	19,561	4.900%	No	19,561
433	FY 2029 Bureau Direct	-	2015	2045	22,316	19,561	4.900%	No	19,561
434	FY 2029 Bureau Direct	-	2015	2045	20,771	20,771	4.900%	No	20,771
435	FY 2029 Bureau Direct	-	2015	2045	21,140	21,140	4.900%	No	21,140
436	FY 2029 Bureau Direct	-	2015	2045	22,258	22,258	4.900%	No	22,258
437	FY 2029 Bureau Direct	-	2015	2045	22,958	22,958	4.900%	No	22,958
438	FY 2029 Bureau Direct	-	2015	2045	24,368	24,368	4.900%	No	24,368
439	FY 2029 Albeni Falls	COE	2005	2055	481	481	5.125%	No	481
440	FY 2029 Boise	BOR	2005	2055	903	903	5.125%	No	903
441	FY 2029 Bonneville Dam	COE	2005	2055	19,725	19,725	5.125%	No	19,725
442	FY 2029 Columbia Basin	BOR	2005	2055	10,963	10,963	5.125%	No	10,963
443	FY 2029 Cougar	COE	2005	2055	8,123	6,183	5.125%	No	6,183
444	FY 2029 Columbia River Fish Mitigation	COE	2006	2056	366,395	366,395	4.500%	No	95,347
445	FY 2029 John Day	COE	2006	2056	601	601	4.500%	No	601
446	FY 2029 Lower Monument	COE	2006	2056	285	285	4.500%	No	285
447	FY 2029 Lower Snake Fish and Wildlife	LSFW	2006	2056	379	379	4.500%	No	379
448	FY 2029 McNary	COE	2006	2056	4,080	4,080	4.500%	No	4,080
449	FY 2029 The Dalles	COE	2006	2056	2,030	2,030	4.500%	No	2,030
450	FY 2029 Boise	BOR	2007	2057	76	76	5.000%	No	76
451	FY 2029 Bonneville Dam	COE	2007	2057	1,124	1,124	5.000%	No	1,124
452	FY 2029 Columbia Basin	BOR	2007	2057	929	929	5.000%	No	929
453	FY 2029 Columbia River Fish Mitigation	COE	2007	2057	53,525	53,525	5.000%	No	53,525
454	FY 2029 Cougar	COE	2007	2057	120	120	5.000%	No	120
455	FY 2029 Hungry Horse Dam	BOR	2007	2057	294	294	5.000%	No	294
456	FY 2029 John Day	COE	2007	2057	233	233	5.000%	No	233
457	FY 2029 Lookout Dam	COE	2007	2057	572	572	5.000%	No	572
458	FY 2029 The Dalles	COE	2007	2057	140	140	5.000%	No	140
459	FY 2029 Boise	BOR	2008	2058	64	64	4.875%	No	64
460	FY 2029 Bonneville Dam	COE	2008	2058	14,609	14,609	4.875%	No	14,609
461	FY 2029 Chief Joseph	COE	2008	2058	3,500	3,500	4.875%	No	3,500
462	FY 2029 Columbia Basin	BOR	2008	2058	835	835	4.875%	No	835
463	FY 2029 Columbia River Fish Mitigation	COE	2008	2058	36,554	36,554	4.875%	No	36,554
464	FY 2029 Dworshak	COE	2008	2058	10	10	4.875%	No	10
465	FY 2029 Hungry Horse Dam	BOR	2008	2058	76	76	4.875%	No	76
466	FY 2029 Ice Harbor	COE	2008	2058	14	14	4.875%	No	14
467	FY 2029 Libby	COE	2008	2058	1,567	1,567	4.875%	No	1,567
468	FY 2029 Little Goose	COE	2008	2058	13	13	4.875%	No	13
469	FY 2029 Lower Granite	COE	2008	2058	24	24	4.875%	No	24
470	FY 2029 Lower Monument	COE	2008	2058	9	9	4.875%	No	9
471	FY 2029 Lower Snake Fish and Wildlife	LSFW	2008	2058	74	74	4.875%	No	74
472	FY 2029 McNary	COE	2008	2058	215	215	4.875%	No	215
473	FY 2029 The Dalles	COE	2008	2058	1,652	1,652	4.875%	No	1,652
474	FY 2029 Columbia River Fish Mitigation	-	2015	2065	48,758	48,758	4.940%	No	48,758
475	FY 2029 Albeni Falls	-	2029	2074	171,569	171,569	5.400%	No	171,569
476	FY 2029 Subtotal:	-	-	-	1,194,803	1,190,108	-	-	919,060
477	FY 2030 Fish and Wildlife	-	2015	2030	6,976	6,976	4.500%	No	6,976

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Fiscal Year	Project	Appropriation Type	In Service	Due Date	Original Principal	Current Balance	Rate	Rollover	Amount Amortized	
478	FY 2030	Fish and Wildlife	-	2015	2030	8,222	8,222	4.500%	No	8,222
479	FY 2030	Fish and Wildlife	-	2015	2030	9,356	9,356	4.500%	No	9,356
480	FY 2030	Fish and Wildlife	-	2015	2030	17,254	17,254	4.500%	No	17,254
481	FY 2030	Bureau Direct	-	2011	2036	30,000	30,000	4.629%	No	30,000
482	FY 2030	Bureau Direct	-	2014	2044	16,721	16,721	4.400%	No	16,721
483	FY 2030	Bureau Direct	-	2014	2044	19,048	19,048	4.400%	No	19,048
484	FY 2030	Bureau Direct	-	2014	2044	19,422	19,422	4.400%	No	19,422
485	FY 2030	Bureau Direct	-	2014	2044	19,910	19,910	4.400%	No	19,910
486	FY 2030	Bureau Direct	-	2014	2044	21,153	21,153	4.400%	No	997
487	FY 2030	Bureau Direct	-	2014	2044	21,533	21,533	4.400%	No	21,533
488	FY 2030	Bureau Direct	-	2014	2044	22,664	22,664	4.400%	No	22,664
489	FY 2030	Bureau Direct	-	2014	2044	22,714	22,714	4.400%	No	22,714
490	FY 2030	Bureau Direct	-	2014	2044	23,378	23,378	4.400%	No	23,378
491	FY 2030	Bureau Direct	-	2014	2044	24,819	24,819	4.400%	No	24,819
492	FY 2030	Boise	BOR	2006	2056	15	15	4.500%	No	15
493	FY 2030	Bonneville Dam	COE	2006	2056	2,628	2,628	4.500%	No	2,628
494	FY 2030	Columbia Basin	BOR	2006	2056	1,987	1,987	4.500%	No	1,987
495	FY 2030	Columbia River Fish Mitigation	COE	2006	2056	366,395	271,048	4.500%	No	271,048
496	FY 2030	Cougar	COE	2006	2056	109	109	4.500%	No	109
497	FY 2030	Dworshak	COE	2006	2056	73	73	4.500%	No	73
498	FY 2030	Albani Falls	COE	2009	2059	57	57	4.375%	No	57
499	FY 2030	Boise	BOR	2009	2059	2	2	4.375%	No	2
500	FY 2030	Bonneville Dam	COE	2009	2059	2,744	2,744	4.375%	No	2,744
501	FY 2030	Chief Joseph	COE	2009	2059	24,727	24,727	4.375%	No	24,727
502	FY 2030	Columbia Basin	BOR	2009	2059	1,338	1,338	4.375%	No	1,338
503	FY 2030	Columbia River Fish Mitigation	COE	2009	2059	103,203	103,203	4.375%	No	103,203
504	FY 2030	Cougar	COE	2009	2059	22	22	4.375%	No	22
505	FY 2030	Dworshak	COE	2009	2059	2,480	2,480	4.375%	No	2,480
506	FY 2030	Hungry Horse Dam	BOR	2009	2059	60	60	4.375%	No	60
507	FY 2030	Ice Harbor	COE	2009	2059	2,615	2,615	4.375%	No	2,615
508	FY 2030	John Day	COE	2009	2059	1,548	1,548	4.375%	No	1,548
509	FY 2030	Little Goose	COE	2009	2059	3,171	3,171	4.375%	No	3,171
510	FY 2030	Lower Granite	COE	2009	2059	5,669	5,669	4.375%	No	5,669
511	FY 2030	Lower Monument	COE	2009	2059	2,332	2,332	4.375%	No	2,332
512	FY 2030	Lower Snake Fish and Wildlife	LSFW	2009	2059	1,540	1,540	4.375%	No	1,540
513	FY 2030	Yakima Chandler/Kenniwick	BOR	2009	2059	15	15	4.375%	No	15
514	FY 2030	Columbia River Fish Mitigation	-	2014	2064	99,343	99,343	4.370%	No	99,343
515	FY 2030	Albani Falls	-	2030	2075	171,569	171,569	5.400%	No	171,569
516		FY 2030 Subtotal:	-	-	-	1,076,813	981,466	-	-	961,310
517	FY 2031	Bureau Direct	-	2011	2035	20,000	20,000	4.211%	No	20,000
518	FY 2031	Bureau Direct	-	2011	2037	30,000	30,000	4.208%	No	30,000
519	FY 2031	Bureau Direct	-	2012	2038	15,000	15,000	3.860%	No	15,000
520	FY 2031	Conservation	-	2012	2038	55,000	55,000	3.840%	No	39,719
521	FY 2031	Fish and Wildlife	-	2012	2038	30,000	30,000	3.893%	No	30,000
522	FY 2031	Bureau Direct	-	2012	2039	35,000	35,000	3.860%	No	35,000
523	FY 2031	Bureau Direct	-	2011	2041	30,000	30,000	3.825%	No	30,000
524	FY 2031	Bureau Direct	-	2013	2043	14,304	14,304	4.000%	No	14,304
525	FY 2031	Bureau Direct	-	2013	2043	16,614	16,614	4.000%	No	16,614
526	FY 2031	Bureau Direct	-	2013	2043	17,477	17,477	4.000%	No	17,477
527	FY 2031	Bureau Direct	-	2013	2043	18,924	18,924	4.000%	No	18,924
528	FY 2031	Bureau Direct	-	2013	2043	19,300	19,300	4.000%	No	19,300
529	FY 2031	Bureau Direct	-	2013	2043	19,783	19,783	4.000%	No	19,783
530	FY 2031	Bureau Direct	-	2013	2043	21,022	21,022	4.000%	No	21,022
531	FY 2031	Bureau Direct	-	2013	2043	21,402	21,402	4.000%	No	21,402
532	FY 2031	Bureau Direct	-	2013	2043	22,523	22,523	4.000%	No	22,523
533	FY 2031	Bureau Direct	-	2013	2043	22,569	22,569	4.000%	No	22,569
534	FY 2031	Bureau Direct	-	2013	2043	23,232	23,232	4.000%	No	23,232
535	FY 2031	Bureau Direct	-	2013	2043	24,667	24,667	4.000%	No	24,667
536	FY 2031	Bureau Direct	-	2014	2044	14,393	14,393	4.400%	No	14,393
537	FY 2031	Bureau Direct	-	2014	2044	17,589	17,589	4.400%	No	17,589
538	FY 2031	Bureau Direct	-	2014	2044	21,153	20,156	4.400%	No	20,156
539	FY 2031	Albani Falls	COE	2010	2060	42	42	4.250%	No	42
540	FY 2031	Bonneville Dam	COE	2010	2060	1,425	1,425	4.250%	No	1,425
541	FY 2031	Columbia Basin	BOR	2010	2060	877	877	4.250%	No	877
542	FY 2031	Columbia River Fish Mitigation	COE	2010	2060	56,832	56,832	4.250%	No	56,832
543	FY 2031	Cougar	COE	2010	2060	59	59	4.250%	No	59
544	FY 2031	Hungry Horse Dam	BOR	2010	2060	779	779	4.250%	No	779
545	FY 2031	Ice Harbor	COE	2010	2060	207	207	4.250%	No	207
546	FY 2031	John Day	COE	2010	2060	356	356	4.250%	No	356
547	FY 2031	Libby	COE	2010	2060	40	40	4.250%	No	40
548	FY 2031	Little Goose	COE	2010	2060	30	30	4.250%	No	30
549	FY 2031	Lower Granite	COE	2010	2060	1,156	1,156	4.250%	No	1,156
550	FY 2031	Lower Snake Fish and Wildlife	LSFW	2010	2060	6	6	4.250%	No	6
551	FY 2031	Bonneville Dam	COE	2011	2061	5,206	5,206	3.750%	No	5,206
552	FY 2031	Chief Joseph	COE	2011	2061	27	27	3.750%	No	27

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(\$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 2031	Columbia Basin	BOR	2011	2061	1,740	1,740	3.750%	No	1,740
554	FY 2031	Columbia River Fish Mitigation	COE	2011	2061	103,478	103,478	3.750%	No	103,478
555	FY 2031	Cougar	COE	2011	2061	549	549	3.750%	No	549
556	FY 2031	Green Peter/Foster	COE	2011	2061	87	87	3.750%	No	87
557	FY 2031	Hills Creek	COE	2011	2061	12	12	3.750%	No	12
558	FY 2031	Hungry Horse Dam	BOR	2011	2061	506	506	3.750%	No	506
559	FY 2031	Ice Harbor	COE	2011	2061	491	491	3.750%	No	491
560	FY 2031	John Day	COE	2011	2061	175	175	3.750%	No	175
561	FY 2031	Libby	COE	2011	2061	174	174	3.750%	No	174
562	FY 2031	Lookout Dam	COE	2011	2061	17	17	3.750%	No	17
563	FY 2031	Lower Granite	COE	2011	2061	8	8	3.750%	No	8
564	FY 2031	Lower Snake Fish and Wildlife	LSFW	2011	2061	141	141	3.750%	No	141
565	FY 2031	McNary	COE	2011	2061	523	523	3.750%	No	523
566	FY 2031	Columbia River Fish Mitigation	-	2013	2063	144,966	144,966	4.030%	No	144,966
567	FY 2031	Albeni Falls	-	2031	2076	171,569	171,569	5.400%	No	171,569
568		FY 2031 Subtotal:	-	-	-	987,035	1,000,431	-	-	985,151
569	FY 2032	Bureau Direct	-	2012	2034	55,000	55,000	3.780%	No	55,000
570	FY 2032	Conservation	-	2012	2038	55,000	15,281	3.840%	No	15,281
571	FY 2032	Bureau Direct	-	2012	2041	50,000	50,000	3.666%	No	50,000
572	FY 2032	Fish and Wildlife	-	2012	2041	12,000	12,000	3.666%	No	12,000
573	FY 2032	Bureau Direct	-	2012	2042	44,000	44,000	3.590%	No	44,000
574	FY 2032	Cougar	COE	2009	2059	47	47	-	No	47
575	FY 2032	Columbia River Fish Mitigation	COE	2012	2062	93,715	93,715	3.380%	No	93,715
576	FY 2032	Albeni Falls	-	2032	2077	171,569	171,569	5.400%	No	171,569
577		FY 2032 Subtotal:	-	-	-	481,331	441,611	-	-	441,611
578	FY 2033	Albeni Falls	-	2033	2078	171,569	171,569	5.400%	No	171,569
579		FY 2033 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
580	FY 2034	Albeni Falls	-	2034	2079	171,569	171,569	5.400%	No	171,569
581		FY 2034 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
582	FY 2035	Albeni Falls	-	2035	2080	171,569	171,569	5.400%	No	171,569
583		FY 2035 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
584	FY 2036	Albeni Falls	-	2036	2081	171,569	171,569	5.400%	No	171,569
585		FY 2036 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
586	FY 2037	Albeni Falls	-	2037	2082	171,569	171,569	5.400%	No	171,569
587		FY 2037 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
588	FY 2038	Albeni Falls	-	2038	2083	171,569	171,569	5.400%	No	171,569
589		FY 2038 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
590	FY 2039	Albeni Falls	-	2039	2084	171,569	171,569	5.400%	No	171,569
591		FY 2039 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
592	FY 2040	Albeni Falls	-	2040	2085	171,569	171,569	5.400%	No	171,569
593		FY 2040 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
594	FY 2041	Albeni Falls	-	2041	2086	171,569	171,569	5.400%	No	171,569
595		FY 2041 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
596	FY 2042	Albeni Falls	-	2042	2087	171,569	171,569	5.400%	No	171,569
597		FY 2042 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
598	FY 2043	Albeni Falls	-	2043	2088	171,569	171,569	5.400%	No	171,569
599		FY 2043 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
600	FY 2044	Albeni Falls	-	2044	2089	171,569	171,569	5.400%	No	171,569
601		FY 2044 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
602	FY 2045	Albeni Falls	-	2045	2090	171,569	171,569	5.400%	No	171,569
603		FY 2045 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
604	FY 2046	Albeni Falls	-	2046	2091	171,569	171,569	5.400%	No	171,569
605		FY 2046 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
606	FY 2047	Albeni Falls	-	2047	2092	171,569	171,569	5.400%	No	171,569
607		FY 2047 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
608	FY 2048	Albeni Falls	-	2048	2093	171,569	171,569	5.400%	No	171,569
609		FY 2048 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
610	FY 2049	Albeni Falls	-	2049	2094	171,569	171,569	5.400%	No	171,569
611		FY 2049 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
612	FY 2050	Albeni Falls	-	2050	2095	171,569	171,569	5.400%	No	171,569
613		FY 2050 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
614	FY 2051	Albeni Falls	-	2051	2096	171,569	171,569	5.400%	No	171,569
615		FY 2051 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
616	FY 2052	Albeni Falls	-	2052	2097	171,569	171,569	5.400%	No	171,569
617		FY 2052 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
	FY 2053	Albeni Falls	-	2053	2098	171,569	171,569	5.400%	No	171,569
		FY 2053 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
	FY 2054	Albeni Falls	-	2054	2099	171,569	171,569	5.400%	No	171,569
		FY 2054 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
	FY 2055	Albeni Falls	-	2055	2100	171,569	171,569	5.400%	No	171,569
		FY 2055 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
	FY 2056	Albeni Falls	-	2056	2101	171,569	171,569	5.400%	No	171,569
		FY 2056 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
	FY 2057	Albeni Falls	-	2057	2102	171,569	171,569	5.400%	No	171,569
		FY 2057 Subtotal:	-	-	-	171,569	171,569	-	-	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
FY 2058	Albeni Falls	-	2058	2103	171,569	171,569	5.400%	No	171,569
	FY 2058 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
FY 2059	Albeni Falls	-	2059	2104	171,569	171,569	5.400%	No	171,569
	FY 2059 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
FY 2060	Albeni Falls	-	2060	2105	171,569	171,569	5.400%	No	171,569
	FY 2060 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
FY 2061	Albeni Falls	-	2061	2106	171,569	171,569	5.400%	No	171,569
	FY 2061 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
FY 2062	Albeni Falls	-	2062	2107	171,569	171,569	5.400%	No	171,569
	FY 2062 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
FY 2063	Albeni Falls	-	2063	2108	171,569	171,569	5.400%	No	171,569
	FY 2063 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
FY 2064	Albeni Falls	-	2064	2109	171,569	171,569	5.400%	No	171,569
	FY 2064 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
FY 2065	Albeni Falls	-	2065	2110	171,569	171,569	5.400%	No	171,569
	FY 2065 Subtotal:	-	-	-	171,569	171,569	-	-	171,569
Grand Total:		-	-	-	16,774,297	16,093,132			15,092,755

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	54	54	54	54	54	1	-
3	Columbia Basin	5,493	5492.62	5,493	5492.62	5,493	5,487	5,487	5,487	5,487	5,487	5,462	5,462	899	899	899	899	899	250	103
4	Columbia Basin 3rd Powerhouse	32,565	32,565	32,565	32,565	32,565	29,405	29,405	29,405	29,350	21,737	11,518	10,132	286	-	-	-	-	-	-
5	Hungry Horse Dam	832	832	832	832	832	832	832	832	832	832	709	709	224	224	224	224	55	52	
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	-	-	-	-	-	-	-
7	Rogue River Projects - Green Springs	655	655	655	655	655	655	655	655	655	655	655	655	-	-	-	-	-	-	-
8	Yakima Chandler/Kenniwick	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	1	-
9	Yakima Roza	1	1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-
10	Bureau of Reclamation Subtotal:	43,526	43,526	43,526	43,526	43,526	40,361	40,361	40,361	40,306	32,692	22,474	20,939	11,093	1,221	1,221	1,221	1,221	307	155
11	Albeni Falls	208	208	208	208	10,524	20,486	30,496	40,367	50,105	59,752	69,017	78,281	87,546	79,672	55,430	25,926	29	4	2
12	Bonneville 2nd Powerhouse	26,226	26,226	26,226	26,226	26,226	26,226	26,226	26,226	26,226	26,226	8,348	705	-	-	-	-	-	-	-
13	Bonneville Dam	8,096	8,096	8,096	8,096	8,096	8,096	8,096	8,096	8,096	6,976	6,976	6,937	6,937	4,987	4,987	4,987	2,508	494	256
14	Chief Joseph	16,243	16,243	16,243	16,243	16,243	16,243	16,243	16,243	16,243	14,061	2,280	1,895	1,895	1,304	1,304	1,304	1,304	1,083	1
15	Columbia River Fish Mitigation	51,822	57,664	62,005	64,414	64,414	64,414	64,414	64,414	64,414	64,414	64,414	64,414	64,414	57,706	57,706	57,706	52,793	40,650	15,305
16	Cougar	648	648	648	648	648	648	648	648	648	648	648	648	646	646	646	646	451	29	23
17	Detroit Lake/Big Cliff	85	85	85	85	85	85	85	85	85	85	85	85	64	64	64	64	64	-	-
18	Dworshak	7,503	7,503	948	892	892	892	892	892	892	892	862	862	222	222	222	188	112	-	-
19	Green Peter/Foster	17	17	17	17	17	17	17	17	17	17	17	17	3	3	3	3	3	3	3
20	Hills Creek	166	166	166	166	166	166	166	166	166	166	166	166	3	3	3	3	3	-	-
21	Ice Harbor	2,272	2,272	2,272	2,272	2,272	2,271	2,271	2,271	2,271	791	791	785	759	620	620	620	142	142	27
22	John Day	1,439	1,439	1,439	1,439	1,439	1,439	1,439	1,439	1,439	1,439	1,439	1,425	614	614	614	273	116	22	22
23	Libby	16,745	16,745	16,745	16,745	16,745	13,170	13,170	8,513	1,537	1,537	1,526	1,515	459	85	85	85	85	8	8
24	Little Goose	4,408	4,408	4,408	4,408	4,408	4,408	4,408	4,408	860	860	860	774	152	152	152	141	140	1	1
25	Lookout Dam	731	731	731	731	731	731	731	731	731	731	731	731	413	413	413	406	1	1	1
26	Lost Creek	1,006	1,006	1,006	1,006	1,006	1,006	1,006	1,006	19	19	17	17	-	-	-	-	-	-	-
27	Lower Granite	12,441	12,441	12,441	12,427	3,848	3,679	3,679	3,679	3,679	775	664	650	367	367	367	319	297	49	49
28	Lower Monument	3,604	3,604	3,604	3,604	3,604	3,604	3,604	3,604	3,604	677	677	659	327	327	327	142	115	-	-
29	McNary	711	711	711	711	686	686	686	686	686	684	684	572	572	572	242	203	20	20	20
30	The Dalles	2,922	2,922	2,922	2,403	2,403	2,403	2,403	2,403	2,403	2,403	2,403	2,403	2,035	2,035	2,035	2,025	91	-	-
31	Corps of Engineers Subtotal:	157,293	163,135	160,921	162,741	164,478	170,670	180,679	185,894	187,176	186,082	180,518	171,415	171,835	149,791	125,548	96,044	61,118	43,489	15,719
32	Lower Snake Fish and Wildlife	16,526	16,526	16,526	16,526	16,526	16,526	16,526	16,526	16,526	16,526	16,526	16,526	1,293	112	112	112	94	90	6
33	Lower Snake Fish & Wildlife Subtotal:	16,526	16,526	16,526	16,526	16,526	16,526	16,526	16,526	16,526	16,526	16,526	16,526	1,293	112	112	112	94	90	6
34	Appropriation Subtotal:	217,345	223,187	220,974	222,793	224,530	227,558	237,567	242,781	244,008	235,301	219,518	208,880	184,220	151,123	126,881	97,377	62,433	43,886	15,879
35	Bureau Direct	34,877	44,925	56,012	62,678	62,678	62,678	62,678	60,489	54,617	52,983	52,983	51,886	51,886	51,886	51,886	50,988	50,988	35,164	29,343
36	Conservation	12,851	11,901	14,574	15,700	15,700	15,700	15,700	15,700	15,700	15,700	11,423	11,048	9,207	6,160	2,112	2,112	2,112	2,112	2,112
37	Construction	868	1,181	1,132	1,323	1,137	1,137	833	596	91	91	91	91	-	-	-	-	-	-	-
38	Fish and Wildlife	12,409	10,923	13,048	14,364	14,364	14,364	12,777	12,777	12,777	12,777	11,866	11,866	8,355	8,050	5,901	3,489	1,608	1,608	1,608
39	(Less Interest Income)	(3,222)	(2,754)	(5,607)	(5,916)	(5,385)	(3,876)	(6,784)	(7,005)	(7,888)	(8,223)	(8,876)	(9,902)	(12,854)	(12,990)	(13,175)	(13,189)	(13,308)	(13,358)	(13,358)
40	Coupon Scale Down Premiums	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	BPA Borrowing Subtotal:	57,785	66,176	79,159	88,150	88,494	90,003	87,095	82,094	75,802	73,329	72,676	66,275	62,042	60,195	53,411	47,975	53,296	29,663	27,924
42	Treasury Subtotal:	57,785	66,176	79,159	88,150	88,494	90,003	87,095	82,094	75,802	73,329	72,676	66,275	62,042	60,195	53,411	47,975	53,296	29,663	27,924
43	GRAND TOTAL:	275,130	289,363	300,132	310,943	313,024	317,561	324,661	324,875	319,809	308,630	292,194	275,155	246,263	211,319	180,292	145,351	115,729	73,549	43,803

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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Columbia Basin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Columbia Basin 3rd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Hungry Horse Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Minidoka/Palissades	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Rogue River Projects - Green Springs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Yakima Chandler/Kennwick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Yakima Roza	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Bureau of Reclamation Subtotal:																	
11	Albeni Falls	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Bonneville Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Chief Joseph	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Columbia River Fish Mitigation	3,168	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Cougar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Dworshak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	Green Peter/Foster	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Hills Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	Ice Harbor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	John Day	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	Libby	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	Little Goose	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	Lookout Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	Lost Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	Lower Granite	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	Lower Monument	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	McNary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	The Dalles	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	Corps of Engineers Subtotal:	3,168	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	Lower Snake Fish and Wildlife	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	Appropriation Subtotal:	3,168	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	Bureau Direct	8,569	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	Conservation	2,112	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	Fish and Wildlife	1,536	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	(Less Interest Income)	(13,493)	(13,691)	(13,784)	(13,853)	(13,905)	(13,913)	(13,905)	(13,905)	(13,905)	(13,905)	(13,905)	(13,905)	(12,315)	(7,787)	(7,787)	(7,787)	(7,787)
40	Coupon Scale Down Premiums	2,989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	BPA Borrowing Subtotal:	1,714	(13,691)	(13,784)	(13,853)	(13,905)	(13,913)	(13,905)	(13,905)	(13,905)	(13,905)	(13,905)	(13,905)	(12,315)	(7,787)	(7,787)	(7,787)	(7,787)
42	Treasury Subtotal:	1,714	(13,691)	(13,784)	(13,853)	(13,905)	(13,913)	(13,905)	(13,905)	(13,905)	(13,905)	(13,905)	(13,905)	(12,315)	(7,787)	(7,787)	(7,787)	(7,787)
43	GRAND TOTAL:	4,881	(13,691)	(13,784)	(13,853)	(13,905)	(13,913)	(13,905)	(13,905)	(13,905)	(13,905)	(13,905)	(13,905)	(12,315)	(7,787)	(7,787)	(7,787)	(7,787)

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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,046
3	Columbia Basin	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75,262
4	Columbia Basin 3rd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	324,063
5	Hungry Horse Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11,577
6	Minidoka/Palisades	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47,354
7	Rogue River Projects - Green Springs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8,512
8	Yakima Chandler/Kennwick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	738
9	Yakima Roza	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11
10	Bureau of Reclamation Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	471,562
11	Albeni Falls	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	608,470
12	Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	297,539
13	Bonneville Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	118,909
14	Chief Joseph	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	172,619
15	Columbia River Fish Mitigation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,100,662
16	Cougar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10,863
17	Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,356
18	Dworshak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25,783
19	Green Peter/Foster	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	238
20	Hills Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,176
21	Ice Harbor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24,263
22	John Day	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20,948
23	Libby	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	125,506
24	Little Goose	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43,769
25	Lookout Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11,144
26	Lost Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,122
27	Lower Granite	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72,820
28	Lower Monument	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39,289
29	McNary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11,224
30	The Dalles	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41,015
31	Corps of Engineers Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,737,715
32	Lower Snake Fish and Wildlife	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200,131
33	Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200,131
34	Appropriation Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,409,408
35	Bureau Direct	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	990,195
36	Conservation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	213,324
37	Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,799
38	Fish and Wildlife	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	210,392
39	(Less Interest Income)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(509,767)
40	Coupon Scale Down Premiums	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20,898
41	BPA Borrowing Subtotal:	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	934,840
42	Treasury Subtotal:	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	934,840
43	GRAND TOTAL:	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	(7,787)	4,344,248

**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	-	-	-	-	1,043
3	Columbia Basin	-	-	-	72	-	-	-	-	-	360	-	76,152	-	-	-	-	12,726
4	Columbia Basin 3rd Powerhouse	-	0	-	44,125	-	-	778	106,480	142,917	19,382	137,705	4,003	-	-	-	-	-
5	Hungry Horse Dam	-	0	-	-	-	-	-	-	-	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	Bureau of Reclamation Subtotal:	-	-	-	44,197	-	-	778	106,480	142,917	21,473	137,705	152,504	-	-	-	-	17,923
11	Alberi Falls	-	-	-	-	-	-	-	-	-	-	-	316,569	620,504	717,940	651,137	172,050	-
12	Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	-	250,038	106,891	9,867	-	-	-	-	-
13	Bonneville Dam	-	-	-	-	-	-	-	15,670	-	540	-	31,341	-	-	46,109	40,404	-
14	Chief Joseph	-	-	-	-	-	-	-	30,512	164,769	5,397	-	8,317	-	-	-	-	4,492
15	Columbia River Fish Mitigation	-	-	-	-	-	-	-	-	-	-	-	103,684	-	-	-	92,222	241,790
16	Cougar	-	-	-	-	-	-	-	-	-	-	-	26	-	-	-	3,622	8,243
17	Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	-	-	-	339	-	-	-	-	1,254
18	Dworshak	-	91,167	775	-	-	-	-	-	-	427	-	9,002	-	-	630	1,484	-
19	Green Peter/Foster	-	-	-	-	-	-	-	-	-	-	-	226	-	-	-	-	-
20	Hills Creek	-	-	-	-	-	-	-	-	-	-	-	2,667	-	-	-	-	46
21	Ice Harbor	-	-	-	21	-	-	20,700	-	-	78	371	2,393	-	-	-	8,886	14
22	John Day	-	-	-	-	-	-	-	-	-	-	195	11,857	-	-	6,339	3,060	-
23	Libby	-	-	-	49,927	-	65,138	97,563	-	152	150	14,781	6,222	-	-	-	-	1,567
24	Little Goose	-	-	-	-	-	-	-	49,625	-	-	1,200	9,537	-	-	-	213	13
25	Lookout Dam	-	-	-	-	-	-	-	-	-	-	-	5,170	-	-	135	7,927	-
26	Lost Creek	-	-	-	-	-	-	-	13,793	-	31	-	265	-	-	-	-	-
27	Lower Granite	-	-	194	119,815	2,363	-	-	40,611	1,551	206	-	4,611	-	-	-	898	417
28	Lower Monument	-	-	-	-	-	-	-	-	40,925	-	264	5,227	-	-	3,445	536	-
29	McNary	-	-	-	351	-	-	-	-	-	30	-	1,778	-	-	6,138	765	-
30	The Dalles	-	-	7,240	-	-	-	-	-	-	-	-	5,805	-	-	182	37,810	-
31	Corps of Engineers Subtotal:	-	91,167	8,209	119,815	52,662	-	65,138	118,263	150,211	207,397	256,897	123,702	534,902	620,504	717,940	819,956	521,507
32	Lower Snake Fish and Wildlife	-	-	-	-	-	-	-	-	-	-	-	213,056	17,002	-	-	335	79
33	Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-	-	-	-	-	-	213,056	17,002	-	-	335	79
34	Appropriation Subtotal:	-	91,167	8,209	119,815	96,860	-	65,138	119,041	256,691	350,313	278,370	474,463	704,407	620,504	717,940	820,290	539,508
35	Bureau Direct	-	-	-	-	-	-	59,000	160,000	47,000	-	25,000	-	-	-	25,000	-	319,474
36	Conservation	62,800	15,000	105,000	-	-	-	-	-	-	-	115,000	15,000	61,365	89,035	92,000	-	-
37	Construction	-	14,950	12,700	10,500	-	-	16,878	9,128	12,936	-	-	-	-	3,502	-	-	-
38	Fish and Wildlife	60,000	-	-	-	-	-	46,000	-	-	-	-	20,000	-	80,000	11,000	67,145	65,275
39	BPA Borrowing Subtotal:	58,823	52,427	51,989	60,814	51,278	27,505	57,107	24,547	12,208	14,360	12,949	15,127	13,723	20,938	6,187	11,259	4,065
40	Discounts	181,623	82,377	169,689	71,314	51,278	27,505	178,985	193,675	72,144	14,360	152,949	50,127	75,088	193,475	134,187	78,404	388,814
41	Premiums	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	Make Whole Call Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	Treasury Subtotal:	181,623	82,377	169,689	71,314	51,278	27,505	178,985	193,675	72,144	14,360	152,949	50,127	75,088	193,475	134,187	78,404	388,814
44	GRAND TOTAL:	181,623	173,544	177,898	191,129	148,138	27,505	244,123	312,716	328,835	364,673	431,319	524,590	779,495	813,979	852,128	898,695	928,322

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	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Columbia Basin	3,325	2,617	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Columbia Basin 3rd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Hungry Horse Dam	60	1,286	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Minidoka/Palisades	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Rogue River Projects - Green Springs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Yakima Chandler/Kennwick	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Yakima Roza	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Bureau of Reclamation Subtotal:	3,418	3,903																	
11	Albeni Falls	171,626	171,611	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
12	Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Bonneville Dam	5,372	6,630	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Chief Joseph	24,727	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Columbia River Fish Mitigation	568,941	305,276	93,715	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Cougar	131	608	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Dworshak	2,553	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	Green Peter/Foster	-	87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Hills Creek	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	Ice Harbor	2,615	697	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	John Day	2,148	530	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	Libby	-	214	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	Little Goose	3,171	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	Lookout Dam	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	Lost Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	Lower Granite	5,669	1,165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	Lower Monument	2,617	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	McNary	4,080	523	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	The Dalles	<u>2,030</u>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	Corps of Engineers Subtotal:	795,681	487,427	265,331	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
32	Lower Snake Fish and Wildlife	<u>1,919</u>	<u>146</u>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	Lower Snake Fish & Wildlife Subtotal:	1,919	146																	
34	Appropriation Subtotal:	801,018	491,476	265,331	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
35	Bureau Direct	125,644	496,296	229,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	Conservation	-	-	55,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	Fish and Wildlife	<u>41,808</u>	<u>1,839</u>	<u>40,161</u>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	BPA Borrowing Subtotal:	2,035	10,634	4,348	-	7,843	28,920	16,232	-	14,229	-	73,659	-	11,700	-	-	-	-	-	-
40	Discounts	169,487	508,769	324,161	4,348	-	7,843	28,920	16,232	-	14,229	-	73,659	-	11,700	-	-	-	-	-
41	Premiums	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	Make Whole Call Subtotal:	-	-	-	-	0	7,843	28,920	16,232	0	14,229	0	0	73,659	0	0	11,700	0	0	0
43	Treasury Subtotal:	169,487	508,769	324,161	4,348	0	7,843	28,920	16,232	0	14,229	0	0	73,659	0	0	11,700	0	0	0
44	GRAND TOTAL:	970,505	1,000,245	589,492	175,917	171,569	179,412	200,489	187,801	171,569	185,798	171,569	171,569	245,228	171,569	171,569	183,269	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95,253
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	455,389
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13,268
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50,953
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11,145
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	848
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
10	Bureau of Reclamation Subtotal:																		631,295
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	145,701
14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	238,241
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,405,626
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12,677
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,592
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106,037
19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	312
20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,725
21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35,776
22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24,130
23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	235,714
24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63,790
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13,249
26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14,089
27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	177,499
28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53,014
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13,665
30	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	53,067
31	Corps of Engineers Subtotal:	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	11,618,487
32	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	232,537
33	Lower Snake Fish & Wildlife Subtotal:																		232,537
34	Appropriation Subtotal:	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	12,482,319
35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,486,415
36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	610,200
37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80,594
38	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	433,228
39	BPA Borrowing Subtotal:																		664,908
40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,275,345
41	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-
42	Make Whole Call Subtotal:																		-
43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,275,345
44	GRAND TOTAL:	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	15,757,663

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.

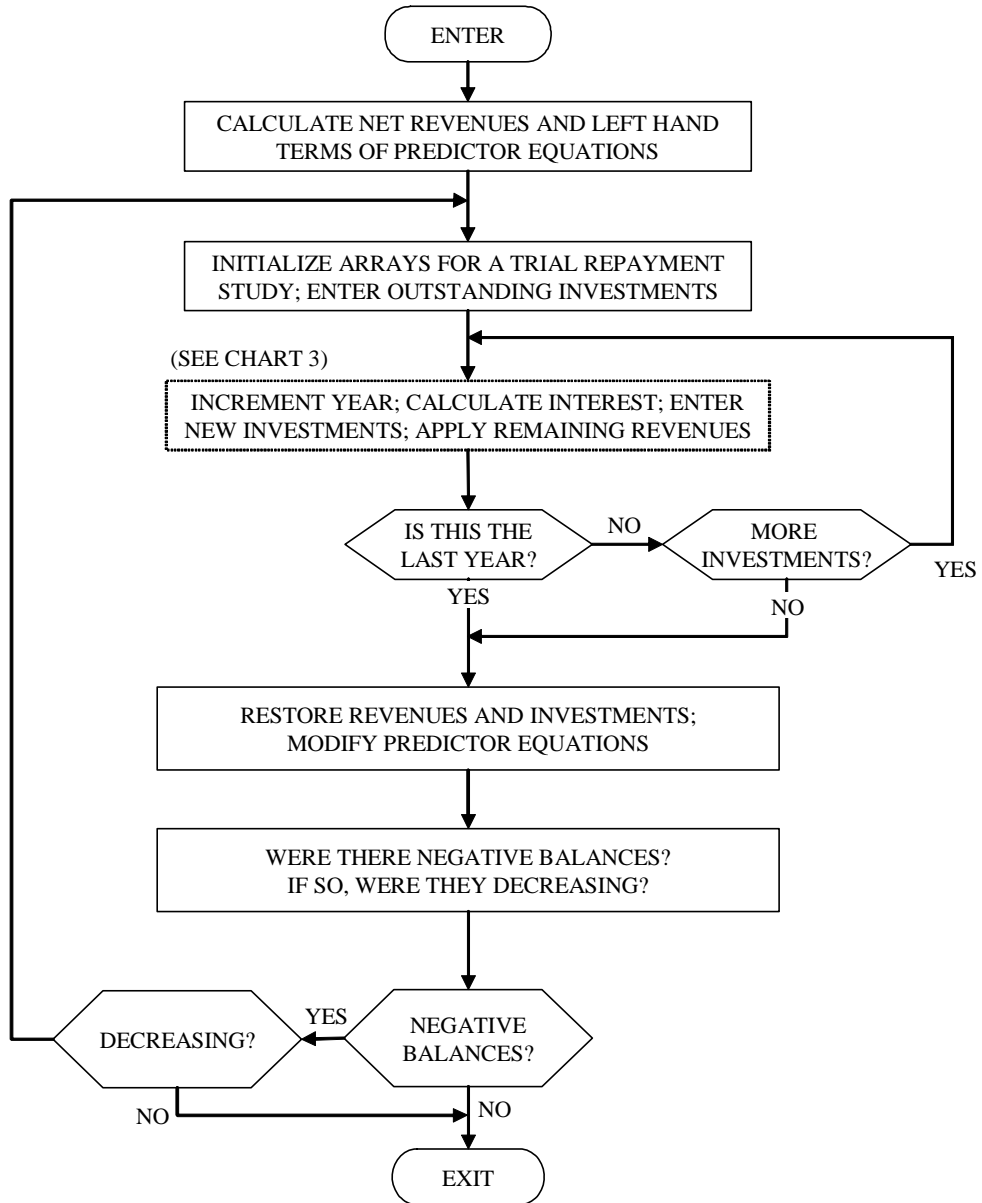
Investment equation: The payments on each investment are less than or equal to the principle of that investment (and equal to the principle of that investment after the investment is due).

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)**

