BP-16 Initial Rate Proposal

Power Revenue Requirement Study Documentation

December 2014

BP-16-E-BPA-02A

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COMMONLY USED ACRONYMS AND SHORT FORMS

AAC	Anticipated Accumulation of Cash
ACNR	Accumulated Calibrated Net Revenue
AER step	Actual Energy Regulation study
AGC	Automatic Generation Control
ALF	Agency Load Forecast (computer model)
aMW	average megawatt(s)
AMNR	Accumulated Modified Net Revenues
ANR	Accumulated Net Revenues
AOP	Assured Operating Plan
ASC	Average System Cost
BAA	Balancing Authority Area
BiOp	Biological Opinion
BPA	Bonneville Power Administration
BPA-P	Bonneville Power Administration – Power
BPA-T	Bonneville Power Administration – Transmission
Btu	British thermal unit
CDD	cooling degree day(s)
CDQ	Contract Demand Quantity
CGS	Columbia Generating Station
CHWM	Contract High Water Mark
CNR	Calibrated Net Revenue
COE, Corps, or USACE	U.S. Army Corps of Engineers
Commission	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
dec	decrease, decrement, or decremental
DERBS	Dispatchable Energy Resource Balancing Service
DFS	Diurnal Flattening Service
DOE	Department of Energy
DOP	Detailed Operating Plan
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
ESS	Energy Shaping Service
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 and Surplus Products and Services (rate)
FY	fiscal year (October through September)
G&A	general & administrative
GARD	Generation and Reserves Dispatch (computer model)
GEP	Green Energy Premium
GMS	Generation Management Service
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
inc	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
kcfs	thousand cubic feet per second
kW	kilowatt (1000 watts)
kWh	kilowatthour
LPP	Large Project Program
LDD	Low Density Discount
LLH	Light Load Hour(s)
LPTAC	Large Project Targeted Adjustment Charge
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)
NRFS	New Resource Flattening Service
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
OPER step	operational study
OY	operating year (August through July)
PF	Priority Firm Power (rate)
PFp	Priority Firm Public (rate)
PFx	Priority Firm Exchange (rate)
PNCA	Pacific Northwest Coordination Agreement
PNRR	Planned Net Revenues for Risk
PNW	Pacific Northwest
POD	Point of Delivery
POI	Point of Integration or Point of Interconnection
POM	Point of Metering
POR	Point of Receipt
Project Act	Bonneville Project Act
PRS	Power Rates Study
PS	BPA Power Services
PSW	Pacific Southwest
PTP	Point to Point Transmission (rate)
PUD	public or people's utility district
RAM	Rate Analysis Model (computer model)
RAS	Remedial Action Scheme
RD	Regional Dialogue
REC	Renewable Energy Certificate
Reclamation or USBR	U.S. Bureau of Reclamation

REP	Residential Exchange Program
RevSim	Revenue Simulation Model (component of RiskMod)
RFA	Revenue Forecast Application (database)
RHWM	Rate Period High Water Mark
RiskMod	Risk Analysis Model (computer model)
RiskSim	Risk Simulation Model (component of RiskMod)
ROD	Record of Decision
RPSA	Residential Purchase and Sale Agreement
RR	Resource Replacement (rate)
RRS	Resource Remarketing Service
RSS	Resource Support Services
RT1SC	RHWM Tier 1 System Capability
RTO	Regional Transmission Operator
SCADA	Supervisory Control and Data Acquisition
SCS	Secondary Crediting Service
Slice	Slice of the System (product)
T1SFCO	Tier 1 System Firm Critical Output
TCMS	Transmission Curtailment Management Service
TOCA	Tier 1 Cost Allocator
TPP	Treasury Payment Probability
TRAM	Transmission Risk Analysis Model
Transmission System Act	Federal Columbia River Transmission System Act
Treaty	Columbia River Treaty
TRL	Total Retail Load
TRM	Tiered Rate Methodology
TS	BPA Transmission Services
TSS	Transmission Scheduling Service
UAI	Unauthorized Increase
ULS	Unanticipated Load Service
USACE, Corps, or COE	U.S. Army Corps of Engineers
USBR or Reclamation	U.S. Bureau of Reclamation
USFWS	U.S. Fish and Wildlife Service
VERBS	Variable Energy Resources Balancing Service (rate)
VOR	Value of Reserves
VR1-2014	First Vintage rate of the BP-14 rate period
WECC	Western Electricity Coordinating Council (formerly WSCC)
WIT	Wind Integration Team
WSPP	Western Systems Power Pool

1. GENERATION REVENUE REQUIREMENTS

1.1 Introduction

This chapter documents how Bonneville Power Administration's (BPA) annual generation revenue requirements are determined. Two tables are presented for each year of the rate period (FY 2016-2017). On the first table, revenue requirements for FY 2016-2017 are projected in an income statement format. The second table, a statement of annual cash flows, determines the minimum required net revenues and presents the annual cash flows available for risk mitigation. These revenue requirements form the basis of the program.

1.2 Income Statement

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

Power System Generation Resources (Line 2). This category encompasses the costs associated with power generated by Federal hydroelectric facilities operated by the Corps and Reclamation and power obtained through contracts for non-Federal resources and through energy conservation. This category includes lines 3 through 10, described below. *See* Documentation, BP-16-E-BPA-02A, Chapter 3.

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

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

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

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

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

Exchanges and Settlements (Line 8). This category represents the benefits for qualifying public utilities and IOUs that are calculated as part of the Residential Exchange Program. *Id.*

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

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

Power Non-Generation Operations (Line 11). This category reflects Power Services' internal costs associated with supporting the power function. It includes the costs of activities such as generation oversight, weather and stream flow forecasting, system operations planning, schedule planning, pre-scheduling, after-the-fact accounting of power transactions, power billing, customer account executives and customer service support staff, development and administration of power sales contracts, PS strategy development, PS financial reporting, analysis and budgeting, risk management, and PS human resources management. *Id.*

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

F&W/USF&W/Planning Council/Environmental Requirements (Line 13). BPA funds projects designed to protect, mitigate and enhance fish and wildlife affected by the FCRPS in a manner consistent with the NPCC Columbia River Basin Fish and Wildlife Program, and to implement commitments made pursuant to Biological Opinions (BiOps) issued by NOAA Fisheries and the U.S. Fish and Wildlife Service regarding species listed under the Endangered Species Act. This line item includes the expense portion of BPA's Fish and Wildlife direct program, including staff costs and operating expenses of fish and wildlife activities. These activities include measures to implement the fish and wildlife mitigation consistent with the NPCC Fish and Wildlife Program as well BiOps issued by the NOAA Fisheries for listed salmon and steelhead and the U.S. Fish and Wildlife Service for listed bull trout and sturgeon. *Id.*

General and Administrative/Shared Services (Line 14). This category represents the allocated portion of BPA's Corporate General and Administrative costs, which are allocated to the business lines. Major functions besides the Executive Office are Corporate Communication, Finance, Diversity, and Safety. This category includes costs for the Civil Service Retirement System (CSRS) expense; information technology services; infrastructure and maintenance; building rent, maintenance and security; mail services; personnel services; library and printing services; internal training; purchasing; and furniture. CSRS reflects the costs for the unfunded liability of the Civil Service Retirement and Disability Fund, the Employees Health Benefit Fund, and the Employees Life Insurance Fund. *Id.*

Other Income, Expenses, and Adjustments (Line 15). This category would include costs for items that do not fit in any other category. For this proposal, it includes an undistributed expense reduction identified in the IPR and an undistributed reduction for potential non-Federal debt extension. *Id.,* Chapter 3, Tables 3A and 3H

Non-Federal Debt Service (Line 16). This category consists of third-party debt service or payment costs associated with capitalized contracts and other long-term, fixed contractual obligations. Debt service costs associated with EN projects (WNP-1, CGS, and WNP-3) make up the majority of these costs. *Id.,* Chapter 8

Depreciation (Line 17). Depreciation is the annual capital recovery expense associated with FCRPS plant-in-service. Reclamation and Corps (including Lower Snake River Fish and Wildlife Compensation Plan (LSRCP)) plant, including assets for fish and wildlife recovery, is depreciated by the straight-line method of calculation, using the composite service life of all projects, 75 years. Capital equipment (office furniture and fixtures, data processing hardware and software, and communications equipment) is also depreciated by the straight-line method using the average service lives for the particular categories of capital investment. *Id.,* Chapter 4.

Amortization (Line 18). Amortization is the annual capital recovery expense associated with non-revenue-producing assets. Conservation investments are amortized over three different periods, as described in Chapter 3. Legacy conservation investments prior to the FY 2002-2006 rate period are amortized using a straight-line, 20-year life. Conservation Acquisition investments beginning in FY 2007 are amortized using a straight-line, five-year life. Investments beginning in FY 2011 are amortized using a straight-line, twelve-year life. *Id.*

Total Operating Expenses (Line 19). Total Operating Expenses is the sum of the above expenses (Lines 2 through 18).

Interest on Appropriated Funds (Line 23). 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 24). Implementation of the Refinancing Act entailed a change in capitalization on BPA's financial statements. Outstanding appropriations were reduced as a result of the refinancing by $2,142 million in the generation function. The reduction is recognized annually over the remaining repayment period of the refinanced appropriations. The annual recognition of this adjustment is based on the increase in annual interest expense resulting from implementation of the Refinancing Act, as shown in repayment studies for the year of the refinancing transaction (1997). The capitalization adjustment is included on the income statement as a non-cash contra-expense. *Id.*

Interest on Bonds Issued to U.S. Treasury (Line 25). Interest on long-term debt includes interest on bonds that BPA issues to the U.S. Treasury to fund investments in capital equipment, conservation, and fish and wildlife, and to fund Reclamation and 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 26). When a bond issued to the U.S. Treasury is refinanced, any call premium resulting from early retirement of the original bond is capitalized and included in the principal of the new bond. The capitalized call premium is then amortized over the term of the new bond. The annual amortization is a non-cash component of interest expense. No capitalized bond premiums are anticipated in the rate period.

Non-Federal Interest (Line 27). This line recognizes the interest component of the annual credits associated with the prepay program. *Id.*

Allowance for Funds Used During Construction (AFUDC) (Line 28). AFUDC is a credit against interest costs on long-term debt (Line 20). This reduction to gross interest reflects an estimate of interest on the funds used during the construction period of facilities that have yet to be placed in service. AFUDC is capitalized along with other construction costs and is recovered through rates over the expected service life of the related plant as part of the depreciation expense after the facilities are placed in service. AFUDC, which is calculated outside the generation repayment studies, is associated with the Corps and Reclamation capital investments direct-funded by BPA, and BPA capital equipment. *Id.*

Interest Credit on Cash Reservese (Line 29). 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 30). 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 31). Total Expenses are the sum of Total Operating Expenses (Line 19) and Net Interest Expense (Line 30).

Minimum Required Net Revenues (Line 34). 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 35). 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 2016-2017, as discussed in the Power Risk and Market Price Study, BP-16-E-BPA-03.

Planned Net Revenues, Total (Line 36). Planned Net Revenues is the sum of Minimum Required Net Revenues (Line 34) and PNRR (Line 35).

Total Revenue Requirement (Line 38). Total Revenue Requirement is the sum of Total Expenses (Line 32) and Total Planned Net Revenues (Line 36).

1.3 Statement of Cash Flows

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

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

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

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

Amortization of Capitalized Bond Premiums (Line 6). 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 9) because it is a non-cash expense of the FCRPS.

Capitalization Adjustment (Line 7). Capitalization Adjustment is from the Income Statement (Table 1A, Line 24). It is a non-cash contra-expense.

Non-Cash Revenues (Line 8). Revenues are associated with settlement agreements reached in prior periods as well as the credits associated with the prepay program. The annual non-cash revenues, which are part of the total revenues recovering the FCRPS revenue requirement, are included here as an adjustment to cash from current operations.

Cash Provided By Operating Activities (Line 9). Cash Provided By Current Operations, the sum of Lines 2, 4, 5, 6, 7, and 8, is available for the year to satisfy cash requirements.

Investment in Federal Utility Plant (Including AFUDC) (Line 13). 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 14). Investment in Conservation represents the annual increase in capital expenditures associated with Conservation programs.

Investment in Fish and Wildlife (Line 15). 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 16). Cash Used for Investment Activities is the sum of Lines 13, 14, and 15.

Increase in Treasury Borrowings (Line 19). 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 120). 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 21). 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 22). Repayment of Capital Appropriations represents projected amortization of outstanding COE and Reclamation appropriations as determined in the generation repayment studies. *Id*., Chapter 6.

Customer Proceeds (Line 23). The prepay funds are a source of cash for capital investment. This line recognizes the drawdown of prepay funds as they are used to finance capital investments. *See* Chapter 3.

Payment of Irrigation Assistance (Line 24). 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 25). Cash Provided by Borrowing and Appropriations is the sum of Lines 19 through 24. 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 27). Annual Increase (Decrease) in Cash is the sum of Lines 8, 14, and 22 and reflects the annual net cash-flow from current operations and investing and financing activities. Revenue requirements are set to meet all projected annual cash-flow requirements, as included on the Statement of Cash Flows. A decrease shown in this line would indicate that annual revenues would be insufficient to cover the year's cash requirements. In such cases, Minimum Required Net Revenues are included to offset such decrease.

Planned Net Revenues for Risk (PNRR) (Line 29). PNRR reflects the amounts included in revenue requirements to meet BPA's risk mitigation objectives from Table 1A, Line 35.

Total Annual Increase (Decrease) in Cash (Line 31). Total Annual Increase (Decrease) in Cash is the sum of Lines 23 and 24. It is the total annual cash that is projected to be available to add to BPA's cash reserves.

Table 1A

GENERATION REVENUE REQUIREMENT
INCOME STATEMENT
($000s)

		A 2016	B 2017
1	OPERATING EXPENSES		
2	POWER SYSTEM GENERATION RESOURCES		
3	OPERATING GENERATION RESOURCES	685,954	748,609
4	OPERATING GENERATION SETTLEMENT PAYMENTS	21,863	22,234
5	NON-OPERATING GENERATION	1,600	1,863
6	CONTRACTED POWER PURCHASES	55,394	78,934
7	AUGMENTATION POWER PURCHASES	55,974	95,400
8	EXCHANGES & SETTLEMENTS	294,850	294,821
9	RENEWABLE GENERATION	40,987	41,641
10	GENERATION CONSERVATION	49,349	41,605
11	POWER NON-GENERATION OPERATIONS	97,018	99,836
12	PS TRANSMISSION ACQUISITION AND ANCILLARY SERVICES	189,359	195,354
13	F&W/USF&W/PLANNING COUNCIL	310,539	318,395
14	GENERAL AND ADMINISTRATIVE/SHARED SERVICES	75,413	76,854
15	OTHER INCOME, EXPENSES AND ADJUSTMENTS	(27,855)	(54,318)
16	NON-FEDERAL DEBT SERVICE	584,720	585,404
17	DEPRECIATION	145,275	149,980
18	AMORTIZATION	88,123	98,824
19	TOTAL OPERATING EXPENSES	2,668,562	2,795,436
20			
21	INTEREST EXPENSE:		
22	INTEREST		
23	APPROPRIATED FUNDS	206,826	204,298
24	CAPITALIZATION ADJUSTMENT	(45,937)	(45,937)
25	BONDS ISSUED TO U.S. TREASURY	62,679	81,199
26	AMORTIZATION OF CAPITALIZED BOND PREMIUMS	0	0
27	NON-FEDERAL INTEREST	13,273	12,469
28	ALLOWANCE FOR FUNDS USED DURING CONSTRUCTION	(7,571)	(5,593)
29	INTEREST CREDIT ON CASH RESERVES	(9,124)	(16,580)
30	NET INTEREST EXPENSE	220,146	229,856
31			
32	TOTAL EXPENSES	2,888,708	3,025,292
33			
34	MINIMUM REQUIRED NET REVENUE 1/	0	0
35	PLANNED NET REVENUE FOR RISK	0	0
36	PLANNED NET REVENUE, TOTAL (30+31)	0	0
37			
38	TOTAL REVENUE REQUIREMENT	**2,888,708**	**3,025,292**

1/ SEE NOTE ON TABLE 1B

Table 1B

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

		A 2016	B 2017
1	CASH FROM OPERATING ACTIVITIES		
2	MINIMUM REQUIRED NET REVENUE 1/	0	0
3	NON-CASH ITEMS:		
4	NON-FEDERAL INTEREST	13,273	12,469
5	DEPRECIATION AND AMORTIZATION	233,398	248,804
6	AMORTIZATION OF CAPITALIZED BOND PREMIUMS	0	0
7	CAPITALIZATION ADJUSTMENT	(45,937)	(45,937)
8	NON-CASH REVENUES	(34,124)	(34,124)
9	CASH PROVIDED BY OPERATING ACTIVITIES	166,610	181,212
10			
11	CASH FROM INVESTMENT ACTIVITIES		
12	INVESTMENT IN:		
13	UTILITY PLANT (INCLUDING AFUDC)	(351,514)	(343,885)
14	ENERGY EFFICIENCY	(94,800)	(97,600)
15	FISH & WILDLIFE	(54,807)	(30,795)
16	CASH USED FOR INVESTMENT ACTIVITIES	(501,122)	(472,279)
17			
18	CASH FROM BORROWING AND APPROPRIATIONS:		
19	INCREASE IN BONDS ISSUED TO U.S. TREASURY	405,902	410,347
20	REPAYMENT OF BONDS ISSUED TO U.S. TREASURY	(10,500)	(35,150)
21	INCREASE IN FEDERAL CONSTRUCTION APPROPRIATIONS	95,220	61,932
22	REPAYMENT OF FEDERAL CONSTRUCTION APPROPRIATIONS	(95,156)	(94,671)
23	CUSTOMER PROCEEDS	0	0
24	PAYMENT OF IRRIGATION ASSISTANCE	(60,954)	(51,391)
25	CASH PROVIDED BY BORROWING AND APPROPRIATIONS	334,512	291,068
26			
27	ANNUAL INCREASE (DECREASE) IN CASH	0	0
28			
29	PLANNED NET REVENUE FOR RISK	**0**	**0**
30			
31	TOTAL ANNUAL INCREASE (DECREASE) IN CASH	0	0

1/ Line 26 must be greater than or equal to zero to indicate that cash cost recovery requirements are being achieved. If not, net revenues (MRNR) are added so that net cash flows for the year (Line 21) are zero.

2. COST ANALYSES

2.1 Introduction

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

Data development for the COSA and interbusiness unit embedded costs are derived from the annual costs identified in Table 1A - Generation Income Statement. For the COSA, net interest expenses and planned net revenues, which are first split between Federal hydro projects and the remainder of generation by the use of equivalent annual costs (defined below). The generation portions are then divided between Fish & Wildlife, Conservation and BPA generation programs based on average net investment. TheCH2se 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

All tables related to the development of interbusiness unit costs have been deleted because generation inputs rates were settled and did not depend on these embedded costs as would be typical if the rates were contested.

Table 2A

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

FY 2016	A	B	C		D	E	F
	Investment Base	**Net Interest**	**Net Revenues**		**COE/USBR**	**All Other**	**Total Generation**
1. GENERATION COSTS							
2. FEDERAL BASE SYSTEM				Equivalent Annual Costs	580,288	124,264	704,551
3. HYDRO		182,480	0	Percent	82%	18%	100%
4. FISH AND WILDLIFE	329,247	16,631	0				
5. TROJAN				Net Interest Expense	182,480	39,077	221,557
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	329,247	199,111	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	400,591	20,234	0				
19. OTHER GENERATION COSTS							
20. BPA PROGRAMS	43,795	2,212	0				
21. WNP #3 PLANT							
22. TOTAL OTHER GENERATION COSTS	43,795	2,212	0				
23. TOTAL GENERATION COSTS	773,633	221,557	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		221,557	0				

Table 2A

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

FY 2017

	A	B	C		D	E	F
	Investment Base	**Net Interest**	**Net Revenues**		**Hydro**	**All Other**	**Total Generation**
1. GENERATION COSTS							
2. FEDERAL BASE SYSTEM				Equivalent Annual Costs	596,686	137,317	734,002
3. HYDRO		187,541	0	Percent	81%	19%	100%
4. FISH AND WILDLIFE	335,402	17,737	0				
5. TROJAN				Net Interest Expense	187,541	43,159	230,700
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	335,402	205,278	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	448,513	23,719	0				
19. OTHER GENERATION COSTS							
20. BPA PROGRAMS	32,212	1,703	0				
21. WNP #3 PLANT							
22. TOTAL OTHER GENERATION COSTS	32212	1,703	0				
23. TOTAL GENERATION COSTS	816,127	230,700	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		230,700	0				

Table 2B

Equivalent Annual Costs
($000s)

	A	B	C	D	E	F	G
	AVG LIFE	COMP PLANT 9/30/2016	WT AV INT RATE	2014 EQ ANN COSTS	COMP PLANT 9/30/2017	WT AV INT RATE	2015 EQ ANN COSTS
1 Corps of Engineers/Bureau of Reclamation	50	10,095,253	5.32%	$580,288	10,524,571	5.23%	$596,686
2 BPA F&W							
3 PBL General Plant	15	555,491	3.46%	48,076	580,150	3.57%	50,615
4 CONSERVATION	6	130,233	1.71%	23,259	139,955	2.10%	23,216
5 Sub-Total	13	578,617	0	52,928	676,217	0	63,485
				124,264			137,317

	WTD LIFE	INV. BASE AS OF 9/30/2014	ANNUAL DEPR/AMORT	AVG LIFE	INV. BASE AS OF 9/30/2015	ANNUAL DEPR/AMORT
6 OFFICE FURNITURE & FIXTURES						
7 DATA PROCESSING EQUIPMENT						
8 DATA PROCESSING SOFTWARE						
9 TOTAL GENERAL PLANT - PBL	6	130,233	21,941	7	139,955	21,493
CONSERVATION						
10 LEGACY						
11 CONAUG						
12 CONSERVATION ACQUISITION						
13 TOTAL CONSERVATION	13	578,617	44,269	13	676,217	52,286

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-16-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 3A

Power Services Program Spending Levels
($000s)

	A	B
	Rate Period	
	2016	**2017**
Power System Generation Resources		
Operating Generation		
COLUMBIA GENERATING STATION	262,948	322,473
BUREAU OF RECLAMATION	156,818	158,121
CORPS OF ENGINEERS	243,885	250,981
LONG-TERM CONTRACT GENERATING PROJECTS	22,303	17,034
Sub-Total	**685,954**	**748,609**
Operating Generation Settlements and Other Payments		
COLVILLE GENERATION SETTLEMENT	21,863	22,234
SPOKANE LEGISLATION PAYMENT	0	0
Sub-Total	**21,863**	**22,234**
Non-Operating Generation		
TROJAN DECOMMISSIONING	800	800
WNP-1&3 DECOMMISSIONING	800	1,063
Sub-Total	**1,600**	**1,863**
Gross Contracted Power Purchases (excluding bookout adjustments) <Note 1		
DSI MONETIZED POWER SALES	0	0
PNCA HEADWATER BENEFITS	3,000	3,000
HEDGING/MITIGATION	8,711	38,438
OTHER POWER PURCHASES - (e.g. Short-Term)	20,893	14,880
TIER 2 PURCHASES/RSS	23,342	27,328
Sub-Total	**55,946**	**83,646**
Bookout Adjustments to Contracted Power Purchases <Note 1	0	0
Augmentation Power Purchases (includes IOU Load Reduc. and Buy Backs)		
AUGMENTATION POWER PURCHASES	55,974	95,400
CONSERVATION AUGMENTATION	0	0
Sub-Total	**55,974**	**95,400**
Exchanges & Settlements		
RESIDENTIAL EXCHANGE PROGRAM	294,850	294,821
OTHER SETTLEMENTS	0	0
Sub-Total	**294,850**	**294,821**
Renewable Generation		
RENEWABLES	40,987	41,641
Sub-Total	**40,987**	**41,641**
Generation Conservation		
LEGACY	605	605
MARKET TRANSFORMATION	12,531	12,691
ENERGY EFFICIENCY DEVELOPMENT	15,000	7,000
LOW INCOME WEATHERIZATION & TRIBAL	5,336	5,422
CONSERVATION ACQUISITION	14,632	14,642
DR & SMART GRID	1,245	1,245
Sub-Total	**49,349**	**41,605**
Power System Generation Sub-Total	**1,206,522**	**1,329,819**

Table 3A

Power Services Program Spending Levels
($000s)

	A	B
	Rate Period	
	2016	2017
Power Non-Generation Operations		
Power Services System Operations		
INFORMATION TECHNOLOGY	5,805	5,910
GENERATION PROJECT COORDINATION	7,735	7,845
SLICE IMPLEMENTATION	1,101	1,131
Sub-Total	**14,642**	**14,886**
Power Services Scheduling		
OPERATIONS SCHEDULING	10,307	10,496
OPERATIONS PLANNING	7,100	7,255
Sub-Total	**17,406**	**17,751**
Power Services Marketing and Business Support		
POWER R&D	6,033	6,046
SALES & SUPPORT	22,525	24,765
STRATEGY, FINANCE & RISK MGMT	22,628	22,256
EXECUTIVE AND ADMINISTRATIVE SERVICES	4,326	4,402
CONSERVATION SUPPORT	9,456	9,731
Sub-Total	**64,970**	**67,199**
Power Non-Generation Operations Sub-Total	**97,018**	**99,836**
Power Services Transmission Acquisition and Ancillary Services		
PBL Transmission Acquisition and Ancillary Services		
POWER SERVICES TRANSMISSION & ANCILLARY SERVICES	110,242	106,701
3RD PARTY GTA WHEELING	62,140	71,689
POWER SERVICES - 3RD PARTY TRANS & ANCILLARY SVCS	2,381	2,428
GENERATION INTEGRATION / TS WIT	12,285	12,166
Power Srvcs Trans Acquisition and Ancillary Services Sub-Total	**187,048**	**192,985**
Fish and Wildlife/USF&W/Planning Council/Environmental Req		
BPA Fish and Wildlife (includes F&W Shared Services)		
Fish & Wildlife	267,000	274,000
USF&W Lower Snake Hatcheries	32,303	32,949
Planning Council	11,236	11,446
Fish and Wildlife/USF&W/Planning Council Sub-Total	**310,539**	**318,395**
BPA Internal Support		
Additional Post-Retirement Contribution	19,143	19,478
Agency Services G&A (excludes direct project support)	56,270	57,376
BPA Internal Support Sub-Total	**75,413**	**76,854**

Table 3A

Power Services Program Spending Levels
($000s)

		A	B
		Rate Period	
		2016	2017
89	**Bad Debt Expense**	0	0
90	**Other Income, Expenses, Adjustments**	(20,000)	(20,000)
105			
106			
107	**Disaggregation of Selected Expenses From Revenue Requirement to RAM Cost Table**		
108	**RENEWABLES (line 34)**	40,987	41,641
109	Tier 1 Augmentation Resource (i.e. Klondike III)	10,025	12,658
110	Renewable Generation (excl. Klondike III)	30,962	28,983
111			
112	**POWER R&D (line 58)**	6,033	6,046
113	Renewables R&D	1,819	1,823
114	Generation Conservation R&D	4,214	4,223
115			
116	**POWER SERVICES TRANSMISSION & ANCILLARY SERVICES (line 68)**	110,242	106,701
117	Transmission & Ancillary Services	74,242	71,452
118	Transmission & Ancillary Services (sys. oblig.)	36,001	35,249
119			

Table 3B

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

		A	B
		2016	**2017**
1	INTEREST EXPENSE (GROSS)	206,826	204,298
2	BONDS ISSUED TO TREASURY	62,679	81,199
3	TOTAL INTEREST EXPENSE	269,505	285,497
4			
5	PLANNED AMORTIZATION		
6	APPROPRIATIONS	95,156	94,671
7	BONDS ISSUED TO TREASURY	10,500	35,150
8	TOTAL GENERATION AMORTIZATION	105,656	129,821
9	IRRIGATION ASSISTANCE	60,954	51,391
10	TOTAL AMORTIZATION/IRRIGATION	166,610	181,212

Table 3C

Federal Projects Depreciation Summary
($000s)

		A 2016	B 2017
1	BPA (Power + CORP GP)	21,941	21,493
2	Corps 1/ 2/	94,783	98,980
3	Reclamation	28,551	29,507
4	**Total Depreciation**	**145,275**	**149,980**
5	Amortization of Legacy Conservation	-	-
6	Amortization of Conservation Acquisitions	44,269	52,286
7	Amortization of CRFM Intangible Investment	8,549	8,549
8	Amortization of Fish & Wildlife	35,305	37,989
9	**Total Amortization**	**88,123**	**98,824**
10	**Total Federal Projects Depreciation**	**233,398**	**248,804**

1/	Excludes depreciation from investments		
	paid for by BPA-TS	23	23
2/	Includes US Fish & Wildlife	3,228	3,228

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

		A	B
		2016	**2017**
1	Strategy, Finance, & Risk Mgmt	22,628	22,256
2	Residential Exchange Program Support portion	910	625
3	Net to Power Non-Generating Operations (ln 1 - ln 2)	21,718	21,631
4	Executive & Administrative Svc	4,326	4,402
5	Residential Exchange Program Support portion	10	10
6	Net to Power Non-Generating Operations (ln 4 - ln 5)	4,317	4,392
7	Residential Exchange Program Support (ln 2 + ln 5)	920	635
8	Strategy, Finance, & Risk Mgmt (to Pwr NonGen Ops) (ln 3)	21,718	21,631
9	Executive & Administrative Svc (to Pwr NonGen Ops) (ln 6)	4,317	4,392

Table 3E
Power Services Regulatory Assets
($000s)

			A	B
			2016	**2017**
1	Terminated Nuclear Facilities		400,989	410,160
2	REP Refunds		76,538	76,538
3	Columbia River Fish Mitigation amortization		8,549	8,549
4	Conservation Measures			
5		Additions	94,800	97,600
6		Amortization	44,269	52,286
7	Direct Service Industries' benefit 1/		-	-
8	Fish and Wildlife Measures			
9		Additions	54,807	30,795
10		Amortization	35,305	37,989
11	Settlements		21,863	22,234
12	FECA 2/		-	-
13	Sponsored Conservation		-	-
14	Trojan Decommissioning/Restoration		800	800
15	Terminated Hydro Facilities		1,407	1,431
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)

		A 2016	B 2017
	Direct Funding Projects		
1	Capital Expenditures	240,790	241,908
2	Plant-In-Service	225,034	377,151
3	SOY CWIP Balance	160,629	183,327
4	EOY CWIP Balance	176,385	48,084
5	Average CWIP Balance	168,507	115,706
6	AFUDC Rate	4.12%	4.32%
7	Total Direct Funding AFUDC	6,942	4,998
	Capital Equipment		
8	Power IT (lapsed)	5,617	4,547
9	Corporate (IT unlapsed/facilities lapsed)	9,887	7,497
10	Total Capital Equipment AFUDC	629	595
11	**Total PS AFUDC**	7,571	5,593

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

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

Table 3H
Calculation of Undistributed Reduction for EN Debt Extension
($000s)

		A	B	C	D
		Initial Proposal, No EN Debt Extension		**Initial Proposal, W/ EN Debt Extension**	
		2016	**2017**	**2016**	**2017**
1	Non-Federal Debt Service	584,720	585,404	209,318	214,739
2	Depreciation	145,275	149,980	145,277	149,981
3	Amortization	88,123	98,824	88,123	98,824
4	Federal Net Interest	221,557	230,700	202,239	181,867
5	MRNR	0	0	386,863	385,179
6	Total	1,039,675	1,064,907	1,031,820	1,030,589
7					
8					
9	**Difference**				
10					
11		**2016**	**2017**		
12	Non-Federal Debt Service	(375,402)	(370,665)		
13	Depreciation	-	-		
14	Amortization	-	-		
15	Federal Net Interest	(19,318)	(48,833)		
16	MRNR	386,863	385,179		
17	**Net Change for Undistributed Reduction**	**(7,855)**	**(34,318)**		

Table 3I: Calculating the EN Debt Extension Revenue Requirement
($000s)

		A	B
	Input from Repayment Study	**2016**	**2017**
1	Non-Federal Principal	(2,655)	18,372
2	Non-Federal Interest	211,973	196,367
3	Federal Principal	492,521	515,001
4	Bond Premiums	-	-
5	Bond Discounts	-	-
6	Federal Interest	246,979	230,666
7	Irrigation Assistance	60,954	51,391
8	Total Repayment Debt Service	1,009,771	1,011,796
9			
10	**Calculation of Revenue Requirement**		
11	Expense	-	-
12	Non-Federal Debt Service (Ln 1 + Ln 2)	209,318	214,739
13	Depreciation	145,275	149,980
14	Amortization	88,123	98,824
15	Federal Net Interest 1/	202,239	181,867
16	MRNR 2/	386,865	385,180
17	**Total Revenue Requirement**	**1,031,820**	**1,030,589**
18			
19			
20			
21			
22	**1/ Net Interest Calculation**		
23	Gross Federal Interest	246,979	230,666
24	Prepay Interest	13,273	12,469
25	AFUDC	(6,160)	(4,749)
26	Capitalization Adjustment	(45,937)	(45,937)
27	Interest Credit	(5,916)	(10,582)
28	Net interest	202,239	181,867
29			
30	**Calculation of Interest Credit**		
31	Beginning cash reserves	372,000	372,000
32	Cash Flow	0	0
33	ending cash reserves	372,000	372,000
34	Average cash reserves	372,000	372,000
35	Income Rates (melded)	1.59%	2.84%
36	Interest credit on reserves	5,916	10,582
37	Prepay Program Interest Earnings	-	-
38	Total interest credit	5,916	10,582
39			
40			
41	**2/ Calculation of MRNR**		
42	Depreciation	145,275	149,980
43	Amortization	88,123	98,824
44	Capitalization Adjustment	(45,937)	(45,937)
45	Prepay Interest	13,273	12,469
46	Prepay Credits	(30,600)	(30,600)
47	Non-Cash Revenues	(3,524)	(3,524)
48	Federal Principal Payments	(492,521)	(515,001)
49	Irrigation Assistance Payments	(60,954)	(51,391)
50	MRNR	386,865	385,180

Table 3J
Agency Services G&A Allocators

	A	B	C	D	E	F	G	H	I
		BP-16/IPR Rates			BP-14 Rates			DRIVERS	COMMENTS
	COST POOL	POWER	F&W	TRAN	POWER	F&W	TRAN		
1	G&A EXEC/PLANNING/ GOVERNANCE	50%		50%	50%		50%	This is a 50-50% cost pool.	50-50% pools serve the general purposes of the agency. There is no consistent measurable method of assigning support costs directly to the beneficiary, they are not directly affected by changes in traditional cost drivers, and there is a lack of causal relationship.
2	G&A APPLICATION SYSTEM SUPPORT	35%		65%	35%		65%	Preset IT application pool with WOs assigned to the pool based on BL benefits	There are two other cost pools for IT applications- one which applies a 50-50% rate and the other which applies a 100-100% rate. Applications put into this cost pool should benefit Power and Transmission 35-65%, respectively. The WO's in this pool are reviewed by the IT CMO office.
3	G&A SECURITY SERVICES	10%	2%	88%	10%	2%	88%	Secuirty* Tier 3 Dept support for Power and Trans	Allocation percents by department are provided by the Security Office. The percents by department are weighted by actual dollars spent by secutiry departments.
4	G&A LEGAL SERVICES	50%		50%	50%		50%	This is a 50-50% cost pool.	Legal Services direct charges a large portion of their costs. Costs not direct charged are posted to this cost pool.
5	G&A HUMAN RESOURCE SERVICES	22%	2%	76%	20%	2%	78%	FTE count by DeptId by function	Update based on FTE count by DeptId. Dept FTE are assigned to Power and Transmission based on functions performed. FTE data comes from HR.
6	G&A ACCOUNTING & FINANCE	45%		55%	45%		55%	Generally 50-50%; exceptions are Budget and Disbursements	Most Finance functions are allocated 50-50%. Exceptions are Budget and Disbursements. For these Depts, costs are allocated based on Power and Trans support by FTE for Budgets, headcount for Payroll, and number of Vouchers for Accounts Payable.
7	G&A SAFETY	18%		82%	13%		87%	Allocation by Safety Office employee	Safety Office provides a list of employees and the percent of time they spend supporting Power, Transmission and Corporate.
8	STRATEGIC INTEGRATION	50%		50%	50%		50%	This is a 50-50% cost pool.	As projects mature, they are passed to either Power or Transmission.
9	RISK MANAGEMENT	60%		40%	60%		40%	CRO sets rate based on workload	Allocation percents by department are provided by the Risk Office.
10	G&A IT ADMINISTRATION	31%		69%	34%		66%	Underlying IT cost pools	This cost pool is based on all other IT cost pools.
11/12	DEDICATED IT PROJECTS	100%		100%	100%		100%	Dedicated IT projects	There are two cost pools for Dedicated IT Projects--one exclusively for Power and the other one for Transmission.
13	G&A IT INFRASTRUCTUR E	23%	2%	75%	24%	2%	74%	Number of IT devices by DeptId/employee by function	IT provides a detailed list of devices by DeptId by Employee. These are assigned to high level agency functions in support of Power, F&W and Transmission.
14	G&A CROSS AGENCY IT PROJECTS	50%		50%	50%		50%	Preset pool with WOs assigned to the pool based on BL benefits	Very few projects are charged to this 50-50% pool.
15	G&A WORKPLACE SERVICES	42%	5%	53%	38%	4%	58%	Square feet for space, FTE for other services	Includes GSA and other leases. Other services include printing, mail services, employee services, space management, office supplies, and office furniture.
16	SUPPLY CHAIN ADMINISTRATION	7%		93%	7%		93%	Underlying Supply Chain cost pools	Rate is based on the underlying rates for all other Supply Chain cost pools.
17	G&A PUBLIC AFFAIRS	45%	5%	50%	45%	5%	50%	This is a 50-50% cost pool.	Allocation percents by department are provided by the Office of Public Affairs.
18	SUPPLY CHAIN PURCHASING SERVICES	39%	27%	34%	41%	26%	33%	Work Orders charged	The rate is determined by Work Order costs in this cost pool charged specifically to IT, EF&W, Power, etc.
19	TECHNOLOGY INNOVATION	50%		50%	50%		50%	This is a 50-50% cost pool.	As projects mature, they are passed to either Power or Transmission.
21/22	G&A WORKPLACE DIRECT PROJECTS	100%		100%	100%		100%	Dedicated workplace services projects	There are two cost pools for Workplace Direct Projects--one exclusively for Power and the other one for Transmission.
23	BILLING & METERING SERVICES	47%		53%	52%		48%	Number of bills and metering support	Study looks at drivers such as the number of bills, complexity of bills, and metering services.
24	CONTRACTING & FORECASTING SRVC	54%		46%	53%		47%	Number of contacts tasks and activities/ forecasts	Based on manager analysis and input in support of contracting and forecasting.

4. FCRPS GENERATION INVESTMENT BASE

4.1 Introduction

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

4.2 Methodology

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

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

BPA conservation investments made after 2011 are amortized over 12 years. A investments made prior to 2011 have been fully amortized and no longer appear in the revenue requirement.

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 projects. Depreciation forecasts factor in plant retirements using the 5-year average of plant retirement by project

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 2016
($000s)

		A	B	C
		BALANCE-AS-OF		AVERAGE
		9/30/2015	9/30/2016	2016
1	**CORPS OF ENGINEERS**			
2	COMPLETED PLANT			
3	HYDROELECTRIC GEN	7,677,834	7,913,939	7,795,886
4	TRANSMISSION	2,700	2,700	2,700
5	TOTAL COMPLETED PLANT	7,680,534	7,916,639	7,798,586
6	ACCUMULATED DEPRECIATION			
7	HYDROELECTRIC GEN	2,403,894	2,507,213	2,455,554
8	TRANSMISSION	930	966	948
9	TOTAL ACCUMULATED DEPRECIATION	2,404,824	2,508,179	2,456,502
10	NET COMPLETED PLANT			
11	HYDROELECTRIC GEN	5,273,940	5,406,726	5,340,332
12	TRANSMISSION	1,770	1,734	1,752
13	TOTAL NET COMPLETED PLANT	5,275,710	5,408,460	5,342,084
14	**BUREAU OF RECLAMATION**			
15	COMPLETED PLANT			
16	HYDROELECTRIC GEN	2,016,795	2,091,180	2,053,988
17	TRANSMISSION	87,434	87,434	87,434
18	TOTAL COMPLETED PLANT	2,104,229	2,178,614	2,141,422
19	ACCUMULATED DEPRECIATION			
20	HYDROELECTRIC GEN	657,285	684,671	670,978
21	TRANSMISSION	30,988	32,153	31,571
22	TOTAL ACCUM DEPRECIATION	688,273	716,824	702,549
23	NET COMPLETED PLANT			
24	HYDROELECTRIC GEN	1,359,510	1,406,509	1,383,010
25	TRANSMISSION	56,446	55,281	55,863
26	TOTAL NET COMPLETED PLANT	1,415,956	1,461,790	1,438,873
27	**CONSERVATION**			
28	CUMULATIVE INVESTMENT	630,584	578,617	604,601
29	ACCUM PREPAID EXPENSE	255,259	152,761	204,010
30	NET CONSERVATION	375,325	425,856	400,591
31	**FISH AND WILDLIFE**			
32	CUMULATIVE INVESTMENT	503,505	555,491	529,498
33	ACCUM PREPAID EXPENSE	184,009	216,493	200,251
34	NET FISH AND WILDLIFE	319,496	338,998	329,247
35	**BPA PLANT (PBL)**			
36	CUMULATIVE INVESTMENT	121,927	130,233	126,080
37	ACCUMULATED DEPRECIATION	72,118	92,453	82,285
38	NET BPA PLANT INVESTMENT	49,809	37,781	43,795
39	**TOTAL NET PLANT INVESTMENT**	7,436,296	7,672,885	7,554,590

Table 4B

FCRPS Investment Base
FY 2017
($000s)

		A	B	C
		BALANCE-AS-OF		AVERAGE
		9/30/2013	9/30/2014	2016
1	**CORPS OF ENGINEERS**			
2	COMPLETED PLANT			
3	HYDROELECTRIC GEN	7,913,939	8,274,383	8,094,161
4	TRANSMISSION	2,700	2,700	2,700
5	TOTAL COMPLETED PLANT	7,916,639	8,277,083	8,096,861
6	ACCUMULATED DEPRECIATION			
7	HYDROELECTRIC GEN	2,507,213	2,614,729	2,560,971
8	TRANSMISSION	966	1,002	984
9	TOTAL ACCUMULATED DEPRECIATION	2,508,179	2,615,731	2,561,955
10	NET COMPLETED PLANT			
11	HYDROELECTRIC GEN	5,406,726	5,659,654	5,533,190
12	TRANSMISSION	1,734	1,698	1,716
13	TOTAL NET COMPLETED PLANT	5,408,460	5,661,352	5,534,906
14	**BUREAU OF RECLAMATION**			
15	COMPLETED PLANT			
16	HYDROELECTRIC GEN	2,091,180	2,160,055	2,125,618
17	TRANSMISSION	87,434	87,434	87,434
18	TOTAL COMPLETED PLANT	2,178,614	2,247,489	2,213,052
19	ACCUMULATED DEPRECIATION			
20	HYDROELECTRIC GEN	684,671	713,013	698,842
21	TRANSMISSION	32,153	33,318	32,736
22	TOTAL ACCUM DEPRECIATION	716,824	746,331	731,578
23	NET COMPLETED PLANT			
24	HYDROELECTRIC GEN	1,406,509	1,447,042	1,426,776
25	TRANSMISSION	55,281	54,116	54,698
26	TOTAL NET COMPLETED PLANT	1,461,790	1,501,158	1,481,474
27	**CONSERVATION**			
28	CUMULATIVE INVESTMENT	578,617	676,217	627,417
29	ACCUM PREPAID EXPENSE	152,761	205,047	178,904
30	NET CONSERVATION	425,856	471,170	448,513
31	**FISH AND WILDLIFE**			
32	CUMULATIVE INVESTMENT	555,491	580,150	567,821
33	ACCUM PREPAID EXPENSE	216,493	248,346	232,419
34	NET FISH AND WILDLIFE	338,998	331,804	335,402
35	**BPA PLANT (PBL)**			
36	CUMULATIVE INVESTMENT	130,233	139,955	135,094
37	ACCUMULATED DEPRECIATION	92,453	113,311	102,882
38	NET BPA PLANT INVESTMENT	37,781	26,645	32,212
39	**TOTAL NET PLANT INVESTMENT**	7,672,885	7,992,128	7,832,507

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

Table 4C
($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
	FY	INVEST	FIRST YEAR	FULL YEAR	ANNUAL DEPR	ACCUM DEPR	CUMUL INVEST	NET INVEST
1	2014	-	-	-	95	1,527	1,910	383
2	2015	-	-	-	95	1,622	1,910	288
3	2016	-	-	-	95	1,717	1,910	193
4	2017	-	-	-	95	1,812	1,910	98

Table 4D
($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
	FY	INVEST	FIRST YEAR	FULL YEAR	ANNUAL DEPR	ACCUM DEPR	CUMUL INVEST	NET INVEST
1	2012		-	-	2,712	10,026	16,089	6,063
2	2013		-	-	2,712	12,738	16,089	3,351
3	2014				2,712	15,450	16,089	639
4	2015				639	16,089	16,089	-

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

Table 4E
($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	2014	19,641	1,964	3,928	14,573	39,174	86,293	47,119	12,410	7,231
2	2015	15,026	1,503	3,005	16,515	54,245	94,101	39,856	8,339	6,687
3	2016	15,504	1,550	3,101	18,447	71,086	101,574	30,489	9,887	5,617
4	2017	12,045	1,204	2,409	20,015	90,466	110,447	19,981	7,497	4,547

Table 4F
($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	2014	801	27	54	577	2,881	9,011	6,130
2	2015	817	28	55	632	3,513	9,827	6,314
3	2016	833	28	56	687	4,200	10,660	6,460
4	2017	850	29	57	744	4,944	11,510	6,566

Table 4G
($000s)

SUMMARY - PBL GENERAL PLANT

	A	B	C	D	E
	FY	ANNUAL DEPR	ACCUM DEPR	CUMUL INVEST	NET INVEST
1	2014	17,957	53,608	113,302	59,694
2	2015	19,954	72,118	121,927	49,809
3	2016	21,941	92,453	130,233	37,781
4	2017	21,493	113,311	139,955	26,645

Table 4H

BPA FISH & WILDLIFE INVESTMENT
($000s)

	A	B	C	D	E	F	G	H
	FY	INVEST	FIRST YEAR	FULL YEAR	ANNUAL AMORT	ACCUM AMORT	CUMUL INVEST	NET INVEST
1	2014	50,000	1,667	3,333	28,832	157,113	456,254	299,141
2	2015	51,807	1,727	3,454	31,452	184,009	503,505	319,496
3	2016	54,807	1,827	3,654	35,305	216,493	555,491	338,998
4	2017	30,795	1,026	2,053	37,989	248,346	580,150	331,804

Table 4I

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

	A	B	C	D	E	F	G	H
	FY	INVEST	FIRST YEAR	FULL YEAR	ANNUAL AMORT	ACCUM AMORT	CUMUL INVEST	NET INVEST
1	2014	75,200	3,134	6,267	29,519	72,006	391,817	319,811
2	2015	92,000	3,834	7,667	36,486	108,492	483,817	375,325
3	2016	94,800	3,950	7,900	44,269	152,761	578,617	425,856
4	2017	97,600	4,067	8,133	52,286	205,047	676,217	471,170

Table 4J

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

	A	B	C	D	E	F	G	H	I	J	K
1											
2											
3		**5-Year**		**2016**	**2016**	**2016**		**2017**	**2017**	**2017**	
4		**Average**	**INVESTMENT**		**DEPR**	**ACCUM**	**INVESTMENT**		**DEPR**	**ACCUM**	**INVESTMENT**
5		**Retirements**	**9/30/15**	**ADDTNS**	**EXP**	**DEPR**	**9/30/16**	**ADDTNS**	**EXP**	**DEPR**	**9/30/17**
6	**BOISE**										
7	GENERATION	-	31,590	2,226	436	11,925	33,816	7,457	501	12,426	41,273
8	**COLUMBIA BASIN**										
9	GENERATION	2,352	1,678,903	45,408	22,672	556,498	1,721,960	60,954	23,350	579,848	1,780,562
10	TRANSMISSION /DELIVERY		84,549		1,127	30,957	84,549		1,127	32,084	84,549
11	TOTAL		1,763,452	45,408	23,799	587,455	1,806,509	60,954	24,477	611,932	1,865,111
12	**GREEN SPRINGS**										
13	GENERATION	-	17,007	-	227	9,072	17,007	-	227	9,299	17,007
14	**HUNGRY HORSE**										
15	GENERATION	84	137,416	8,112	1,886	62,853	145,445	475	1,942	64,795	145,836
16	TRANSMISSION /DELIVERY		1,745		23	805	1,745		23	828	1,745
17	TOTAL		139,161	8,112	1,909	63,658	147,190	475	1,965	65,623	147,581
18	**MINIDOKA-PALISADES**										
19	GENERATION	-	129,780	16,900	1,843	39,315	146,680	-	1,956	41,271	146,680
20	TRANSMISSION /DELIVERY		1,140		15	391	1,140		15	406	1,140
21	TOTAL		130,920	16,900	1,858	39,706	147,820	-	1,971	41,677	147,820
22	**YAKIMA**										
23	GENERATION	1	22,099	4,175	322	5,008	26,273	2,425	366	5,374	28,697
24											
25	**TOTAL USBR**	**2,436**	**2,104,229**	**76,821**	**28,551**	**716,824**	**2,178,614**	**71,311**	**29,507**	**746,331**	**2,247,489**
26											
27	GENERATION		2,016,795		27,386	684,671	2,091,180		28,342	713,013	2,160,055
28	TRANSMISSION		87,434		1,165	32,153	87,434		1,165	33,318	87,434
29	**TOTAL**		**2,104,229**		**28,551**	**716,824**	**2,178,614**		**29,507**	**746,331**	**2,247,489**

Table 4K

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

	A	B	C	D	E	F	G	H	I	J	K	L
1			**5-Year**		**2016**	**2016**	**2016**		**2017**	**2017**	**2017**	
2			**Average**	**INVESTMENT**	**ADDTNS**	**DEPR**	**ACCUM**	**INVESTMENT**	**ADDTNS**	**DEPR**	**ACCUM**	**INVESTMENT**
3			**Retirements**	**9/30/15**		**EXP**	**DEPR**	**9/30/16**		**EXP**	**DEPR**	**9/30/17**
4		BONNEVILLE										
5		GENERATION	2,160	1,221,644	22,030	16,421	408,883	1,241,514	21,354	16,681	425,564	1,260,708
6		TRANSMISSION		2,700		36	966	2,700		36	1,002	2,700
7		TOTAL		1,224,344	22,030	16,457	409,849	1,244,214	21,354	16,717	426,566	1,263,408
8		OTHER PROJECTS										
9		(GENERATION ONLY)										
10		ALBENI FALLS	413	59,224	2,980	807	23,213	61,791	845	827	24,040	62,223
11		CHIEF JOSEPH	622	702,966	14,442	9,465	307,649	716,786	165,164	10,654	318,303	881,328
12		COUGAR	0	54,153	1,878	735	8,129	56,031	0	747	8,876	56,031
13		DETROIT-BIG CLIFF	60	125,429	3,669	1,696	32,149	129,038	960	1,727	33,876	129,938
14		DWORSHAK	100	313,366	2,017	4,191	120,451	315,283	0	4,203	124,654	315,183
15		GREEN PETER-FOSTER	10	68,205	215	911	25,550	68,410	6,510	955	26,505	74,910
16		HILLS CREEK	14	27,735	12,220	451	13,391	39,941	12,053	613	14,004	51,980
17		ICE HARBOR	37	200,434	4,934	2,705	88,226	205,331	32,333	2,953	91,179	237,627
18		JOHN DAY	259	560,972	10,063	7,545	236,873	570,776	19,287	7,737	244,610	589,804
19		LIBBY	313	452,121	820	6,032	166,920	452,628	3,900	6,059	172,979	456,215
20		LITTLE GOOSE	85	247,362	6,003	3,338	109,337	253,280	4,868	3,409	112,746	258,063
21		LOOKOUT POINT-DEXTER	483	126,088	20,078	1,812	42,635	145,683	6,052	1,980	44,615	151,252
22		LOST CREEK	50	33,876	1,000	458	13,802	34,826	1,760	476	14,278	36,536
23		LOWER GRANITE	579	408,099	3,630	5,462	149,206	411,150	3,036	5,498	154,704	413,607
24		LOWER MONUMENTAL	141	274,675	6,725	3,706	121,642	281,259	0	3,749	125,391	281,118
25		MCNARY	711	520,399	24,780	7,099	209,457	544,468	10,423	7,324	216,781	554,180
26		THE DALLES	207	498,180	10,729	6,713	220,198	508,702	17,295	6,897	227,095	525,790
27		LOWER SNAKE F&W		246,249		3,283	8,204	246,249		3,283	11,487	246,249
28		COLUMBIA R. FISH BYPASS	1,084	1,536,657	95,220	20,489	201,298	1,630,793	61,932	21,744	223,042	1,691,641
29		TOTAL OTHER		6,456,190	221,403	86,898	2,098,330	6,672,425	346,418	90,835	2,189,165	7,013,675
30												
31		**TOTAL CORPS**		**7,680,534**	**243,433**	**103,355**	**2,508,179**	**7,916,639**	**367,772**	**107,552**	**2,615,731**	**8,277,083**
32												
33		GENERATION		7,677,834		103,319	2,507,213	7,913,939		107,516	2,614,729	8,274,383
34		TRANSMISSION		2,700		36	966	2,700		36	1,002	2,700
35		**TOTAL**		**7,680,534**		**103,355**	**2,508,179**	**7,916,639**		**107,552**	**2,615,731**	**8,277,083**
36												
37	1/	Includes USFW Plant Investment		242,068		3,228	54,586	242,068		3,228	57,814	242,068
38	2/	Includes FAS 71 Intangible Asset		641,196		8,549	66,430	641,196		8,549	74,979	641,196

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

5.4 Interest Credits on Prepay Funds

The funds generated by the prepay program are held in the Bonneville Fund and earn interest until they have been expended. The interest earnings reflect the expected drawdown of the funds. The method for calculating interest is the same as that used to calculate total interest income. As of this Initial Proposal, BPA expects to have spent all prepay funds prior to the beginning of the 2016-2017 rate period.

5.5 Interest Income (Repayment Program Calculation)

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

5.6 Allocation of Interest Credit

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

The Non-Slice cost pool receives a credit that is the net of the total annual credit calculated in the generation revenue requirement less the amount calculated for the Composite cost pool and the interest earned on the prepay funds. The Non-Slice allocation may be negative or positive depending on the relationship between the Composite cost pool allocation and the total annual credit.

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

		A	B
	Calculation of Total Interest Income	**2016**	**2017**
1	Cash Flow Generated	-	-
2			
3	SOY Cash Balance 1/	250,000	250,000
4	EOY Cash Balance	250,000	250,000
5	Average Cash Balance	250,000	250,000
6			
7	Interest Income Rate	1.59%	2.84%
8	Interest on BPA Fund/Investments	3,976	7,111
9			
10	Repayment Study Interest Credit	3,209	5,998
11			
12	Funds Held for Others		
13	SOY Cash Balance	122,000	122,000
14	Drawdown of Prepay cash	-	-
15	EOY Cash Balance 1/	122,000	122,000
16	Average Cash Balance	122,000	122,000
17	Interest Income	1,940	3,470
18			
19	Total Interest Credit (ln 8 + 10 + 17)	9,124	16,580
20			
21			
22	**Allocation between TRM Cost Pools**	**2016**	**2017**
23	Reserves Prior to FY 2002	570,255	570,255
24	Adjustments for pre-2002 Sales/Purchases	-	0
25	Other Adjustments	-	0
26	Total Composite Cost Pool Reserves (ln 23 + ln 24 + ln 25)	570,255	570,255
27	Interest rate	1.59%	2.84%
28	Composite Pool Interest Credit (ln 26 X ln 27)	(9,068)	(16,221)
29	Total interest Credit from Rev Req	(9,124)	(16,580)
30	Non-Slice Pool interest credit (ln 29 - ln 28)	(56)	(359)

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

		A	B	C
		2016	**2017**	**Repayment Period**
1	Annual Cash Surplus/(Deficit)	(36,051)	(131,137)	
2				
3	Adjustments			
4				
5	SOY Cash Balance 1/	250,000	213,949	82,813
6	EOY Cash Balance	213,949	82,813	82,813
7	Average Cash Balance	231,975	148,381	82,813
8				
9	Interest Income Rate	0	0	0
10	Interest on BPA Fund/Investments	3,689	4,221	2,356
11				
12	Repayment Study Interest Income	3,209	5,998	
13				
14	Funds Held for Others			
15	SOY Cash Balance	122,000	122,000	122,000
16	EOY Cash Balance 1/	122,000	122,000	122,000
17	Average Cash Balance	122,000	122,000	122,000
18	Interest Income	1,940	3,470	3,470
19				
20	Prepayment Program Proceeds			
21	SOY Cash Balance	-	-	-
22	EOY Cash Balance	-	-	-
23	Average Cash Balance	-	-	-
24	BPA Fund Rate	0	0	
25	Interest Income	-	-	-
26				
27	Annual Interest Income	8,838	13,689	5,826
28				
29	credit for end of prior year	5,916	9,556	
30	in-year cash flow (rep study)	3,209	5,998	
31	total credit for first interation	9,125	15,554	

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

		A	B	C
		2016	**2017**	**Repayment Period**
1	Annual Cash Surplus/(Deficit)	62,060	(35,733)	
2				
3	Adjustments			
4				
5	SOY Cash Balance 1/	250,000	312,060	276,328
6	EOY Cash Balance	312,060	276,328	276,328
7	Average Cash Balance	281,030	294,194	276,328
8				
9	Interest Income Rate	0	0	0
10	Interest on BPA Fund/Investments	4,469	8,369	7,860
11				
12	Repayment Study Interest Income	3,209	5,998	
13				
14	Funds Held for Others			
15	SOY Cash Balance	122,000	122,000	122,000
16	EOY Cash Balance 1/	122,000	122,000	122,000
17	Average Cash Balance	122,000	122,000	122,000
18	Interest Income	1,940	3,470	3,470
19				
20	Prepayment Program Proceeds			
21	SOY Cash Balance	-	-	-
22	EOY Cash Balance	-	-	-
23	Average Cash Balance	-	-	-
24	BPA Fund Rate	0	0	
25	Interest Income	-	-	-
26				
27	Annual Interest Income	9,618	17,837	11,330
28				
29	credit for end of prior year	5,916	12,347	
30	in-year cash flow (rep study)	3,209	5,998	
31	total credit for first interation	9,125	18,345	

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 190 basis points depending on the length of time to maturity and call option. The markup estimate reflects an interagency agreement that Treasury price BPA bonds at a level comparable to securities (bonds) issued by U.S. government corporations. The markup estimate reflects the average basis point markup on recent intermediate and long-term bonds issued by BPA.

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

6.4 Deflators

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

$[(FY1/100) \times 0.5] + 1 = \text{Cumulative Price Deflator1}$

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.

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

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

To the extent deflators are used in developing the FY 2016-2017 spending levels they are based on the price deflators from the September 2013 GI Base Case forecast.

United States Government **Department of Energy**

memorandum

Bonneville Power Administration

DATE:

REPLY TO ATTN OF: FTC-2

SUBJECT: FY 2014 Interest Rate and Inflation Forecast

TO: See Attached "cc:" List

Please see the attached BPA interest rate and inflation forecast for the period FY 2014 through 2043.

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 2014 forecast is summarized in the following tables:

- Table 1: 30 Year Treasury Yields and BPA Borrowing Rates
- Table 2: Forecast Comparison – 30 Year BPA Borrowing Rate – Callable at Par
- Table 3: 20 Year Treasury Yields and BPA Borrowing Rates
- Table 4: 15 Year Treasury Yields and BPA Borrowing Rates
- Table 5: BPA FY 2014 Appropriation Borrowing Rate Forecast
- Table 6: BPA FY 2014 BPA Borrowing Rate – No Premium
- Table 7: BPA FY 2014 BPA Borrowing Rate – Coupon Scale-Down Redemption Premium
- Table 8: BPA FY 2014 BPA Borrowing Rate – Callable at Par
- Table 9: BPA FY 2014 Third-Party Taxable Borrowing Rate Forecast
- Table 10: BPA FY 2014 Third-Party Tax-Exempt Borrowing Rate Forecast
- Table 11: BPA FY 2014 FERC Borrowing Rate (Bank Prime) Forecast
- Table 12: BPA FY 2014 May 3-Month LIBOR Rate Forecast
- Table 13: Comparison of FY 2014 Inflation Forecast Components

Borrowing Rate Forecast Methodology

The FY 2014 forecast is based on the Global Insight (GI) Third Quarter September 2013 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. A callable at par call option 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; this 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. The premium for these two call options are calculated using historical spread premiums.

Table Descriptions

Tables 1, 3 and 4: Shows the steps involved to arrive at the BPA borrowing rate.
Table 2: Shows the difference between the BPA borrowing rate - callable at par between last year and this year.
Table 5: Forecasts a rate equivalent to the Treasury yield curve.
Table 6: Forecasts the rate at which Bonneville would borrow from the U.S. Treasury for a bullet bond with no call option.
Table 7: Forecasts the rate at which Bonneville would borrow from the U.S. Treasury for a bullet bond with a callable at par call option.
Table 8: Forecasts the rate at which Bonneville would borrow from the U.S. Treasury for a bullet bond with a coupon scale-down call option.
Table 9: Forecasts the rate at which Bonneville would back third-party bonds on a taxable basis, as with the Lease Financing Program.
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 2013 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 2009. The projected change in the GDP price deflator and comparison with the FY 2013 inflation forecast is summarized in Table 13. Column A shows the projected trend in GDP inflation rates between 2014-2043 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 2014 Interest Rate and Inflation Forecasts, please contact Anna-Lisa Miller at (503) 230-4243.

Anna-Lisa Miller
Financial Analyst, Debt and Investment Management
Attachment

cc:
See Front List
Official File –
http://internal.bpa.gov/finance/FT/FTC/Common%20Agency%20Assumptions/Forms/AllItems.aspx

Table 1
30 Year Treasury Yields and BPA Borrowing Rates
FY 2014 Forecast of BPA Borrowing Rates

Calendar/Fiscal Years 2014-2043

Year	A Bond Rate 1/ Calendar Year	B Bond Rate Fiscal Year	C BPA Rate 2/ No Premium Fiscal Year	D BPA Rate 3/ Coupon Scale-Down Fiscal Year	E BPA Rate 4/ Callable at Par Fiscal Year
2013	3.22				
2014	3.91	3.74	4.40	5.60	5.80
2015	4.17	4.11	4.73	5.93	6.13
2016	4.59	4.49	5.07	6.27	6.47
2017	4.75	4.71	5.25	6.45	6.65
2018	4.77	4.76	5.26	6.46	6.66
2019	4.77	4.77	5.27	6.47	6.67
2020	4.77	4.77	5.27	6.47	6.67
2021	4.77	4.77	5.27	6.47	6.67
2022	4.77	4.77	5.27	6.47	6.67
2023	4.77	4.77	5.27	6.47	6.67
2024	4.77	4.77	5.27	6.47	6.67
2025	4.77	4.77	5.27	6.47	6.67
2026	4.77	4.77	5.27	6.47	6.67
2027	4.77	4.77	5.27	6.47	6.67
2028	4.77	4.77	5.27	6.47	6.67
2029	4.77	4.77	5.27	6.47	6.67
2030	4.77	4.77	5.27	6.47	6.67
2031	4.77	4.77	5.27	6.47	6.67
2032	4.77	4.77	5.27	6.47	6.67
2033	4.77	4.77	5.27	6.47	6.67
2034	4.77	4.77	5.27	6.47	6.67
2035	4.77	4.77	5.27	6.47	6.67
2036	4.77	4.77	5.27	6.47	6.67
2037	4.77	4.77	5.27	6.47	6.67
2038	4.77	4.77	5.27	6.47	6.67
2039	4.77	4.77	5.27	6.47	6.67
2040	4.77	4.77	5.27	6.47	6.67
2041	4.77	4.77	5.27	6.47	6.67
2042	4.77	4.77	5.27	6.47	6.67
2043	4.77	4.77	5.27	6.47	6.67

1/ Global Insight: The U.S. Economy: 30-Year Focus, September 2013 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 2014 vs. BPA FY 2013

Calendar/Fiscal Years 2014-2043

Year	A FY 2014 Forecast BPA Rate 1/ Callable at Par	B FY 2013 Forecast BPA Rate 2/ Callable at Par	C Difference (A-B)
2014	5.80	5.76	0.04
2015	6.13	6.11	0.02
2016	6.47	6.37	0.10
2017	6.65	6.40	0.25
2018	6.66	6.43	0.23
2019	6.67	6.43	0.24
2020	6.67	6.43	0.24
2021	6.67	6.43	0.24
2022	6.67	6.43	0.24
2023	6.67	6.43	0.24
2024	6.67	6.43	0.24
2025	6.67	6.43	0.24
2026	6.67	6.43	0.24
2027	6.67	6.43	0.24
2028	6.67	6.43	0.24
2029	6.67	6.43	0.24
2030	6.67	6.43	0.24
2031	6.67	6.43	0.24
2032	6.67	6.43	0.24
2033	6.67	6.43	0.24
2034	6.67	6.43	0.24
2035	6.67	6.43	0.24
2036	6.67	6.43	0.24
2037	6.67	6.43	0.24
2038	6.67	6.43	0.24
2039	6.67	6.43	0.24
2040	6.67	6.43	0.24
2041	6.67	6.43	0.24
2042	6.67	6.43	0.24
2043	6.67		

1/ Global Insight: The U.S. Economy: 30-Year Focus, September 2013 Forecast, Base Case.

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

Table 3

20 Year Treasury Yields and BPA Borrowing Rates

FY 2014 Forecast of BPA Borrowing Rates

Calendar/Fiscal Years 2014-2043

Year	A Bond Rate 1/ Calendar Year	B Bond Rate Fiscal Year	C BPA Rate 2/ No Premium Fiscal Year	D BPA Rate 3/ Coupon Scale-Down Fiscal Year	E BPA Rate 4/ Callable at Par Fiscal Year
2013	2.69				
2014	3.41	3.23	3.75	4.78	4.98
2015	3.70	3.63	4.13	5.16	5.36
2016	4.20	4.08	4.57	5.60	5.80
2017	4.62	4.51	5.00	6.03	6.23
2018	4.68	4.67	5.14	6.17	6.37
2019	4.68	4.68	5.16	6.19	6.39
2020	4.68	4.68	5.16	6.19	6.39
2021	4.68	4.68	5.16	6.19	6.39
2022	4.68	4.68	5.16	6.19	6.39
2023	4.68	4.68	5.16	6.19	6.39
2024	4.68	4.68	5.16	6.19	6.39
2025	4.68	4.68	5.16	6.19	6.39
2026	4.68	4.68	5.16	6.19	6.39
2027	4.68	4.68	5.16	6.19	6.39
2028	4.68	4.68	5.16	6.19	6.39
2029	4.68	4.68	5.16	6.19	6.39
2030	4.68	4.68	5.16	6.19	6.39
2031	4.68	4.68	5.16	6.19	6.39
2032	4.68	4.68	5.16	6.19	6.39
2033	4.68	4.68	5.16	6.19	6.39
2034	4.68	4.68	5.16	6.19	6.39
2035	4.68	4.68	5.16	6.19	6.39
2036	4.68	4.68	5.16	6.19	6.39
2037	4.68	4.68	5.16	6.19	6.39
2038	4.68	4.68	5.16	6.19	6.39
2039	4.68	4.68	5.16	6.19	6.39
2040	4.68	4.68	5.16	6.19	6.39
2041	4.68	4.68	5.16	6.19	6.39
2042	4.68	4.68	5.16	6.19	6.39
2043	4.68	4.68	5.16	6.19	6.39

1/ Global Insight: The U.S. Economy: 30-Year Focus, September 2013 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 2014 Forecast of BPA Borrowing Rates

Calendar/Fiscal Years 2014-2043

Year	A Bond Rate 1/ Calendar Year	B Bond Rate Fiscal Year	C BPA Rate 2/ No Premium Fiscal Year	D BPA Rate 3/ Coupon Scale-Down Fiscal Year	E BPA Rate 4/ Callable at Par Fiscal Year
2013	2.42				
2014	3.16	2.98	3.42	4.36	4.56
2015	3.46	3.39	3.84	4.78	4.98
2016	4.01	3.87	4.32	5.27	5.47
2017	4.55	4.41	4.87	5.82	6.02
2018	4.64	4.62	5.08	6.02	6.22
2019	4.64	4.64	5.10	6.05	6.25
2020	4.64	4.64	5.10	6.05	6.25
2021	4.64	4.64	5.10	6.05	6.25
2022	4.64	4.64	5.10	6.05	6.25
2023	4.64	4.64	5.10	6.05	6.25
2024	4.64	4.64	5.10	6.05	6.25
2025	4.64	4.64	5.10	6.05	6.25
2026	4.64	4.64	5.10	6.05	6.25
2027	4.64	4.64	5.10	6.05	6.25
2028	4.64	4.64	5.10	6.05	6.25
2029	4.64	4.64	5.10	6.05	6.25
2030	4.64	4.64	5.10	6.05	6.25
2031	4.64	4.64	5.10	6.05	6.25
2032	4.64	4.64	5.10	6.05	6.25
2033	4.64	4.64	5.10	6.05	6.25
2034	4.64	4.64	5.10	6.05	6.25
2035	4.64	4.64	5.10	6.05	6.25
2036	4.64	4.64	5.10	6.05	6.25
2037	4.64	4.64	5.10	6.05	6.25
2038	4.64	4.64	5.10	6.05	6.25
2039	4.64	4.64	5.10	6.05	6.25
2040	4.64	4.64	5.10	6.05	6.25
2041	4.64	4.64	5.10	6.05	6.25
2042	4.64	4.64	5.10	6.05	6.25
2043	4.64	4.64	5.10	6.05	6.25

1/ Global Insight: The U.S. Economy: 30-Year Focus, September 2013 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 2014 Appropriation Borrowing Rate Forecast 1/

Fiscal Years 2014-2043

(continued on next page)

Maturity

Year	1 Year	2 Year	3 Year	4 Year	5 Year	6 Year	7 Year	8 Year	9 Year	10 Year	11 Year	12 Year	13 Year	14 Year	15 Year
2014 2/	0.24	0.53	1.01	1.44	1.74	1.85	2.40	2.61	2.80	2.92	3.02	3.13	3.23	3.28	3.38
2015	0.53	0.82	1.16	1.51	1.86	2.12	2.38	2.63	2.89	3.15	3.20	3.24	3.29	3.34	3.39
2016	2.10	2.37	2.54	2.71	2.88	3.03	3.19	3.35	3.51	3.67	3.71	3.75	3.79	3.83	3.87
2017	3.56	3.76	3.85	3.94	4.03	4.09	4.15	4.20	4.26	4.32	4.34	4.36	4.38	4.40	4.41
2018	3.93	4.14	4.22	4.30	4.38	4.42	4.46	4.49	4.53	4.57	4.58	4.59	4.60	4.61	4.62
2019	3.95	4.17	4.25	4.33	4.40	4.44	4.48	4.52	4.56	4.60	4.61	4.62	4.62	4.63	4.64
2020	3.95	4.17	4.25	4.33	4.40	4.44	4.48	4.52	4.56	4.60	4.61	4.62	4.62	4.63	4.64
2021	3.95	4.17	4.25	4.33	4.40	4.44	4.48	4.52	4.56	4.60	4.61	4.62	4.62	4.63	4.64
2022	3.95	4.17	4.25	4.33	4.40	4.44	4.48	4.52	4.56	4.60	4.61	4.62	4.62	4.63	4.64
2023	3.95	4.17	4.25	4.33	4.40	4.44	4.48	4.52	4.56	4.60	4.61	4.62	4.62	4.63	4.64
2024	3.95	4.17	4.25	4.33	4.40	4.44	4.48	4.52	4.56	4.60	4.61	4.62	4.62	4.63	4.64
2025	3.95	4.17	4.25	4.33	4.40	4.44	4.48	4.52	4.56	4.60	4.61	4.62	4.62	4.63	4.64
2026	3.95	4.17	4.25	4.33	4.40	4.44	4.48	4.52	4.56	4.60	4.61	4.62	4.62	4.63	4.64
2027	3.95	4.17	4.25	4.33	4.40	4.44	4.48	4.52	4.56	4.60	4.61	4.62	4.62	4.63	4.64
2028	3.95	4.17	4.25	4.33	4.40	4.44	4.48	4.52	4.56	4.60	4.61	4.62	4.62	4.63	4.64
2029	3.95	4.17	4.25	4.33	4.40	4.44	4.48	4.52	4.56	4.60	4.61	4.62	4.62	4.63	4.64
2030	3.95	4.17	4.25	4.33	4.40	4.44	4.48	4.52	4.56	4.60	4.61	4.62	4.62	4.63	4.64
2031	3.95	4.17	4.25	4.33	4.40	4.44	4.48	4.52	4.56	4.60	4.61	4.62	4.62	4.63	4.64
2032	3.95	4.17	4.25	4.33	4.40	4.44	4.48	4.52	4.56	4.60	4.61	4.62	4.62	4.63	4.64
2033	3.95	4.17	4.25	4.33	4.40	4.44	4.48	4.52	4.56	4.60	4.61	4.62	4.62	4.63	4.64
2034	3.95	4.17	4.25	4.33	4.40	4.44	4.48	4.52	4.56	4.60	4.61	4.62	4.62	4.63	4.64
2035	3.95	4.17	4.25	4.33	4.40	4.44	4.48	4.52	4.56	4.60	4.61	4.62	4.62	4.63	4.64
2036	3.95	4.17	4.25	4.33	4.40	4.44	4.48	4.52	4.56	4.60	4.61	4.62	4.62	4.63	4.64
2037	3.95	4.17	4.25	4.33	4.40	4.44	4.48	4.52	4.56	4.60	4.61	4.62	4.62	4.63	4.64
2038	3.95	4.17	4.25	4.33	4.40	4.44	4.48	4.52	4.56	4.60	4.61	4.62	4.62	4.63	4.64
2039	3.95	4.17	4.25	4.33	4.40	4.44	4.48	4.52	4.56	4.60	4.61	4.62	4.62	4.63	4.64
2040	3.95	4.17	4.25	4.33	4.40	4.44	4.48	4.52	4.56	4.60	4.61	4.62	4.62	4.63	4.64
2041	3.95	4.17	4.25	4.33	4.40	4.44	4.48	4.52	4.56	4.60	4.61	4.62	4.62	4.63	4.64
2042	3.95	4.17	4.25	4.33	4.40	4.44	4.48	4.52	4.56	4.60	4.61	4.62	4.62	4.63	4.64
2043	3.95	4.17	4.25	4.33	4.40	4.44	4.48	4.52	4.56	4.60	4.61	4.62	4.62	4.63	4.64

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2013 Forecast, Base Case.

2\ FY 2014 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 2014 Appropriation Borrowing Rate Forecast 1/

Fiscal Years 2014-2043

Maturity																
16 Year	17 Year	18 Year	19 Year	20 Year	21 Year	22 Year	23 Year	24 Year	25 Year	26 Year	27 Year	28 Year	29 Year	30 Year	50 Year	Year
3.44	3.50	3.50	3.58	3.63	3.63	3.63	3.74	3.75	3.75	3.75	3.75	3.88	3.88	3.88	3.88	2014 2/
3.44	3.48	3.53	3.58	3.63	3.68	3.72	3.77	3.82	3.87	3.92	3.97	4.01	4.06	4.11	4.11	2015
3.91	3.95	4.00	4.04	4.08	4.12	4.16	4.20	4.24	4.28	4.32	4.36	4.41	4.45	4.49	4.49	2016
4.43	4.45	4.47	4.49	4.51	4.53	4.55	4.57	4.59	4.61	4.63	4.65	4.67	4.69	4.71	4.71	2017
4.63	4.64	4.65	4.66	4.67	4.68	4.69	4.69	4.70	4.71	4.72	4.73	4.74	4.75	4.76	4.76	2018
4.65	4.66	4.67	4.67	4.68	4.69	4.70	4.71	4.72	4.72	4.73	4.74	4.75	4.76	4.77	4.77	2019
4.65	4.66	4.67	4.67	4.68	4.69	4.70	4.71	4.72	4.72	4.73	4.74	4.75	4.76	4.77	4.77	2020
4.65	4.66	4.67	4.67	4.68	4.69	4.70	4.71	4.72	4.72	4.73	4.74	4.75	4.76	4.77	4.77	2021
4.65	4.66	4.67	4.67	4.68	4.69	4.70	4.71	4.72	4.72	4.73	4.74	4.75	4.76	4.77	4.77	2022
4.65	4.66	4.67	4.67	4.68	4.69	4.70	4.71	4.72	4.72	4.73	4.74	4.75	4.76	4.77	4.77	2023
4.65	4.66	4.67	4.67	4.68	4.69	4.70	4.71	4.72	4.72	4.73	4.74	4.75	4.76	4.77	4.77	2024
4.65	4.66	4.67	4.67	4.68	4.69	4.70	4.71	4.72	4.72	4.73	4.74	4.75	4.76	4.77	4.77	2025
4.65	4.66	4.67	4.67	4.68	4.69	4.70	4.71	4.72	4.72	4.73	4.74	4.75	4.76	4.77	4.77	2026
4.65	4.66	4.67	4.67	4.68	4.69	4.70	4.71	4.72	4.72	4.73	4.74	4.75	4.76	4.77	4.77	2027
4.65	4.66	4.67	4.67	4.68	4.69	4.70	4.71	4.72	4.72	4.73	4.74	4.75	4.76	4.77	4.77	2028
4.65	4.66	4.67	4.67	4.68	4.69	4.70	4.71	4.72	4.72	4.73	4.74	4.75	4.76	4.77	4.77	2029
4.65	4.66	4.67	4.67	4.68	4.69	4.70	4.71	4.72	4.72	4.73	4.74	4.75	4.76	4.77	4.77	2030
4.65	4.66	4.67	4.67	4.68	4.69	4.70	4.71	4.72	4.72	4.73	4.74	4.75	4.76	4.77	4.77	2031
4.65	4.66	4.67	4.67	4.68	4.69	4.70	4.71	4.72	4.72	4.73	4.74	4.75	4.76	4.77	4.77	2032
4.65	4.66	4.67	4.67	4.68	4.69	4.70	4.71	4.72	4.72	4.73	4.74	4.75	4.76	4.77	4.77	2033
4.65	4.66	4.67	4.67	4.68	4.69	4.70	4.71	4.72	4.72	4.73	4.74	4.75	4.76	4.77	4.77	2034
4.65	4.66	4.67	4.67	4.68	4.69	4.70	4.71	4.72	4.72	4.73	4.74	4.75	4.76	4.77	4.77	2035
4.65	4.66	4.67	4.67	4.68	4.69	4.70	4.71	4.72	4.72	4.73	4.74	4.75	4.76	4.77	4.77	2036
4.65	4.66	4.67	4.67	4.68	4.69	4.70	4.71	4.72	4.72	4.73	4.74	4.75	4.76	4.77	4.77	2037
4.65	4.66	4.67	4.67	4.68	4.69	4.70	4.71	4.72	4.72	4.73	4.74	4.75	4.76	4.77	4.77	2038
4.65	4.66	4.67	4.67	4.68	4.69	4.70	4.71	4.72	4.72	4.73	4.74	4.75	4.76	4.77	4.77	2039
4.65	4.66	4.67	4.67	4.68	4.69	4.70	4.71	4.72	4.72	4.73	4.74	4.75	4.76	4.77	4.77	2040
4.65	4.66	4.67	4.67	4.68	4.69	4.70	4.71	4.72	4.72	4.73	4.74	4.75	4.76	4.77	4.77	2041
4.65	4.66	4.67	4.67	4.68	4.69	4.70	4.71	4.72	4.72	4.73	4.74	4.75	4.76	4.77	4.77	2042
4.65	4.66	4.67	4.67	4.68	4.69	4.70	4.71	4.72	4.72	4.73	4.74	4.75	4.76	4.77	4.77	2043

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2013 Forecast, Base Case.

2\ FY 2014 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 2014 BPA Borrowing Rate - No Premium 1/

Fiscal Years 2014-2043

(continued on next page)

Maturity

Year	1 Year	2 Year	3 Year	4 Year	5 Year	6 Year	7 Year	8 Year	9 Year	10 Year	11 Year	12 Year	13 Year	14 Year	15 Year
2014	0.30	0.57	1.02	1.47	1.93	2.16	2.39	2.63	2.86	3.09	3.16	3.22	3.29	3.35	3.42
2015	0.67	1.01	1.44	1.86	2.28	2.53	2.78	3.03	3.29	3.54	3.60	3.66	3.72	3.78	3.84
2016	2.29	2.61	2.85	3.09	3.32	3.47	3.62	3.77	3.93	4.08	4.13	4.18	4.23	4.27	4.32
2017	3.77	4.04	4.19	4.35	4.51	4.55	4.60	4.65	4.70	4.75	4.77	4.80	4.82	4.85	4.87
2018	4.17	4.46	4.60	4.74	4.88	4.91	4.94	4.96	4.99	5.02	5.03	5.04	5.05	5.07	5.08
2019	4.19	4.49	4.63	4.77	4.90	4.93	4.96	4.99	5.02	5.05	5.06	5.07	5.08	5.09	5.10
2020	4.19	4.49	4.63	4.77	4.90	4.93	4.96	4.99	5.02	5.05	5.06	5.07	5.08	5.09	5.10
2021	4.19	4.49	4.63	4.77	4.90	4.93	4.96	4.99	5.02	5.05	5.06	5.07	5.08	5.09	5.10
2022	4.19	4.49	4.63	4.77	4.90	4.93	4.96	4.99	5.02	5.05	5.06	5.07	5.08	5.09	5.10
2023	4.19	4.49	4.63	4.77	4.90	4.93	4.96	4.99	5.02	5.05	5.06	5.07	5.08	5.09	5.10
2024	4.19	4.49	4.63	4.77	4.90	4.93	4.96	4.99	5.02	5.05	5.06	5.07	5.08	5.09	5.10
2025	4.19	4.49	4.63	4.77	4.90	4.93	4.96	4.99	5.02	5.05	5.06	5.07	5.08	5.09	5.10
2026	4.19	4.49	4.63	4.77	4.90	4.93	4.96	4.99	5.02	5.05	5.06	5.07	5.08	5.09	5.10
2027	4.19	4.49	4.63	4.77	4.90	4.93	4.96	4.99	5.02	5.05	5.06	5.07	5.08	5.09	5.10
2028	4.19	4.49	4.63	4.77	4.90	4.93	4.96	4.99	5.02	5.05	5.06	5.07	5.08	5.09	5.10
2029	4.19	4.49	4.63	4.77	4.90	4.93	4.96	4.99	5.02	5.05	5.06	5.07	5.08	5.09	5.10
2030	4.19	4.49	4.63	4.77	4.90	4.93	4.96	4.99	5.02	5.05	5.06	5.07	5.08	5.09	5.10
2031	4.19	4.49	4.63	4.77	4.90	4.93	4.96	4.99	5.02	5.05	5.06	5.07	5.08	5.09	5.10
2032	4.19	4.49	4.63	4.77	4.90	4.93	4.96	4.99	5.02	5.05	5.06	5.07	5.08	5.09	5.10
2033	4.19	4.49	4.63	4.77	4.90	4.93	4.96	4.99	5.02	5.05	5.06	5.07	5.08	5.09	5.10
2034	4.19	4.49	4.63	4.77	4.90	4.93	4.96	4.99	5.02	5.05	5.06	5.07	5.08	5.09	5.10
2035	4.19	4.49	4.63	4.77	4.90	4.93	4.96	4.99	5.02	5.05	5.06	5.07	5.08	5.09	5.10
2036	4.19	4.49	4.63	4.77	4.90	4.93	4.96	4.99	5.02	5.05	5.06	5.07	5.08	5.09	5.10
2037	4.19	4.49	4.63	4.77	4.90	4.93	4.96	4.99	5.02	5.05	5.06	5.07	5.08	5.09	5.10
2038	4.19	4.49	4.63	4.77	4.90	4.93	4.96	4.99	5.02	5.05	5.06	5.07	5.08	5.09	5.10
2039	4.19	4.49	4.63	4.77	4.90	4.93	4.96	4.99	5.02	5.05	5.06	5.07	5.08	5.09	5.10
2040	4.19	4.49	4.63	4.77	4.90	4.93	4.96	4.99	5.02	5.05	5.06	5.07	5.08	5.09	5.10
2041	4.19	4.49	4.63	4.77	4.90	4.93	4.96	4.99	5.02	5.05	5.06	5.07	5.08	5.09	5.10
2042	4.19	4.49	4.63	4.77	4.90	4.93	4.96	4.99	5.02	5.05	5.06	5.07	5.08	5.09	5.10
2043	4.19	4.49	4.63	4.77	4.90	4.93	4.96	4.99	5.02	5.05	5.06	5.07	5.08	5.09	5.10

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2013 Forecast, Base Case.

Table 6

BPA FY 2014 BPA Borrowing Rate - No Premium 1/

Fiscal Years 2014-2043

Maturity

16 Year	17 Year	18 Year	19 Year	20 Year	21 Year	22 Year	23 Year	24 Year	25 Year	26 Year	27 Year	28 Year	29 Year	30 Year	50 Year	Year
3.48	3.55	3.61	3.68	3.75	3.81	3.88	3.94	4.01	4.07	4.14	4.20	4.27	4.33	4.40	4.40	**2014**
3.90	3.95	4.01	4.07	4.13	4.19	4.25	4.31	4.37	4.43	4.49	4.55	4.61	4.67	4.73	4.73	**2015**
4.37	4.42	4.47	4.52	4.57	4.62	4.67	4.72	4.77	4.82	4.87	4.92	4.97	5.02	5.07	5.07	**2016**
4.90	4.92	4.95	4.97	5.00	5.02	5.05	5.07	5.10	5.12	5.15	5.17	5.20	5.22	5.25	5.25	**2017**
5.09	5.10	5.12	5.13	5.14	5.15	5.16	5.18	5.19	5.20	5.21	5.23	5.24	5.25	5.26	5.26	**2018**
5.11	5.12	5.13	5.15	5.16	5.17	5.18	5.19	5.20	5.21	5.22	5.23	5.24	5.26	5.27	5.27	**2019**
5.11	5.12	5.13	5.15	5.16	5.17	5.18	5.19	5.20	5.21	5.22	5.23	5.24	5.26	5.27	5.27	**2020**
5.11	5.12	5.13	5.15	5.16	5.17	5.18	5.19	5.20	5.21	5.22	5.23	5.24	5.26	5.27	5.27	**2021**
5.11	5.12	5.13	5.15	5.16	5.17	5.18	5.19	5.20	5.21	5.22	5.23	5.24	5.26	5.27	5.27	**2022**
5.11	5.12	5.13	5.15	5.16	5.17	5.18	5.19	5.20	5.21	5.22	5.23	5.24	5.26	5.27	5.27	**2023**
5.11	5.12	5.13	5.15	5.16	5.17	5.18	5.19	5.20	5.21	5.22	5.23	5.24	5.26	5.27	5.27	**2024**
5.11	5.12	5.13	5.15	5.16	5.17	5.18	5.19	5.20	5.21	5.22	5.23	5.24	5.26	5.27	5.27	**2025**
5.11	5.12	5.13	5.15	5.16	5.17	5.18	5.19	5.20	5.21	5.22	5.23	5.24	5.26	5.27	5.27	**2026**
5.11	5.12	5.13	5.15	5.16	5.17	5.18	5.19	5.20	5.21	5.22	5.23	5.24	5.26	5.27	5.27	**2027**
5.11	5.12	5.13	5.15	5.16	5.17	5.18	5.19	5.20	5.21	5.22	5.23	5.24	5.26	5.27	5.27	**2028**
5.11	5.12	5.13	5.15	5.16	5.17	5.18	5.19	5.20	5.21	5.22	5.23	5.24	5.26	5.27	5.27	**2029**
5.11	5.12	5.13	5.15	5.16	5.17	5.18	5.19	5.20	5.21	5.22	5.23	5.24	5.26	5.27	5.27	**2030**
5.11	5.12	5.13	5.15	5.16	5.17	5.18	5.19	5.20	5.21	5.22	5.23	5.24	5.26	5.27	5.27	**2031**
5.11	5.12	5.13	5.15	5.16	5.17	5.18	5.19	5.20	5.21	5.22	5.23	5.24	5.26	5.27	5.27	**2032**
5.11	5.12	5.13	5.15	5.16	5.17	5.18	5.19	5.20	5.21	5.22	5.23	5.24	5.26	5.27	5.27	**2033**
5.11	5.12	5.13	5.15	5.16	5.17	5.18	5.19	5.20	5.21	5.22	5.23	5.24	5.26	5.27	5.27	**2034**
5.11	5.12	5.13	5.15	5.16	5.17	5.18	5.19	5.20	5.21	5.22	5.23	5.24	5.26	5.27	5.27	**2035**
5.11	5.12	5.13	5.15	5.16	5.17	5.18	5.19	5.20	5.21	5.22	5.23	5.24	5.26	5.27	5.27	**2036**
5.11	5.12	5.13	5.15	5.16	5.17	5.18	5.19	5.20	5.21	5.22	5.23	5.24	5.26	5.27	5.27	**2037**
5.11	5.12	5.13	5.15	5.16	5.17	5.18	5.19	5.20	5.21	5.22	5.23	5.24	5.26	5.27	5.27	**2038**
5.11	5.12	5.13	5.15	5.16	5.17	5.18	5.19	5.20	5.21	5.22	5.23	5.24	5.26	5.27	5.27	**2039**
5.11	5.12	5.13	5.15	5.16	5.17	5.18	5.19	5.20	5.21	5.22	5.23	5.24	5.26	5.27	5.27	**2040**
5.11	5.12	5.13	5.15	5.16	5.17	5.18	5.19	5.20	5.21	5.22	5.23	5.24	5.26	5.27	5.27	**2041**
5.11	5.12	5.13	5.15	5.16	5.17	5.18	5.19	5.20	5.21	5.22	5.23	5.24	5.26	5.27	5.27	**2042**
5.11	5.12	5.13	5.15	5.16	5.17	5.18	5.19	5.20	5.21	5.22	5.23	5.24	5.26	5.27	5.27	**2043**

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2013 Forecast, Base Case.

Table 7

BPA FY 2014 BPA Borrowing Rate - Coupon Scale-Down Redemption Premium 1/

Fiscal Years 2014-2043

(continued on next page)

Maturity

Year	1 Year	2 Year	3 Year	4 Year	5 Year	6 Year	7 Year	8 Year	9 Year	10 Year	11 Year	12 Year	13 Year	14 Year	15 Year
2014	0.38	0.74	1.28	1.82	2.36	2.68	2.99	3.31	3.63	3.95	4.03	4.12	4.20	4.28	4.36
2015	0.76	1.18	1.69	2.20	2.71	3.05	3.38	3.72	4.06	4.40	4.47	4.55	4.63	4.70	4.78
2016	2.37	2.78	3.11	3.43	3.75	3.99	4.23	4.46	4.70	4.94	5.00	5.07	5.14	5.20	5.27
2017	3.86	4.21	4.45	4.69	4.94	5.07	5.20	5.34	5.47	5.61	5.65	5.69	5.73	5.77	5.82
2018	4.26	4.64	4.86	5.09	5.31	5.42	5.54	5.65	5.76	5.88	5.91	5.94	5.97	5.99	6.02
2019	4.28	4.66	4.89	5.11	5.33	5.45	5.56	5.68	5.79	5.91	5.93	5.96	5.99	6.02	6.05
2020	4.28	4.66	4.89	5.11	5.33	5.45	5.56	5.68	5.79	5.91	5.93	5.96	5.99	6.02	6.05
2021	4.28	4.66	4.89	5.11	5.33	5.45	5.56	5.68	5.79	5.91	5.93	5.96	5.99	6.02	6.05
2022	4.28	4.66	4.89	5.11	5.33	5.45	5.56	5.68	5.79	5.91	5.93	5.96	5.99	6.02	6.05
2023	4.28	4.66	4.89	5.11	5.33	5.45	5.56	5.68	5.79	5.91	5.93	5.96	5.99	6.02	6.05
2024	4.28	4.66	4.89	5.11	5.33	5.45	5.56	5.68	5.79	5.91	5.93	5.96	5.99	6.02	6.05
2025	4.28	4.66	4.89	5.11	5.33	5.45	5.56	5.68	5.79	5.91	5.93	5.96	5.99	6.02	6.05
2026	4.28	4.66	4.89	5.11	5.33	5.45	5.56	5.68	5.79	5.91	5.93	5.96	5.99	6.02	6.05
2027	4.28	4.66	4.89	5.11	5.33	5.45	5.56	5.68	5.79	5.91	5.93	5.96	5.99	6.02	6.05
2028	4.28	4.66	4.89	5.11	5.33	5.45	5.56	5.68	5.79	5.91	5.93	5.96	5.99	6.02	6.05
2029	4.28	4.66	4.89	5.11	5.33	5.45	5.56	5.68	5.79	5.91	5.93	5.96	5.99	6.02	6.05
2030	4.28	4.66	4.89	5.11	5.33	5.45	5.56	5.68	5.79	5.91	5.93	5.96	5.99	6.02	6.05
2031	4.28	4.66	4.89	5.11	5.33	5.45	5.56	5.68	5.79	5.91	5.93	5.96	5.99	6.02	6.05
2032	4.28	4.66	4.89	5.11	5.33	5.45	5.56	5.68	5.79	5.91	5.93	5.96	5.99	6.02	6.05
2033	4.28	4.66	4.89	5.11	5.33	5.45	5.56	5.68	5.79	5.91	5.93	5.96	5.99	6.02	6.05
2034	4.28	4.66	4.89	5.11	5.33	5.45	5.56	5.68	5.79	5.91	5.93	5.96	5.99	6.02	6.05
2035	4.28	4.66	4.89	5.11	5.33	5.45	5.56	5.68	5.79	5.91	5.93	5.96	5.99	6.02	6.05
2036	4.28	4.66	4.89	5.11	5.33	5.45	5.56	5.68	5.79	5.91	5.93	5.96	5.99	6.02	6.05
2037	4.28	4.66	4.89	5.11	5.33	5.45	5.56	5.68	5.79	5.91	5.93	5.96	5.99	6.02	6.05
2038	4.28	4.66	4.89	5.11	5.33	5.45	5.56	5.68	5.79	5.91	5.93	5.96	5.99	6.02	6.05
2039	4.28	4.66	4.89	5.11	5.33	5.45	5.56	5.68	5.79	5.91	5.93	5.96	5.99	6.02	6.05
2040	4.28	4.66	4.89	5.11	5.33	5.45	5.56	5.68	5.79	5.91	5.93	5.96	5.99	6.02	6.05
2041	4.28	4.66	4.89	5.11	5.33	5.45	5.56	5.68	5.79	5.91	5.93	5.96	5.99	6.02	6.05
2042	4.28	4.66	4.89	5.11	5.33	5.45	5.56	5.68	5.79	5.91	5.93	5.96	5.99	6.02	6.05
2043	4.28	4.66	4.89	5.11	5.33	5.45	5.56	5.68	5.79	5.91	5.93	5.96	5.99	6.02	6.05

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2013 Forecast, Base Case.

Table 7

BPA FY 2014 BPA Borrowing Rate - Coupon Scale-Down Redemption Premium 1/

Fiscal Years 2014-2043

Maturity																
16 Year	17 Year	18 Year	19 Year	20 Year	21 Year	22 Year	23 Year	24 Year	25 Year	26 Year	27 Year	28 Year	29 Year	30 Year	50 Year	Year
4.45	4.53	4.61	4.69	4.78	4.86	4.94	5.02	5.10	5.19	5.27	5.35	5.43	5.52	5.60	5.60	**2014**
4.86	4.93	5.01	5.09	5.16	5.24	5.32	5.39	5.47	5.55	5.62	5.70	5.78	5.85	5.93	5.93	**2015**
5.34	5.40	5.47	5.54	5.60	5.67	5.73	5.80	5.87	5.93	6.00	6.07	6.13	6.20	6.27	6.27	**2016**
5.86	5.90	5.94	5.98	6.03	6.07	6.11	6.15	6.20	6.24	6.28	6.32	6.36	6.41	6.45	6.45	**2017**
6.05	6.08	6.11	6.14	6.17	6.20	6.23	6.26	6.29	6.32	6.35	6.37	6.40	6.43	6.46	6.46	**2018**
6.07	6.10	6.13	6.16	6.19	6.21	6.24	6.27	6.30	6.33	6.35	6.38	6.41	6.44	6.47	6.47	**2019**
6.07	6.10	6.13	6.16	6.19	6.21	6.24	6.27	6.30	6.33	6.35	6.38	6.41	6.44	6.47	6.47	**2020**
6.07	6.10	6.13	6.16	6.19	6.21	6.24	6.27	6.30	6.33	6.35	6.38	6.41	6.44	6.47	6.47	**2021**
6.07	6.10	6.13	6.16	6.19	6.21	6.24	6.27	6.30	6.33	6.35	6.38	6.41	6.44	6.47	6.47	**2022**
6.07	6.10	6.13	6.16	6.19	6.21	6.24	6.27	6.30	6.33	6.35	6.38	6.41	6.44	6.47	6.47	**2023**
6.07	6.10	6.13	6.16	6.19	6.21	6.24	6.27	6.30	6.33	6.35	6.38	6.41	6.44	6.47	6.47	**2024**
6.07	6.10	6.13	6.16	6.19	6.21	6.24	6.27	6.30	6.33	6.35	6.38	6.41	6.44	6.47	6.47	**2025**
6.07	6.10	6.13	6.16	6.19	6.21	6.24	6.27	6.30	6.33	6.35	6.38	6.41	6.44	6.47	6.47	**2026**
6.07	6.10	6.13	6.16	6.19	6.21	6.24	6.27	6.30	6.33	6.35	6.38	6.41	6.44	6.47	6.47	**2027**
6.07	6.10	6.13	6.16	6.19	6.21	6.24	6.27	6.30	6.33	6.35	6.38	6.41	6.44	6.47	6.47	**2028**
6.07	6.10	6.13	6.16	6.19	6.21	6.24	6.27	6.30	6.33	6.35	6.38	6.41	6.44	6.47	6.47	**2029**
6.07	6.10	6.13	6.16	6.19	6.21	6.24	6.27	6.30	6.33	6.35	6.38	6.41	6.44	6.47	6.47	**2030**
6.07	6.10	6.13	6.16	6.19	6.21	6.24	6.27	6.30	6.33	6.35	6.38	6.41	6.44	6.47	6.47	**2031**
6.07	6.10	6.13	6.16	6.19	6.21	6.24	6.27	6.30	6.33	6.35	6.38	6.41	6.44	6.47	6.47	**2032**
6.07	6.10	6.13	6.16	6.19	6.21	6.24	6.27	6.30	6.33	6.35	6.38	6.41	6.44	6.47	6.47	**2033**
6.07	6.10	6.13	6.16	6.19	6.21	6.24	6.27	6.30	6.33	6.35	6.38	6.41	6.44	6.47	6.47	**2034**
6.07	6.10	6.13	6.16	6.19	6.21	6.24	6.27	6.30	6.33	6.35	6.38	6.41	6.44	6.47	6.47	**2035**
6.07	6.10	6.13	6.16	6.19	6.21	6.24	6.27	6.30	6.33	6.35	6.38	6.41	6.44	6.47	6.47	**2036**
6.07	6.10	6.13	6.16	6.19	6.21	6.24	6.27	6.30	6.33	6.35	6.38	6.41	6.44	6.47	6.47	**2037**
6.07	6.10	6.13	6.16	6.19	6.21	6.24	6.27	6.30	6.33	6.35	6.38	6.41	6.44	6.47	6.47	**2038**
6.07	6.10	6.13	6.16	6.19	6.21	6.24	6.27	6.30	6.33	6.35	6.38	6.41	6.44	6.47	6.47	**2039**
6.07	6.10	6.13	6.16	6.19	6.21	6.24	6.27	6.30	6.33	6.35	6.38	6.41	6.44	6.47	6.47	**2040**
6.07	6.10	6.13	6.16	6.19	6.21	6.24	6.27	6.30	6.33	6.35	6.38	6.41	6.44	6.47	6.47	**2041**
6.07	6.10	6.13	6.16	6.19	6.21	6.24	6.27	6.30	6.33	6.35	6.38	6.41	6.44	6.47	6.47	**2042**
6.07	6.10	6.13	6.16	6.19	6.21	6.24	6.27	6.30	6.33	6.35	6.38	6.41	6.44	6.47	6.47	**2043**

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2013 Forecast, Base Case.

Table 8

BPA FY 2014 BPA Borrowing Rate - Callable at Par 1/

Fiscal Years 2014-2043

(continued on next page)

Maturity

Year	1 Year	2 Year	3 Year	4 Year	5 Year	6 Year	7 Year	8 Year	9 Year	10 Year	11 Year	12 Year	13 Year	14 Year	15 Year
2014	0.40	0.78	1.34	1.90	2.46	2.80	3.13	3.47	3.81	4.15	4.23	4.32	4.40	4.48	4.56
2015	0.78	1.22	1.75	2.28	2.81	3.17	3.52	3.88	4.24	4.60	4.67	4.75	4.83	4.90	4.98
2016	2.39	2.82	3.17	3.51	3.85	4.11	4.37	4.62	4.88	5.14	5.20	5.27	5.34	5.40	5.47
2017	3.88	4.25	4.51	4.77	5.04	5.19	5.34	5.50	5.65	5.81	5.85	5.89	5.93	5.97	6.02
2018	4.28	4.68	4.92	5.17	5.41	5.54	5.68	5.81	5.94	6.08	6.11	6.14	6.17	6.19	6.22
2019	4.30	4.70	4.95	5.19	5.43	5.57	5.70	5.84	5.97	6.11	6.13	6.16	6.19	6.22	6.25
2020	4.30	4.70	4.95	5.19	5.43	5.57	5.70	5.84	5.97	6.11	6.13	6.16	6.19	6.22	6.25
2021	4.30	4.70	4.95	5.19	5.43	5.57	5.70	5.84	5.97	6.11	6.13	6.16	6.19	6.22	6.25
2022	4.30	4.70	4.95	5.19	5.43	5.57	5.70	5.84	5.97	6.11	6.13	6.16	6.19	6.22	6.25
2023	4.30	4.70	4.95	5.19	5.43	5.57	5.70	5.84	5.97	6.11	6.13	6.16	6.19	6.22	6.25
2024	4.30	4.70	4.95	5.19	5.43	5.57	5.70	5.84	5.97	6.11	6.13	6.16	6.19	6.22	6.25
2025	4.30	4.70	4.95	5.19	5.43	5.57	5.70	5.84	5.97	6.11	6.13	6.16	6.19	6.22	6.25
2026	4.30	4.70	4.95	5.19	5.43	5.57	5.70	5.84	5.97	6.11	6.13	6.16	6.19	6.22	6.25
2027	4.30	4.70	4.95	5.19	5.43	5.57	5.70	5.84	5.97	6.11	6.13	6.16	6.19	6.22	6.25
2028	4.30	4.70	4.95	5.19	5.43	5.57	5.70	5.84	5.97	6.11	6.13	6.16	6.19	6.22	6.25
2029	4.30	4.70	4.95	5.19	5.43	5.57	5.70	5.84	5.97	6.11	6.13	6.16	6.19	6.22	6.25
2030	4.30	4.70	4.95	5.19	5.43	5.57	5.70	5.84	5.97	6.11	6.13	6.16	6.19	6.22	6.25
2031	4.30	4.70	4.95	5.19	5.43	5.57	5.70	5.84	5.97	6.11	6.13	6.16	6.19	6.22	6.25
2032	4.30	4.70	4.95	5.19	5.43	5.57	5.70	5.84	5.97	6.11	6.13	6.16	6.19	6.22	6.25
2033	4.30	4.70	4.95	5.19	5.43	5.57	5.70	5.84	5.97	6.11	6.13	6.16	6.19	6.22	6.25
2034	4.30	4.70	4.95	5.19	5.43	5.57	5.70	5.84	5.97	6.11	6.13	6.16	6.19	6.22	6.25
2035	4.30	4.70	4.95	5.19	5.43	5.57	5.70	5.84	5.97	6.11	6.13	6.16	6.19	6.22	6.25
2036	4.30	4.70	4.95	5.19	5.43	5.57	5.70	5.84	5.97	6.11	6.13	6.16	6.19	6.22	6.25
2037	4.30	4.70	4.95	5.19	5.43	5.57	5.70	5.84	5.97	6.11	6.13	6.16	6.19	6.22	6.25
2038	4.30	4.70	4.95	5.19	5.43	5.57	5.70	5.84	5.97	6.11	6.13	6.16	6.19	6.22	6.25
2039	4.30	4.70	4.95	5.19	5.43	5.57	5.70	5.84	5.97	6.11	6.13	6.16	6.19	6.22	6.25
2040	4.30	4.70	4.95	5.19	5.43	5.57	5.70	5.84	5.97	6.11	6.13	6.16	6.19	6.22	6.25
2041	4.30	4.70	4.95	5.19	5.43	5.57	5.70	5.84	5.97	6.11	6.13	6.16	6.19	6.22	6.25
2042	4.30	4.70	4.95	5.19	5.43	5.57	5.70	5.84	5.97	6.11	6.13	6.16	6.19	6.22	6.25
2043	4.30	4.70	4.95	5.19	5.43	5.57	5.70	5.84	5.97	6.11	6.13	6.16	6.19	6.22	6.25

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2013 Forecast, Base Case.

Table 8

BPA FY 2014 BPA Borrowing Rate - Callable at Par 1/

Fiscal Years 2014-2043

Maturity

16 Year	17 Year	18 Year	19 Year	20 Year	21 Year	22 Year	23 Year	24 Year	25 Year	26 Year	27 Year	28 Year	29 Year	30 Year	50 Year	Year
4.65	4.73	4.81	4.89	4.98	5.06	5.14	5.22	5.30	5.39	5.47	5.55	5.63	5.72	5.80	5.80	**2014**
5.06	5.13	5.21	5.29	5.36	5.44	5.52	5.59	5.67	5.75	5.82	5.90	5.98	6.05	6.13	6.13	**2015**
5.54	5.60	5.67	5.74	5.80	5.87	5.93	6.00	6.07	6.13	6.20	6.27	6.33	6.40	6.47	6.47	**2016**
6.06	6.10	6.14	6.18	6.23	6.27	6.31	6.35	6.40	6.44	6.48	6.52	6.56	6.61	6.65	6.65	**2017**
6.25	6.28	6.31	6.34	6.37	6.40	6.43	6.46	6.49	6.52	6.55	6.57	6.60	6.63	6.66	6.66	**2018**
6.27	6.30	6.33	6.36	6.39	6.41	6.44	6.47	6.50	6.53	6.55	6.58	6.61	6.64	6.67	6.67	**2019**
6.27	6.30	6.33	6.36	6.39	6.41	6.44	6.47	6.50	6.53	6.55	6.58	6.61	6.64	6.67	6.67	**2020**
6.27	6.30	6.33	6.36	6.39	6.41	6.44	6.47	6.50	6.53	6.55	6.58	6.61	6.64	6.67	6.67	**2021**
6.27	6.30	6.33	6.36	6.39	6.41	6.44	6.47	6.50	6.53	6.55	6.58	6.61	6.64	6.67	6.67	**2022**
6.27	6.30	6.33	6.36	6.39	6.41	6.44	6.47	6.50	6.53	6.55	6.58	6.61	6.64	6.67	6.67	**2023**
6.27	6.30	6.33	6.36	6.39	6.41	6.44	6.47	6.50	6.53	6.55	6.58	6.61	6.64	6.67	6.67	**2024**
6.27	6.30	6.33	6.36	6.39	6.41	6.44	6.47	6.50	6.53	6.55	6.58	6.61	6.64	6.67	6.67	**2025**
6.27	6.30	6.33	6.36	6.39	6.41	6.44	6.47	6.50	6.53	6.55	6.58	6.61	6.64	6.67	6.67	**2026**
6.27	6.30	6.33	6.36	6.39	6.41	6.44	6.47	6.50	6.53	6.55	6.58	6.61	6.64	6.67	6.67	**2027**
6.27	6.30	6.33	6.36	6.39	6.41	6.44	6.47	6.50	6.53	6.55	6.58	6.61	6.64	6.67	6.67	**2028**
6.27	6.30	6.33	6.36	6.39	6.41	6.44	6.47	6.50	6.53	6.55	6.58	6.61	6.64	6.67	6.67	**2029**
6.27	6.30	6.33	6.36	6.39	6.41	6.44	6.47	6.50	6.53	6.55	6.58	6.61	6.64	6.67	6.67	**2030**
6.27	6.30	6.33	6.36	6.39	6.41	6.44	6.47	6.50	6.53	6.55	6.58	6.61	6.64	6.67	6.67	**2031**
6.27	6.30	6.33	6.36	6.39	6.41	6.44	6.47	6.50	6.53	6.55	6.58	6.61	6.64	6.67	6.67	**2032**
6.27	6.30	6.33	6.36	6.39	6.41	6.44	6.47	6.50	6.53	6.55	6.58	6.61	6.64	6.67	6.67	**2033**
6.27	6.30	6.33	6.36	6.39	6.41	6.44	6.47	6.50	6.53	6.55	6.58	6.61	6.64	6.67	6.67	**2034**
6.27	6.30	6.33	6.36	6.39	6.41	6.44	6.47	6.50	6.53	6.55	6.58	6.61	6.64	6.67	6.67	**2035**
6.27	6.30	6.33	6.36	6.39	6.41	6.44	6.47	6.50	6.53	6.55	6.58	6.61	6.64	6.67	6.67	**2036**
6.27	6.30	6.33	6.36	6.39	6.41	6.44	6.47	6.50	6.53	6.55	6.58	6.61	6.64	6.67	6.67	**2037**
6.27	6.30	6.33	6.36	6.39	6.41	6.44	6.47	6.50	6.53	6.55	6.58	6.61	6.64	6.67	6.67	**2038**
6.27	6.30	6.33	6.36	6.39	6.41	6.44	6.47	6.50	6.53	6.55	6.58	6.61	6.64	6.67	6.67	**2039**
6.27	6.30	6.33	6.36	6.39	6.41	6.44	6.47	6.50	6.53	6.55	6.58	6.61	6.64	6.67	6.67	**2040**
6.27	6.30	6.33	6.36	6.39	6.41	6.44	6.47	6.50	6.53	6.55	6.58	6.61	6.64	6.67	6.67	**2041**
6.27	6.30	6.33	6.36	6.39	6.41	6.44	6.47	6.50	6.53	6.55	6.58	6.61	6.64	6.67	6.67	**2042**
6.27	6.30	6.33	6.36	6.39	6.41	6.44	6.47	6.50	6.53	6.55	6.58	6.61	6.64	6.67	6.67	**2043**

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2013 Forecast, Base Case.

Table 9

BPA FY 2014 Third-Party Taxable Borrowing Rate Forecast 1/

Fiscal Years 2014-2043

(continued on next page)

Maturity

Year	1 Year	2 Year	3 Year	4 Year	5 Year	6 Year	7 Year	8 Year	9 Year	10 Year	11 Year	12 Year	13 Year	14 Year	15 Year
2014	1.04	1.11	1.49	1.88	2.27	2.58	2.89	3.20	3.52	3.83	3.91	4.00	4.08	4.16	4.25
2015	1.31	1.45	1.88	2.30	2.72	3.06	3.40	3.74	4.08	4.41	4.48	4.54	4.60	4.66	4.73
2016	2.57	3.36	3.60	3.85	4.10	4.30	4.50	4.71	4.91	5.11	5.16	5.20	5.25	5.29	5.34
2017	4.01	4.37	4.53	4.68	4.84	4.93	5.01	5.10	5.19	5.28	5.33	5.38	5.43	5.48	5.53
2018	4.41	4.59	4.73	4.88	5.02	5.09	5.16	5.23	5.30	5.36	5.41	5.47	5.52	5.57	5.62
2019	4.43	4.62	4.76	4.90	5.04	5.11	5.19	5.26	5.33	5.40	5.45	5.50	5.54	5.59	5.64
2020	4.43	4.62	4.76	4.90	5.04	5.11	5.19	5.26	5.33	5.40	5.45	5.50	5.54	5.59	5.64
2021	4.43	4.62	4.76	4.90	5.04	5.11	5.19	5.26	5.33	5.40	5.45	5.50	5.54	5.59	5.64
2022	4.43	4.62	4.76	4.90	5.04	5.11	5.19	5.26	5.33	5.40	5.45	5.50	5.54	5.59	5.64
2023	4.43	4.62	4.76	4.90	5.04	5.11	5.19	5.26	5.33	5.40	5.45	5.50	5.54	5.59	5.64
2024	4.43	4.62	4.76	4.90	5.04	5.11	5.19	5.26	5.33	5.40	5.45	5.50	5.54	5.59	5.64
2025	4.43	4.62	4.76	4.90	5.04	5.11	5.19	5.26	5.33	5.40	5.45	5.50	5.54	5.59	5.64
2026	4.43	4.62	4.76	4.90	5.04	5.11	5.19	5.26	5.33	5.40	5.45	5.50	5.54	5.59	5.64
2027	4.43	4.62	4.76	4.90	5.04	5.11	5.19	5.26	5.33	5.40	5.45	5.50	5.54	5.59	5.64
2028	4.43	4.62	4.76	4.90	5.04	5.11	5.19	5.26	5.33	5.40	5.45	5.50	5.54	5.59	5.64
2029	4.43	4.62	4.76	4.90	5.04	5.11	5.19	5.26	5.33	5.40	5.45	5.50	5.54	5.59	5.64
2030	4.43	4.62	4.76	4.90	5.04	5.11	5.19	5.26	5.33	5.40	5.45	5.50	5.54	5.59	5.64
2031	4.43	4.62	4.76	4.90	5.04	5.11	5.19	5.26	5.33	5.40	5.45	5.50	5.54	5.59	5.64
2032	4.43	4.62	4.76	4.90	5.04	5.11	5.19	5.26	5.33	5.40	5.45	5.50	5.54	5.59	5.64
2033	4.43	4.62	4.76	4.90	5.04	5.11	5.19	5.26	5.33	5.40	5.45	5.50	5.54	5.59	5.64
2034	4.43	4.62	4.76	4.90	5.04	5.11	5.19	5.26	5.33	5.40	5.45	5.50	5.54	5.59	5.64
2035	4.43	4.62	4.76	4.90	5.04	5.11	5.19	5.26	5.33	5.40	5.45	5.50	5.54	5.59	5.64
2036	4.43	4.62	4.76	4.90	5.04	5.11	5.19	5.26	5.33	5.40	5.45	5.50	5.54	5.59	5.64
2037	4.43	4.62	4.76	4.90	5.04	5.11	5.19	5.26	5.33	5.40	5.45	5.50	5.54	5.59	5.64
2038	4.43	4.62	4.76	4.90	5.04	5.11	5.19	5.26	5.33	5.40	5.45	5.50	5.54	5.59	5.64
2039	4.43	4.62	4.76	4.90	5.04	5.11	5.19	5.26	5.33	5.40	5.45	5.50	5.54	5.59	5.64
2040	4.43	4.62	4.76	4.90	5.04	5.11	5.19	5.26	5.33	5.40	5.45	5.50	5.54	5.59	5.64
2041	4.43	4.62	4.76	4.90	5.04	5.11	5.19	5.26	5.33	5.40	5.45	5.50	5.54	5.59	5.64
2042	4.43	4.62	4.76	4.90	5.04	5.11	5.19	5.26	5.33	5.40	5.45	5.50	5.54	5.59	5.64
2043	4.43	4.62	4.76	4.90	5.04	5.11	5.19	5.26	5.33	5.40	5.45	5.50	5.54	5.59	5.64

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2013 Forecast, Base Case.

Table 9

BPA FY 2014 Third-Party Taxable Borrowing Rate Forecast 1/

Fiscal Years 2014-2043

Maturity

16 Year	17 Year	18 Year	19 Year	20 Year	21 Year	22 Year	23 Year	24 Year	25 Year	26 Year	27 Year	28 Year	29 Year	30 Year	50 Year	Year
4.33	4.42	4.50	4.59	4.67	4.76	4.84	4.92	5.01	5.09	5.18	5.26	5.35	5.43	5.52	5.52	**2014**
4.79	4.85	4.91	4.98	5.04	5.10	5.16	5.23	5.29	5.35	5.41	5.48	5.54	5.60	5.66	5.66	**2015**
5.38	5.43	5.47	5.52	5.56	5.61	5.66	5.70	5.75	5.79	5.84	5.88	5.93	5.97	6.02	6.02	**2016**
5.59	5.64	5.69	5.74	5.79	5.84	5.89	5.95	6.00	6.05	6.10	6.15	6.20	6.25	6.31	6.31	**2017**
5.67	5.72	5.77	5.82	5.87	5.92	5.97	6.02	6.07	6.12	6.17	6.22	6.27	6.33	6.38	6.38	**2018**
5.69	5.74	5.79	5.84	5.89	5.94	5.99	6.04	6.09	6.14	6.19	6.23	6.28	6.33	6.38	6.38	**2019**
5.69	5.74	5.79	5.84	5.89	5.94	5.99	6.04	6.09	6.14	6.19	6.23	6.28	6.33	6.38	6.38	**2020**
5.69	5.74	5.79	5.84	5.89	5.94	5.99	6.04	6.09	6.14	6.19	6.23	6.28	6.33	6.38	6.38	**2021**
5.69	5.74	5.79	5.84	5.89	5.94	5.99	6.04	6.09	6.14	6.19	6.23	6.28	6.33	6.38	6.38	**2022**
5.69	5.74	5.79	5.84	5.89	5.94	5.99	6.04	6.09	6.14	6.19	6.23	6.28	6.33	6.38	6.38	**2023**
5.69	5.74	5.79	5.84	5.89	5.94	5.99	6.04	6.09	6.14	6.19	6.23	6.28	6.33	6.38	6.38	**2024**
5.69	5.74	5.79	5.84	5.89	5.94	5.99	6.04	6.09	6.14	6.19	6.23	6.28	6.33	6.38	6.38	**2025**
5.69	5.74	5.79	5.84	5.89	5.94	5.99	6.04	6.09	6.14	6.19	6.23	6.28	6.33	6.38	6.38	**2026**
5.69	5.74	5.79	5.84	5.89	5.94	5.99	6.04	6.09	6.14	6.19	6.23	6.28	6.33	6.38	6.38	**2027**
5.69	5.74	5.79	5.84	5.89	5.94	5.99	6.04	6.09	6.14	6.19	6.23	6.28	6.33	6.38	6.38	**2028**
5.69	5.74	5.79	5.84	5.89	5.94	5.99	6.04	6.09	6.14	6.19	6.23	6.28	6.33	6.38	6.38	**2029**
5.69	5.74	5.79	5.84	5.89	5.94	5.99	6.04	6.09	6.14	6.19	6.23	6.28	6.33	6.38	6.38	**2030**
5.69	5.74	5.79	5.84	5.89	5.94	5.99	6.04	6.09	6.14	6.19	6.23	6.28	6.33	6.38	6.38	**2031**
5.69	5.74	5.79	5.84	5.89	5.94	5.99	6.04	6.09	6.14	6.19	6.23	6.28	6.33	6.38	6.38	**2032**
5.69	5.74	5.79	5.84	5.89	5.94	5.99	6.04	6.09	6.14	6.19	6.23	6.28	6.33	6.38	6.38	**2033**
5.69	5.74	5.79	5.84	5.89	5.94	5.99	6.04	6.09	6.14	6.19	6.23	6.28	6.33	6.38	6.38	**2034**
5.69	5.74	5.79	5.84	5.89	5.94	5.99	6.04	6.09	6.14	6.19	6.23	6.28	6.33	6.38	6.38	**2035**
5.69	5.74	5.79	5.84	5.89	5.94	5.99	6.04	6.09	6.14	6.19	6.23	6.28	6.33	6.38	6.38	**2036**
5.69	5.74	5.79	5.84	5.89	5.94	5.99	6.04	6.09	6.14	6.19	6.23	6.28	6.33	6.38	6.38	**2037**
5.69	5.74	5.79	5.84	5.89	5.94	5.99	6.04	6.09	6.14	6.19	6.23	6.28	6.33	6.38	6.38	**2038**
5.69	5.74	5.79	5.84	5.89	5.94	5.99	6.04	6.09	6.14	6.19	6.23	6.28	6.33	6.38	6.38	**2039**
5.69	5.74	5.79	5.84	5.89	5.94	5.99	6.04	6.09	6.14	6.19	6.23	6.28	6.33	6.38	6.38	**2040**
5.69	5.74	5.79	5.84	5.89	5.94	5.99	6.04	6.09	6.14	6.19	6.23	6.28	6.33	6.38	6.38	**2041**
5.69	5.74	5.79	5.84	5.89	5.94	5.99	6.04	6.09	6.14	6.19	6.23	6.28	6.33	6.38	6.38	**2042**
5.69	5.74	5.79	5.84	5.89	5.94	5.99	6.04	6.09	6.14	6.19	6.23	6.28	6.33	6.38	6.38	**2043**

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2013 Forecast, Base Case.

Table 10

BPA FY 2014 Third-Party Tax-Exempt Borrowing Rate Forecast 1/

Fiscal Years 2014-2043

(continued on next page)

Maturity

Year	1 Year	2 Year	3 Year	4 Year	5 Year	6 Year	7 Year	8 Year	9 Year	10 Year	11 Year	12 Year	13 Year	14 Year	15 Year
2014	0.35	0.55	0.88	1.21	1.54	1.77	2.01	2.25	2.49	2.73	2.78	2.84	2.89	2.95	3.00
2015	0.65	0.89	1.20	1.51	1.82	2.08	2.34	2.60	2.87	3.13	3.18	3.23	3.28	3.33	3.38
2016	1.99	2.22	2.38	2.54	2.70	2.88	3.07	3.25	3.43	3.61	3.66	3.70	3.75	3.79	3.84
2017	2.76	2.94	3.05	3.17	3.29	3.39	3.48	3.58	3.68	3.78	3.83	3.87	3.92	3.97	4.02
2018	2.91	3.10	3.21	3.33	3.44	3.52	3.61	3.69	3.77	3.86	3.90	3.95	4.00	4.04	4.09
2019	2.92	3.12	3.23	3.34	3.46	3.54	3.63	3.71	3.79	3.88	3.92	3.97	4.02	4.06	4.11
2020	2.92	3.12	3.23	3.34	3.46	3.54	3.63	3.71	3.79	3.88	3.92	3.97	4.02	4.06	4.11
2021	2.92	3.12	3.23	3.34	3.46	3.54	3.63	3.71	3.79	3.88	3.92	3.97	4.02	4.06	4.11
2022	2.92	3.12	3.23	3.34	3.46	3.54	3.63	3.71	3.79	3.88	3.92	3.97	4.02	4.06	4.11
2023	2.92	3.12	3.23	3.34	3.46	3.54	3.63	3.71	3.79	3.88	3.92	3.97	4.02	4.06	4.11
2024	2.92	3.12	3.23	3.34	3.46	3.54	3.63	3.71	3.79	3.88	3.92	3.97	4.02	4.06	4.11
2025	2.92	3.12	3.23	3.34	3.46	3.54	3.63	3.71	3.79	3.88	3.92	3.97	4.02	4.06	4.11
2026	2.92	3.12	3.23	3.34	3.46	3.54	3.63	3.71	3.79	3.88	3.92	3.97	4.02	4.06	4.11
2027	2.92	3.12	3.23	3.34	3.46	3.54	3.63	3.71	3.79	3.88	3.92	3.97	4.02	4.06	4.11
2028	2.92	3.12	3.23	3.34	3.46	3.54	3.63	3.71	3.79	3.88	3.92	3.97	4.02	4.06	4.11
2029	2.92	3.12	3.23	3.34	3.46	3.54	3.63	3.71	3.79	3.88	3.92	3.97	4.02	4.06	4.11
2030	2.92	3.12	3.23	3.34	3.46	3.54	3.63	3.71	3.79	3.88	3.92	3.97	4.02	4.06	4.11
2031	2.92	3.12	3.23	3.34	3.46	3.54	3.63	3.71	3.79	3.88	3.92	3.97	4.02	4.06	4.11
2032	2.92	3.12	3.23	3.34	3.46	3.54	3.63	3.71	3.79	3.88	3.92	3.97	4.02	4.06	4.11
2033	2.92	3.12	3.23	3.34	3.46	3.54	3.63	3.71	3.79	3.88	3.92	3.97	4.02	4.06	4.11
2034	2.92	3.12	3.23	3.34	3.46	3.54	3.63	3.71	3.79	3.88	3.92	3.97	4.02	4.06	4.11
2035	2.92	3.12	3.23	3.34	3.46	3.54	3.63	3.71	3.79	3.88	3.92	3.97	4.02	4.06	4.11
2036	2.92	3.12	3.23	3.34	3.46	3.54	3.63	3.71	3.79	3.88	3.92	3.97	4.02	4.06	4.11
2037	2.92	3.12	3.23	3.34	3.46	3.54	3.63	3.71	3.79	3.88	3.92	3.97	4.02	4.06	4.11
2038	2.92	3.12	3.23	3.34	3.46	3.54	3.63	3.71	3.79	3.88	3.92	3.97	4.02	4.06	4.11
2039	2.92	3.12	3.23	3.34	3.46	3.54	3.63	3.71	3.79	3.88	3.92	3.97	4.02	4.06	4.11
2040	2.92	3.12	3.23	3.34	3.46	3.54	3.63	3.71	3.79	3.88	3.92	3.97	4.02	4.06	4.11
2041	2.92	3.12	3.23	3.34	3.46	3.54	3.63	3.71	3.79	3.88	3.92	3.97	4.02	4.06	4.11
2042	2.92	3.12	3.23	3.34	3.46	3.54	3.63	3.71	3.79	3.88	3.92	3.97	4.02	4.06	4.11
2043	2.92	3.12	3.23	3.34	3.46	3.54	3.63	3.71	3.79	3.88	3.92	3.97	4.02	4.06	4.11

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2013 Forecast, Base Case.

Table 10

BPA FY 2014 Third-Party Tax-Exempt Borrowing Rate Forecast 1/

Fiscal Years 2014-2043

Maturity

16 Year	17 Year	18 Year	19 Year	20 Year	21 Year	22 Year	23 Year	24 Year	25 Year	26 Year	27 Year	28 Year	29 Year	30 Year	50 Year	Year
3.06	3.11	3.17	3.22	3.28	3.33	3.39	3.44	3.50	3.55	3.61	3.66	3.72	3.77	3.83	3.83	**2014**
3.44	3.49	3.54	3.59	3.64	3.69	3.74	3.79	3.85	3.90	3.95	4.00	4.05	4.10	4.15	4.15	**2015**
3.88	3.93	3.97	4.02	4.06	4.11	4.15	4.20	4.25	4.29	4.34	4.38	4.43	4.47	4.52	4.52	**2016**
4.06	4.11	4.16	4.21	4.25	4.30	4.35	4.40	4.44	4.49	4.54	4.59	4.63	4.68	4.73	4.73	**2017**
4.13	4.18	4.23	4.27	4.32	4.37	4.41	4.46	4.50	4.55	4.60	4.64	4.69	4.74	4.78	4.78	**2018**
4.15	4.20	4.24	4.29	4.33	4.38	4.42	4.47	4.51	4.56	4.61	4.65	4.70	4.74	4.79	4.79	**2019**
4.15	4.20	4.24	4.29	4.33	4.38	4.42	4.47	4.51	4.56	4.61	4.65	4.70	4.74	4.79	4.79	**2020**
4.15	4.20	4.24	4.29	4.33	4.38	4.42	4.47	4.51	4.56	4.61	4.65	4.70	4.74	4.79	4.79	**2021**
4.15	4.20	4.24	4.29	4.33	4.38	4.42	4.47	4.51	4.56	4.61	4.65	4.70	4.74	4.79	4.79	**2022**
4.15	4.20	4.24	4.29	4.33	4.38	4.42	4.47	4.51	4.56	4.61	4.65	4.70	4.74	4.79	4.79	**2023**
4.15	4.20	4.24	4.29	4.33	4.38	4.42	4.47	4.51	4.56	4.61	4.65	4.70	4.74	4.79	4.79	**2024**
4.15	4.20	4.24	4.29	4.33	4.38	4.42	4.47	4.51	4.56	4.61	4.65	4.70	4.74	4.79	4.79	**2025**
4.15	4.20	4.24	4.29	4.33	4.38	4.42	4.47	4.51	4.56	4.61	4.65	4.70	4.74	4.79	4.79	**2026**
4.15	4.20	4.24	4.29	4.33	4.38	4.42	4.47	4.51	4.56	4.61	4.65	4.70	4.74	4.79	4.79	**2027**
4.15	4.20	4.24	4.29	4.33	4.38	4.42	4.47	4.51	4.56	4.61	4.65	4.70	4.74	4.79	4.79	**2028**
4.15	4.20	4.24	4.29	4.33	4.38	4.42	4.47	4.51	4.56	4.61	4.65	4.70	4.74	4.79	4.79	**2029**
4.15	4.20	4.24	4.29	4.33	4.38	4.42	4.47	4.51	4.56	4.61	4.65	4.70	4.74	4.79	4.79	**2030**
4.15	4.20	4.24	4.29	4.33	4.38	4.42	4.47	4.51	4.56	4.61	4.65	4.70	4.74	4.79	4.79	**2031**
4.15	4.20	4.24	4.29	4.33	4.38	4.42	4.47	4.51	4.56	4.61	4.65	4.70	4.74	4.79	4.79	**2032**
4.15	4.20	4.24	4.29	4.33	4.38	4.42	4.47	4.51	4.56	4.61	4.65	4.70	4.74	4.79	4.79	**2033**
4.15	4.20	4.24	4.29	4.33	4.38	4.42	4.47	4.51	4.56	4.61	4.65	4.70	4.74	4.79	4.79	**2034**
4.15	4.20	4.24	4.29	4.33	4.38	4.42	4.47	4.51	4.56	4.61	4.65	4.70	4.74	4.79	4.79	**2035**
4.15	4.20	4.24	4.29	4.33	4.38	4.42	4.47	4.51	4.56	4.61	4.65	4.70	4.74	4.79	4.79	**2036**
4.15	4.20	4.24	4.29	4.33	4.38	4.42	4.47	4.51	4.56	4.61	4.65	4.70	4.74	4.79	4.79	**2037**
4.15	4.20	4.24	4.29	4.33	4.38	4.42	4.47	4.51	4.56	4.61	4.65	4.70	4.74	4.79	4.79	**2038**
4.15	4.20	4.24	4.29	4.33	4.38	4.42	4.47	4.51	4.56	4.61	4.65	4.70	4.74	4.79	4.79	**2039**
4.15	4.20	4.24	4.29	4.33	4.38	4.42	4.47	4.51	4.56	4.61	4.65	4.70	4.74	4.79	4.79	**2040**
4.15	4.20	4.24	4.29	4.33	4.38	4.42	4.47	4.51	4.56	4.61	4.65	4.70	4.74	4.79	4.79	**2041**
4.15	4.20	4.24	4.29	4.33	4.38	4.42	4.47	4.51	4.56	4.61	4.65	4.70	4.74	4.79	4.79	**2042**
4.15	4.20	4.24	4.29	4.33	4.38	4.42	4.47	4.51	4.56	4.61	4.65	4.70	4.74	4.79	4.79	**2043**

1\Global Insight: The U.S. Economy: 30-Year Focus, September 2013 Forecast, Base Case.

Table 11

BPA FY 2014 FERC Borrowing Rate (Bank Prime) Forecast 1/

Calendar/Fiscal Years 2014-2043

Year	A FERC Rate Calendar Year	B FERC Rate Fiscal Year
2014	3.25	3.25
2015	3.42	3.38
2016	5.15	4.72
2017	6.83	6.41
2018	7.00	6.96
2019	7.00	7.00
2020	7.00	7.00
2021	7.00	7.00
2022	7.00	7.00
2023	7.00	7.00
2024	7.00	7.00
2025	7.00	7.00
2026	7.00	7.00
2027	7.00	7.00
2028	7.00	7.00
2029	7.00	7.00
2030	7.00	7.00
2031	7.00	7.00
2032	7.00	7.00
2033	7.00	7.00
2034	7.00	7.00
2035	7.00	7.00
2036	7.00	7.00
2037	7.00	7.00
2038	7.00	7.00
2039	7.00	7.00
2040	7.00	7.00
2041	7.00	7.00
2042	7.00	7.00
2043	7.00	7.00

1/ Global Insight: The U.S. Economy: 30-Year Focus, September 2013 Forecast, Base Case.

Table 12

BPA FY 2014 May 3-Month LIBOR Rate Forecast 1/

Calendar/Fiscal Years 2014-2043

Year	A 3-Mo LIBOR Calendar Year	B 3-Mo LIBOR Fiscal Year
2014	0.28	0.32
2015	0.62	0.54
2016	2.46	2.00
2017	4.10	3.69
2018	4.25	4.21
2019	4.25	4.25
2020	4.25	4.25
2021	4.25	4.25
2022	4.25	4.25
2023	4.25	4.25
2024	4.25	4.25
2025	4.25	4.25
2026	4.25	4.25
2027	4.25	4.25
2028	4.25	4.25
2029	4.25	4.25
2030	4.25	4.25
2031	4.25	4.25
2032	4.25	4.25
2033	4.25	4.25
2034	4.25	4.25
2035	4.25	4.25
2036	4.25	4.25
2037	4.25	4.25
2038	4.25	4.25
2039	4.25	4.25
2040	4.25	4.25
2041	4.25	4.25
2042	4.25	4.25
2043	4.25	4.25

1/ Global Insight: The U.S. Economy: 30-Year Focus, September 2013 Forecast, Base Case.

Table 13

Comparison of FY 2014 Inflation Forecast Components

Calendar/Fiscal Year Forecasts 2014 vs. 2013

Calendar/Fiscal Years 2014-2043

YEAR	A CY 2014 1/ Calendar Year GDP Price Deflator (%)	B FY 2014 1/ Fiscal Year GDP Price Deflator (%)	C FY 2014 2/ Fiscal Year Cumulative Price Deflator (Base Year 2013)	D FY 2013 1/ Fiscal Year FY Price Deflator (%)	E FY 2013 1/ Fiscal Year FY Cumulative Price Deflator (Base Year 2012)	F Change in the FY Price Deflator (B-D)	G Change in the FY Cumulative Price Deflator (C-E)
2014	1.79%	1.70%	1.008	1.60%	1.027	0.10%	-0.020
2015	1.59%	1.64%	1.025	1.59%	1.044	0.05%	-0.019
2016	1.68%	1.66%	1.041	1.64%	1.060	0.01%	-0.019
2017	1.60%	1.62%	1.059	1.61%	1.078	0.01%	-0.019
2018	1.60%	1.60%	1.076	1.66%	1.095	-0.06%	-0.019
2019	1.56%	1.57%	1.093	1.64%	1.113	-0.08%	-0.020
2020	1.65%	1.63%	1.110	1.66%	1.132	-0.03%	-0.021
2021	1.71%	1.69%	1.128	1.70%	1.150	-0.01%	-0.022
2022	1.71%	1.71%	1.147	1.74%	1.170	-0.03%	-0.023
2023	1.73%	1.72%	1.167	1.74%	1.190	-0.02%	-0.023
2024	1.72%	1.72%	1.187	1.72%	1.211	0.01%	-0.024
2025	1.75%	1.74%	1.208	1.71%	1.232	0.03%	-0.024
2026	1.81%	1.79%	1.229	1.72%	1.253	0.07%	-0.024
2027	1.85%	1.84%	1.251	1.73%	1.274	0.11%	-0.024
2028	1.84%	1.84%	1.274	1.74%	1.296	0.10%	-0.023
2029	1.86%	1.85%	1.297	1.78%	1.319	0.07%	-0.022
2030	1.86%	1.86%	1.321	1.80%	1.343	0.05%	-0.022
2031	1.93%	1.91%	1.346	1.84%	1.367	0.07%	-0.021
2032	1.93%	1.93%	1.371	1.83%	1.392	0.10%	-0.021
2033	1.97%	1.96%	1.398	1.82%	1.417	0.15%	-0.020
2034	2.01%	2.00%	1.425	1.83%	1.443	0.17%	-0.018
2035	1.97%	1.98%	1.454	1.82%	1.469	0.15%	-0.016
2036	1.97%	1.97%	1.482	1.82%	1.496	0.15%	-0.014
2037	2.00%	1.99%	1.511	1.84%	1.523	0.15%	-0.012
2038	2.01%	2.01%	1.542	1.85%	1.551	0.16%	-0.010
2039	2.02%	2.02%	1.573	1.86%	1.580	0.16%	-0.008
2040	2.01%	2.01%	1.604	1.85%	1.609	0.16%	-0.005
2041	2.01%	2.01%	1.637	1.85%	1.639	0.16%	-0.003
2042	2.01%	2.01%	1.670	1.85%	1.670	0.15%	0.000
2043	2.02%	2.01%	1.703				

1/ Global Insight The U.S. Economy: 30-Year Focus, September 2013 Forecast, Base Case.

2/ Fiscal Year Cumulative Price Deflator escalates to midyear dollars. The first year, 2014, is determined as follows: 1.008={(1.698/100)*.5}+1. An example of subsequent year cumulative growth such as in 2015 is found as: 1.025={1+(1.64/100)}*1.008

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 have a maximum maturity of 30 years although they may be issued for shorter durations or refinanced up to 50 years which is the maximum repayment period for generation assets.. Construction bonds are given a maximum repayment period of 6 years, Fish and Wildlife bonds are entered with a period to maturity of 15 years, and Conservation is given a maturity of 12 years.

New bonds are based on projected BPA and Reclamation/Corps capital program outlays. Maturities reflect decisions about debt placement. 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 2014 - 2017
($000s)

		A	B	C	D
	FY	Description	Interest Rate	Term	Total Borrowing
1	2014	Power Agency Services	1.76%	6	4,360
2		Fish and Wildlife	1.76%	15	14,000
3		Conservation	1.76%	12	12,000
4		TOTAL			30,360
5					
6	2015	Power Agency Services	1.76%	6	7,700
7		Power Agency Services	2.53%	6	8,050
8		Fish and Wildlife	1.76%	15	31,000
9		Fish and Wildlife	3.84%	15	22,000
10		Conservation	1.76%	12	61,000
11		Conservation	3.66%	12	31,000
12		Corp/Reclamation	4.13%	20	42,000
13		TOTAL			202,750
14					
15	2016	Power Agency Services	3.47%	6	15,800
16		Fish and Wildlife	4.32%	15	54,000
17		Conservation	4.18%	12	95,000
18		Corp/Reclamation	4.57%	20	240,000
19		TOTAL			404,800
20					
21	2017	Power Agency Services	4.55%	6	12,700
22		Fish and Wildlife	4.87%	15	30,000
23		Conservation	4.80%	12	96,000
24		Corp/Reclamation	5.00%	20	271,000
25		TOTAL			409,700

1/ Bonds issued for this purpose are for direct funding efficiency and reliability.

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 and projected CGS capital investments. CGS debt service is displayed net of anticipated revenues expected from the Tennessee Valley Authority for the purchase of nuclear fuel from EN. Debt service streams are derived from such sources as Official Statements, Agency agreements, Agency contracts, and budgetary data.

Table 8A
Capitalized Contracts
($000s)

		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
		2014	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	2023	2024	2025	2026	2027	2028
1	WNP-1	65,552	194,931	251,813	200,269	9,856	9,856	9,856	9,856	9,856	9,856	25,487	72,396	72,396	54,304	-
2	WNP-1 Expenses	(1,431)	(532)	582	(4,745)	-	-	-	-	-	-	-	-	-	-	-
3	**WNP-1 Total**	**64,121**	**194,399**	**252,395**	**195,524**	**9,856**	**9,856**	**9,856**	**9,856**	**9,856**	**9,856**	**25,487**	**72,396**	**72,396**	**54,304**	**-**
4	CGS	127,205	143,363	130,032	191,619	409,609	526,862	459,425	451,028	429,332	382,744	337,384	191,550	191,748	191,573	191,682
5	CGS Adjustments	(15,876)	(4,387)	(4,387)	(4,387)	(4,387)	(4,387)	(4,331)	(4,102)	(3,859)	(3,484)	(2,201)	-	-	-	-
6	CGS Expenses	(454)	(413)	(280)	(202)	(627)	806	176	175	173	172	128	-	-	-	-
7	TVA Revenue Offset	(17,510)	(58,618)	(24,476)	(58,881)	(178,250)	(189,500)	(72,500)	(81,000)	(49,500)	-	-	-	-	-	-
8	**CGS Total**	**93,365**	**79,944**	**100,888**	**128,148**	**226,345**	**333,781**	**382,770**	**366,101**	**376,147**	**379,431**	**335,310**	**191,550**	**191,748**	**191,573**	**191,682**
9	WNP-3	99,934	170,427	218,993	259,379	351,231	3,615	3,615	3,615	3,615	3,615	3,615	3,615	3,615	21,692	56,958
10	WNP-3 Expenses	(1,613)	(887)	3,214	(6,886)	(2,187)	(627)	-	-	-	-	-	-	-	-	-
11	**WNP-3 Total**	**98,321**	**169,540**	**222,207**	**252,493**	**349,044**	**2,988**	**3,615**	**3,615**	**3,615**	**3,615**	**3,615**	**3,615**	**3,615**	**21,692**	**56,958**
12	**CARES**	547		-	-	-	-	-	-	-	-	-	-	-	-	-
13	**Tacoma**	1,872	318	-	-	-	-	-	-	-	-	-	-	-	-	-
14	**Wasco**	1,931	1,929	1,931	1,935	1,934	1,932	1,937	1,948	1,950	1,947	1,947	331	-	-	-
15	**Cowlitz**	7,288	7,300	7,300	7,303	7,302	7,304	7,301	7,300	7,299	7,303	7,301	7,302	7,300	7,304	7,299
16	**Total**	**267,445**	**453,429**	**584,720**	**585,404**	**594,481**	**355,861**	**405,479**	**388,820**	**398,867**	**402,152**	**373,660**	**275,194**	**275,059**	**274,873**	**255,939**

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 9A: Irrigation Assistance by Project
($000s)

		A	B	C
	Fiscal Year Due	Project	Amount	Total
1	**2015**	Columbia Basin	52,204	
2	**2015 Total:**			**52,204**
3	**2016**	Columbia Basin	61,066	
4	**2016 Total:**			**61,066**
5	**2017**	Columbia Basin	49,330	
6		Greater Wenatchee	1,073	
7		Yakima, Roza	1,078	
8	**2017 Total:**			**51,482**
9	**2018**	Columbia Basin	26,160	
10		Foster Creek	683	
11		Yakima, Roza	770	
12	**2018 Total:**			**27,612**
13	**2019**	Columbia Basin	51,478	
14		FosterCreek	1,114	
15		Michaud Flats	2,081	
16		Michaud-Fort Hall	2,081	
17		Yaklma,Roza	564	
18	**2019 Total:**			**57,317**
19	**2020**	Columbia Basin	22,259	
20		Crooked River	2,380	
21	**2020 Total:**			**24,639**
22	**2021**	Columbia Basin	10,163	
23		Yakirna, Roza	2,087	
24	**2021 Total:**			**12,250**
25	**2022**	Columbia Basin	13,794	
26		Yakima, Rosa	623	
27	**2022 Total:**			**14,417**
28	**2023**	Columbia Basin	9,898	
29		Rogue River	3,091	
30	**2023 Total:**			**12,989**
31	**2024**	Columbia Basin	7,891	
32		Greater Wenatchee	1,961	
33		Yakirna, Kennewick	5,379	
34	**2024 Total:**			**15,231**
35	**2025**	Columbia Basin	12,603	
36		Crooked River Ext	1,122	
37	**2025 Total:**			**13,725**
38	**2026**	Columbia Basin	13,072	
39		Greater Wenatchee	930	
40		Whitestone Coulee Unit	3,810	
41		Yakima, Rosa	3,133	
42	**2026 Total:**			**20,944**
43	**2027**	Columbia Basin	3,981	
44		Rogue River	2,194	
45	**2027 Total:**			**6,176**

Table 9A: Irrigation Assistance by Project
($000s)

		A	B	C
	Fiscal Year Due	**Project**	**Amount**	**Total**
46	**2028**	Columbia Basin	7,085	
47		The Dalles	4,204	
48	**2028 Total:**			**11,288**
49	**2029**	Baker	4,065	
50	**2029 Total:**			**4,065**
51	**2030**	East Greenacres	1,996	
52	**2030 Total:**			**1,996**
53	**2031**	Columbia Basin	10,678	
54	**2031 Total:**			**10,678**
55	**2033**	Rogue River	4,347	
56	**2033 Total:**			**4,347**
57	**2035**	Columbia Basin	7,875	
58	**2035 Total:**			**7,875**
59	**2036**	Manson Unit	16,163	
60		Tualatin	9,098	
61		Whltestone Coulee Unit	3,660	
62	**2036 Total:**			**28,920**
63	**2037**	Columbia Basin	12,243	
64		East Greenacres	3,834	
65	**2037 Total:**			**16,078**
66	**2039**	Tualatin	14,181	
67	**2039 Total:**			**14,181**
68	**2042**	Orovilie Tonasket	73,659	
69	**2042 Total:**			**73,659**
70	**2045**	Columbia Basin	11,749	
71	**2045 Total:**			**11,749**
72				
73	**Grand Total:**			**554,887**

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, , replacements exclude the portion of the budget for "small capital," those investments outside of the powerhouses.

We received total annual funding data in 2014 dollars. We relied on data projected through 2021. 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 to account for the 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 Replacments (FY 2016)
($000s)

	A	B	C	D
	In Service Date	Current Principal	Interest Rate	Due Date
1	2017	205,153	5.070%	2062
2	2018	205,153	5.070%	2063
3	2019	205,153	5.070%	2064
4	2020	205,153	5.070%	2065
5	2021	205,153	5.070%	2066
6	2022	205,153	5.070%	2067
7	2023	205,153	5.070%	2068
8	2024	205,153	5.070%	2069
9	2025	205,153	5.070%	2070
10	2026	205,153	5.070%	2071
11	2027	205,153	5.070%	2072
12	2028	205,153	5.070%	2073
13	2029	205,153	5.070%	2074
14	2030	205,153	5.070%	2075
15	2031	205,153	5.070%	2076
16	2032	205,153	5.070%	2077
17	2033	205,153	5.070%	2078
18	2034	205,153	5.070%	2079
19	2035	205,153	5.070%	2080
20	2036	205,153	5.070%	2081
21	2037	205,153	5.070%	2082
22	2038	205,153	5.070%	2083
23	2039	205,153	5.070%	2084
24	2040	205,153	5.070%	2085
25	2041	205,153	5.070%	2086
26	2042	205,153	5.070%	2087
27	2043	205,153	5.070%	2088
28	2044	205,153	5.070%	2089
29	2045	205,153	5.070%	2090
30	2046	205,153	5.070%	2091
31	2047	205,153	5.070%	2092
32	2048	205,153	5.070%	2093
33	2049	205,153	5.070%	2094
34	2050	205,153	5.070%	2095
35	2051	205,153	5.070%	2096
36	2052	205,153	5.070%	2097
37	2053	205,153	5.070%	2098
38	2054	205,153	5.070%	2099
39	2055	205,153	5.070%	2100
40	2056	205,153	5.070%	2101
41	2057	205,153	5.070%	2102
42	2058	205,153	5.070%	2103
43	2059	205,153	5.070%	2104
44	2060	205,153	5.070%	2105
45	2061	205,153	5.070%	2106
46	2062	205,153	5.070%	2107
47	2063	205,153	5.070%	2108
48	2064	205,153	5.070%	2109
49	2065	205,153	5.070%	2110
50	2066	205,153	5.070%	2111

Table 10B:
Corps/Reclamation Replacements (FY 2017)
($000s)

	A	B	C	D
	In Service Date	Current Principal	Interest Rate	Due Date
1	2018	229,962	5.250%	2063
2	2019	229,962	5.250%	2064
3	2020	229,962	5.250%	2065
4	2021	229,962	5.250%	2066
5	2022	229,962	5.250%	2067
6	2023	229,962	5.250%	2068
7	2024	229,962	5.250%	2069
8	2025	229,962	5.250%	2070
9	2026	229,962	5.250%	2071
10	2027	229,962	5.250%	2072
11	2028	229,962	5.250%	2073
12	2029	229,962	5.250%	2074
13	2030	229,962	5.250%	2075
14	2031	229,962	5.250%	2076
15	2032	229,962	5.250%	2077
16	2033	229,962	5.250%	2078
17	2034	229,962	5.250%	2079
18	2035	229,962	5.250%	2080
19	2036	229,962	5.250%	2081
20	2037	229,962	5.250%	2082
21	2038	229,962	5.250%	2083
22	2039	229,962	5.250%	2084
23	2040	229,962	5.250%	2085
24	2041	229,962	5.250%	2086
25	2042	229,962	5.250%	2087
26	2043	229,962	5.250%	2088
27	2044	229,962	5.250%	2089
28	2045	229,962	5.250%	2090
29	2046	229,962	5.250%	2091
30	2047	229,962	5.250%	2092
31	2048	229,962	5.250%	2093
32	2049	229,962	5.250%	2094
33	2050	229,962	5.250%	2095
34	2051	229,962	5.250%	2096
35	2052	229,962	5.250%	2097
36	2053	229,962	5.250%	2098
37	2054	229,962	5.250%	2099
38	2055	229,962	5.250%	2100
39	2056	229,962	5.250%	2101
40	2057	229,962	5.250%	2102
41	2058	229,962	5.250%	2103
42	2059	229,962	5.250%	2104
43	2060	229,962	5.250%	2105
44	2061	229,962	5.250%	2106
45	2062	229,962	5.250%	2107
46	2063	229,962	5.250%	2108
47	2064	229,962	5.250%	2109
48	2065	229,962	5.250%	2110
49	2066	229,962	5.250%	2111
50	2067	229,962	5.250%	2112

Table 10C:
Columbia Generating Station Replacements
($000s)

	A	B
	Fiscal Year	Total Debt Service
1	2045	489,037
2	2046	489,034
3	2047	489,038
4	2048	489,035
5	2049	489,036
6	2050	489,036
7	2051	489,035
8	2052	489,035
9	2053	489,035
10	2054	489,036
11	2055	489,037
12	2056	489,034
13	2057	489,034
14	2058	489,033
15	2059	489,039
16	2060	489,037
17	2061	489,038
18	2062	489,035
19	2063	489,035
20	2064	489,038
21	2065	489,035
22	2066	489,034
23	2067	489,038
24	2068	489,034
25	2069	489,035
26	2070	489,034
27	2071	489,034
28	2072	489,038
29	2073	489,036
30	2074	489,036
31	2075	489,038
32	2076	489,036
33	2077	489,034
34	2078	489,033
35	2079	489,034
36	2080	462,225
37	2081	462,225

11. REPAYMENT STUDY DATA, FY 2016 STUDY

TABLE 11A: HISTORICAL INVESTMENTS
October 1, 2013 - September 30, 2016 Cost Evaluation period
($000s) (FY 2016)

	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
1	Albeni Falls	09/1955	09/2005	6.910%	25,494	0		
2	Albeni Falls	09/1956	09/2005	6.910%	11	0		
3	Albeni Falls	09/1957	09/2005	6.910%	10	0		
4	Albeni Falls	09/1958	09/2005	6.910%	11	0		
5	Albeni Falls	09/1959	09/2005	6.910%	11	0		
6	Albeni Falls	09/1960	09/2005	6.910%	10	0		
7	Albeni Falls	09/1961	09/2005	6.910%	11	0		
8	Albeni Falls	09/1962	09/2005	6.910%	11	0		
9	Albeni Falls	09/1963	09/2005	6.910%	10	0		
10	Albeni Falls	09/1964	09/2005	6.910%	11	0		
11	Albeni Falls	09/1965	09/2005	6.910%	11	0		
12	Albeni Falls	09/1966	09/2005	6.910%	10	0		
13	Albeni Falls	09/1967	09/2005	6.910%	11	0		
14	Albeni Falls	09/1968	09/2005	6.910%	11	0		
15	Albeni Falls	09/1969	09/2005	6.910%	10	0		
16	Albeni Falls	09/1970	09/2005	6.910%	11	0		
17	Albeni Falls	09/1971	09/2005	6.910%	11	0		
18	Albeni Falls	09/1972	09/2005	6.910%	10	0		
19	Albeni Falls	09/1973	09/2005	6.910%	11	0		
20	Albeni Falls	09/1974	09/2005	6.910%	11	0		
21	Albeni Falls	09/1975	09/2005	6.910%	10	0		
22	Albeni Falls	09/1976	09/2005	6.910%	11	0		
23	Albeni Falls	09/1977	09/2005	6.910%	11	0		
24	Albeni Falls	09/1978	09/2005	6.910%	10	0		
25	Albeni Falls	09/1979	09/2005	6.910%	11	0		
26	Albeni Falls	09/1980	09/2005	6.910%	11	0		
27	Albeni Falls	09/1981	09/2005	6.910%	10	0		
28	Albeni Falls	09/1982	09/2005	6.910%	11	0		
29	Albeni Falls	09/1983	09/2005	6.910%	11	0		
30	Albeni Falls	09/1985	09/2005	6.910%	7	0		
31	Albeni Falls	09/1986	09/2005	6.910%	293	0		
32	Albeni Falls	09/1987	09/2005	6.910%	12	0		
33	Albeni Falls	09/1987	09/2005	8.888%	15	0		
34	Albeni Falls	09/1988	09/2005	8.500%	328	0		
35	Albeni Falls	09/1989	09/2005	9.250%	221	0		
36	Albeni Falls	09/1990	09/2005	8.875%	1,287	0		
37	Albeni Falls	09/1991	09/2005	8.750%	43	0		
38	Albeni Falls	09/1991	09/2005	8.750%	111	0		
39	Albeni Falls	09/1992	09/2005	8.500%	7	0		
40	Albeni Falls	09/1992	09/2005	8.500%	106	0		
41	Albeni Falls	09/1993	09/2005	7.875%	295	0		
42	Albeni Falls	09/1993	09/2005	7.875%	714	0		
43	Albeni Falls	09/1994	09/2019	7.125%	61	0		
44	Albeni Falls	09/1994	09/2019	7.125%	173	0		
45	Albeni Falls	09/1995	09/2010	7.090%	17	0		
46	Albeni Falls	09/1995	09/2010	7.890%	51	0		
47	Albeni Falls	09/1995	09/2045	7.150%	443	443		
48	Albeni Falls	09/1995	09/2045	7.150%	531	531		
49	Albeni Falls	09/1995	09/2045	7.150%	1,105	1,105		
50	Albeni Falls	09/1996	09/2016	7.290%	130	0		
51	Albeni Falls	09/1997	09/2047	7.150%	431	431		
52	Albeni Falls	09/2005	09/2055	5.125%	481	481		
53	Albeni Falls	09/2009	09/2059	4.375%	57	57		
54	Albeni Falls	09/2010	09/2060	4.250%	42	42		
55	Boise	09/1912	09/1962	3.000%	1,249	0		
56	Boise	09/1912	09/1962	3.000%	285	0		
57	Boise	09/1926	09/1976	3.000%	190	0		
58	Boise	09/1926	09/1976	3.000%	832	0		
59	Boise	09/1950	09/2000	3.000%	416	0		
60	Boise	09/1950	09/2000	3.000%	95	0		
61	Boise	09/1951	09/2001	3.000%	1,873	0		
62	Boise	09/1951	09/2001	3.000%	428	0		
63	Boise	09/1952	09/2001	3.000%	11	0		
64	Boise	09/1952	09/2001	3.000%	3	0		
65	Boise	09/1953	09/2001	3.000%	11	0		
66	Boise	09/1953	09/2001	3.000%	3	0		
67	Boise	09/1954	09/2001	3.000%	11	0		
68	Boise	09/1954	09/2001	3.000%	3	0		
69	Boise	09/1955	09/2001	3.000%	11	0		
70	Boise	09/1955	09/2001	3.000%	3	0		
71	Boise	09/1956	09/2001	3.000%	11	0		
72	Boise	09/1956	09/2001	3.000%	3	0		
73	Boise	09/1957	09/2001	3.000%	11	0		
74	Boise	09/1957	09/2001	3.000%	3	0		
75	Boise	09/1958	09/2001	3.000%	11	0		
76	Boise	09/1958	09/2001	3.000%	3	0		

TABLE 11A: HISTORICAL INVESTMENTS
October 1, 2013 - September 30, 2016 Cost Evaluation period
($000s) (FY 2016)

	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
77	Boise	09/1959	09/2001	3.000%	11	0		
78	Boise	09/1959	09/2001	3.000%	3	0		
79	Boise	09/1960	09/2001	3.000%	11	0		
80	Boise	09/1960	09/2001	3.000%	3	0		
81	Boise	09/1961	09/2001	3.000%	11	0		
82	Boise	09/1961	09/2001	3.000%	3	0		
83	Boise	09/1962	09/2001	3.000%	11	0		
84	Boise	09/1962	09/2001	3.000%	3	0		
85	Boise	09/1963	09/2001	3.000%	11	0		
86	Boise	09/1963	09/2001	3.000%	3	0		
87	Boise	09/1964	09/2001	3.000%	11	0		
88	Boise	09/1964	09/2001	3.000%	3	0		
89	Boise	09/1965	09/2001	3.000%	11	0		
90	Boise	09/1965	09/2001	3.000%	3	0		
91	Boise	09/1966	09/2001	3.000%	11	0		
92	Boise	09/1966	09/2001	3.000%	3	0		
93	Boise	09/1967	09/2001	3.000%	11	0		
94	Boise	09/1967	09/2001	3.000%	3	0		
95	Boise	09/1968	09/2001	3.000%	11	0		
96	Boise	09/1968	09/2001	3.000%	3	0		
97	Boise	09/1969	09/2001	3.000%	11	0		
98	Boise	09/1969	09/2001	3.000%	3	0		
99	Boise	09/1970	09/2001	3.000%	11	0		
100	Boise	09/1970	09/2001	3.000%	3	0		
101	Boise	09/1971	09/2001	3.000%	11	0		
102	Boise	09/1971	09/2001	3.000%	3	0		
103	Boise	09/1972	09/2001	3.000%	11	0		
104	Boise	09/1972	09/2001	3.000%	3	0		
105	Boise	09/1973	09/2001	3.000%	11	0		
106	Boise	09/1973	09/2001	3.000%	3	0		
107	Boise	09/1974	09/2001	3.000%	11	0		
108	Boise	09/1974	09/2001	3.000%	3	0		
109	Boise	09/1975	09/2001	3.000%	11	0		
110	Boise	09/1975	09/2001	3.000%	3	0		
111	Boise	09/1976	09/2001	3.000%	11	0		
112	Boise	09/1976	09/2001	3.000%	3	0		
113	Boise	09/1977	09/2001	3.000%	11	0		
114	Boise	09/1977	09/2001	3.000%	3	0		
115	Boise	09/1978	09/2001	3.000%	11	0		
116	Boise	09/1978	09/2001	3.000%	3	0		
117	Boise	09/1979	09/2001	3.000%	11	0		
118	Boise	09/1979	09/2001	3.000%	3	0		
119	Boise	09/1980	09/2001	3.000%	18	0		
120	Boise	09/1980	09/2001	3.000%	4	0		
121	Boise	09/1981	09/2001	3.000%	8	0		
122	Boise	09/1981	09/2001	3.000%	2	0		
123	Boise	09/1982	09/2001	3.000%	1	0		
124	Boise	09/1982	09/2001	3.000%	1	0		
125	Boise	09/1983	09/2001	3.000%	1	0		
126	Boise	09/1984	09/2001	10.750%	1,325	0		
127	Boise	09/1984	09/2001	10.750%	303	0		
128	Boise	09/1986	09/2001	6.710%	94	0		
129	Boise	09/1988	09/2001	8.500%	3	0		
130	Boise	09/1989	09/2001	9.250%	3,264	0		
131	Boise	09/1990	09/2001	8.875%	38	0		
132	Boise	09/1991	09/2001	8.750%	50	0		
133	Boise	09/1993	09/2001	7.875%	418	0		
134	Boise	09/1994	09/1999	7.125%	7	0		
135	Boise	09/1996	09/2046	6.950%	7	0		
136	Boise	09/1996	09/2046	7.150%	442	442		
137	Boise	09/1996	09/2046	7.150%	656	656		
138	Boise	09/1997	09/2047	6.950%	9	0		
139	Boise	09/1997	09/2047	7.150%	2,266	2,266		
140	Boise	09/2005	09/2055	5.125%	903	903		
141	Boise	09/2006	09/2056	4.500%	15	15		
142	Boise	09/2007	09/2057	5.000%	76	76		
143	Boise	09/2008	09/2058	4.875%	64	64		
144	Boise	09/2009	09/2059	4.375%	2	2		
145	Bonneville 2nd Powerhouse	09/1981	09/2031	7.150%	40,964	40,964		
146	Bonneville 2nd Powerhouse	09/1981	09/2031	7.150%	455	455		
147	Bonneville 2nd Powerhouse	09/1982	09/2032	7.150%	203,535	203,535		
148	Bonneville 2nd Powerhouse	09/1982	09/2032	7.150%	2,264	2,264		
149	Bonneville 2nd Powerhouse	09/1983	09/2033	7.150%	62,409	62,409		
150	Bonneville 2nd Powerhouse	09/1983	09/2033	7.150%	694	694		
151	Bonneville 2nd Powerhouse	09/1985	09/2033	7.150%	9,138	9,138		
152	Bonneville 2nd Powerhouse	09/1986	09/2033	7.150%	30,578	30,578		

TABLE 11A: HISTORICAL INVESTMENTS
October 1, 2013 - September 30, 2016 Cost Evaluation period
($000s) (FY 2016)

	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
153	Bonneville 2nd Powerhouse	09/1987	09/2033	7.150%	2,801	2,801		
154	Bonneville 2nd Powerhouse	09/1988	09/2033	7.150%	1,271	1,271		
155	Bonneville 2nd Powerhouse	09/1989	09/2033	7.150%	1,232	1,232		
156	Bonneville 2nd Powerhouse	09/1990	09/2033	7.150%	1,588	1,588		
157	Bonneville 2nd Powerhouse	09/1991	09/2033	8.750%	3,998	0		
158	Bonneville 2nd Powerhouse	09/1991	09/2033	8.750%	26	0		
159	Bonneville 2nd Powerhouse	09/1992	09/2033	8.500%	2,446	0		
160	Bonneville 2nd Powerhouse	09/1993	09/2033	7.875%	3,668	0		
161	Bonneville 2nd Powerhouse	09/1994	09/2044	7.150%	5,700	5,700		
162	Bonneville 2nd Powerhouse	09/1995	09/2045	7.150%	3,791	3,791		
163	Bonneville 2nd Powerhouse	09/1996	09/2046	7.150%	376	376		
164	Bonneville Dam	09/1938	09/1988	2.500%	11,726	0		
165	Bonneville Dam	09/1938	09/1988	2.500%	130	0		
166	Bonneville Dam	09/1941	09/1991	2.500%	17,589	0		
167	Bonneville Dam	09/1941	09/1991	2.500%	196	0		
168	Bonneville Dam	09/1942	09/1992	2.500%	5,863	0		
169	Bonneville Dam	09/1942	09/1992	2.500%	65	0		
170	Bonneville Dam	09/1943	09/1993	2.500%	17,589	0		
171	Bonneville Dam	09/1943	09/1993	2.500%	196	0		
172	Bonneville Dam	09/1944	09/1994	2.500%	5,860	0		
173	Bonneville Dam	09/1944	09/1994	2.500%	65	0		
174	Bonneville Dam	09/1945	09/1994	2.500%	82	0		
175	Bonneville Dam	09/1945	09/1994	2.500%	1	0		
176	Bonneville Dam	09/1946	09/1994	2.500%	81	0		
177	Bonneville Dam	09/1946	09/1994	2.500%	1	0		
178	Bonneville Dam	09/1947	09/1994	2.500%	82	0		
179	Bonneville Dam	09/1947	09/1994	2.500%	1	0		
180	Bonneville Dam	09/1948	09/1994	2.500%	81	0		
181	Bonneville Dam	09/1948	09/1994	2.500%	1	0		
182	Bonneville Dam	09/1949	09/1994	2.500%	82	0		
183	Bonneville Dam	09/1949	09/1994	2.500%	1	0		
184	Bonneville Dam	09/1950	09/1994	2.500%	81	0		
185	Bonneville Dam	09/1950	09/1994	2.500%	11	0		
186	Bonneville Dam	09/1951	09/1994	2.500%	81	0		
187	Bonneville Dam	09/1951	09/1994	2.500%	11	0		
188	Bonneville Dam	09/1952	09/1994	2.500%	82	0		
189	Bonneville Dam	09/1952	09/1994	2.500%	1	0		
190	Bonneville Dam	09/1953	09/1994	2.500%	81	0		
191	Bonneville Dam	09/1953	09/1994	2.500%	1	0		
192	Bonneville Dam	09/1954	09/1994	2.500%	82	0		
193	Bonneville Dam	09/1954	09/1994	2.500%	1	0		
194	Bonneville Dam	09/1955	09/1994	2.500%	81	0		
195	Bonneville Dam	09/1955	09/1994	2.500%	1	0		
196	Bonneville Dam	09/1956	09/1994	2.500%	81	0		
197	Bonneville Dam	09/1956	09/1994	2.500%	1	0		
198	Bonneville Dam	09/1957	09/1994	2.500%	82	0		
199	Bonneville Dam	09/1957	09/1994	2.500%	1	0		
200	Bonneville Dam	09/1958	09/1994	2.500%	81	0		
201	Bonneville Dam	09/1958	09/1994	2.500%	1	0		
202	Bonneville Dam	09/1959	09/1994	2.500%	82	0		
203	Bonneville Dam	09/1959	09/1994	2.500%	1	0		
204	Bonneville Dam	09/1960	09/1994	2.500%	81	0		
205	Bonneville Dam	09/1960	09/1994	2.500%	1	0		
206	Bonneville Dam	09/1961	09/1994	2.500%	81	0		
207	Bonneville Dam	09/1961	09/1994	2.500%	1	0		
208	Bonneville Dam	09/1962	09/1994	2.500%	82	0		
209	Bonneville Dam	09/1962	09/1994	2.500%	1	0		
210	Bonneville Dam	09/1963	09/1994	2.500%	81	0		
211	Bonneville Dam	09/1963	09/1994	2.500%	1	0		
212	Bonneville Dam	09/1964	09/1994	2.500%	82	0		
213	Bonneville Dam	09/1964	09/1994	2.500%	1	0		
214	Bonneville Dam	09/1965	09/1994	2.500%	81	0		
215	Bonneville Dam	09/1965	09/1994	2.500%	1	0		
216	Bonneville Dam	09/1966	09/1994	2.500%	81	0		
217	Bonneville Dam	09/1966	09/1994	2.500%	1	0		
218	Bonneville Dam	09/1967	09/1994	2.500%	82	0		
219	Bonneville Dam	09/1967	09/1994	2.500%	1	0		
220	Bonneville Dam	09/1968	09/1994	2.500%	81	0		
221	Bonneville Dam	09/1968	09/1994	2.500%	1	0		
222	Bonneville Dam	09/1969	09/1994	2.500%	82	0		
223	Bonneville Dam	09/1969	09/1994	2.500%	1	0		
224	Bonneville Dam	09/1970	09/1994	2.500%	81	0		
225	Bonneville Dam	09/1970	09/1994	2.500%	1	0		
226	Bonneville Dam	09/1971	09/1994	2.500%	81	0		
227	Bonneville Dam	09/1971	09/1994	2.500%	1	0		
228	Bonneville Dam	09/1972	09/1994	2.500%	82	0		

TABLE 11A: HISTORICAL INVESTMENTS
October 1, 2013 - September 30, 2016 Cost Evaluation period
($000s) (FY 2016)

	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
229	Bonneville Dam	09/1972	09/1994	2.500%	1	0		
230	Bonneville Dam	09/1973	09/1994	2.500%	81	0		
231	Bonneville Dam	09/1973	09/1994	2.500%	1	0		
232	Bonneville Dam	09/1974	09/1994	2.500%	82	0		
233	Bonneville Dam	09/1974	09/1994	2.500%	1	0		
234	Bonneville Dam	09/1975	09/1994	2.500%	81	0		
235	Bonneville Dam	09/1975	09/1994	2.500%	1	0		
236	Bonneville Dam	09/1976	09/1994	2.500%	81	0		
237	Bonneville Dam	09/1976	09/1994	2.500%	1	0		
238	Bonneville Dam	09/1977	09/1994	2.500%	82	0		
239	Bonneville Dam	09/1977	09/1994	2.500%	1	0		
240	Bonneville Dam	09/1977	09/2027	7.150%	15,670	15,670		
241	Bonneville Dam	09/1978	09/1994	2.500%	81	0		
242	Bonneville Dam	09/1978	09/1994	2.500%	1	0		
243	Bonneville Dam	09/1979	09/1994	2.500%	82	0		
244	Bonneville Dam	09/1979	09/1994	2.500%	1	0		
245	Bonneville Dam	09/1980	09/1994	2.500%	81	0		
246	Bonneville Dam	09/1980	09/1994	2.500%	1	0		
247	Bonneville Dam	09/1981	09/1994	2.500%	81	0		
248	Bonneville Dam	09/1981	09/1994	2.500%	1	0		
249	Bonneville Dam	09/1982	09/1994	2.500%	82	0		
250	Bonneville Dam	09/1982	09/1994	2.500%	2	0		
251	Bonneville Dam	09/1983	09/1994	2.500%	81	0		
252	Bonneville Dam	09/1983	09/1994	2.500%	1	0		
253	Bonneville Dam	09/1984	09/1994	10.750%	873	0		
254	Bonneville Dam	09/1984	09/1994	10.750%	10	0		
255	Bonneville Dam	09/1985	09/1994	2.500%	119	0		
256	Bonneville Dam	09/1986	09/1994	2.500%	555	0		
257	Bonneville Dam	09/1986	09/1994	11.375%	454	0		
258	Bonneville Dam	09/1987	09/1994	2.500%	260	0		
259	Bonneville Dam	09/1987	09/1994	8.875%	26	0		
260	Bonneville Dam	09/1988	09/1994	8.500%	4,199	0		
261	Bonneville Dam	09/1988	09/1994	8.500%	10	0		
262	Bonneville Dam	09/1989	09/1994	9.250%	877	0		
263	Bonneville Dam	09/1990	09/1994	8.875%	519	0		
264	Bonneville Dam	09/1990	09/1994	8.875%	651	0		
265	Bonneville Dam	09/1991	09/1994	8.750%	35	0		
266	Bonneville Dam	09/1991	09/1994	8.750%	3,193	0		
267	Bonneville Dam	09/1992	09/1994	8.500%	99	0		
268	Bonneville Dam	09/1992	09/1994	8.500%	25	0		
269	Bonneville Dam	09/1993	09/2018	7.880%	5,011	0		
270	Bonneville Dam	09/1994	09/2029	7.125%	536	0		
271	Bonneville Dam	09/1995	09/2000	7.330%	8	0		
272	Bonneville Dam	09/1995	09/2010	7.090%	25	0		
273	Bonneville Dam	09/1995	09/2020	7.250%	20	0		
274	Bonneville Dam	09/1995	09/2020	7.250%	22	0		
275	Bonneville Dam	09/1995	09/2030	7.860%	53	0		
276	Bonneville Dam	09/1995	09/2035	7.860%	98	0		
277	Bonneville Dam	09/1995	09/2045	7.150%	243	243		
278	Bonneville Dam	09/1995	09/2045	7.150%	410	410		
279	Bonneville Dam	09/1995	09/2045	7.150%	440	440		
280	Bonneville Dam	09/1995	09/2045	7.860%	374	0		
281	Bonneville Dam	09/1996	09/2016	7.290%	834	0		
282	Bonneville Dam	09/1996	09/2031	7.150%	22	22		
283	Bonneville Dam	09/1996	09/2046	7.150%	18	18		
284	Bonneville Dam	09/1996	09/2046	7.150%	18	18		
285	Bonneville Dam	09/1996	09/2046	7.150%	80	80		
286	Bonneville Dam	09/1996	09/2046	7.150%	109	109		
287	Bonneville Dam	09/1996	09/2046	7.150%	142	142		
288	Bonneville Dam	09/1996	09/2046	7.150%	223	223		
289	Bonneville Dam	09/1996	09/2046	7.150%	751	751		
290	Bonneville Dam	09/1996	09/2046	7.150%	1,322	1,322		
291	Bonneville Dam	09/1997	09/2022	7.230%	122	0		
292	Bonneville Dam	09/1997	09/2032	7.150%	518	518		
293	Bonneville Dam	09/1997	09/2047	7.150%	161	161		
294	Bonneville Dam	09/1999	09/2049	5.375%	19,368	19,368		
295	Bonneville Dam	09/2000	09/2050	6.125%	24,446	24,446		
296	Bonneville Dam	09/2001	09/2051	5.875%	2,530	2,530		
297	Bonneville Dam	09/2002	09/2052	5.500%	448	448		
298	Bonneville Dam	09/2003	09/2053	5.125%	4,581	4,581		
299	Bonneville Dam	09/2004	09/2054	5.375%	26,741	26,741		
300	Bonneville Dam	09/2005	09/2055	5.125%	19,725	19,725		
301	Bonneville Dam	09/2006	09/2056	4.500%	2,628	2,628		
302	Bonneville Dam	09/2007	09/2057	5.000%	1,124	1,124		
303	Bonneville Dam	09/2008	09/2058	4.875%	14,609	14,609		
304	Bonneville Dam	09/2009	09/2059	4.375%	2,744	2,744		

TABLE 11A: HISTORICAL INVESTMENTS
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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
305	Bonneville Dam	09/2010	09/2060	4.250%	1,425	1,425		
306	Bonneville Dam	09/2011	09/2061	3.750%	10,962	10,962		
307	Bonneville Dam	09/2013	09/2063	2.875%	268	268		
308	Chief Joseph	09/1955	09/2005	6.910%	29,164	0		
309	Chief Joseph	09/1956	09/2006	6.950%	13,643	0		
310	Chief Joseph	09/1957	09/2007	6.980%	39,586	0		
311	Chief Joseph	09/1958	09/2008	7.020%	31,901	0		
312	Chief Joseph	09/1959	09/2008	7.020%	223	0		
313	Chief Joseph	09/1960	09/2008	7.020%	223	0		
314	Chief Joseph	09/1961	09/2008	7.020%	223	0		
315	Chief Joseph	09/1962	09/2008	7.020%	223	0		
316	Chief Joseph	09/1963	09/2008	7.020%	224	0		
317	Chief Joseph	09/1964	09/2008	7.020%	223	0		
318	Chief Joseph	09/1965	09/2008	7.020%	223	0		
319	Chief Joseph	09/1966	09/2008	7.020%	223	0		
320	Chief Joseph	09/1967	09/2008	7.020%	223	0		
321	Chief Joseph	09/1968	09/2008	7.020%	224	0		
322	Chief Joseph	09/1969	09/2008	7.020%	223	0		
323	Chief Joseph	09/1970	09/2008	7.020%	223	0		
324	Chief Joseph	09/1971	09/2008	7.020%	223	0		
325	Chief Joseph	09/1972	09/2008	7.020%	223	0		
326	Chief Joseph	09/1973	09/2008	7.020%	224	0		
327	Chief Joseph	09/1974	09/2008	7.020%	223	0		
328	Chief Joseph	09/1975	09/2008	7.020%	223	0		
329	Chief Joseph	09/1976	09/2008	7.020%	223	0		
330	Chief Joseph	09/1977	09/2008	7.020%	223	0		
331	Chief Joseph	09/1977	09/2027	7.150%	30,512	30,512		
332	Chief Joseph	09/1978	09/2008	7.020%	224	0		
333	Chief Joseph	09/1978	09/2028	7.150%	75,669	75,669		
334	Chief Joseph	09/1979	09/2008	7.020%	223	0		
335	Chief Joseph	09/1979	09/2029	7.150%	60,079	60,079		
336	Chief Joseph	09/1980	09/2008	7.020%	223	0		
337	Chief Joseph	09/1981	09/2008	7.020%	223	0		
338	Chief Joseph	09/1982	09/2008	7.020%	223	0		
339	Chief Joseph	09/1983	09/2008	7.020%	224	0		
340	Chief Joseph	09/1984	09/2008	10.750%	909	0		
341	Chief Joseph	09/1985	09/2008	7.020%	46	0		
342	Chief Joseph	09/1985	09/2029	7.150%	16,372	16,372		
343	Chief Joseph	09/1986	09/2029	7.150%	5,363	5,363		
344	Chief Joseph	09/1987	09/2008	8.875%	104	0		
345	Chief Joseph	09/1987	09/2029	7.150%	3,036	3,036		
346	Chief Joseph	09/1988	09/2029	7.150%	2,722	2,722		
347	Chief Joseph	09/1989	09/2008	9.250%	327	0		
348	Chief Joseph	09/1989	09/2029	7.150%	2,227	2,227		
349	Chief Joseph	09/1990	09/2008	8.875%	1,024	0		
350	Chief Joseph	09/1990	09/2029	7.150%	4,505	4,505		
351	Chief Joseph	09/1991	09/2008	8.750%	34	0		
352	Chief Joseph	09/1991	09/2008	8.750%	293	0		
353	Chief Joseph	09/1991	09/2029	8.750%	3,840	0		
354	Chief Joseph	09/1992	09/2008	8.500%	142	0		
355	Chief Joseph	09/1992	09/2008	8.500%	717	0		
356	Chief Joseph	09/1992	09/2029	8.500%	2,032	0		
357	Chief Joseph	09/1993	09/2008	7.875%	42	0		
358	Chief Joseph	09/1993	09/2008	7.875%	794	0		
359	Chief Joseph	09/1993	09/2029	7.875%	1,360	0		
360	Chief Joseph	09/1994	09/2029	7.125%	129	0		
361	Chief Joseph	09/1994	09/2029	7.125%	65	0		
362	Chief Joseph	09/1994	09/2044	7.150%	4,280	4,017		
363	Chief Joseph	09/1995	09/2010	7.090%	15	0		
364	Chief Joseph	09/1995	09/2045	7.150%	147	147		
365	Chief Joseph	09/1995	09/2045	7.150%	562	562		
366	Chief Joseph	09/1995	09/2045	7.150%	712	712		
367	Chief Joseph	09/1995	09/2045	7.150%	784	784		
368	Chief Joseph	09/1996	09/2031	7.150%	27	27		
369	Chief Joseph	09/1996	09/2046	7.150%	3	3		
370	Chief Joseph	09/1996	09/2046	7.150%	4	4		
371	Chief Joseph	09/1996	09/2046	7.150%	355	355		
372	Chief Joseph	09/1996	09/2046	7.150%	729	729		
373	Chief Joseph	09/1997	09/2032	7.150%	166	166		
374	Chief Joseph	09/1997	09/2047	7.150%	657	657		
375	Chief Joseph	09/2001	09/2051	5.875%	345	345		
376	Chief Joseph	09/2002	09/2052	5.500%	2	2		
377	Chief Joseph	09/2003	09/2053	5.125%	992	992		
378	Chief Joseph	09/2008	09/2058	4.875%	3,500	3,500		
379	Chief Joseph	09/2009	09/2059	4.375%	24,727	24,727		
380	Chief Joseph	09/2011	09/2061	3.750%	4	4		

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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
381	Chief Joseph	09/2012	09/2062	3.375%	28	28		
382	Chief Joseph	09/2013	09/2063	2.875%	10	10		
383	Columbia Basin	09/1941	09/1991	3.000%	10,919	0		
384	Columbia Basin	09/1941	09/1991	3.000%	1,505	0		
385	Columbia Basin	09/1942	09/1992	3.000%	16,165	0		
386	Columbia Basin	09/1942	09/1992	3.000%	3,011	0		
387	Columbia Basin	09/1943	09/1993	3.000%	8,083	0		
388	Columbia Basin	09/1943	09/1993	3.000%	1,505	0		
389	Columbia Basin	09/1944	09/1994	3.000%	16,165	0		
390	Columbia Basin	09/1944	09/1994	3.000%	3,011	0		
391	Columbia Basin	09/1948	09/1998	3.000%	24,247	0		
392	Columbia Basin	09/1948	09/1998	3.000%	4,516	0		
393	Columbia Basin	09/1949	09/1999	3.000%	24,247	0		
394	Columbia Basin	09/1949	09/1999	3.000%	4,516	0		
395	Columbia Basin	09/1950	09/2000	3.000%	16,165	0		
396	Columbia Basin	09/1950	09/2000	3.000%	3,011	0		
397	Columbia Basin	09/1951	09/2001	6.710%	28,255	0		
398	Columbia Basin	09/1951	09/2001	6.710%	5,790	0		
399	Columbia Basin	09/1952	09/2001	6.710%	258	0		
400	Columbia Basin	09/1952	09/2001	6.710%	48	0		
401	Columbia Basin	09/1953	09/2001	6.710%	258	0		
402	Columbia Basin	09/1953	09/2001	6.710%	48	0		
403	Columbia Basin	09/1954	09/2001	6.710%	258	0		
404	Columbia Basin	09/1954	09/2001	6.710%	48	0		
405	Columbia Basin	09/1955	09/2001	6.710%	258	0		
406	Columbia Basin	09/1955	09/2001	6.710%	48	0		
407	Columbia Basin	09/1956	09/2001	6.710%	259	0		
408	Columbia Basin	09/1956	09/2001	6.710%	48	0		
409	Columbia Basin	09/1957	09/2001	6.710%	258	0		
410	Columbia Basin	09/1957	09/2001	6.710%	48	0		
411	Columbia Basin	09/1958	09/2001	6.710%	258	0		
412	Columbia Basin	09/1958	09/2001	6.710%	48	0		
413	Columbia Basin	09/1959	09/2001	6.710%	258	0		
414	Columbia Basin	09/1959	09/2001	6.710%	48	0		
415	Columbia Basin	09/1960	09/2001	6.710%	258	0		
416	Columbia Basin	09/1960	09/2001	6.710%	48	0		
417	Columbia Basin	09/1961	09/2001	6.710%	259	0		
418	Columbia Basin	09/1961	09/2001	6.710%	48	0		
419	Columbia Basin	09/1962	09/2001	6.710%	258	0		
420	Columbia Basin	09/1962	09/2001	6.710%	48	0		
421	Columbia Basin	09/1963	09/2001	6.710%	258	0		
422	Columbia Basin	09/1963	09/2001	6.710%	48	0		
423	Columbia Basin	09/1964	09/2001	6.710%	258	0		
424	Columbia Basin	09/1964	09/2001	6.710%	48	0		
425	Columbia Basin	09/1965	09/2001	6.710%	258	0		
426	Columbia Basin	09/1965	09/2001	6.710%	48	0		
427	Columbia Basin	09/1966	09/2001	6.710%	259	0		
428	Columbia Basin	09/1966	09/2001	6.710%	48	0		
429	Columbia Basin	09/1967	09/2001	6.710%	258	0		
430	Columbia Basin	09/1967	09/2001	6.710%	48	0		
431	Columbia Basin	09/1967	09/2017	7.290%	758	0		
432	Columbia Basin	09/1968	09/2001	6.710%	258	0		
433	Columbia Basin	09/1968	09/2001	6.710%	48	0		
434	Columbia Basin	09/1969	09/2001	6.710%	258	0		
435	Columbia Basin	09/1969	09/2001	6.710%	48	0		
436	Columbia Basin	09/1970	09/2001	6.710%	258	0		
437	Columbia Basin	09/1970	09/2001	6.710%	48	0		
438	Columbia Basin	09/1971	09/2001	6.710%	259	0		
439	Columbia Basin	09/1971	09/2001	6.710%	48	0		
440	Columbia Basin	09/1972	09/2001	6.710%	258	0		
441	Columbia Basin	09/1972	09/2001	6.710%	48	0		
442	Columbia Basin	09/1973	09/2001	6.710%	258	0		
443	Columbia Basin	09/1973	09/2001	6.710%	48	0		
444	Columbia Basin	09/1974	09/2001	6.710%	258	0		
445	Columbia Basin	09/1974	09/2001	6.710%	48	0		
446	Columbia Basin	09/1975	09/2001	6.710%	258	0		
447	Columbia Basin	09/1975	09/2001	6.710%	48	0		
448	Columbia Basin	09/1976	09/2001	6.710%	259	0		
449	Columbia Basin	09/1976	09/2001	6.710%	48	0		
450	Columbia Basin	09/1977	09/2001	6.710%	258	0		
451	Columbia Basin	09/1977	09/2001	6.710%	48	0		
452	Columbia Basin	09/1978	09/2001	6.710%	258	0		
453	Columbia Basin	09/1978	09/2001	6.710%	48	0		
454	Columbia Basin	09/1979	09/2001	6.710%	258	0		
455	Columbia Basin	09/1979	09/2001	6.710%	48	0		
456	Columbia Basin	09/1980	09/2001	6.710%	258	0		

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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
457	Columbia Basin	09/1980	09/2001	6.710%	48	0		
458	Columbia Basin	09/1981	09/2001	6.710%	259	0		
459	Columbia Basin	09/1981	09/2001	6.710%	48	0		
460	Columbia Basin	09/1982	09/2001	6.710%	258	0		
461	Columbia Basin	09/1982	09/2001	6.710%	48	0		
462	Columbia Basin	09/1983	09/2001	6.710%	258	0		
463	Columbia Basin	09/1983	09/2001	6.710%	48	0		
464	Columbia Basin	09/1984	09/2001	10.750%	7,815	0		
465	Columbia Basin	09/1984	09/2001	10.750%	1,455	0		
466	Columbia Basin	09/1985	09/2001	6.710%	236	0		
467	Columbia Basin	09/1985	09/2001	6.710%	11	0		
468	Columbia Basin	09/1985	09/2001	12.375%	7,338	0		
469	Columbia Basin	09/1985	09/2001	12.375%	362	0		
470	Columbia Basin	09/1986	09/2001	6.710%	127	0		
471	Columbia Basin	09/1987	09/2001	6.710%	13	0		
472	Columbia Basin	09/1988	09/2001	8.500%	184	0		
473	Columbia Basin	09/1988	09/2001	8.500%	2	0		
474	Columbia Basin	09/1989	09/2001	9.250%	1,166	0		
475	Columbia Basin	09/1990	09/2001	8.875%	928	0		
476	Columbia Basin	09/1991	09/2001	8.750%	177	0		
477	Columbia Basin	09/1991	09/2001	8.750%	1,661	0		
478	Columbia Basin	09/1992	09/2001	8.500%	445	0		
479	Columbia Basin	09/1992	09/2001	8.500%	652	0		
480	Columbia Basin	09/1993	09/2001	6.710%	792	0		
481	Columbia Basin	09/1995	09/2000	6.620%	25	0		
482	Columbia Basin	09/1995	09/2020	7.250%	206	0		
483	Columbia Basin	09/1995	09/2030	7.150%	25	0		
484	Columbia Basin	09/1995	09/2030	7.860%	270	0		
485	Columbia Basin	09/1995	09/2030	7.860%	321	0		
486	Columbia Basin	09/1995	09/2030	7.860%	323	0		
487	Columbia Basin	09/1995	09/2030	7.860%	20	0		
488	Columbia Basin	09/1995	09/2045	7.150%	287	287		
489	Columbia Basin	09/1995	09/2045	7.150%	2,511	2,453		
490	Columbia Basin	09/1995	09/2045	7.860%	450	0		
491	Columbia Basin	09/1995	09/2045	7.860%	450	0		
492	Columbia Basin	09/1996	09/2026	7.150%	72	72		
493	Columbia Basin	09/1996	09/2031	7.150%	109	109		
494	Columbia Basin	09/1996	09/2031	7.150%	251	251		
495	Columbia Basin	09/1996	09/2046	7.150%	426	426		
496	Columbia Basin	09/1996	09/2046	7.150%	368	368		
497	Columbia Basin	09/1997	09/2047	7.150%	3,393	3,393		
498	Columbia Basin	09/2001	09/2051	5.875%	69,226	69,226		
499	Columbia Basin	09/2005	09/2055	5.125%	10,963	10,963		
500	Columbia Basin	09/2006	09/2056	4.500%	1,987	1,987		
501	Columbia Basin	09/2007	09/2057	5.000%	929	929		
502	Columbia Basin	09/2008	09/2058	4.875%	835	835		
503	Columbia Basin	09/2009	09/2059	4.375%	1,338	1,338		
504	Columbia Basin	09/2010	09/2060	4.250%	877	877		
505	Columbia Basin	09/2011	09/2061	3.750%	1,723	1,723		
506	Columbia Basin	09/2012	09/2062	3.375%	25	25		
507	Columbia Basin	09/2013	09/2063	2.875%	3,124	3,124		
508	Columbia Basin 3rd Powerhouse	09/1975	09/2025	7.160%	47,328	36,690		
509	Columbia Basin 3rd Powerhouse	09/1975	09/2025	7.160%	8,702	7,435		
510	Columbia Basin 3rd Powerhouse	09/1976	09/2026	7.150%	41,330	41,330		
511	Columbia Basin 3rd Powerhouse	09/1976	09/2026	7.150%	8,037	8,037		
512	Columbia Basin 3rd Powerhouse	09/1977	09/2027	7.150%	42,764	42,764		
513	Columbia Basin 3rd Powerhouse	09/1977	09/2027	7.150%	7,964	7,964		
514	Columbia Basin 3rd Powerhouse	09/1978	09/2028	7.150%	42,399	42,399		
515	Columbia Basin 3rd Powerhouse	09/1978	09/2028	7.150%	7,896	7,896		
516	Columbia Basin 3rd Powerhouse	09/1979	09/2029	7.150%	84,118	84,118		
517	Columbia Basin 3rd Powerhouse	09/1979	09/2029	7.150%	15,666	15,666		
518	Columbia Basin 3rd Powerhouse	09/1983	09/2033	7.150%	712	712		
519	Columbia Basin 3rd Powerhouse	09/1983	09/2033	7.150%	13,003	13,003		
520	Columbia Basin 3rd Powerhouse	09/1984	09/2033	7.150%	16,965	16,965		
521	Columbia Basin 3rd Powerhouse	09/1984	09/2033	7.150%	13,192	13,192		
522	Columbia Basin 3rd Powerhouse	09/1984	09/2033	7.150%	3,160	3,160		
523	Columbia Basin 3rd Powerhouse	09/1985	09/2033	7.150%	2,060	2,060		
524	Columbia Basin 3rd Powerhouse	09/1985	09/2033	7.150%	41,772	41,772		
525	Columbia Basin 3rd Powerhouse	09/1985	09/2033	7.150%	107	107		
526	Columbia Basin 3rd Powerhouse	09/1986	09/2033	7.150%	1,851	1,851		
527	Columbia Basin 3rd Powerhouse	09/1986	09/2033	7.150%	15,538	15,538		
528	Columbia Basin 3rd Powerhouse	09/1987	09/2033	7.150%	1,730	1,730		
529	Columbia Basin 3rd Powerhouse	09/1987	09/2033	7.150%	14,439	14,439		
530	Columbia Basin 3rd Powerhouse	09/1988	09/2033	7.150%	2,294	2,294		
531	Columbia Basin 3rd Powerhouse	09/1988	09/2033	7.150%	4,351	4,351		
532	Columbia Basin 3rd Powerhouse	09/1989	09/2033	7.150%	10,902	10,902		

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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
533	Columbia Basin 3rd Powerhouse	09/1990	09/2033	7.150%	6,383	6,383		
534	Columbia Basin 3rd Powerhouse	09/1994	09/2044	7.150%	12,631	12,631		
535	Columbia River Fish Mitigation	09/1991	09/2041	8.500%	3,969	0		
536	Columbia River Fish Mitigation	09/1992	09/2042	8.500%	874	0		
537	Columbia River Fish Mitigation	09/1993	09/2043	8.500%	85,846	0		
538	Columbia River Fish Mitigation	09/1994	09/2044	8.500%	39,454	0		
539	Columbia River Fish Mitigation	09/1995	09/2045	7.150%	43,343	39,282		
540	Columbia River Fish Mitigation	09/1996	09/2046	7.150%	2,431	2,431		
541	Columbia River Fish Mitigation	09/1999	09/2049	5.375%	14,115	14,115		
542	Columbia River Fish Mitigation	09/2000	09/2050	6.125%	47,006	47,006		
543	Columbia River Fish Mitigation	09/2001	09/2051	5.875%	6,168	6,168		
544	Columbia River Fish Mitigation	09/2002	09/2052	5.500%	8,797	8,797		
545	Columbia River Fish Mitigation	09/2003	09/2053	5.125%	68,440	68,440		
546	Columbia River Fish Mitigation	09/2004	09/2054	5.375%	60,581	60,581		
547	Columbia River Fish Mitigation	09/2005	09/2055	5.125%	52,039	52,039		
548	Columbia River Fish Mitigation	09/2006	09/2056	4.500%	366,395	366,395		
549	Columbia River Fish Mitigation	09/2007	09/2057	5.000%	53,525	53,525		
550	Columbia River Fish Mitigation	09/2008	09/2058	4.875%	36,554	36,554		
551	Columbia River Fish Mitigation	09/2009	09/2059	4.375%	103,203	103,203		
552	Columbia River Fish Mitigation	09/2010	09/2060	4.250%	56,832	56,832		
553	Columbia River Fish Mitigation	09/2011	09/2061	3.750%	106,014	106,014		
554	Columbia River Fish Mitigation	09/2012	09/2062	3.375%	101,616	101,616		
555	Columbia River Fish Mitigation	09/2013	09/2063	2.875%	94,953	94,953		
556	Cougar	09/1964	09/2014	7.230%	10,414	0		
557	Cougar	09/1965	09/2014	7.230%	20	0		
558	Cougar	09/1966	09/2014	7.230%	20	0		
559	Cougar	09/1967	09/2014	7.230%	20	0		
560	Cougar	09/1968	09/2014	7.230%	20	0		
561	Cougar	09/1969	09/2014	7.230%	20	0		
562	Cougar	09/1970	09/2014	7.230%	20	0		
563	Cougar	09/1971	09/2014	7.230%	20	0		
564	Cougar	09/1972	09/2014	7.230%	20	0		
565	Cougar	09/1973	09/2014	7.230%	20	0		
566	Cougar	09/1974	09/2014	7.230%	19	0		
567	Cougar	09/1975	09/2014	7.230%	20	0		
568	Cougar	09/1976	09/2014	7.230%	20	0		
569	Cougar	09/1977	09/2014	7.230%	20	0		
570	Cougar	09/1978	09/2014	7.230%	20	0		
571	Cougar	09/1979	09/2014	7.230%	20	0		
572	Cougar	09/1980	09/2014	7.230%	20	0		
573	Cougar	09/1981	09/2014	7.230%	20	0		
574	Cougar	09/1982	09/2014	7.230%	20	0		
575	Cougar	09/1983	09/2014	7.230%	20	0		
576	Cougar	09/1984	09/2014	10.750%	1	0		
577	Cougar	09/1985	09/2014	7.230%	1	0		
578	Cougar	09/1986	09/2014	7.230%	104	0		
579	Cougar	09/1986	09/2014	11.375%	55	0		
580	Cougar	09/1987	09/2014	7.230%	45	0		
581	Cougar	09/1988	09/2014	8.500%	2	0		
582	Cougar	09/1989	09/2014	9.250%	6	0		
583	Cougar	09/1990	09/2014	8.875%	10	0		
584	Cougar	09/1991	09/2014	8.750%	1,015	0		
585	Cougar	09/1991	09/2014	8.750%	1	0		
586	Cougar	09/1992	09/2014	8.500%	2	0		
587	Cougar	09/1993	09/2014	7.875%	539	0		
588	Cougar	09/1994	09/2019	7.125%	31	0		
589	Cougar	09/1995	09/2000	7.330%	3	0		
590	Cougar	09/1997	09/2047	7.150%	26	26		
591	Cougar	09/2004	09/2054	5.375%	3,622	3,622		
592	Cougar	09/2005	09/2055	5.125%	8,130	8,130		
593	Cougar	09/2006	09/2056	4.500%	109	109		
594	Cougar	09/2007	09/2057	5.000%	120	120		
595	Cougar	09/2009	09/2059	4.375%	121	121		
596	Cougar	09/2010	09/2060	4.250%	59	59		
597	Cougar	09/2011	09/2061	3.750%	282	282		
598	Cougar	09/2012	09/2062	3.375%	139	139		
599	Cougar	09/2013	09/2063	2.875%	4,088	4,088		
600	Detroit Lake/Big Cliff	09/1953	09/2003	6.840%	12,533	0		
601	Detroit Lake/Big Cliff	09/1954	09/2004	6.880%	20,162	0		
602	Detroit Lake/Big Cliff	09/1955	09/2004	6.880%	18	0		
603	Detroit Lake/Big Cliff	09/1956	09/2004	6.880%	19	0		
604	Detroit Lake/Big Cliff	09/1957	09/2004	6.880%	18	0		
605	Detroit Lake/Big Cliff	09/1958	09/2004	6.880%	19	0		
606	Detroit Lake/Big Cliff	09/1959	09/2004	6.880%	18	0		
607	Detroit Lake/Big Cliff	09/1960	09/2004	6.880%	19	0		
608	Detroit Lake/Big Cliff	09/1961	09/2004	6.880%	18	0		

TABLE 11A: HISTORICAL INVESTMENTS
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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
609	Detroit Lake/Big Cliff	09/1962	09/2004	6.880%	19	0		
610	Detroit Lake/Big Cliff	09/1963	09/2004	6.880%	18	0		
611	Detroit Lake/Big Cliff	09/1964	09/2004	6.880%	19	0		
612	Detroit Lake/Big Cliff	09/1965	09/2004	6.880%	18	0		
613	Detroit Lake/Big Cliff	09/1966	09/2004	6.880%	19	0		
614	Detroit Lake/Big Cliff	09/1967	09/2004	6.880%	18	0		
615	Detroit Lake/Big Cliff	09/1968	09/2004	6.880%	19	0		
616	Detroit Lake/Big Cliff	09/1969	09/2004	6.880%	18	0		
617	Detroit Lake/Big Cliff	09/1970	09/2004	6.880%	19	0		
618	Detroit Lake/Big Cliff	09/1971	09/2004	6.880%	18	0		
619	Detroit Lake/Big Cliff	09/1972	09/2004	6.880%	19	0		
620	Detroit Lake/Big Cliff	09/1973	09/2004	6.880%	18	0		
621	Detroit Lake/Big Cliff	09/1974	09/2004	6.880%	19	0		
622	Detroit Lake/Big Cliff	09/1975	09/2004	6.880%	18	0		
623	Detroit Lake/Big Cliff	09/1976	09/2004	6.880%	19	0		
624	Detroit Lake/Big Cliff	09/1977	09/2004	6.880%	18	0		
625	Detroit Lake/Big Cliff	09/1978	09/2004	6.880%	19	0		
626	Detroit Lake/Big Cliff	09/1979	09/2004	6.880%	18	0		
627	Detroit Lake/Big Cliff	09/1980	09/2004	6.880%	19	0		
628	Detroit Lake/Big Cliff	09/1981	09/2004	6.880%	18	0		
629	Detroit Lake/Big Cliff	09/1982	09/2004	6.880%	19	0		
630	Detroit Lake/Big Cliff	09/1983	09/2004	6.880%	18	0		
631	Detroit Lake/Big Cliff	09/1984	09/2004	10.750%	21	0		
632	Detroit Lake/Big Cliff	09/1985	09/2004	6.880%	6	0		
633	Detroit Lake/Big Cliff	09/1986	09/2004	11.375%	38	0		
634	Detroit Lake/Big Cliff	09/1987	09/2004	6.880%	3	0		
635	Detroit Lake/Big Cliff	09/1987	09/2004	8.875%	233	0		
636	Detroit Lake/Big Cliff	09/1988	09/2004	8.500%	68	0		
637	Detroit Lake/Big Cliff	09/1989	09/2004	9.250%	26	0		
638	Detroit Lake/Big Cliff	09/1990	09/2004	8.875%	115	0		
639	Detroit Lake/Big Cliff	09/1991	09/2004	8.750%	9	0		
640	Detroit Lake/Big Cliff	09/1991	09/2004	8.750%	20	0		
641	Detroit Lake/Big Cliff	09/1992	09/2004	8.500%	8	0		
642	Detroit Lake/Big Cliff	09/1993	09/2004	7.875%	211	0		
643	Detroit Lake/Big Cliff	09/1994	09/1999	7.125%	7	0		
644	Detroit Lake/Big Cliff	09/1995	09/2000	7.330%	13	0		
645	Detroit Lake/Big Cliff	09/1995	09/2045	7.150%	38	38		
646	Detroit Lake/Big Cliff	09/1996	09/2006	6.950%	24	0		
647	Detroit Lake/Big Cliff	09/2001	09/2051	5.875%	282	282		
648	Detroit Lake/Big Cliff	09/2002	09/2052	5.500%	18	18		
649	Detroit Lake/Big Cliff	09/2003	09/2053	5.125%	223	223		
650	Detroit Lake/Big Cliff	09/2005	09/2055	5.125%	1,031	1,031		
651	Detroit Lake/Big Cliff	09/2013	09/2063	2.875%	528	528		
652	Dworshak	09/1973	09/2023	7.190%	138,443	91,942		
653	Dworshak	09/1973	09/2023	7.190%	836	0		
654	Dworshak	09/1974	09/2023	7.190%	515	0		
655	Dworshak	09/1974	09/2023	7.190%	3	0		
656	Dworshak	09/1975	09/2023	7.190%	518	0		
657	Dworshak	09/1975	09/2023	7.190%	3	0		
658	Dworshak	09/1976	09/2023	7.190%	518	0		
659	Dworshak	09/1976	09/2023	7.190%	3	0		
660	Dworshak	09/1977	09/2023	7.190%	518	0		
661	Dworshak	09/1977	09/2023	7.190%	3	0		
662	Dworshak	09/1978	09/2023	7.190%	518	0		
663	Dworshak	09/1978	09/2023	7.190%	3	0		
664	Dworshak	09/1979	09/2023	7.190%	518	0		
665	Dworshak	09/1979	09/2023	7.190%	3	0		
666	Dworshak	09/1980	09/2023	7.190%	518	0		
667	Dworshak	09/1980	09/2023	7.190%	3	0		
668	Dworshak	09/1981	09/2023	7.190%	518	0		
669	Dworshak	09/1981	09/2023	7.190%	3	0		
670	Dworshak	09/1982	09/2023	7.190%	518	0		
671	Dworshak	09/1982	09/2023	7.190%	3	0		
672	Dworshak	09/1983	09/2023	7.190%	523	0		
673	Dworshak	09/1983	09/2023	7.190%	3	0		
674	Dworshak	09/1984	09/2023	10.750%	2,499	0		
675	Dworshak	09/1984	09/2023	10.750%	15	0		
676	Dworshak	09/1985	09/2023	7.190%	1,141	0		
677	Dworshak	09/1986	09/2023	7.190%	197	0		
678	Dworshak	09/1987	09/2023	7.190%	36	0		
679	Dworshak	09/1987	09/2023	8.875%	65	0		
680	Dworshak	09/1988	09/2023	8.500%	61	0		
681	Dworshak	09/1989	09/2023	9.250%	63	0		
682	Dworshak	09/1990	09/2023	8.875%	245	0		
683	Dworshak	09/1990	09/2023	8.875%	24	0		
684	Dworshak	09/1991	09/2023	8.750%	224	0		

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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
685	Dworshak	09/1992	09/2023	2.625%	4	0		
686	Dworshak	09/1992	09/2023	8.500%	28	0		
687	Dworshak	09/1992	09/2023	8.500%	24	0		
688	Dworshak	09/1993	09/2023	7.875%	41	0		
689	Dworshak	09/1993	09/2023	7.875%	1,872	0		
690	Dworshak	09/1994	09/2029	7.125%	1,351	0		
691	Dworshak	09/1994	09/2029	7.125%	964	0		
692	Dworshak	09/1995	09/2020	7.930%	55	0		
693	Dworshak	09/1995	09/2030	7.150%	218	218		
694	Dworshak	09/1995	09/2045	7.150%	1,162	1,162		
695	Dworshak	09/1996	09/2011	7.130%	107	0		
696	Dworshak	09/1996	09/2021	7.230%	26	0		
697	Dworshak	09/1996	09/2021	7.230%	184	0		
698	Dworshak	09/1996	09/2031	7.150%	6	6		
699	Dworshak	09/1996	09/2031	7.150%	203	203		
700	Dworshak	09/1996	09/2046	7.150%	3	3		
701	Dworshak	09/1996	09/2046	7.150%	4	4		
702	Dworshak	09/1996	09/2046	7.150%	46	46		
703	Dworshak	09/1997	09/2047	7.150%	7,588	7,588		
704	Dworshak	09/1999	09/2049	5.375%	630	630		
705	Dworshak	09/2002	09/2052	5.500%	199	199		
706	Dworshak	09/2003	09/2053	5.125%	761	761		
707	Dworshak	09/2005	09/2055	5.125%	713	713		
708	Dworshak	09/2006	09/2056	4.500%	73	73		
709	Dworshak	09/2008	09/2058	4.875%	10	10		
710	Dworshak	09/2009	09/2059	4.375%	2,480	2,480		
711	Green Peter/Foster	09/1967	09/2017	7.290%	24,445	0		
712	Green Peter/Foster	09/1968	09/2018	7.280%	12,180	0		
713	Green Peter/Foster	09/1969	09/2018	7.280%	39	0		
714	Green Peter/Foster	09/1970	09/2018	7.280%	40	0		
715	Green Peter/Foster	09/1971	09/2018	7.280%	39	0		
716	Green Peter/Foster	09/1972	09/2018	7.280%	39	0		
717	Green Peter/Foster	09/1973	09/2018	7.280%	39	0		
718	Green Peter/Foster	09/1974	09/2018	7.280%	39	0		
719	Green Peter/Foster	09/1975	09/2018	7.280%	39	0		
720	Green Peter/Foster	09/1976	09/2018	7.280%	39	0		
721	Green Peter/Foster	09/1977	09/2018	7.280%	39	0		
722	Green Peter/Foster	09/1978	09/2018	7.280%	39	0		
723	Green Peter/Foster	09/1979	09/2018	7.280%	39	0		
724	Green Peter/Foster	09/1980	09/2018	7.280%	40	0		
725	Green Peter/Foster	09/1981	09/2018	7.280%	39	0		
726	Green Peter/Foster	09/1982	09/2018	7.280%	39	0		
727	Green Peter/Foster	09/1983	09/2018	7.280%	39	0		
728	Green Peter/Foster	09/1984	09/2018	10.750%	15	0		
729	Green Peter/Foster	09/1985	09/2018	7.280%	16	0		
730	Green Peter/Foster	09/1986	09/2018	7.280%	3	0		
731	Green Peter/Foster	09/1986	09/2018	11.375%	3	0		
732	Green Peter/Foster	09/1987	09/2018	7.280%	1	0		
733	Green Peter/Foster	09/1987	09/2018	8.875%	2	0		
734	Green Peter/Foster	09/1988	09/2018	8.500%	13	0		
735	Green Peter/Foster	09/1989	09/2018	9.250%	24	0		
736	Green Peter/Foster	09/1990	09/2018	8.875%	5	0		
737	Green Peter/Foster	09/1991	09/2018	8.750%	48	0		
738	Green Peter/Foster	09/1992	09/2018	8.500%	2	0		
739	Green Peter/Foster	09/1993	09/2018	7.875%	41	0		
740	Green Peter/Foster	09/1994	09/1999	7.125%	6	0		
741	Green Peter/Foster	09/1995	09/2000	7.330%	4	0		
742	Green Peter/Foster	09/1995	09/2020	7.250%	11	0		
743	Green Peter/Foster	09/1995	09/2020	7.250%	24	0		
744	Green Peter/Foster	09/1996	09/2046	7.150%	26	26		
745	Green Peter/Foster	09/2001	09/2051	5.875%	200	200		
746	Green Peter/Foster	09/2011	09/2061	3.750%	87	87		
747	Green Peter/Foster	09/2012	09/2062	3.375%	28	28		
748	Hills Creek	09/1962	09/2012	7.160%	10,353	0		
749	Hills Creek	09/1963	09/2012	7.160%	12	0		
750	Hills Creek	09/1964	09/2012	7.160%	13	0		
751	Hills Creek	09/1965	09/2012	7.160%	13	0		
752	Hills Creek	09/1966	09/2012	7.160%	13	0		
753	Hills Creek	09/1967	09/2012	7.160%	13	0		
754	Hills Creek	09/1968	09/2012	7.160%	13	0		
755	Hills Creek	09/1969	09/2012	7.160%	13	0		
756	Hills Creek	09/1970	09/2012	7.160%	13	0		
757	Hills Creek	09/1971	09/2012	7.160%	13	0		
758	Hills Creek	09/1972	09/2012	7.160%	13	0		
759	Hills Creek	09/1973	09/2012	7.160%	13	0		
760	Hills Creek	09/1974	09/2012	7.160%	13	0		

TABLE 11A: HISTORICAL INVESTMENTS
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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
761	Hills Creek	09/1975	09/2012	7.160%	13	0		
762	Hills Creek	09/1976	09/2012	7.160%	13	0		
763	Hills Creek	09/1977	09/2012	7.160%	13	0		
764	Hills Creek	09/1978	09/2012	7.160%	13	0		
765	Hills Creek	09/1979	09/2012	7.160%	13	0		
766	Hills Creek	09/1980	09/2012	7.160%	13	0		
767	Hills Creek	09/1981	09/2012	7.160%	13	0		
768	Hills Creek	09/1982	09/2012	7.160%	13	0		
769	Hills Creek	09/1983	09/2012	7.160%	13	0		
770	Hills Creek	09/1984	09/2012	10.750%	52	0		
771	Hills Creek	09/1985	09/2012	7.160%	6	0		
772	Hills Creek	09/1987	09/2012	8.875%	3	0		
773	Hills Creek	09/1988	09/2012	8.500%	3	0		
774	Hills Creek	09/1990	09/2012	8.875%	3	0		
775	Hills Creek	09/1991	09/2012	8.750%	17	0		
776	Hills Creek	09/1992	09/2012	8.500%	1	0		
777	Hills Creek	09/1993	09/2012	7.875%	13	0		
778	Hills Creek	09/1996	09/2046	7.150%	28	28		
779	Hills Creek	09/2000	09/2050	6.125%	2,630	2,630		
780	Hills Creek	09/2001	09/2051	5.875%	8	8		
781	Hills Creek	09/2002	09/2052	5.500%	2	2		
782	Hills Creek	09/2005	09/2055	5.125%	46	46		
783	Hills Creek	09/2011	09/2061	3.750%	12	12		
784	Hills Creek	09/2012	09/2062	3.375%	142	142		
785	Hungry Horse Dam	09/1953	09/2003	6.840%	75,076	0		
786	Hungry Horse Dam	09/1953	09/2003	6.840%	2,126	0		
787	Hungry Horse Dam	09/1954	09/2003	6.840%	17	0		
788	Hungry Horse Dam	09/1954	09/2003	6.840%	1	0		
789	Hungry Horse Dam	09/1955	09/2003	6.840%	17	0		
790	Hungry Horse Dam	09/1955	09/2003	6.840%	1	0		
791	Hungry Horse Dam	09/1956	09/2003	6.840%	17	0		
792	Hungry Horse Dam	09/1956	09/2003	6.840%	1	0		
793	Hungry Horse Dam	09/1957	09/2003	6.840%	18	0		
794	Hungry Horse Dam	09/1957	09/2003	6.840%	1	0		
795	Hungry Horse Dam	09/1958	09/2003	6.840%	18	0		
796	Hungry Horse Dam	09/1958	09/2003	6.840%	1	0		
797	Hungry Horse Dam	09/1959	09/2003	6.840%	18	0		
798	Hungry Horse Dam	09/1959	09/2003	6.840%	1	0		
799	Hungry Horse Dam	09/1960	09/2003	6.840%	18	0		
800	Hungry Horse Dam	09/1960	09/2003	6.840%	1	0		
801	Hungry Horse Dam	09/1961	09/2003	6.840%	18	0		
802	Hungry Horse Dam	09/1961	09/2003	6.840%	1	0		
803	Hungry Horse Dam	09/1962	09/2003	6.840%	18	0		
804	Hungry Horse Dam	09/1962	09/2003	6.840%	1	0		
805	Hungry Horse Dam	09/1963	09/2003	6.840%	18	0		
806	Hungry Horse Dam	09/1963	09/2003	6.840%	1	0		
807	Hungry Horse Dam	09/1964	09/2003	6.840%	17	0		
808	Hungry Horse Dam	09/1964	09/2003	6.840%	1	0		
809	Hungry Horse Dam	09/1965	09/2003	6.840%	17	0		
810	Hungry Horse Dam	09/1965	09/2003	6.840%	1	0		
811	Hungry Horse Dam	09/1966	09/2003	6.840%	17	0		
812	Hungry Horse Dam	09/1966	09/2003	6.840%	1	0		
813	Hungry Horse Dam	09/1967	09/2003	6.840%	18	0		
814	Hungry Horse Dam	09/1967	09/2003	6.840%	1	0		
815	Hungry Horse Dam	09/1968	09/2003	6.840%	18	0		
816	Hungry Horse Dam	09/1968	09/2003	6.840%	1	0		
817	Hungry Horse Dam	09/1969	09/2003	6.840%	18	0		
818	Hungry Horse Dam	09/1969	09/2003	6.840%	1	0		
819	Hungry Horse Dam	09/1970	09/2003	6.840%	18	0		
820	Hungry Horse Dam	09/1970	09/2003	6.840%	1	0		
821	Hungry Horse Dam	09/1971	09/2003	6.840%	18	0		
822	Hungry Horse Dam	09/1971	09/2003	6.840%	1	0		
823	Hungry Horse Dam	09/1972	09/2003	6.840%	18	0		
824	Hungry Horse Dam	09/1972	09/2003	6.840%	1	0		
825	Hungry Horse Dam	09/1973	09/2003	6.840%	18	0		
826	Hungry Horse Dam	09/1973	09/2003	6.840%	1	0		
827	Hungry Horse Dam	09/1974	09/2003	6.840%	17	0		
828	Hungry Horse Dam	09/1974	09/2003	6.840%	1	0		
829	Hungry Horse Dam	09/1975	09/2003	6.840%	17	0		
830	Hungry Horse Dam	09/1975	09/2003	6.840%	1	0		
831	Hungry Horse Dam	09/1976	09/2003	6.840%	10	0		
832	Hungry Horse Dam	09/1976	09/2003	6.840%	1	0		
833	Hungry Horse Dam	09/1977	09/2003	6.840%	18	0		
834	Hungry Horse Dam	09/1977	09/2003	6.840%	1	0		
835	Hungry Horse Dam	09/1978	09/2003	6.840%	18	0		
836	Hungry Horse Dam	09/1978	09/2003	6.840%	1	0		

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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
837	Hungry Horse Dam	09/1979	09/2003	6.840%	18	0		
838	Hungry Horse Dam	09/1979	09/2003	6.840%	1	0		
839	Hungry Horse Dam	09/1980	09/2003	6.840%	18	0		
840	Hungry Horse Dam	09/1980	09/2003	6.840%	1	0		
841	Hungry Horse Dam	09/1981	09/2003	6.840%	22	0		
842	Hungry Horse Dam	09/1981	09/2003	6.840%	1	0		
843	Hungry Horse Dam	09/1982	09/2003	6.840%	1	0		
844	Hungry Horse Dam	09/1983	09/2003	6.840%	12	0		
845	Hungry Horse Dam	09/1983	09/2003	6.840%	1	0		
846	Hungry Horse Dam	09/1984	09/2003	10.750%	32	0		
847	Hungry Horse Dam	09/1984	09/2003	10.750%	1	0		
848	Hungry Horse Dam	09/1985	09/2003	12.375%	36	0		
849	Hungry Horse Dam	09/1985	09/2003	12.375%	37	0		
850	Hungry Horse Dam	09/1989	09/2003	9.250%	101	0		
851	Hungry Horse Dam	09/1990	09/2003	8.875%	58	0		
852	Hungry Horse Dam	09/1991	09/2003	8.750%	19	0		
853	Hungry Horse Dam	09/1992	09/2003	8.500%	9	0		
854	Hungry Horse Dam	09/1993	09/2003	7.875%	4,136	0		
855	Hungry Horse Dam	09/1993	09/2003	7.875%	2	0		
856	Hungry Horse Dam	09/1994	09/2019	7.125%	56	0		
857	Hungry Horse Dam	09/1995	09/2000	6.620%	156	0		
858	Hungry Horse Dam	09/1995	09/2000	6.620%	84	0		
859	Hungry Horse Dam	09/1995	09/2020	7.930%	450	0		
860	Hungry Horse Dam	09/1995	09/2030	7.150%	536	536		
861	Hungry Horse Dam	09/1995	09/2030	7.150%	1,198	1,195		
862	Hungry Horse Dam	09/1995	09/2045	7.150%	6,190	6,190		
863	Hungry Horse Dam	09/1995	09/2045	7.860%	14,354	0		
864	Hungry Horse Dam	09/1996	09/2046	7.150%	15	15		
865	Hungry Horse Dam	09/1996	09/2046	7.150%	2	2		
866	Hungry Horse Dam	09/1997	09/2007	6.950%	154	0		
867	Hungry Horse Dam	09/1997	09/2047	7.150%	111	111		
868	Hungry Horse Dam	09/2001	09/2051	5.875%	552	552		
869	Hungry Horse Dam	09/2005	09/2055	5.125%	2,951	2,951		
870	Hungry Horse Dam	09/2007	09/2057	5.000%	294	294		
871	Hungry Horse Dam	09/2008	09/2058	4.875%	76	76		
872	Hungry Horse Dam	09/2009	09/2059	4.375%	60	60		
873	Hungry Horse Dam	09/2010	09/2060	4.250%	779	779		
874	Hungry Horse Dam	09/2011	09/2061	3.750%	503	503		
875	Hungry Horse Dam	09/2012	09/2062	3.375%	6	6		
876	Ice Harbor	09/1962	09/2012	7.160%	59,699	0		
877	Ice Harbor	09/1962	09/2012	7.160%	664	0		
878	Ice Harbor	09/1963	09/2012	7.160%	46	0		
879	Ice Harbor	09/1963	09/2012	7.160%	1	0		
880	Ice Harbor	09/1964	09/2012	7.160%	46	0		
881	Ice Harbor	09/1964	09/2012	7.160%	1	0		
882	Ice Harbor	09/1965	09/2012	7.160%	46	0		
883	Ice Harbor	09/1965	09/2012	7.160%	1	0		
884	Ice Harbor	09/1966	09/2012	7.160%	46	0		
885	Ice Harbor	09/1966	09/2012	7.160%	1	0		
886	Ice Harbor	09/1967	09/2012	7.160%	46	0		
887	Ice Harbor	09/1967	09/2012	7.160%	1	0		
888	Ice Harbor	09/1968	09/2012	7.160%	46	0		
889	Ice Harbor	09/1968	09/2012	7.160%	1	0		
890	Ice Harbor	09/1969	09/2012	7.160%	46	0		
891	Ice Harbor	09/1969	09/2012	7.160%	1	0		
892	Ice Harbor	09/1970	09/2012	7.160%	46	0		
893	Ice Harbor	09/1970	09/2012	7.160%	1	0		
894	Ice Harbor	09/1971	09/2012	7.160%	46	0		
895	Ice Harbor	09/1971	09/2012	7.160%	1	0		
896	Ice Harbor	09/1972	09/2012	7.160%	46	0		
897	Ice Harbor	09/1972	09/2012	7.160%	1	0		
898	Ice Harbor	09/1973	09/2012	7.160%	46	0		
899	Ice Harbor	09/1973	09/2012	7.160%	1	0		
900	Ice Harbor	09/1974	09/2012	7.160%	46	0		
901	Ice Harbor	09/1974	09/2012	7.160%	1	0		
902	Ice Harbor	09/1975	09/2012	7.160%	46	0		
903	Ice Harbor	09/1975	09/2012	7.160%	1	0		
904	Ice Harbor	09/1976	09/2012	7.160%	46	0		
905	Ice Harbor	09/1976	09/2012	7.160%	1	0		
906	Ice Harbor	09/1976	09/2026	7.150%	20,472	20,472		
907	Ice Harbor	09/1976	09/2026	7.150%	228	228		
908	Ice Harbor	09/1977	09/2012	7.160%	46	0		
909	Ice Harbor	09/1977	09/2012	7.160%	1	0		
910	Ice Harbor	09/1978	09/2012	7.160%	46	0		
911	Ice Harbor	09/1978	09/2012	7.160%	1	0		
912	Ice Harbor	09/1979	09/2012	7.160%	46	0		

TABLE 11A: HISTORICAL INVESTMENTS
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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
913	Ice Harbor	09/1979	09/2012	7.160%	1	0		
914	Ice Harbor	09/1980	09/2012	7.160%	46	0		
915	Ice Harbor	09/1980	09/2012	7.160%	1	0		
916	Ice Harbor	09/1981	09/2012	7.160%	46	0		
917	Ice Harbor	09/1981	09/2012	7.160%	1	0		
918	Ice Harbor	09/1982	09/2012	7.160%	46	0		
919	Ice Harbor	09/1982	09/2012	7.160%	1	0		
920	Ice Harbor	09/1983	09/2012	7.160%	46	0		
921	Ice Harbor	09/1983	09/2012	7.160%	1	0		
922	Ice Harbor	09/1985	09/2012	7.160%	41	0		
923	Ice Harbor	09/1985	09/2026	7.150%	21	21		
924	Ice Harbor	09/1986	09/2012	7.160%	137	0		
925	Ice Harbor	09/1987	09/2012	7.160%	3	0		
926	Ice Harbor	09/1987	09/2012	8.875%	71	0		
927	Ice Harbor	09/1987	09/2012	8.875%	1	0		
928	Ice Harbor	09/1988	09/2012	8.500%	8	0		
929	Ice Harbor	09/1988	09/2012	8.500%	57	0		
930	Ice Harbor	09/1989	09/2012	9.250%	51	0		
931	Ice Harbor	09/1990	09/2012	8.875%	427	0		
932	Ice Harbor	09/1991	09/2012	8.750%	348	0		
933	Ice Harbor	09/1992	09/2012	8.500%	177	0		
934	Ice Harbor	09/1993	09/2012	7.875%	3,192	0		
935	Ice Harbor	09/1993	09/2012	7.875%	1,645	0		
936	Ice Harbor	09/1994	09/2029	7.125%	328	0		
937	Ice Harbor	09/1994	09/2029	7.125%	520	0		
938	Ice Harbor	09/1995	09/2000	7.330%	2	0		
939	Ice Harbor	09/1995	09/2019	7.270%	84	0		
940	Ice Harbor	09/1995	09/2019	7.270%	171	0		
941	Ice Harbor	09/1995	09/2019	7.270%	849	0		
942	Ice Harbor	09/1996	09/2031	7.150%	78	78		
943	Ice Harbor	09/1996	09/2041	7.150%	371	371		
944	Ice Harbor	09/1997	09/2022	7.230%	66	0		
945	Ice Harbor	09/1997	09/2047	7.150%	67	67		
946	Ice Harbor	09/1999	09/2049	5.375%	5,516	5,516		
947	Ice Harbor	09/2000	09/2050	6.125%	548	548		
948	Ice Harbor	09/2001	09/2051	5.875%	764	764		
949	Ice Harbor	09/2002	09/2052	5.500%	1,014	1,014		
950	Ice Harbor	09/2003	09/2053	5.125%	50	50		
951	Ice Harbor	09/2004	09/2054	5.375%	3,321	3,321		
952	Ice Harbor	09/2008	09/2058	4.875%	14	14		
953	Ice Harbor	09/2009	09/2059	4.375%	2,615	2,615		
954	Ice Harbor	09/2010	09/2060	4.250%	207	207		
955	Ice Harbor	09/2011	09/2061	3.750%	819	819		
956	Ice Harbor	09/2012	09/2062	3.375%	115	115		
957	John Day	09/1968	09/2018	7.280%	27,254	0		
958	John Day	09/1969	09/2019	7.270%	96,104	0		
959	John Day	09/1970	09/2020	7.250%	23,656	0		
960	John Day	09/1971	09/2021	7.230%	34,974	0		
961	John Day	09/1972	09/2022	7.210%	11,502	0		
962	John Day	09/1984	09/2022	10.750%	3,677	0		
963	John Day	09/1985	09/2022	7.210%	6,490	0		
964	John Day	09/1985	09/2022	12.375%	1,209	0		
965	John Day	09/1986	09/2022	7.210%	3,227	0		
966	John Day	09/1986	09/2022	11.375%	713	0		
967	John Day	09/1987	09/2022	7.210%	706	0		
968	John Day	09/1987	09/2022	8.875%	4,353	0		
969	John Day	09/1988	09/2022	8.500%	332	0		
970	John Day	09/1988	09/2022	8.500%	199	0		
971	John Day	09/1989	09/2022	7.210%	30	0		
972	John Day	09/1989	09/2022	9.250%	377	0		
973	John Day	09/1990	09/2022	7.210%	37	0		
974	John Day	09/1990	09/2022	8.875%	543	0		
975	John Day	09/1991	09/2022	8.750%	13,218	0		
976	John Day	09/1991	09/2022	8.750%	144	0		
977	John Day	09/1992	09/2022	7.210%	19	0		
978	John Day	09/1992	09/2022	8.500%	95	0		
979	John Day	09/1993	09/2022	7.875%	7,810	0		
980	John Day	09/1993	09/2022	7.875%	9,585	0		
981	John Day	09/1994	09/2019	7.125%	14	0		
982	John Day	09/1994	09/2029	7.125%	1,252	0		
983	John Day	09/1995	09/2000	7.330%	2	0		
984	John Day	09/1995	09/2000	7.330%	9	0		
985	John Day	09/1995	09/2020	7.250%	79	0		
986	John Day	09/1995	09/2035	7.150%	22	22		
987	John Day	09/1995	09/2035	7.150%	52	52		
988	John Day	09/1995	09/2035	7.150%	121	121		

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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
989	John Day	09/1995	09/2045	7.150%	37	37		
990	John Day	09/1995	09/2045	7.150%	608	608		
991	John Day	09/1995	09/2045	7.150%	7,653	7,653		
992	John Day	09/1996	09/2011	7.130%	237	0		
993	John Day	09/1996	09/2016	7.290%	1,072	0		
994	John Day	09/1997	09/2022	7.230%	133	0		
995	John Day	09/1997	09/2047	7.150%	179	179		
996	John Day	09/1999	09/2049	5.375%	3,510	3,510		
997	John Day	09/2000	09/2050	6.125%	2,761	2,761		
998	John Day	09/2001	09/2051	5.875%	619	619		
999	John Day	09/2004	09/2054	5.375%	2,830	2,830		
1000	John Day	09/2005	09/2055	5.125%	2,827	2,827		
1001	John Day	09/2006	09/2056	4.500%	601	601		
1002	John Day	09/2007	09/2057	5.000%	233	233		
1003	John Day	09/2009	09/2059	4.375%	1,548	1,548		
1004	John Day	09/2010	09/2060	4.250%	356	356		
1005	John Day	09/2011	09/2061	3.750%	175	175		
1006	John Day	09/2012	09/2062	3.375%	6,161	6,161		
1007	John Day	09/2013	09/2063	2.875%	17	17		
1008	Libby	09/1975	09/2025	7.160%	54,644	48,138		
1009	Libby	09/1976	09/2026	7.150%	153,432	153,432		
1010	Libby	09/1977	09/2026	7.150%	1,465	1,465		
1011	Libby	09/1978	09/2026	7.150%	1,465	1,465		
1012	Libby	09/1979	09/2026	7.150%	1,465	1,465		
1013	Libby	09/1980	09/2026	7.150%	1,465	1,465		
1014	Libby	09/1981	09/2026	7.150%	1,465	1,465		
1015	Libby	09/1982	09/2026	7.150%	1,465	1,465		
1016	Libby	09/1983	09/2026	7.150%	1,465	1,465		
1017	Libby	09/1984	09/2026	10.750%	104	0		
1018	Libby	09/1985	09/2026	7.150%	518	518		
1019	Libby	09/1986	09/2026	7.150%	283	283		
1020	Libby	09/1987	09/2026	7.150%	2	2		
1021	Libby	09/1988	09/2026	8.505%	35	0		
1022	Libby	09/1988	09/2038	7.150%	18,043	14,781		
1023	Libby	09/1989	09/2026	7.150%	1	1		
1024	Libby	09/1989	09/2026	9.250%	131	0		
1025	Libby	09/1990	09/2026	8.875%	11	0		
1026	Libby	09/1991	09/2026	8.750%	134	0		
1027	Libby	09/1992	09/2026	8.500%	100	0		
1028	Libby	09/1992	09/2026	8.500%	70	0		
1029	Libby	09/1993	09/2026	7.875%	600	0		
1030	Libby	09/1994	09/2029	7.125%	215	0		
1031	Libby	09/1994	09/2029	7.150%	286	152		
1032	Libby	09/1995	09/2030	7.150%	15	15		
1033	Libby	09/1995	09/2030	7.150%	41	41		
1034	Libby	09/1995	09/2030	7.150%	94	94		
1035	Libby	09/1997	09/2022	7.230%	432	0		
1036	Libby	09/1997	09/2047	7.150%	660	660		
1037	Libby	09/2001	09/2051	5.875%	5,562	5,562		
1038	Libby	09/2008	09/2058	4.875%	1,567	1,567		
1039	Libby	09/2010	09/2060	4.250%	40	40		
1040	Libby	09/2011	09/2061	3.750%	152	152		
1041	Libby	09/2012	09/2062	3.375%	16	16		
1042	Little Goose	09/1970	09/2020	7.250%	22,326	0		
1043	Little Goose	09/1971	09/2021	7.230%	42,962	0		
1044	Little Goose	09/1972	09/2021	7.230%	28	0		
1045	Little Goose	09/1973	09/2021	7.230%	29	0		
1046	Little Goose	09/1974	09/2021	7.230%	28	0		
1047	Little Goose	09/1975	09/2021	7.230%	29	0		
1048	Little Goose	09/1976	09/2021	7.230%	28	0		
1049	Little Goose	09/1977	09/2021	7.230%	29	0		
1050	Little Goose	09/1978	09/2021	7.230%	28	0		
1051	Little Goose	09/1978	09/2028	7.150%	49,578	49,578		
1052	Little Goose	09/1979	09/2021	7.230%	29	0		
1053	Little Goose	09/1980	09/2021	7.230%	28	0		
1054	Little Goose	09/1981	09/2021	7.230%	29	0		
1055	Little Goose	09/1982	09/2021	7.230%	28	0		
1056	Little Goose	09/1983	09/2021	7.230%	29	0		
1057	Little Goose	09/1984	09/2021	10.750%	201	0		
1058	Little Goose	09/1985	09/2021	7.230%	174	0		
1059	Little Goose	09/1985	09/2028	7.150%	47	47		
1060	Little Goose	09/1986	09/2021	7.230%	239	0		
1061	Little Goose	09/1987	09/2021	7.230%	6	0		
1062	Little Goose	09/1987	09/2021	8.875%	72	0		
1063	Little Goose	09/1988	09/2021	8.500%	12	0		
1064	Little Goose	09/1988	09/2021	8.500%	68	0		

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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
1065	Little Goose	09/1989	09/2021	9.250%	77	0		
1066	Little Goose	09/1990	09/2021	8.875%	408	0		
1067	Little Goose	09/1990	09/2021	8.875%	21	0		
1068	Little Goose	09/1991	09/2021	8.750%	266	0		
1069	Little Goose	09/1992	09/2021	8.500%	66	0		
1070	Little Goose	09/1992	09/2021	8.500%	27	0		
1071	Little Goose	09/1993	09/2021	7.875%	276	0		
1072	Little Goose	09/1993	09/2021	7.875%	3,359	0		
1073	Little Goose	09/1994	09/2019	7.125%	37	0		
1074	Little Goose	09/1994	09/2029	7.125%	2,044	0		
1075	Little Goose	09/1995	09/2040	7.150%	17	17		
1076	Little Goose	09/1995	09/2040	7.150%	450	450		
1077	Little Goose	09/1995	09/2040	7.150%	733	733		
1078	Little Goose	09/1996	09/2046	7.150%	10	10		
1079	Little Goose	09/1996	09/2046	7.150%	10	10		
1080	Little Goose	09/1996	09/2046	7.150%	211	211		
1081	Little Goose	09/1996	09/2046	7.150%	241	241		
1082	Little Goose	09/1996	09/2046	7.150%	520	520		
1083	Little Goose	09/1996	09/2046	7.150%	3,909	3,909		
1084	Little Goose	09/1997	09/2047	7.150%	1	1		
1085	Little Goose	09/2001	09/2051	5.875%	4,608	4,608		
1086	Little Goose	09/2002	09/2052	5.500%	27	27		
1087	Little Goose	09/2003	09/2053	5.125%	146	146		
1088	Little Goose	09/2004	09/2054	5.375%	67	67		
1089	Little Goose	09/2008	09/2058	4.875%	13	13		
1090	Little Goose	09/2009	09/2059	4.375%	3,171	3,171		
1091	Little Goose	09/2010	09/2060	4.250%	30	30		
1092	Little Goose	09/2013	09/2063	2.875%	66	66		
1093	Lookout Dam	09/1955	09/2005	6.910%	34,290	0		
1094	Lookout Dam	09/1956	09/2005	6.910%	52	0		
1095	Lookout Dam	09/1957	09/2005	6.910%	51	0		
1096	Lookout Dam	09/1958	09/2005	6.910%	51	0		
1097	Lookout Dam	09/1959	09/2005	6.910%	51	0		
1098	Lookout Dam	09/1960	09/2005	6.910%	51	0		
1099	Lookout Dam	09/1961	09/2005	6.910%	52	0		
1100	Lookout Dam	09/1962	09/2005	6.910%	51	0		
1101	Lookout Dam	09/1963	09/2005	6.910%	51	0		
1102	Lookout Dam	09/1964	09/2005	6.910%	51	0		
1103	Lookout Dam	09/1965	09/2005	6.910%	51	0		
1104	Lookout Dam	09/1966	09/2005	6.910%	51	0		
1105	Lookout Dam	09/1967	09/2005	6.910%	52	0		
1106	Lookout Dam	09/1968	09/2005	6.910%	51	0		
1107	Lookout Dam	09/1969	09/2005	6.910%	51	0		
1108	Lookout Dam	09/1970	09/2005	6.910%	51	0		
1109	Lookout Dam	09/1971	09/2005	6.910%	51	0		
1110	Lookout Dam	09/1972	09/2005	6.910%	51	0		
1111	Lookout Dam	09/1973	09/2005	6.910%	52	0		
1112	Lookout Dam	09/1974	09/2005	6.910%	51	0		
1113	Lookout Dam	09/1975	09/2005	6.910%	51	0		
1114	Lookout Dam	09/1976	09/2005	6.910%	51	0		
1115	Lookout Dam	09/1977	09/2005	6.910%	51	0		
1116	Lookout Dam	09/1978	09/2005	6.910%	51	0		
1117	Lookout Dam	09/1979	09/2005	6.910%	52	0		
1118	Lookout Dam	09/1980	09/2005	6.910%	51	0		
1119	Lookout Dam	09/1981	09/2005	6.910%	51	0		
1120	Lookout Dam	09/1982	09/2005	6.910%	51	0		
1121	Lookout Dam	09/1983	09/2005	6.910%	51	0		
1122	Lookout Dam	09/1984	09/2005	10.750%	185	0		
1123	Lookout Dam	09/1985	09/2005	6.910%	52	0		
1124	Lookout Dam	09/1986	09/2005	6.910%	42	0		
1125	Lookout Dam	09/1987	09/2005	6.910%	9	0		
1126	Lookout Dam	09/1987	09/2005	8.875%	12	0		
1127	Lookout Dam	09/1988	09/2005	8.500%	46	0		
1128	Lookout Dam	09/1988	09/2005	8.500%	17	0		
1129	Lookout Dam	09/1989	09/2005	9.250%	23	0		
1130	Lookout Dam	09/1990	09/2005	8.875%	147	0		
1131	Lookout Dam	09/1990	09/2005	8.875%	4	0		
1132	Lookout Dam	09/1991	09/2005	8.750%	6	0		
1133	Lookout Dam	09/1991	09/2005	8.750%	50	0		
1134	Lookout Dam	09/1992	09/2005	8.500%	181	0		
1135	Lookout Dam	09/1992	09/2005	8.500%	4	0		
1136	Lookout Dam	09/1993	09/2005	7.875%	18	0		
1137	Lookout Dam	09/1993	09/2005	7.875%	189	0		
1138	Lookout Dam	09/1994	09/2019	7.125%	73	0		
1139	Lookout Dam	09/1995	09/2045	7.150%	80	39		
1140	Lookout Dam	09/1995	09/2045	7.150%	33	33		

TABLE 11A: HISTORICAL INVESTMENTS
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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
1141	Lookout Dam	09/1995	09/2045	7.860%	9	0		
1142	Lookout Dam	09/1995	09/2045	7.860%	15	0		
1143	Lookout Dam	09/1995	09/2045	7.860%	31	0		
1144	Lookout Dam	09/1995	09/2045	7.860%	157	0		
1145	Lookout Dam	09/2000	09/2050	6.125%	5,098	5,098		
1146	Lookout Dam	09/2003	09/2053	5.125%	135	135		
1147	Lookout Dam	09/2005	09/2055	5.125%	7,355	7,355		
1148	Lookout Dam	09/2007	09/2057	5.000%	572	572		
1149	Lookout Dam	09/2011	09/2061	3.750%	17	17		
1150	Lookout Dam	09/2012	09/2062	3.375%	294	294		
1151	Lost Creek	09/1977	09/2027	7.150%	14,293	14,201		
1152	Lost Creek	09/1978	09/2027	7.150%	58	58		
1153	Lost Creek	09/1979	09/2027	7.150%	60	60		
1154	Lost Creek	09/1980	09/2027	7.150%	60	60		
1155	Lost Creek	09/1981	09/2027	7.150%	60	60		
1156	Lost Creek	09/1982	09/2027	7.150%	60	60		
1157	Lost Creek	09/1983	09/2027	7.150%	60	60		
1158	Lost Creek	09/1984	09/2027	10.750%	243	0		
1159	Lost Creek	09/1985	09/2027	7.150%	12	12		
1160	Lost Creek	09/1986	09/2027	7.150%	6	6		
1161	Lost Creek	09/1986	09/2027	11.375%	5	0		
1162	Lost Creek	09/1987	09/2027	7.150%	4	4		
1163	Lost Creek	09/1987	09/2027	8.875%	3	0		
1164	Lost Creek	09/1988	09/2027	8.500%	7	0		
1165	Lost Creek	09/1989	09/2027	9.250%	9	0		
1166	Lost Creek	09/1990	09/2027	8.875%	1	0		
1167	Lost Creek	09/1991	09/2027	8.750%	31	0		
1168	Lost Creek	09/1992	09/2027	8.500%	1	0		
1169	Lost Creek	09/1992	09/2027	8.500%	1	0		
1170	Lost Creek	09/1993	09/2027	7.875%	1	0		
1171	Lost Creek	09/1993	09/2027	7.875%	14	0		
1172	Lost Creek	09/1995	09/2000	7.330%	4	0		
1173	Lost Creek	09/1995	09/2045	7.150%	94	94		
1174	Lost Creek	09/1996	09/2031	7.150%	31	31		
1175	Lost Creek	09/1996	09/2046	7.150%	24	24		
1176	Lost Creek	09/2001	09/2051	5.875%	147	147		
1177	Lost Creek	09/2011	09/2061	3.750%	7	7		
1178	Lower Granite	09/1975	09/2025	7.160%	119,237	117,645		
1179	Lower Granite	09/1976	09/2025	7.160%	510	510		
1180	Lower Granite	09/1977	09/2025	7.160%	510	510		
1181	Lower Granite	09/1978	09/2025	7.160%	510	510		
1182	Lower Granite	09/1978	09/2028	7.150%	40,611	40,611		
1183	Lower Granite	09/1979	09/2025	7.160%	510	510		
1184	Lower Granite	09/1980	09/2025	7.160%	510	510		
1185	Lower Granite	09/1981	09/2025	7.160%	510	510		
1186	Lower Granite	09/1982	09/2025	7.160%	510	510		
1187	Lower Granite	09/1983	09/2025	7.160%	510	510		
1188	Lower Granite	09/1984	09/2025	10.750%	311	0		
1189	Lower Granite	09/1985	09/2025	7.160%	328	328		
1190	Lower Granite	09/1986	09/2025	7.160%	215	215		
1191	Lower Granite	09/1986	09/2025	11.375%	4	0		
1192	Lower Granite	09/1987	09/2025	7.160%	8	8		
1193	Lower Granite	09/1987	09/2025	8.875%	60	0		
1194	Lower Granite	09/1988	09/2025	8.500%	22	0		
1195	Lower Granite	09/1988	09/2025	8.500%	95	0		
1196	Lower Granite	09/1989	09/2025	9.250%	112	0		
1197	Lower Granite	09/1990	09/2025	8.875%	392	0		
1198	Lower Granite	09/1991	09/2025	8.750%	281	0		
1199	Lower Granite	09/1991	09/2025	8.750%	6	0		
1200	Lower Granite	09/1992	09/2025	8.500%	83	0		
1201	Lower Granite	09/1992	09/2025	8.500%	121	0		
1202	Lower Granite	09/1993	09/2025	7.875%	26	0		
1203	Lower Granite	09/1993	09/2025	7.875%	3,272	0		
1204	Lower Granite	09/1994	09/2019	7.125%	38	0		
1205	Lower Granite	09/1994	09/2029	7.150%	3,543	1,551		
1206	Lower Granite	09/1995	09/2017	7.290%	77	0		
1207	Lower Granite	09/1995	09/2017	7.290%	388	0		
1208	Lower Granite	09/1995	09/2017	7.290%	458	0		
1209	Lower Granite	09/1995	09/2025	7.160%	96	96		
1210	Lower Granite	09/1996	09/2011	7.130%	255	0		
1211	Lower Granite	09/1996	09/2031	7.150%	206	206		
1212	Lower Granite	09/1996	09/2046	7.150%	9	9		
1213	Lower Granite	09/1996	09/2046	7.150%	625	625		
1214	Lower Granite	09/1997	09/2047	7.150%	677	677		
1215	Lower Granite	09/1999	09/2049	5.375%	856	856		
1216	Lower Granite	09/2001	09/2051	5.875%	2,025	2,025		

TABLE 11A: HISTORICAL INVESTMENTS
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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
1217	Lower Granite	09/2002	09/2052	5.500%	1,275	1,275		
1218	Lower Granite	09/2003	09/2053	5.125%	42	42		
1219	Lower Granite	09/2005	09/2055	5.125%	393	393		
1220	Lower Granite	09/2008	09/2058	4.875%	24	24		
1221	Lower Granite	09/2009	09/2059	4.375%	5,669	5,669		
1222	Lower Granite	09/2010	09/2060	4.250%	1,156	1,156		
1223	Lower Granite	09/2011	09/2061	3.750%	8	8		
1224	Lower Monument	09/1969	09/2019	7.270%	26,974	0		
1225	Lower Monument	09/1970	09/2020	7.250%	51,218	0		
1226	Lower Monument	09/1971	09/2020	7.250%	214	0		
1227	Lower Monument	09/1972	09/2020	7.250%	214	0		
1228	Lower Monument	09/1973	09/2020	7.250%	214	0		
1229	Lower Monument	09/1974	09/2020	7.250%	214	0		
1230	Lower Monument	09/1975	09/2020	7.250%	214	0		
1231	Lower Monument	09/1976	09/2020	7.250%	214	0		
1232	Lower Monument	09/1977	09/2020	7.250%	214	0		
1233	Lower Monument	09/1978	09/2020	7.250%	214	0		
1234	Lower Monument	09/1979	09/2020	7.250%	214	0		
1235	Lower Monument	09/1979	09/2029	7.150%	40,669	40,669		
1236	Lower Monument	09/1980	09/2020	7.250%	214	0		
1237	Lower Monument	09/1981	09/2020	7.250%	214	0		
1238	Lower Monument	09/1982	09/2020	7.250%	214	0		
1239	Lower Monument	09/1983	09/2020	7.250%	214	0		
1240	Lower Monument	09/1985	09/2020	7.250%	8	0		
1241	Lower Monument	09/1985	09/2029	7.150%	256	256		
1242	Lower Monument	09/1986	09/2020	7.250%	132	0		
1243	Lower Monument	09/1987	09/2020	7.250%	3	0		
1244	Lower Monument	09/1987	09/2020	8.875%	50	0		
1245	Lower Monument	09/1988	09/2020	8.500%	1	0		
1246	Lower Monument	09/1988	09/2020	8.500%	58	0		
1247	Lower Monument	09/1989	09/2020	9.250%	93	0		
1248	Lower Monument	09/1990	09/2020	8.875%	358	0		
1249	Lower Monument	09/1991	09/2020	8.750%	594	0		
1250	Lower Monument	09/1992	09/2020	8.500%	4,484	0		
1251	Lower Monument	09/1993	09/2020	7.875%	24	0		
1252	Lower Monument	09/1993	09/2020	7.875%	2,175	0		
1253	Lower Monument	09/1994	09/2019	7.125%	107	0		
1254	Lower Monument	09/1994	09/2029	7.125%	2,167	0		
1255	Lower Monument	09/1995	09/2000	7.330%	6	0		
1256	Lower Monument	09/1995	09/2045	7.150%	41	41		
1257	Lower Monument	09/1995	09/2045	7.150%	99	99		
1258	Lower Monument	09/1995	09/2045	7.150%	624	624		
1259	Lower Monument	09/1995	09/2045	7.150%	1,122	1,122		
1260	Lower Monument	09/1996	09/2016	7.290%	668	0		
1261	Lower Monument	09/1996	09/2021	7.230%	37	0		
1262	Lower Monument	09/1996	09/2021	7.230%	51	0		
1263	Lower Monument	09/1996	09/2036	7.150%	264	264		
1264	Lower Monument	09/1996	09/2046	7.150%	10	10		
1265	Lower Monument	09/2001	09/2051	5.875%	3,301	3,301		
1266	Lower Monument	09/2002	09/2052	5.500%	29	29		
1267	Lower Monument	09/2003	09/2053	5.125%	22	22		
1268	Lower Monument	09/2004	09/2054	5.375%	3,423	3,423		
1269	Lower Monument	09/2005	09/2055	5.125%	527	527		
1270	Lower Monument	09/2006	09/2056	4.500%	285	285		
1271	Lower Monument	09/2008	09/2058	4.875%	9	9		
1272	Lower Monument	09/2009	09/2059	4.375%	2,332	2,332		
1273	Lower Monument	09/2012	09/2062	3.375%	89	89		
1274	Lower Snake Fish and Wildlife	09/1983	09/2033	7.150%	30,488	9,472		
1275	Lower Snake Fish and Wildlife	09/1985	09/2035	7.150%	47,921	47,921		
1276	Lower Snake Fish and Wildlife	09/1987	09/2037	7.150%	72,536	72,536		
1277	Lower Snake Fish and Wildlife	09/1988	09/2038	7.150%	805	805		
1278	Lower Snake Fish and Wildlife	09/1990	09/2040	7.150%	1,557	1,557		
1279	Lower Snake Fish and Wildlife	09/1991	09/2041	7.150%	4,411	4,411		
1280	Lower Snake Fish and Wildlife	09/1993	09/2043	7.150%	71,632	71,632		
1281	Lower Snake Fish and Wildlife	09/1994	09/2044	7.150%	4,722	4,722		
1282	Lower Snake Fish and Wildlife	09/1996	09/2046	7.150%	12,085	12,085		
1283	Lower Snake Fish and Wildlife	09/1997	09/2047	7.150%	2,173	2,173		
1284	Lower Snake Fish and Wildlife	09/1999	09/2049	5.375%	7	7		
1285	Lower Snake Fish and Wildlife	09/2000	09/2050	6.125%	1,529	1,529		
1286	Lower Snake Fish and Wildlife	09/2001	09/2051	5.875%	325	325		
1287	Lower Snake Fish and Wildlife	09/2002	09/2052	5.500%	890	890		
1288	Lower Snake Fish and Wildlife	09/2003	09/2053	5.125%	98	98		
1289	Lower Snake Fish and Wildlife	09/2004	09/2054	5.375%	230	230		
1290	Lower Snake Fish and Wildlife	09/2005	09/2055	5.125%	4	4		
1291	Lower Snake Fish and Wildlife	09/2006	09/2056	4.500%	379	379		
1292	Lower Snake Fish and Wildlife	09/2008	09/2058	4.875%	74	74		

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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
1293	Lower Snake Fish and Wildlife	09/2009	09/2059	4.375%	1,540	1,540		
1294	Lower Snake Fish and Wildlife	09/2010	09/2060	4.250%	6	6		
1295	Lower Snake Fish and Wildlife	09/2011	09/2061	3.750%	122	122		
1296	McNary	09/1954	09/2004	6.880%	80,256	0		
1297	McNary	09/1955	09/2005	6.910%	53,493	0		
1298	McNary	09/1956	09/2006	6.950%	38,748	0		
1299	McNary	09/1957	09/2007	6.980%	24,985	0		
1300	McNary	09/1958	09/2007	6.980%	468	0		
1301	McNary	09/1959	09/2007	6.980%	468	0		
1302	McNary	09/1960	09/2007	6.980%	468	0		
1303	McNary	09/1961	09/2007	6.980%	468	0		
1304	McNary	09/1962	09/2007	6.980%	467	0		
1305	McNary	09/1963	09/2007	6.980%	468	0		
1306	McNary	09/1964	09/2007	6.980%	468	0		
1307	McNary	09/1965	09/2007	6.980%	468	0		
1308	McNary	09/1966	09/2007	6.980%	468	0		
1309	McNary	09/1967	09/2007	6.980%	467	0		
1310	McNary	09/1968	09/2007	6.980%	468	0		
1311	McNary	09/1969	09/2007	6.980%	468	0		
1312	McNary	09/1970	09/2007	6.980%	468	0		
1313	McNary	09/1971	09/2007	6.980%	468	0		
1314	McNary	09/1972	09/2007	6.980%	468	0		
1315	McNary	09/1973	09/2007	6.980%	467	0		
1316	McNary	09/1974	09/2007	6.980%	468	0		
1317	McNary	09/1975	09/2007	6.980%	468	0		
1318	McNary	09/1976	09/2007	6.980%	468	0		
1319	McNary	09/1977	09/2007	6.980%	467	0		
1320	McNary	09/1978	09/2007	6.980%	468	0		
1321	McNary	09/1979	09/2007	6.980%	468	0		
1322	McNary	09/1980	09/2007	6.980%	468	0		
1323	McNary	09/1981	09/2007	6.980%	468	0		
1324	McNary	09/1982	09/2007	6.980%	467	0		
1325	McNary	09/1983	09/2007	6.980%	468	0		
1326	McNary	09/1985	09/2007	6.980%	557	0		
1327	McNary	09/1986	09/2007	6.980%	454	0		
1328	McNary	09/1987	09/2007	6.980%	24	0		
1329	McNary	09/1995	09/2010	7.090%	509	0		
1330	McNary	09/1995	09/2045	7.150%	16	16		
1331	McNary	09/1996	09/2006	6.950%	778	0		
1332	McNary	09/1996	09/2011	7.130%	3	0		
1333	McNary	09/1996	09/2026	7.150%	74	74		
1334	McNary	09/1996	09/2026	7.150%	277	277		
1335	McNary	09/1996	09/2046	7.150%	619	619		
1336	McNary	09/1997	09/2032	7.150%	30	30		
1337	McNary	09/2001	09/2051	5.875%	1,046	1,046		
1338	McNary	09/2003	09/2053	5.125%	97	97		
1339	McNary	09/2004	09/2054	5.375%	6,138	6,138		
1340	McNary	09/2005	09/2055	5.125%	550	550		
1341	McNary	09/2006	09/2056	4.500%	4,080	4,080		
1342	McNary	09/2008	09/2058	4.875%	215	215		
1343	McNary	09/2011	09/2061	3.750%	565	565		
1344	McNary	09/2012	09/2062	3.375%	11	11		
1345	McNary	09/2013	09/2063	2.875%	1,000	1,000		
1346	Minidoka/Palisades	09/1909	09/1959	3.000%	854	0		
1347	Minidoka/Palisades	09/1909	09/1959	3.000%	226	0		
1348	Minidoka/Palisades	09/1910	09/1960	3.000%	1,709	0		
1349	Minidoka/Palisades	09/1910	09/1960	3.000%	451	0		
1350	Minidoka/Palisades	09/1911	09/1961	3.000%	1,709	0		
1351	Minidoka/Palisades	09/1911	09/1961	3.000%	451	0		
1352	Minidoka/Palisades	09/1927	09/1977	3.000%	854	0		
1353	Minidoka/Palisades	09/1927	09/1977	3.000%	226	0		
1354	Minidoka/Palisades	09/1942	09/1992	3.000%	854	0		
1355	Minidoka/Palisades	09/1942	09/1992	3.000%	226	0		
1356	Minidoka/Palisades	09/1957	09/2007	3.000%	2,561	0		
1357	Minidoka/Palisades	09/1957	09/2007	3.000%	677	0		
1358	Minidoka/Palisades	09/1958	09/2008	3.000%	854	0		
1359	Minidoka/Palisades	09/1958	09/2008	3.000%	226	0		
1360	Minidoka/Palisades	09/1959	09/2008	3.000%	108	0		
1361	Minidoka/Palisades	09/1959	09/2008	3.000%	28	0		
1362	Minidoka/Palisades	09/1960	09/2008	3.000%	108	0		
1363	Minidoka/Palisades	09/1960	09/2008	3.000%	29	0		
1364	Minidoka/Palisades	09/1961	09/2008	3.000%	108	0		
1365	Minidoka/Palisades	09/1961	09/2008	3.000%	29	0		
1366	Minidoka/Palisades	09/1962	09/2008	3.000%	108	0		
1367	Minidoka/Palisades	09/1962	09/2008	3.000%	28	0		
1368	Minidoka/Palisades	09/1963	09/2008	3.000%	108	0		

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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
1369	Minidoka/Palisades	09/1963	09/2008	3.000%	29	0		
1370	Minidoka/Palisades	09/1964	09/2008	3.000%	108	0		
1371	Minidoka/Palisades	09/1964	09/2008	3.000%	28	0		
1372	Minidoka/Palisades	09/1965	09/2008	3.000%	108	0		
1373	Minidoka/Palisades	09/1965	09/2008	3.000%	29	0		
1374	Minidoka/Palisades	09/1966	09/2008	3.000%	108	0		
1375	Minidoka/Palisades	09/1966	09/2008	3.000%	29	0		
1376	Minidoka/Palisades	09/1967	09/2008	3.000%	108	0		
1377	Minidoka/Palisades	09/1967	09/2008	3.000%	28	0		
1378	Minidoka/Palisades	09/1968	09/2008	3.000%	108	0		
1379	Minidoka/Palisades	09/1968	09/2008	3.000%	29	0		
1380	Minidoka/Palisades	09/1969	09/2008	3.000%	3	0		
1381	Minidoka/Palisades	09/1969	09/2008	3.000%	28	0		
1382	Minidoka/Palisades	09/1970	09/2008	3.000%	108	0		
1383	Minidoka/Palisades	09/1970	09/2008	3.000%	29	0		
1384	Minidoka/Palisades	09/1971	09/2008	3.000%	108	0		
1385	Minidoka/Palisades	09/1971	09/2008	3.000%	29	0		
1386	Minidoka/Palisades	09/1972	09/2008	3.000%	108	0		
1387	Minidoka/Palisades	09/1972	09/2008	3.000%	28	0		
1388	Minidoka/Palisades	09/1973	09/2008	3.000%	108	0		
1389	Minidoka/Palisades	09/1973	09/2008	3.000%	29	0		
1390	Minidoka/Palisades	09/1974	09/2008	3.000%	108	0		
1391	Minidoka/Palisades	09/1974	09/2008	3.000%	28	0		
1392	Minidoka/Palisades	09/1975	09/2008	3.000%	108	0		
1393	Minidoka/Palisades	09/1975	09/2008	3.000%	29	0		
1394	Minidoka/Palisades	09/1976	09/2008	3.000%	108	0		
1395	Minidoka/Palisades	09/1976	09/2008	3.000%	29	0		
1396	Minidoka/Palisades	09/1977	09/2008	7.020%	83	0		
1397	Minidoka/Palisades	09/1977	09/2008	7.020%	28	0		
1398	Minidoka/Palisades	09/1978	09/2008	7.020%	75	0		
1399	Minidoka/Palisades	09/1978	09/2008	7.020%	20	0		
1400	Minidoka/Palisades	09/1979	09/2008	7.020%	75	0		
1401	Minidoka/Palisades	09/1979	09/2008	7.020%	19	0		
1402	Minidoka/Palisades	09/1980	09/2008	7.020%	75	0		
1403	Minidoka/Palisades	09/1980	09/2008	7.020%	20	0		
1404	Minidoka/Palisades	09/1981	09/2008	7.020%	75	0		
1405	Minidoka/Palisades	09/1981	09/2008	7.020%	20	0		
1406	Minidoka/Palisades	09/1982	09/2008	7.020%	75	0		
1407	Minidoka/Palisades	09/1982	09/2008	7.020%	19	0		
1408	Minidoka/Palisades	09/1983	09/2008	7.020%	65	0		
1409	Minidoka/Palisades	09/1983	09/2008	7.020%	20	0		
1410	Minidoka/Palisades	09/1984	09/2008	10.075%	44	0		
1411	Minidoka/Palisades	09/1984	09/2008	10.075%	11	0		
1412	Minidoka/Palisades	09/1985	09/2008	7.020%	21	0		
1413	Minidoka/Palisades	09/1986	09/2008	7.020%	21	0		
1414	Minidoka/Palisades	09/1986	09/2008	11.375%	48	0		
1415	Minidoka/Palisades	09/1987	09/2008	7.020%	16	0		
1416	Minidoka/Palisades	09/1988	09/2008	8.500%	31	0		
1417	Minidoka/Palisades	09/1989	09/2008	9.250%	20	0		
1418	Minidoka/Palisades	09/1990	09/2008	8.875%	33	0		
1419	Minidoka/Palisades	09/1991	09/2008	8.750%	62	0		
1420	Minidoka/Palisades	09/1991	09/2008	8.750%	11	0		
1421	Minidoka/Palisades	09/1991	09/2008	8.750%	32	0		
1422	Minidoka/Palisades	09/1992	09/2008	8.500%	6	0		
1423	Minidoka/Palisades	09/1994	09/2029	7.125%	351	0		
1424	Minidoka/Palisades	09/1995	09/2000	7.330%	6	0		
1425	Minidoka/Palisades	09/1995	09/2010	7.890%	40	0		
1426	Minidoka/Palisades	09/1996	09/2011	7.130%	54	0		
1427	Minidoka/Palisades	09/1997	09/2007	6.950%	66	0		
1428	Minidoka/Palisades	09/1997	09/2047	7.150%	50,911	50,911		
1429	Minidoka/Palisades	09/2001	09/2051	5.875%	42	42		
1430	Minidoka/Palisades	09/2012	09/2062	3.375%	7	7		
1431	RRP - Green Springs	09/2001	09/2051	5.875%	11,145	11,145		
1432	RRP - Green Springs	09/2012	09/2062	3.375%	2	2		
1433	RRP - Green Springs	09/2013	09/2063	2.875%	1	1		
1434	The Dalles	09/1957	09/2007	2.500%	15,908	0		
1435	The Dalles	09/1958	09/2008	7.020%	45,837	0		
1436	The Dalles	09/1959	09/2009	7.060%	40,415	0		
1437	The Dalles	09/1960	09/2010	7.090%	39,179	0		
1438	The Dalles	09/1961	09/2011	7.130%	9,492	0		
1439	The Dalles	09/1962	09/2011	7.130%	56	0		
1440	The Dalles	09/1963	09/2011	7.130%	57	0		
1441	The Dalles	09/1964	09/2011	7.130%	57	0		
1442	The Dalles	09/1965	09/2011	7.130%	56	0		
1443	The Dalles	09/1966	09/2011	7.130%	57	0		
1444	The Dalles	09/1967	09/2011	7.130%	57	0		

TABLE 11A: HISTORICAL INVESTMENTS
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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
1445	The Dalles	09/1968	09/2011	7.130%	56	0		
1446	The Dalles	09/1969	09/2011	7.130%	57	0		
1447	The Dalles	09/1970	09/2011	7.130%	57	0		
1448	The Dalles	09/1971	09/2011	7.130%	56	0		
1449	The Dalles	09/1972	09/2011	7.130%	57	0		
1450	The Dalles	09/1973	09/2011	7.130%	57	0		
1451	The Dalles	09/1973	09/2023	7.190%	21,983	0		
1452	The Dalles	09/1974	09/2011	7.130%	56	0		
1453	The Dalles	09/1974	09/2024	7.170%	7,268	7,240		
1454	The Dalles	09/1975	09/2011	7.130%	57	0		
1455	The Dalles	09/1976	09/2011	7.130%	57	0		
1456	The Dalles	09/1977	09/2011	7.130%	56	0		
1457	The Dalles	09/1978	09/2011	7.130%	57	0		
1458	The Dalles	09/1979	09/2011	7.130%	57	0		
1459	The Dalles	09/1980	09/2011	7.130%	56	0		
1460	The Dalles	09/1981	09/2011	7.130%	57	0		
1461	The Dalles	09/1982	09/2011	7.130%	57	0		
1462	The Dalles	09/1983	09/2011	7.130%	56	0		
1463	The Dalles	09/1984	09/2011	10.750%	961	0		
1464	The Dalles	09/1985	09/2011	7.130%	95	0		
1465	The Dalles	09/1985	09/2011	12.375%	280	0		
1466	The Dalles	09/1986	09/2011	7.130%	95	0		
1467	The Dalles	09/1986	09/2011	11.375%	4	0		
1468	The Dalles	09/1987	09/2011	7.130%	1,417	0		
1469	The Dalles	09/1987	09/2011	8.875%	81	0		
1470	The Dalles	09/1988	09/2011	8.500%	685	0		
1471	The Dalles	09/1988	09/2011	8.500%	1	0		
1472	The Dalles	09/1989	09/2011	9.250%	898	0		
1473	The Dalles	09/1990	09/2011	8.875%	319	0		
1474	The Dalles	09/1990	09/2011	8.875%	745	0		
1475	The Dalles	09/1991	09/2011	8.750%	89	0		
1476	The Dalles	09/1991	09/2011	8.750%	2,452	0		
1477	The Dalles	09/1992	09/2011	8.500%	57	0		
1478	The Dalles	09/1992	09/2011	8.500%	130	0		
1479	The Dalles	09/1993	09/2011	7.875%	2,028	0		
1480	The Dalles	09/1993	09/2011	7.875%	2,929	0		
1481	The Dalles	09/1994	09/2029	7.125%	1,425	0		
1482	The Dalles	09/1996	09/2008	7.020%	196	0		
1483	The Dalles	09/1996	09/2011	7.130%	457	0		
1484	The Dalles	09/1996	09/2046	7.150%	1,991	1,991		
1485	The Dalles	09/2000	09/2050	6.125%	2,588	2,588		
1486	The Dalles	09/2002	09/2052	5.500%	1,226	1,226		
1487	The Dalles	09/2004	09/2054	5.375%	182	182		
1488	The Dalles	09/2005	09/2055	5.125%	36,019	36,019		
1489	The Dalles	09/2006	09/2056	4.500%	2,030	2,030		
1490	The Dalles	09/2007	09/2057	5.000%	140	140		
1491	The Dalles	09/2008	09/2058	4.875%	1,651	1,651		
1492	Yakima Chandler/Kenniwick	09/1956	09/2022	7.210%	1,068	0		
1493	Yakima Chandler/Kenniwick	09/1956	09/2022	7.210%	481	0		
1494	Yakima Chandler/Kenniwick	09/1959	09/2022	7.210%	1	0		
1495	Yakima Chandler/Kenniwick	09/1960	09/2022	7.210%	1	0		
1496	Yakima Chandler/Kenniwick	09/1961	09/2022	7.210%	1	0		
1497	Yakima Chandler/Kenniwick	09/1984	09/2022	10.750%	35	0		
1498	Yakima Chandler/Kenniwick	09/1984	09/2022	10.750%	10	0		
1499	Yakima Chandler/Kenniwick	09/1985	09/2022	12.375%	357	0		
1500	Yakima Chandler/Kenniwick	09/1986	09/2022	7.210%	439	0		
1501	Yakima Chandler/Kenniwick	09/1986	09/2022	11.375%	7	0		
1502	Yakima Chandler/Kenniwick	09/1987	09/2022	8.875%	126	0		
1503	Yakima Chandler/Kenniwick	09/1989	09/2022	9.250%	18	0		
1504	Yakima Chandler/Kenniwick	09/1990	09/2022	8.875%	40	0		
1505	Yakima Chandler/Kenniwick	09/1991	09/2022	8.750%	109	0		
1506	Yakima Chandler/Kenniwick	09/2005	09/2055	5.125%	833	833		
1507	Yakima Chandler/Kenniwick	09/2009	09/2059	4.375%	15	15		
1508	Yakima Roza	09/1958	09/2008	7.020%	1,194	0		
1509	Yakima Roza	09/1958	09/2008	7.020%	383	0		
1510	Yakima Roza	09/1984	09/2008	10.750%	5	0		
1511	Yakima Roza	09/1984	09/2008	10.750%	17	0		
1512	Yakima Roza	09/1985	09/2008	7.020%	69	0		
1513	Yakima Roza	09/1985	09/2008	12.375%	5	0		
1514	Yakima Roza	09/1986	09/2008	7.020%	6	0		
1515	Yakima Roza	09/1987	09/2008	7.020%	2	0		
1516	Yakima Roza	09/1987	09/2008	8.875%	9	0		
1517	Yakima Roza	09/2001	09/2051	5.875%	15	14		
1518	Bureau Direct	05/1995	05/2015	7.500%	35,000	0		
1519	Bureau Direct	05/1997	05/2000	6.500%	50,000	0		
1520	Bureau Direct	04/1998	05/2008	6.000%	25,000	0		

TABLE 11A: HISTORICAL INVESTMENTS
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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
1521	Bureau Direct	09/1999	09/2004	6.400%	20,000	0		
1522	Bureau Direct	04/2000	04/2003	6.850%	40,000	0		
1523	Bureau Direct	09/2000	09/2005	6.700%	20,000	0		
1524	Bureau Direct	06/2001	06/2004	4.750%	50,000	0		
1525	Bureau Direct	03/2002	03/2005	4.600%	30,000	0		
1526	Bureau Direct	09/2002	09/2006	3.050%	20,000	0		
1527	Bureau Direct	12/2002	12/2006	3.050%	40,000	0		
1528	Bureau Direct	04/2003	04/2006	2.400%	40,000	0		
1529	Bureau Direct	04/2003	04/2006	2.400%	25,000	0		
1530	Bureau Direct	07/2003	07/2006	2.300%	30,000	0		
1531	Bureau Direct	09/2003	09/2006	2.500%	25,000	0		
1532	Bureau Direct	01/2004	01/2007	2.500%	25,000	0		
1533	Bureau Direct	04/2004	04/2007	2.950%	35,000	0		
1534	Bureau Direct	07/2004	07/2007	3.450%	25,000	0		
1535	Bureau Direct	09/2004	09/2007	3.100%	30,000	0		
1536	Bureau Direct	11/2004	11/2007	3.500%	20,000	0		
1537	Bureau Direct	01/2005	01/2008	3.600%	20,000	0		
1538	Bureau Direct	06/2005	06/2008	3.950%	30,000	0		
1539	Bureau Direct	09/2005	09/2008	4.250%	25,000	0		
1540	Bureau Direct	03/2006	03/2009	5.050%	25,000	0		
1541	Bureau Direct	07/2006	07/2009	5.350%	45,000	0		
1542	Bureau Direct	09/2006	09/2009	4.950%	15,000	0		
1543	Bureau Direct	01/2007	01/2010	5.100%	35,000	0		
1544	Bureau Direct	03/2007	03/2010	4.800%	30,000	0		
1545	Bureau Direct	06/2007	06/2010	5.350%	30,000	0		
1546	Bureau Direct	01/2008	01/2011	2.850%	35,000	0		
1547	Bureau Direct	01/2008	01/2011	2.850%	20,000	0		
1548	Bureau Direct	05/2008	05/2011	3.358%	35,000	0		
1549	Bureau Direct	05/2008	05/2011	3.358%	25,000	0		
1550	Bureau Direct	06/2008	06/2012	3.974%	30,000	0		
1551	Bureau Direct	07/2008	07/2012	3.913%	35,000	0		
1552	Bureau Direct	09/2008	09/2012	3.444%	35,000	0		
1553	Bureau Direct	01/2009	01/2021	3.999%	25,000	25,000		
1554	Bureau Direct	04/2009	04/2023	4.391%	25,000	25,000		
1555	Bureau Direct	06/2009	06/2039	5.192%	25,000	25,000		
1556	Bureau Direct	09/2009	09/2019	3.699%	25,000	25,000		
1557	Bureau Direct	10/2009	10/2018	3.719%	24,000	24,000		
1558	Bureau Direct	10/2009	10/2019	3.842%	20,000	20,000		
1559	Bureau Direct	11/2009	11/2019	3.637%	7,000	7,000		
1560	Bureau Direct	12/2009	12/2019	4.194%	13,000	13,000		
1561	Bureau Direct	01/2010	01/2019	3.714%	10,000	10,000		
1562	Bureau Direct	02/2010	02/2019	0.165%	10,000	0		
1563	Bureau Direct	03/2010	03/2020	4.083%	30,000	30,000		
1564	Bureau Direct	04/2010	04/2020	3.973%	18,000	18,000		
1565	Bureau Direct	05/2010	05/2020	3.574%	15,000	15,000		
1566	Bureau Direct	06/2010	06/2020	3.243%	10,000	10,000		
1567	Bureau Direct	06/2010	06/2020	3.243%	30,000	30,000		
1568	Bureau Direct	07/2010	07/2020	3.118%	17,000	17,000		
1569	Bureau Direct	08/2010	08/2020	0.165%	5,000	0		
1570	Bureau Direct	09/2010	09/2021	2.883%	22,000	22,000		
1571	Bureau Direct	10/2010	10/2034	4.211%	20,000	20,000		
1572	Bureau Direct	01/2011	09/2011	0.244%	20,000	0		
1573	Bureau Direct	01/2011	09/2011	0.244%	35,000	0		
1574	Bureau Direct	01/2011	01/2039	5.040%	35,000	35,000		
1575	Bureau Direct	02/2011	02/2040	4.995%	50,000	50,000		
1576	Bureau Direct	05/2011	09/2011	0.076%	35,000	0		
1577	Bureau Direct	05/2011	09/2011	0.076%	25,000	0		
1578	Bureau Direct	06/2011	06/2036	4.629%	30,000	30,000		
1579	Bureau Direct	06/2011	06/2038	4.700%	30,000	30,000		
1580	Bureau Direct	08/2011	08/2037	4.208%	30,000	30,000		
1581	Bureau Direct	09/2011	07/2041	3.825%	30,000	0		
1582	Bureau Direct	12/2011	12/2038	3.880%	35,000	0		
1583	Bureau Direct	01/2012	01/2038	3.893%	15,000	0		
1584	Bureau Direct	02/2012	02/2034	1.757%	55,000	55,000		
1585	Bureau Direct	06/2012	06/2041	3.666%	50,000	0		
1586	Bureau Direct	06/2012	09/2012	0.119%	30,000	0		
1587	Bureau Direct	08/2012	07/2042	3.834%	44,000	0		
1588	Bureau Direct	09/2012	09/2013	0.174%	35,000	0		
1589	Bureau Direct	09/2012	09/2042	3.668%	25,000	0		
1590	Bureau Direct	01/2013	01/2043	6.194%	70,000	0		
1591	Bureau Direct	02/2013	02/2043	5.993%	18,000	0		
1592	Bureau Direct	03/2013	03/2043	5.958%	15,000	0		
1593	Bureau Direct	04/2013	04/2043	5.633%	15,000	0		
1594	Bureau Direct	05/2013	05/2043	6.192%	18,000	0		
1595	Bureau Direct	06/2013	01/2039	1.757%	35,000	35,000		
1596	Bureau Direct	06/2013	06/2043	6.938%	21,000	0		

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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
1597	Bureau Direct	07/2013	07/2034	7.164%	25,000	0		
1598	Bureau Direct	08/2013	08/2034	7.413%	15,000	0		
1599	Bureau Direct	11/2013	09/2014	0.140%	77,000	77,000		
1600	Bureau Direct	11/2013	09/2020	2.473%	51,000	51,000		
1601	Bureau Direct	11/2013	09/2021	2.812%	50,000	50,000		
1602	Bureau Direct	11/2013	09/2022	3.125%	19,000	19,000		
1603	Bureau Direct	01/2014	12/2018	1.943%	43,000	43,000		
1604	Bureau Direct	01/2014	12/2018	1.943%	38,000	38,000		
1605	Bureau Direct	01/2014	12/2018	1.943%	21,000	21,000		
1606	Bureau Direct	01/2014	12/2018	1.943%	26,000	26,000		
1607	Bureau Direct	01/2014	12/2018	1.943%	14,000	14,000		
1608	Conservation	09/1983	09/2003	12.200%	140,000	0		
1609	Conservation	09/1984	09/2004	13.050%	150,000	0		
1610	Conservation	09/1985	09/1990	10.150%	50,000	0		
1611	Conservation	03/1986	03/1991	7.800%	50,000	0		
1612	Conservation	03/1986	03/1996	8.150%	50,000	0		
1613	Conservation	04/1987	04/2007	9.300%	75,000	0		
1614	Conservation	06/1987	06/1992	8.350%	50,000	0		
1615	Conservation	04/1988	04/2008	9.900%	90,000	0		
1616	Conservation	07/1989	07/2009	8.550%	40,000	0		
1617	Conservation	09/1989	09/1995	8.600%	66,000	0		
1618	Conservation	09/1989	09/2002	8.650%	66,000	0		
1619	Conservation	07/1992	07/1997	5.800%	80,200	0		
1620	Conservation	07/1992	07/2007	7.140%	100,000	0		
1621	Conservation	10/1992	10/2012	8.050%	50,000	0		
1622	Conservation	02/1993	02/2013	7.400%	50,000	0		
1623	Conservation	08/1993	08/2013	6.750%	40,000	0		
1624	Conservation	01/1994	01/2014	6.750%	50,000	0		
1625	Conservation	05/1994	05/1998	7.100%	50,000	0		
1626	Conservation	05/1995	05/2015	7.500%	85,000	0		
1627	Conservation	01/1996	01/2011	6.700%	30,000	0		
1628	Conservation	11/1996	11/2016	7.200%	40,000	0		
1629	Conservation	05/1998	05/2009	6.000%	37,700	0		
1630	Conservation	09/1998	09/2008	5.300%	104,300	0		
1631	Conservation	09/1998	09/2013	5.600%	52,800	0		
1632	Conservation	07/2000	07/2003	6.950%	32,000	0		
1633	Conservation	06/2002	06/2005	3.750%	40,000	0		
1634	Conservation	01/2004	01/2008	2.950%	30,000	0		
1635	Conservation	03/2006	03/2009	5.050%	20,000	0		
1636	Conservation	06/2007	06/2010	5.350%	20,000	0		
1637	Conservation	09/2008	09/2013	3.701%	10,000	0		
1638	Conservation	09/2009	09/2014	2.746%	15,000	15,000		
1639	Conservation	01/2010	01/2015	2.609%	15,000	15,000		
1640	Conservation	04/2010	04/2015	2.677%	20,000	20,000		
1641	Conservation	08/2010	08/2015	1.619%	15,000	15,000		
1642	Conservation	09/2010	09/2015	1.534%	10,000	10,000		
1643	Conservation	01/2011	01/2023	4.046%	40,000	40,000		
1644	Conservation	04/2011	04/2023	3.932%	35,000	35,000		
1645	Conservation	08/2011	08/2023	3.206%	40,000	40,000		
1646	Conservation	10/2011	08/2012	0.204%	55,000	0		
1647	Conservation	12/2011	12/2037	0.189%	55,000	0		
1648	Conservation	05/2012	09/2015	0.676%	30,000	30,000		
1649	Conservation	06/2012	09/2015	0.671%	15,000	15,000		
1650	Conservation	08/2012	08/2024	2.788%	15,000	0		
1651	Conservation	11/2012	11/2016	0.630%	20,000	20,000		
1652	Conservation	01/2013	01/2018	1.107%	9,000	9,000		
1653	Conservation	03/2013	03/2025	4.992%	10,000	0		
1654	Conservation	04/2013	04/2025	4.553%	12,000	0		
1655	Conservation	08/2013	08/2025	6.973%	5,000	0		
1656	Conservation	10/2013	10/2025	3.568%	34,000	34,000		
1657	Conservation	11/2013	09/2023	3.375%	27,000	27,000		
1658	Conservation	12/2013	12/2021	3.142%	6,000	6,000		
1659	Conservation	12/2013	12/2023	1.757%	55,000	55,000		
1660	Conservation	01/2014	01/2026	3.621%	5,000	5,000		
1661	Conservation	04/2014	06/2025	1.757%	30,000	30,000		
1662	Conservation	05/2014	04/2024	1.757%	15,000	15,000		
1663	Conservation	05/2014	04/2025	1.757%	3,000	3,000		
1664	Conservation	06/2014	10/2024	1.757%	5,000	5,000		
1665	Construction (AS)	10/1992	10/2032	8.350%	38	0		
1666	Construction (AS)	07/1995	07/2025	7.700%	67	0		
1667	Construction (AS)	01/1996	01/2003	5.900%	5,622	0		
1668	Construction (AS)	01/1997	01/2004	6.800%	7,400	0		
1669	Construction (AS)	08/1998	08/2008	5.750%	3,181	0		
1670	Construction (AS)	02/1999	02/2014	5.900%	950	0		
1671	Construction (AS)	07/2000	07/2004	7.000%	10,948	0		
1672	Construction (AS)	01/2001	01/2010	6.050%	68	0		

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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
1673	Construction (AS)	03/2002	03/2005	4.600%	1,990	0		
1674	Construction (AS)	10/2002	10/2005	3.000%	45,062	0		
1675	Construction (AS)	01/2004	01/2007	2.500%	13,357	0		
1676	Construction (AS)	11/2004	11/2008	3.750%	7,990	0		
1677	Construction (AS)	09/2006	09/2010	4.950%	9,681	0		
1678	Construction (AS)	01/2008	01/2012	3.200%	10,000	0		
1679	Construction (AS)	09/2008	09/2012	3.444%	10,000	0		
1680	Construction (AS)	09/2009	09/2014	2.746%	14,000	14,000		
1681	Construction (AS)	02/2010	02/2015	0.165%	7,500	0		
1682	Construction (AS)	08/2010	08/2015	1.619%	5,000	5,000		
1683	Construction (AS)	06/2011	06/2016	1.957%	7,000	7,000		
1684	Construction (AS)	08/2011	08/2016	1.423%	3,500	3,500		
1685	Construction (AS)	01/2012	09/2012	0.146%	10,000	0		
1686	Construction (AS)	06/2012	09/2017	0.671%	7,700	7,700		
1687	Construction (AS)	11/2012	11/2018	1.109%	5,250	5,250		
1688	Construction (AS)	04/2013	04/2017	0.622%	2,450	2,450		
1689	Construction (AS)	06/2013	06/2017	1.271%	3,000	3,000		
1690	Construction (AS)	08/2013	08/2017	1.494%	2,000	2,000		
1691	Construction (AS)	10/2013	10/2019	2.039%	4,200	4,200		
1692	Construction (AS)	10/2013	10/2019	2.039%	5,000	5,000		
1693	Construction (AS)	01/2014	01/2020	2.183%	1,750	1,750		
1694	Construction (AS)	01/2014	01/2020	2.183%	2,000	2,000		
1695	Construction (AS)	02/2014	09/2014	0.117%	950	950		
1696	Construction (AS)	04/2014	03/2020	1.757%	1,400	1,400		
1697	Construction (AS)	04/2014	03/2020	1.757%	2,000	2,000		
1698	Construction (AS)	05/2014	04/2020	1.757%	700	700		
1699	Fish and Wildlife	05/1989	05/1999	8.950%	25,000	0		
1700	Fish and Wildlife	05/1991	05/1996	7.950%	50,000	0		
1701	Fish and Wildlife	02/1993	02/2008	6.950%	20,000	0		
1702	Fish and Wildlife	09/1994	09/1999	7.650%	20,000	0		
1703	Fish and Wildlife	08/1995	08/2010	7.200%	35,000	0		
1704	Fish and Wildlife	01/1998	01/2013	6.100%	60,000	0		
1705	Fish and Wildlife	09/1999	09/2003	6.300%	20,000	0		
1706	Fish and Wildlife	01/2001	01/2005	5.650%	25,000	0		
1707	Fish and Wildlife	09/2003	09/2007	3.100%	20,000	0		
1708	Fish and Wildlife	09/2005	09/2008	4.250%	20,000	0		
1709	Fish and Wildlife	09/2006	09/2010	4.950%	20,000	0		
1710	Fish and Wildlife	06/2007	06/2010	5.350%	30,000	0		
1711	Fish and Wildlife	09/2007	09/2011	4.700%	20,000	0		
1712	Fish and Wildlife	09/2008	09/2012	3.444%	20,000	0		
1713	Fish and Wildlife	06/2009	06/2024	4.556%	20,000	20,000		
1714	Fish and Wildlife	12/2009	12/2018	4.069%	26,000	26,000		
1715	Fish and Wildlife	08/2010	08/2019	2.646%	20,000	20,000		
1716	Fish and Wildlife	01/2011	01/2026	4.440%	50,000	50,000		
1717	Fish and Wildlife	02/2011	02/2026	4.398%	15,000	15,000		
1718	Fish and Wildlife	06/2011	06/2026	4.205%	15,000	15,000		
1719	Fish and Wildlife	01/2012	01/2038	3.893%	30,000	0		
1720	Fish and Wildlife	05/2012	05/2029	0.140%	5,000	0		
1721	Fish and Wildlife	06/2012	06/2041	3.666%	12,000	0		
1722	Fish and Wildlife	08/2012	08/2027	3.090%	11,000	0		
1723	Fish and Wildlife	11/2012	11/2027	5.046%	25,000	0		
1724	Fish and Wildlife	01/2013	09/2013	0.149%	60,000	0		
1725	Fish and Wildlife	03/2013	03/2028	5.445%	10,000	0		
1726	Fish and Wildlife	04/2013	04/2028	5.042%	6,000	0		
1727	Fish and Wildlife	06/2013	06/2028	6.607%	8,000	0		
1728	Fish and Wildlife	08/2013	08/2028	7.249%	5,000	0		
1729	Fish and Wildlife	10/2013	12/2026	3.717%	28,000	28,000		
1730	Fish and Wildlife	10/2013	05/2027	3.762%	11,000	11,000		
1731	Fish and Wildlife	10/2013	10/2028	3.880%	22,000	22,000		
1732	Fish and Wildlife	11/2013	09/2022	3.125%	31,000	31,000		
1733	Fish and Wildlife	11/2013	09/2023	3.375%	23,000	23,000		
1734	Fish and Wildlife	11/2013	05/2027	1.757%	5,000	5,000		
1735	Fish and Wildlife	01/2014	01/2029	3.896%	7,000	7,000		
1736	Fish and Wildlife	04/2014	02/2029	1.757%	7,000	7,000		
1737	Fish and Wildlife	05/2014	04/2027	1.757%	11,000	11,000		
1738	**Totals:**				**$11,513,317**	**$5,408,641**		

TABLE 11B:
PROJECTED INVESTMENTS
October 1, 2013 - September 30, 2016 Cost Evaluation period
($000s) (FY 2016)

	A	B	C	D	E	F	G
	Project	In Service Date	Due Date	Interest Rate	Current Principal	Roll Maturity Date	Rollover Rate
1	Bureau Direct	08/2015	08/2035	4.130%	21,000		
2	Bureau Direct	09/2015	09/2035	4.130%	21,000		
3	Bureau Direct	10/2015	10/2035	4.570%	15,000		
4	Bureau Direct	11/2015	11/2035	4.570%	19,000		
5	Bureau Direct	12/2015	12/2035	4.570%	18,000		
6	Bureau Direct	01/2016	01/2036	4.570%	18,000		
7	Bureau Direct	02/2016	02/2036	4.570%	16,000		
8	Bureau Direct	03/2016	03/2036	4.570%	16,000		
9	Bureau Direct	04/2016	04/2036	4.570%	22,000		
10	Bureau Direct	05/2016	05/2036	4.570%	19,000		
11	Bureau Direct	06/2016	06/2036	4.570%	24,000		
12	Bureau Direct	07/2016	07/2036	4.570%	23,000		
13	Bureau Direct	08/2016	08/2036	4.570%	23,000		
14	Bureau Direct	09/2016	09/2036	4.570%	27,000		
15	Columbia River Fish Mitigation	09/2014	09/2064	3.880%	78,577		
16	Columbia River Fish Mitigation	09/2015	09/2065	4.110%	137,096		
17	Columbia River Fish Mitigation	09/2016	09/2066	4.490%	95,220		
18	Conservation	07/2014	07/2025	1.757%	12,000		
19	Conservation	10/2014	10/2026	1.757%	4,000		
20	Conservation	11/2014	11/2026	1.757%	5,000		
21	Conservation	12/2014	12/2026	1.757%	9,000		
22	Conservation	01/2015	01/2027	1.757%	5,000		
23	Conservation	02/2015	02/2027	1.757%	6,000		
24	Conservation	03/2015	03/2027	1.757%	14,000		
25	Conservation	04/2015	04/2027	3.660%	1,000		
26	Conservation	05/2015	05/2027	1.757%	8,000		
27	Conservation	06/2015	06/2027	1.757%	10,000		
28	Conservation	07/2015	07/2027	3.660%	4,000		
29	Conservation	08/2015	08/2027	3.660%	8,000		
30	Conservation	09/2015	09/2027	3.660%	18,000		
31	Conservation	10/2015	10/2027	4.180%	4,000		
32	Conservation	11/2015	11/2027	4.180%	5,000		
33	Conservation	12/2015	12/2027	4.180%	10,000		
34	Conservation	01/2016	01/2028	4.180%	5,000		
35	Conservation	02/2016	02/2028	4.180%	6,000		
36	Conservation	03/2016	03/2028	4.180%	14,000		
37	Conservation	04/2016	04/2028	4.180%	1,000		
38	Conservation	05/2016	05/2028	4.180%	8,000		
39	Conservation	06/2016	06/2028	4.180%	10,000		
40	Conservation	07/2016	07/2028	4.180%	4,000		
41	Conservation	08/2016	08/2028	4.180%	9,000		
42	Conservation	09/2016	09/2028	4.180%	19,000		
43	Construction (AS)	07/2014	07/2020	1.757%	1,050		

TABLE 11B:
PROJECTED INVESTMENTS
October 1, 2013 - September 30, 2016 Cost Evaluation period
($000s) (FY 2016)

	A	B	C	D	E	F	G
	Project	In Service Date	Due Date	Interest Rate	Current Principal	Roll Maturity Date	Rollover Rate
44	Construction (AS)	08/2014	08/2020	1.757%	1,090		
45	Construction (AS)	09/2014	09/2020	1.757%	2,220		
46	Construction (AS)	10/2014	10/2020	1.757%	700		
47	Construction (AS)	10/2014	10/2020	1.757%	3,000		
48	Construction (AS)	11/2014	11/2020	1.757%	4,000		
49	Construction (AS)	11/2014	11/2020	2.530%	700		
50	Construction (AS)	12/2014	12/2020	2.530%	700		
51	Construction (AS)	01/2015	01/2021	2.530%	350		
52	Construction (AS)	02/2015	02/2021	2.530%	700		
53	Construction (AS)	03/2015	03/2021	2.530%	700		
54	Construction (AS)	04/2015	04/2021	2.530%	700		
55	Construction (AS)	05/2015	05/2021	2.530%	700		
56	Construction (AS)	06/2015	06/2021	2.530%	700		
57	Construction (AS)	07/2015	07/2021	2.530%	700		
58	Construction (AS)	08/2015	08/2021	2.530%	700		
59	Construction (AS)	09/2015	09/2021	2.530%	1,400		
60	Construction (AS)	10/2015	10/2021	3.470%	700		
61	Construction (AS)	10/2015	10/2021	3.470%	3,000		
62	Construction (AS)	11/2015	11/2021	3.470%	700		
63	Construction (AS)	11/2015	11/2021	3.470%	3,000		
64	Construction (AS)	12/2015	12/2021	3.470%	700		
65	Construction (AS)	01/2016	01/2022	3.470%	700		
66	Construction (AS)	02/2016	02/2022	3.470%	700		
67	Construction (AS)	03/2016	03/2022	3.470%	700		
68	Construction (AS)	04/2016	04/2022	3.470%	700		
69	Construction (AS)	05/2016	05/2022	3.470%	700		
70	Construction (AS)	06/2016	06/2022	3.470%	1,050		
71	Construction (AS)	07/2016	07/2022	3.470%	700		
72	Construction (AS)	08/2016	08/2022	3.470%	700		
73	Construction (AS)	09/2016	09/2022	3.470%	1,750		
74	Fish and Wildlife	08/2014	08/2029	1.757%	3,000		
75	Fish and Wildlife	09/2014	09/2029	1.757%	11,000		
76	Fish and Wildlife	10/2014	10/2029	1.757%	6,000		
77	Fish and Wildlife	11/2014	11/2029	1.757%	3,000		
78	Fish and Wildlife	12/2014	12/2029	1.757%	5,000		
79	Fish and Wildlife	01/2015	01/2030	1.757%	3,000		
80	Fish and Wildlife	02/2015	02/2030	1.757%	2,000		
81	Fish and Wildlife	03/2015	03/2030	1.757%	3,000		
82	Fish and Wildlife	04/2015	04/2030	1.757%	2,000		
83	Fish and Wildlife	05/2015	05/2030	1.757%	3,000		
84	Fish and Wildlife	06/2015	06/2030	1.757%	4,000		
85	Fish and Wildlife	07/2015	07/2030	3.840%	6,000		
86	Fish and Wildlife	08/2015	08/2030	3.840%	4,000		
87	Fish and Wildlife	09/2015	09/2030	3.840%	12,000		
88	Fish and Wildlife	10/2015	10/2030	4.320%	6,000		
89	Fish and Wildlife	11/2015	11/2030	4.320%	3,000		
90	Fish and Wildlife	12/2015	12/2030	4.320%	5,000		
91	Fish and Wildlife	01/2016	01/2031	4.320%	4,000		

TABLE 11B:
PROJECTED INVESTMENTS
October 1, 2013 - September 30, 2016 Cost Evaluation period
($000s) (FY 2016)

	A	B	C	D	E	F	G
	Project	In Service Date	Due Date	Interest Rate	Current Principal	Roll Maturity Date	Rollover Rate
92	Fish and Wildlife	02/2016	02/2031	4.320%	2,000		
93	Fish and Wildlife	03/2016	03/2031	4.320%	3,000		
94	Fish and Wildlife	04/2016	04/2031	4.320%	2,000		
95	Fish and Wildlife	05/2016	05/2031	4.320%	3,000		
96	Fish and Wildlife	06/2016	06/2031	4.320%	4,000		
97	Fish and Wildlife	07/2016	07/2031	4.320%	6,000		
98	Fish and Wildlife	08/2016	08/2031	4.320%	4,000		
99	Fish and Wildlife	09/2016	09/2031	4.320%	12,000		
100	**Totals:**				**948,803**		

TABLE 11C: Interest Calculation Summary
October 1, 2013 - September 30, 2016 Cost Evaluation Period
($000s) (FY 2016)

	A	B	D	E	F	G	H	I	J
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
1	2014	Albeni Falls	Historical	3,090	6.744%	208	0	0	208
2	2014	Boise	Historical	4,425	6.657%	295	0	0	295
3	2014	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	0	0	26,226
4	2014	Bonneville Dam	Historical	151,726	5.483%	8,320	0	0	8,320
5	2014	Chief Joseph	Historical	238,256	6.818%	16,243	0	0	16,243
6	2014	Columbia Basin	Historical	98,385	5.674%	5,583	0	0	5,583
7	2014	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151%	32,565	0	0	32,565
8	2014	Columbia River Fish Mitigation	Historical	1,217,949	4.508%	54,909	0	0	54,909
9	2014	Cougar	Historical	16,696	4.580%	765	0	0	765
10	2014	Detroit Lake/Big Cliff	Historical	2,120	4.705%	100	0	0	100
11	2014	Dworshak	Historical	106,037	7.076%	7,503	0	0	7,503
12	2014	Green Peter/Foster	Historical	340	5.225%	18	0	0	18
13	2014	Hills Creek	Historical	2,867	5.972%	171	0	0	171
14	2014	Hungry Horse Dam	Historical	13,271	6.272%	832	0	0	832
15	2014	Ice Harbor	Historical	36,219	6.319%	2,289	0	0	2,289
16	2014	John Day	Historical	30,309	5.436%	1,648	0	0	1,648
17	2014	Libby	Historical	235,708	7.104%	16,744	0	0	16,744
18	2014	Little Goose	Historical	63,856	6.907%	4,410	0	0	4,410
19	2014	Lookout Dam	Historical	13,543	5.467%	740	0	0	740
20	2014	Lost Creek	Historical	14,884	7.136%	1,062	0	0	1,062
21	2014	Lower Granite	Historical	177,498	7.009%	12,441	0	0	12,441
22	2014	Lower Monument	Historical	53,104	6.792%	3,607	0	0	3,607
23	2014	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	0	0	16,525
24	2014	McNary	Historical	14,718	5.038%	742	0	0	742
25	2014	Minidoka/Palisades	Historical	50,960	7.148%	3,643	0	0	3,643
26	2014	RRP - Green Springs	Historical	11,148	5.874%	655	0	0	655
27	2014	The Dalles	Historical	53,067	5.506%	2,922	0	0	2,922
28	2014	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	0	0	43
29	2014	Yakima Roza	Historical	14	5.878%	1	0	0	1
30	2014	Bureau Direct	Historical	601,000	3.798%	22,823	0	0	22,823
31	2014	Bureau Direct	New	339,000	1.226%	4,158	0	690	4,848
32	2014	Conservation	Historical	264,000	2.476%	6,537	0	0	6,537
33	2014	Conservation	New	192,000	1.118%	2,147	0	1,116	3,263
34	2014	Construction (AS)	Historical	49,900	1.693%	845	0	0	845
35	2014	Construction (AS)	New	20,140	0.796%	160	0	100	260
36	2014	Fish and Wildlife	Historical	146,000	4.113%	6,005	0	0	6,005
37	2014	Fish and Wildlife	New	148,000	2.085%	3,086	0	907	3,993
38	2014	Float	Historical	-	-	(6,113)	0	0	(6,113)
39	**FY 2014**	**Subtotal:**		**5,425,781**		**260,858**	**0**	**2,813**	**263,670**
40	2015	Albeni Falls	Historical	3,090	6.744%	208	0	0	208
41	2015	Boise	Historical	4,425	6.657%	295	0	0	295
42	2015	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	0	0	26,226
43	2015	Bonneville Dam	Historical	151,726	5.483%	8,320	0	0	8,320
44	2015	Chief Joseph	Historical	238,256	6.818%	16,243	0	0	16,243
45	2015	Columbia Basin	Historical	98,385	5.674%	5,583	0	0	5,583
46	2015	Columbia Basin 3rd Powerhouse	Historical	411,264	7.150%	29,405	0	0	29,405
47	2015	Columbia River Fish Mitigation	Historical	1,296,526	4.470%	57,957	0	0	57,957
48	2015	Cougar	Historical	16,696	4.580%	765	0	0	765
49	2015	Detroit Lake/Big Cliff	Historical	2,120	4.705%	100	0	0	100
50	2015	Dworshak	Historical	14,095	6.332%	892	0	0	892
51	2015	Green Peter/Foster	Historical	340	5.225%	18	0	0	18
52	2015	Hills Creek	Historical	2,867	5.972%	171	0	0	171
53	2015	Hungry Horse Dam	Historical	13,271	6.272%	832	0	0	832

TABLE 11C: Interest Calculation Summary
October 1, 2013 - September 30, 2016 Cost Evaluation Period
($000s) (FY 2016)

	A	B	D	E	F	G	H	I	J
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
54	2015	Ice Harbor	Historical	36,219	6.319%	2,289	0	0	2,289
55	2015	John Day	Historical	30,309	5.436%	1,648	0	0	1,648
56	2015	Libby	Historical	180,762	7.087%	12,811	0	0	12,811
57	2015	Little Goose	Historical	63,856	6.907%	4,410	0	0	4,410
58	2015	Lookout Dam	Historical	13,543	5.467%	740	0	0	740
59	2015	Lost Creek	Historical	14,884	7.136%	1,062	0	0	1,062
60	2015	Lower Granite	Historical	55,126	6.674%	3,679	0	0	3,679
61	2015	Lower Monument	Historical	53,104	6.792%	3,607	0	0	3,607
62	2015	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	0	0	16,525
63	2015	McNary	Historical	14,718	5.038%	742	0	0	742
64	2015	Minidoka/Palisades	Historical	50,960	7.148%	3,643	0	0	3,643
65	2015	RRP - Green Springs	Historical	11,148	5.874%	655	0	0	655
66	2015	The Dalles	Historical	45,827	5.243%	2,403	0	0	2,403
67	2015	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	0	0	43
68	2015	Yakima Roza	Historical	14	5.878%	1	0	0	1
69	2015	Bureau Direct	Historical	863,000	3.342%	28,843	0	0	28,843
70	2015	Bureau Direct	New	21,000	-	0	0	73	73
71	2015	Conservation	Historical	441,000	2.379%	10,491	0	(267)	10,224
72	2015	Conservation	New	74,000	0.511%	378	0	277	654
73	2015	Construction (AS)	Historical	57,310	1.531%	877	0	(6)	872
74	2015	Construction (AS)	New	14,350	0.749%	107	0	86	193
75	2015	Fish and Wildlife	Historical	305,000	3.595%	10,965	0	16	10,981
76	2015	Fish and Wildlife	New	41,000	0.471%	193	0	196	389
77	2015	Float	Historical	-	-	(2,505)	0	0	(2,505)
78	**FY 2015**	**Subtotal:**		**5,240,353**		**250,623**	**0**	**375**	**250,998**
79	2016	Albeni Falls	Historical	3,090	6.744%	208	0	0	208
80	2016	Boise	Historical	4,425	6.657%	295	0	0	295
81	2016	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	0	0	26,226
82	2016	Bonneville Dam	Historical	151,726	5.483%	8,320	0	0	8,320
83	2016	Chief Joseph	Historical	238,256	6.818%	16,243	0	0	16,243
84	2016	Columbia Basin	Historical	98,385	5.674%	5,583	0	0	5,583
85	2016	Columbia Basin 3rd Powerhouse	Historical	411,264	7.150%	29,405	0	0	29,405
86	2016	Columbia River Fish Mitigation	Historical	1,433,622	4.436%	63,592	0	0	63,592
87	2016	Cougar	Historical	16,696	4.580%	765	0	0	765
88	2016	Detroit Lake/Big Cliff	Historical	2,120	4.705%	100	0	0	100

TABLE 11C: Interest Calculation Summary
October 1, 2013 - September 30, 2016 Cost Evaluation Period
($000s) (FY 2016)

	A	B	D	E	F	G	H	I	J
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
89	2016	Dworshak	Historical	14,095	6.332%	892	0	0	892
90	2016	Green Peter/Foster	Historical	340	5.225%	18	0	0	18
91	2016	Hills Creek	Historical	2,867	5.972%	171	0	0	171
92	2016	Hungry Horse Dam	Historical	13,271	6.272%	832	0	0	832
93	2016	Ice Harbor	Historical	36,219	6.319%	2,289	0	0	2,289
94	2016	John Day	Historical	30,309	5.436%	1,648	0	0	1,648
95	2016	Libby	Historical	179,611	7.087%	12,729	0	0	12,729
96	2016	Little Goose	Historical	63,856	6.907%	4,410	0	0	4,410
97	2016	Lookout Dam	Historical	13,543	5.467%	740	0	0	740
98	2016	Lost Creek	Historical	14,884	7.136%	1,062	0	0	1,062
99	2016	Lower Granite	Historical	55,126	6.674%	3,679	0	0	3,679
100	2016	Lower Monument	Historical	53,104	6.792%	3,607	0	0	3,607
101	2016	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	0	0	16,525
102	2016	McNary	Historical	14,718	5.038%	742	0	0	742
103	2016	Minidoka/Palisades	Historical	50,960	7.148%	3,643	0	0	3,643
104	2016	RRP - Green Springs	Historical	11,148	5.874%	655	0	0	655
105	2016	The Dalles	Historical	45,827	5.243%	2,403	0	0	2,403
106	2016	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	0	0	43
107	2016	Yakima Roza	Historical	14	5.878%	1	0	0	1
108	2016	Bureau Direct	Historical	905,000	3.378%	30,575	0	0	30,575
109	2016	Bureau Direct	New	213,000	1.094%	2,331	0	2,223	4,554
110	2016	Conservation	Historical	428,000	2.642%	11,307	0	0	11,307
111	2016	Conservation	New	76,000	1.210%	920	0	593	1,512
112	2016	Construction (AS)	Historical	68,060	1.709%	1,163	0	(38)	1,124
113	2016	Construction (AS)	New	14,050	1.173%	165	0	154	319
114	2016	Fish and Wildlife	Historical	358,000	3.455%	12,370	0	0	12,370
115	2016	Fish and Wildlife	New	42,000	1.183%	497	0	421	917
116	2016	Float	Historical	-	-	(3,209)	0	0	(3,209)
117	**FY 2016**	**Subtotal:**		**5,663,748**		**262,944**	**0**	**3,352**	**266,296**
118	2017	Albeni Falls	Historical	3,090	6.744%	208	0	0	208
119	2017	Boise	Historical	4,425	6.657%	295	0	0	295
120	2017	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	0	0	26,226
121	2017	Bonneville Dam	Historical	151,726	5.483%	8,320	0	0	8,320
122	2017	Chief Joseph	Historical	238,256	6.818%	16,243	0	0	16,243
123	2017	Columbia Basin	Historical	98,385	5.674%	5,583	0	0	5,583
124	2017	Columbia Basin 3rd Powerhouse	Historical	411,264	7.150%	29,405	0	0	29,405
125	2017	Columbia River Fish Mitigation	Historical	1,528,842	4.439%	67,867	0	0	67,867
126	2017	Cougar	Historical	16,696	4.580%	765	0	0	765
127	2017	Detroit Lake/Big Cliff	Historical	2,120	4.705%	100	0	0	100
128	2017	Dworshak	Historical	14,095	6.332%	892	0	0	892
129	2017	Green Peter/Foster	Historical	340	5.225%	18	0	0	18
130	2017	Hills Creek	Historical	2,867	5.972%	171	0	0	171
131	2017	Hungry Horse Dam	Historical	13,271	6.272%	832	0	0	832
132	2017	Ice Harbor	Historical	36,219	6.319%	2,289	0	0	2,289
133	2017	John Day	Historical	30,309	5.436%	1,648	0	0	1,648
134	2017	Libby	Historical	84,455	7.016%	5,925	0	0	5,925
135	2017	Little Goose	Historical	63,856	6.907%	4,410	0	0	4,410
136	2017	Lookout Dam	Historical	13,543	5.467%	740	0	0	740
137	2017	Lost Creek	Historical	14,884	7.136%	1,062	0	0	1,062
138	2017	Lower Granite	Historical	55,126	6.674%	3,679	0	0	3,679
139	2017	Lower Monument	Historical	53,104	6.792%	3,607	0	0	3,607
140	2017	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	0	0	16,525
141	2017	McNary	Historical	14,718	5.038%	742	0	0	742

TABLE 11C: Interest Calculation Summary
October 1, 2013 - September 30, 2016 Cost Evaluation Period
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	A	B	D	E	F	G	H	I	J
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
142	2017	Minidoka/Palisades	Historical	50,960	7.148%	3,643	0	0	3,643
143	2017	RRP - Green Springs	Historical	11,148	5.874%	655	0	0	655
144	2017	The Dalles	Historical	45,827	5.243%	2,403	0	0	2,403
145	2017	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	0	0	43
146	2017	Yakima Roza	Historical	14	5.878%	1	0	0	1
147	2017	Bureau Direct	Historical	1,145,000	3.628%	41,538	0	0	41,538
148	2017	Conservation	Historical	523,000	2.909%	15,213	0	(42)	15,171
149	2017	Construction (AS)	Historical	73,360	2.095%	1,537	0	(31)	1,506
150	2017	Fish and Wildlife	Historical	412,000	3.568%	14,702	0	0	14,702
151	2017	Replacements	New	205,153	2.535%	5,201	0	0	5,201
152	2017	Float	Historical	-	-	(3,166)	0	0	(3,166)
153	**FY 2017**	**Subtotal:**		**5,918,215**		**279,322**	**0**	**(73)**	**279,249**
154	2018	Albeni Falls	Historical	3,090	6.744%	208	0	0	208
155	2018	Boise	Historical	4,425	6.657%	295	0	0	295
156	2018	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	0	0	26,226
157	2018	Bonneville Dam	Historical	151,726	5.483%	8,320	0	0	8,320
158	2018	Chief Joseph	Historical	238,256	6.818%	16,243	0	0	16,243
159	2018	Columbia Basin	Historical	98,385	5.674%	5,583	0	0	5,583
160	2018	Columbia Basin 3rd Powerhouse	Historical	411,264	7.150%	29,405	0	0	29,405
161	2018	Columbia River Fish Mitigation	Historical	1,528,842	4.439%	67,867	0	0	67,867
162	2018	Cougar	Historical	16,696	4.580%	765	0	0	765
163	2018	Detroit Lake/Big Cliff	Historical	2,120	4.705%	100	0	0	100
164	2018	Dworshak	Historical	14,095	6.332%	892	0	0	892
165	2018	Green Peter/Foster	Historical	340	5.225%	18	0	0	18
166	2018	Hills Creek	Historical	2,867	5.972%	171	0	0	171
167	2018	Hungry Horse Dam	Historical	13,271	6.272%	832	0	0	832
168	2018	Ice Harbor	Historical	17,560	5.436%	954	0	0	954
169	2018	John Day	Historical	30,309	5.436%	1,648	0	0	1,648
170	2018	Libby	Historical	34,138	6.818%	2,327	0	0	2,327
171	2018	Little Goose	Historical	63,856	6.907%	4,410	0	0	4,410
172	2018	Lookout Dam	Historical	13,543	5.467%	740	0	0	740
173	2018	Lost Creek	Historical	14,884	7.136%	1,062	0	0	1,062
174	2018	Lower Granite	Historical	55,126	6.674%	3,679	0	0	3,679
175	2018	Lower Monument	Historical	53,104	6.792%	3,607	0	0	3,607

TABLE 11C: Interest Calculation Summary
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	A	B	D	E	F	G	H	I	J
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
176	2018	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	0	0	16,525
177	2018	McNary	Historical	14,718	5.038%	742	0	0	742
178	2018	Minidoka/Palisades	Historical	50,960	7.148%	3,643	0	0	3,643
179	2018	RRP - Green Springs	Historical	11,148	5.874%	655	0	0	655
180	2018	The Dalles	Historical	45,827	5.243%	2,403	0	0	2,403
181	2018	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	0	0	43
182	2018	Yakima Roza	Historical	14	5.878%	1	0	0	1
183	2018	Bureau Direct	Historical	1,145,000	3.628%	41,538	0	0	41,538
184	2018	Conservation	Historical	503,000	3.002%	15,100	0	(16)	15,084
185	2018	Construction (AS)	Historical	58,210	2.342%	1,363	0	0	1,363
186	2018	Fish and Wildlife	Historical	412,000	3.568%	14,702	0	0	14,702
187	2018	Replacements	Historical	205,153	5.070%	10,401	0	0	10,401
188	2018	Replacements	New	205,153	2.535%	5,201	0	0	5,201
189	2018	Float	Historical	-	-	(3,096)	0	0	(3,096)
190	**FY 2018**	**Subtotal:**		**6,019,242**		**284,576**	**0**	**(16)**	**284,559**
191	2019	Albeni Falls	Historical	3,090	6.744%	208	0	0	208
192	2019	Boise	Historical	4,425	6.657%	295	0	0	295
193	2019	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	0	0	26,226
194	2019	Bonneville Dam	Historical	151,726	5.483%	8,320	0	0	8,320
195	2019	Chief Joseph	Historical	238,256	6.818%	16,243	0	0	16,243
196	2019	Columbia Basin	Historical	98,312	5.673%	5,577	0	0	5,577
197	2019	Columbia Basin 3rd Powerhouse	Historical	329,146	7.150%	23,534	0	0	23,534
198	2019	Columbia River Fish Mitigation	Historical	1,528,842	4.439%	67,867	0	0	67,867
199	2019	Cougar	Historical	16,696	4.580%	765	0	0	765
200	2019	Detroit Lake/Big Cliff	Historical	2,120	4.705%	100	0	0	100
201	2019	Dworshak	Historical	14,095	6.332%	892	0	0	892
202	2019	Green Peter/Foster	Historical	340	5.225%	18	0	0	18
203	2019	Hills Creek	Historical	2,867	5.972%	171	0	0	171
204	2019	Hungry Horse Dam	Historical	13,271	6.272%	832	0	0	832
205	2019	Ice Harbor	Historical	15,498	5.208%	807	0	0	807
206	2019	John Day	Historical	30,309	5.436%	1,648	0	0	1,648
207	2019	Libby	Historical	23,079	6.658%	1,537	0	0	1,537
208	2019	Little Goose	Historical	63,856	6.907%	4,410	0	0	4,410
209	2019	Lookout Dam	Historical	13,543	5.467%	740	0	0	740
210	2019	Lost Creek	Historical	683	6.839%	47	0	0	47
211	2019	Lower Granite	Historical	55,126	6.674%	3,679	0	0	3,679
212	2019	Lower Monument	Historical	53,104	6.792%	3,607	0	0	3,607
213	2019	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	0	0	16,525
214	2019	McNary	Historical	14,367	4.987%	716	0	0	716
215	2019	Minidoka/Palisades	Historical	50,960	7.148%	3,643	0	0	3,643
216	2019	RRP - Green Springs	Historical	11,148	5.874%	655	0	0	655
217	2019	The Dalles	Historical	45,827	5.243%	2,403	0	0	2,403
218	2019	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	0	0	43
219	2019	Yakima Roza	Historical	14	5.878%	1	0	0	1
220	2019	Bureau Direct	Historical	1,145,000	3.452%	39,527	0	(1,121)	38,405
221	2019	Conservation	Historical	494,000	3.047%	15,050	0	0	15,050
222	2019	Construction (AS)	Historical	58,210	2.292%	1,334	0	(20)	1,315
223	2019	Fish and Wildlife	Historical	412,000	3.440%	14,173	0	(309)	13,864
224	2019	Replacements	Historical	410,307	5.070%	20,803	0	0	20,803
225	2019	Replacements	New	205,153	2.535%	5,201	0	0	5,201
226	2019	Float	Historical	-	-	(4,996)	0	0	(4,996)
227	**FY 2019**	**Subtotal:**		**6,105,533**		**282,602**	**0**	**(1,450)**	**281,152**
228	2020	Albeni Falls	Historical	3,090	6.744%	208	0	0	208

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	A	B	D	E	F	G	H	I	J
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
229	2020	Boise	Historical	4,425	6.657%	295	0	0	295
230	2020	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	0	0	26,226
231	2020	Bonneville Dam	Historical	136,056	5.291%	7,199	0	0	7,199
232	2020	Chief Joseph	Historical	207,744	6.769%	14,062	0	0	14,062
233	2020	Columbia Basin	Historical	98,312	5.673%	5,577	0	0	5,577
234	2020	Columbia Basin 3rd Powerhouse	Historical	311,169	7.150%	22,249	0	0	22,249
235	2020	Columbia River Fish Mitigation	Historical	1,528,842	4.439%	67,867	0	0	67,867
236	2020	Cougar	Historical	16,696	4.580%	765	0	0	765
237	2020	Detroit Lake/Big Cliff	Historical	2,120	4.705%	100	0	0	100
238	2020	Dworshak	Historical	14,095	6.332%	892	0	0	892
239	2020	Green Peter/Foster	Historical	340	5.225%	18	0	0	18
240	2020	Hills Creek	Historical	2,867	5.972%	171	0	0	171
241	2020	Hungry Horse Dam	Historical	13,271	6.272%	832	0	0	832
242	2020	Ice Harbor	Historical	15,498	5.208%	807	0	0	807
243	2020	John Day	Historical	30,309	5.436%	1,648	0	0	1,648
244	2020	Libby	Historical	23,079	6.658%	1,537	0	0	1,537
245	2020	Little Goose	Historical	63,856	6.907%	4,410	0	0	4,410
246	2020	Lookout Dam	Historical	13,543	5.467%	740	0	0	740
247	2020	Lost Creek	Historical	303	6.450%	20	0	0	20
248	2020	Lower Granite	Historical	36,487	6.431%	2,346	0	0	2,346
249	2020	Lower Monument	Historical	53,104	6.792%	3,607	0	0	3,607
250	2020	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	0	0	16,525
251	2020	McNary	Historical	14,367	4.987%	716	0	0	716
252	2020	Minidoka/Palisades	Historical	50,960	7.148%	3,643	0	0	3,643
253	2020	RRP - Green Springs	Historical	11,148	5.874%	655	0	0	655
254	2020	The Dalles	Historical	45,827	5.243%	2,403	0	0	2,403
255	2020	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	0	0	43
256	2020	Yakima Roza	Historical	14	5.878%	1	0	0	1
257	2020	Bureau Direct	Historical	944,000	3.728%	35,194	0	(1,429)	33,765
258	2020	Conservation	Historical	494,000	3.047%	15,050	0	0	15,050
259	2020	Construction (AS)	Historical	52,960	2.153%	1,140	0	(101)	1,039
260	2020	Fish and Wildlife	Historical	366,000	3.584%	13,116	0	0	13,116
261	2020	Replacements	Historical	615,460	5.070%	31,204	0	0	31,204
262	2020	Replacements	New	205,153	2.535%	5,201	0	0	5,201

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	A	B	D	E	F	G	H	I	J
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
263	2020	Float	Historical	-	-	(4,611)	0	0	(4,611)
264	**FY 2020**	**Subtotal:**		**5,975,258**		**281,858**	**0**	**(1,530)**	**280,328**
265	2021	Albeni Falls	Historical	3,090	6.744%	208	0	0	208
266	2021	Boise	Historical	4,425	6.657%	295	0	0	295
267	2021	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	0	0	26,226
268	2021	Bonneville Dam	Historical	136,056	5.291%	7,199	0	0	7,199
269	2021	Chief Joseph	Historical	207,744	6.769%	14,062	0	0	14,062
270	2021	Columbia Basin	Historical	98,312	5.673%	5,577	0	0	5,577
271	2021	Columbia Basin 3rd Powerhouse	Historical	292,787	7.150%	20,934	0	0	20,934
272	2021	Columbia River Fish Mitigation	Historical	1,528,842	4.439%	67,867	0	0	67,867
273	2021	Cougar	Historical	16,696	4.580%	765	0	0	765
274	2021	Detroit Lake/Big Cliff	Historical	2,120	4.705%	100	0	0	100
275	2021	Dworshak	Historical	14,095	6.332%	892	0	0	892
276	2021	Green Peter/Foster	Historical	340	5.225%	18	0	0	18
277	2021	Hills Creek	Historical	2,867	5.972%	171	0	0	171
278	2021	Hungry Horse Dam	Historical	13,271	6.272%	832	0	0	832
279	2021	Ice Harbor	Historical	15,498	5.208%	807	0	0	807
280	2021	John Day	Historical	30,309	5.436%	1,648	0	0	1,648
281	2021	Libby	Historical	23,079	6.658%	1,537	0	0	1,537
282	2021	Little Goose	Historical	14,278	6.062%	866	0	0	866
283	2021	Lookout Dam	Historical	13,543	5.467%	740	0	0	740
284	2021	Lost Creek	Historical	303	6.450%	20	0	0	20
285	2021	Lower Granite	Historical	14,515	5.341%	775	0	0	775
286	2021	Lower Monument	Historical	53,104	6.792%	3,607	0	0	3,607
287	2021	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	0	0	16,525
288	2021	McNary	Historical	14,367	4.987%	716	0	0	716
289	2021	Minidoka/Palisades	Historical	50,960	7.148%	3,643	0	0	3,643
290	2021	RRP - Green Springs	Historical	11,148	5.874%	655	0	0	655
291	2021	The Dalles	Historical	45,827	5.243%	2,403	0	0	2,403
292	2021	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	0	0	43
293	2021	Yakima Roza	Historical	14	5.878%	1	0	0	1
294	2021	Bureau Direct	Historical	733,000	3.951%	28,958	0	(165)	28,793
295	2021	Conservation	Historical	494,000	3.047%	15,050	0	0	15,050
296	2021	Construction (AS)	Historical	31,550	2.471%	779	0	(86)	694
297	2021	Fish and Wildlife	Historical	366,000	3.584%	13,116	0	0	13,116
298	2021	Replacements	Historical	820,614	5.070%	41,605	0	0	41,605
299	2021	Replacements	New	205,153	2.535%	5,201	0	0	5,201
300	2021	Float	Historical	-	-	(4,746)	0	0	(4,746)
301	**FY 2021**	**Subtotal:**		**5,858,070**		**279,097**	**0**	**(251)**	**278,846**
302	2022	Albeni Falls	Historical	3,090	6.744%	208	0	0	208
303	2022	Boise	Historical	4,425	6.657%	295	0	0	295
304	2022	Bonneville 2nd Powerhouse	Historical	366,796	7.150%	26,226	0	0	26,226
305	2022	Bonneville Dam	Historical	136,056	5.291%	7,199	0	0	7,199
306	2022	Chief Joseph	Historical	132,075	6.550%	8,651	0	0	8,651
307	2022	Columbia Basin	Historical	98,312	5.673%	5,577	0	0	5,577
308	2022	Columbia Basin 3rd Powerhouse	Historical	166,175	7.150%	11,881	0	0	11,881
309	2022	Columbia River Fish Mitigation	Historical	1,528,842	4.439%	67,867	0	0	67,867
310	2022	Cougar	Historical	16,696	4.580%	765	0	0	765
311	2022	Detroit Lake/Big Cliff	Historical	2,120	4.705%	100	0	0	100
312	2022	Dworshak	Historical	14,095	6.332%	892	0	0	892
313	2022	Green Peter/Foster	Historical	340	5.225%	18	0	0	18
314	2022	Hills Creek	Historical	2,867	5.972%	171	0	0	171
315	2022	Hungry Horse Dam	Historical	13,271	6.272%	832	0	0	832

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($000s) (FY 2016)

	A	B	D	E	F	G	H	I	J
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
316	2022	Ice Harbor	Historical	15,498	5.208%	807	0	0	807
317	2022	John Day	Historical	30,309	5.436%	1,648	0	0	1,648
318	2022	Libby	Historical	23,079	6.658%	1,537	0	0	1,537
319	2022	Little Goose	Historical	14,231	6.058%	862	0	0	862
320	2022	Lookout Dam	Historical	13,543	5.467%	740	0	0	740
321	2022	Lost Creek	Historical	303	6.450%	20	0	0	20
322	2022	Lower Granite	Historical	14,515	5.341%	775	0	0	775
323	2022	Lower Monument	Historical	12,435	5.620%	699	0	0	699
324	2022	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	0	0	16,525
325	2022	McNary	Historical	14,367	4.987%	716	0	0	716
326	2022	Minidoka/Palisades	Historical	50,960	7.148%	3,643	0	0	3,643
327	2022	RRP - Green Springs	Historical	11,148	5.874%	655	0	0	655
328	2022	The Dalles	Historical	45,827	5.243%	2,403	0	0	2,403
329	2022	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	0	0	43
330	2022	Yakima Roza	Historical	14	5.878%	1	0	0	1
331	2022	Bureau Direct	Historical	636,000	4.154%	26,418	0	0	26,418
332	2022	Conservation	Historical	494,000	3.028%	14,956	0	(47)	14,909
333	2022	Construction (AS)	Historical	15,800	2.349%	371	0	(142)	229
334	2022	Fish and Wildlife	Historical	366,000	3.584%	13,116	0	0	13,116
335	2022	Replacements	Historical	1,025,767	5.070%	52,006	0	0	52,006
336	2022	Replacements	New	205,153	2.535%	5,201	0	0	5,201
337	2022	Float	Historical	-	-	(4,663)	0	0	(4,663)
338	**FY 2022**	**Subtotal:**		**5,707,476**		**269,164**	**0**	**(189)**	**268,975**
339	2023	Albeni Falls	Historical	3,090	6.744%	208	0	0	208
340	2023	Boise	Historical	4,425	6.657%	295	0	0	295
341	2023	Bonneville 2nd Powerhouse	Historical	186,363	7.150%	13,325	0	0	13,325
342	2023	Bonneville Dam	Historical	136,034	5.291%	7,198	0	0	7,198
343	2023	Chief Joseph	Historical	37,744	5.052%	1,907	0	0	1,907
344	2023	Columbia Basin	Historical	97,952	5.668%	5,552	0	0	5,552
345	2023	Columbia Basin 3rd Powerhouse	Historical	161,090	7.150%	11,518	0	0	11,518
346	2023	Columbia River Fish Mitigation	Historical	1,528,842	4.439%	67,867	0	0	67,867
347	2023	Cougar	Historical	16,696	4.580%	765	0	0	765
348	2023	Detroit Lake/Big Cliff	Historical	2,120	4.705%	100	0	0	100
349	2023	Dworshak	Historical	13,668	6.307%	862	0	0	862

TABLE 11C: Interest Calculation Summary
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	A	B	D	E	F	G	H	I	J
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
350	2023	Green Peter/Foster	Historical	340	5.225%	18	0	0	18
351	2023	Hills Creek	Historical	2,867	5.972%	171	0	0	171
352	2023	Hungry Horse Dam	Historical	11,540	6.141%	709	0	0	709
353	2023	Ice Harbor	Historical	15,420	5.198%	802	0	0	802
354	2023	John Day	Historical	30,309	5.436%	1,648	0	0	1,648
355	2023	Libby	Historical	22,777	6.652%	1,515	0	0	1,515
356	2023	Little Goose	Historical	14,231	6.058%	862	0	0	862
357	2023	Lookout Dam	Historical	13,543	5.467%	740	0	0	740
358	2023	Lost Creek	Historical	272	6.370%	17	0	0	17
359	2023	Lower Granite	Historical	12,758	5.092%	650	0	0	650
360	2023	Lower Monument	Historical	12,179	5.587%	680	0	0	680
361	2023	Lower Snake Fish and Wildlife	Historical	232,518	7.107%	16,525	0	0	16,525
362	2023	McNary	Historical	14,367	4.987%	716	0	0	716
363	2023	Minidoka/Palisades	Historical	50,960	7.148%	3,643	0	0	3,643
364	2023	RRP - Green Springs	Historical	11,148	5.874%	655	0	0	655
365	2023	The Dalles	Historical	45,827	5.243%	2,403	0	0	2,403
366	2023	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	0	0	43
367	2023	Yakima Roza	Historical	14	5.878%	1	0	0	1
368	2023	Bureau Direct	Historical	617,000	4.185%	25,824	0	(456)	25,368
369	2023	Conservation	Historical	488,000	2.880%	14,053	0	(947)	13,106
370	2023	Fish and Wildlife	Historical	335,000	3.626%	12,148	0	0	12,148
371	2023	Replacements	Historical	1,230,921	5.070%	62,408	0	0	62,408
372	2023	Replacements	New	205,153	2.535%	5,201	0	0	5,201
373	2023	Float	Historical	-	-	(4,641)	0	0	(4,641)
374	**FY 2023**	**Subtotal:**		**5,556,017**		**256,386**	**0**	**(1,402)**	**254,984**
375	2024	Albeni Falls	Historical	3,090	6.744%	208	0	0	208
376	2024	Boise	Historical	4,425	6.657%	295	0	0	295
377	2024	Bonneville 2nd Powerhouse	Historical	56,475	7.150%	4,038	0	0	4,038
378	2024	Bonneville Dam	Historical	135,516	5.284%	7,161	0	0	7,161
379	2024	Chief Joseph	Historical	37,578	5.043%	1,895	0	0	1,895
380	2024	Columbia Basin	Historical	97,952	5.668%	5,552	0	0	5,552
381	2024	Columbia Basin 3rd Powerhouse	Historical	118,534	7.150%	8,475	0	0	8,475
382	2024	Columbia River Fish Mitigation	Historical	1,528,842	4.439%	67,867	0	0	67,867
383	2024	Cougar	Historical	16,696	4.580%	765	0	0	765
384	2024	Detroit Lake/Big Cliff	Historical	2,120	4.705%	100	0	0	100
385	2024	Dworshak	Historical	13,668	6.307%	862	0	0	862
386	2024	Green Peter/Foster	Historical	340	5.225%	18	0	0	18
387	2024	Hills Creek	Historical	2,867	5.972%	171	0	0	171
388	2024	Hungry Horse Dam	Historical	11,540	6.141%	709	0	0	709
389	2024	Ice Harbor	Historical	15,420	5.198%	802	0	0	802
390	2024	John Day	Historical	30,309	5.436%	1,648	0	0	1,648
391	2024	Libby	Historical	22,777	6.652%	1,515	0	0	1,515
392	2024	Little Goose	Historical	14,231	6.058%	862	0	0	862
393	2024	Lookout Dam	Historical	13,543	5.467%	740	0	0	740
394	2024	Lost Creek	Historical	272	6.370%	17	0	0	17
395	2024	Lower Granite	Historical	12,758	5.092%	650	0	0	650
396	2024	Lower Monument	Historical	12,179	5.587%	680	0	0	680
397	2024	Lower Snake Fish and Wildlife	Historical	223,045	7.105%	15,848	0	0	15,848
398	2024	McNary	Historical	14,337	4.982%	714	0	0	714
399	2024	Minidoka/Palisades	Historical	50,960	7.148%	3,643	0	0	3,643
400	2024	RRP - Green Springs	Historical	11,148	5.874%	655	0	0	655
401	2024	The Dalles	Historical	45,827	5.243%	2,403	0	0	2,403
402	2024	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	0	0	43

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	A	B	D	E	F	G	H	I	J
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
403	2024	Yakima Roza	Historical	14	5.878%	1	0	0	1
404	2024	Bureau Direct	Historical	592,000	4.177%	24,726	0	0	24,726
405	2024	Conservation	Historical	346,000	2.657%	9,194	0	(351)	8,843
406	2024	Fish and Wildlife	Historical	312,000	3.645%	11,371	0	(228)	11,144
407	2024	Replacements	Historical	1,436,074	5.070%	72,809	0	0	72,809
408	2024	Replacements	New	205,153	2.535%	5,201	0	0	5,201
409	2024	Float	Historical	-	-	(5,072)	0	0	(5,072)
410	**FY 2024**	**Subtotal:**		**5,388,540**		**246,566**	**0**	**(579)**	**245,987**
411	2025	Albeni Falls	Historical	3,090	6.744%	208	0	0	208
412	2025	Boise	Historical	4,425	6.657%	295	0	0	295
413	2025	Bonneville 2nd Powerhouse	Historical	9,867	7.150%	705	0	0	705
414	2025	Bonneville Dam	Historical	135,516	5.284%	7,161	0	0	7,161
415	2025	Chief Joseph	Historical	37,578	5.043%	1,895	0	0	1,895
416	2025	Columbia Basin	Historical	97,952	5.668%	5,552	0	0	5,552
417	2025	Columbia Basin 3rd Powerhouse	Historical	12,631	7.150%	903	0	0	903
418	2025	Columbia River Fish Mitigation	Historical	1,528,842	4.439%	67,867	0	0	67,867
419	2025	Cougar	Historical	16,696	4.580%	765	0	0	765
420	2025	Detroit Lake/Big Cliff	Historical	2,120	4.705%	100	0	0	100
421	2025	Dworshak	Historical	13,668	6.307%	862	0	0	862
422	2025	Green Peter/Foster	Historical	340	5.225%	18	0	0	18
423	2025	Hills Creek	Historical	2,867	5.972%	171	0	0	171
424	2025	Hungry Horse Dam	Historical	11,540	6.141%	709	0	0	709
425	2025	Ice Harbor	Historical	15,049	5.150%	775	0	0	775
426	2025	John Day	Historical	30,114	5.425%	1,634	0	0	1,634
427	2025	Libby	Historical	7,996	5.731%	458	0	0	458
428	2025	Little Goose	Historical	13,031	5.958%	776	0	0	776
429	2025	Lookout Dam	Historical	13,543	5.467%	740	0	0	740
430	2025	Lost Creek	Historical	272	6.370%	17	0	0	17
431	2025	Lower Granite	Historical	12,758	5.092%	650	0	0	650
432	2025	Lower Monument	Historical	11,915	5.553%	662	0	0	662
433	2025	Lower Snake Fish and Wildlife	Historical	46,692	6.937%	3,239	0	0	3,239
434	2025	McNary	Historical	14,337	4.982%	714	0	0	714
435	2025	Minidoka/Palisades	Historical	50,960	7.148%	3,643	0	0	3,643
436	2025	RRP - Green Springs	Historical	11,148	5.874%	655	0	0	655

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	A	B	D	E	F	G	H	I	J
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
437	2025	The Dalles	Historical	45,827	5.243%	2,403	0	0	2,403
438	2025	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	0	0	43
439	2025	Yakima Roza	Historical	14	5.878%	1	0	0	1
440	2025	Bureau Direct	Historical	592,000	4.177%	24,726	0	0	24,726
441	2025	Conservation	Historical	276,000	3.045%	8,403	0	(225)	8,178
442	2025	Fish and Wildlife	Historical	292,000	3.582%	10,460	0	0	10,460
443	2025	Replacements	Historical	1,641,228	5.070%	83,210	0	0	83,210
444	2025	Replacements	New	205,153	2.535%	5,201	0	0	5,201
445	2025	Float	Historical	-	-	(6,409)	0	0	(6,409)
446	**FY 2025**	**Subtotal:**		**5,158,018**		**229,213**	**0**	**(225)**	**228,988**
447	2026	Albeni Falls	Historical	580	4.988%	29	0	0	29
448	2026	Boise	Historical	1,060	5.091%	54	0	0	54
449	2026	Bonneville Dam	Historical	58,639	4.711%	2,763	0	0	2,763
450	2026	Chief Joseph	Historical	29,261	4.459%	1,305	0	0	1,305
451	2026	Columbia Basin	Historical	21,800	4.539%	989	0	0	989
452	2026	Columbia River Fish Mitigation	Historical	1,350,463	4.231%	57,145	0	0	57,145
453	2026	Cougar	Historical	13,048	4.354%	568	0	0	568
454	2026	Detroit Lake/Big Cliff	Historical	1,781	4.459%	79	0	0	79
455	2026	Dworshak	Historical	4,037	4.652%	188	0	0	188
456	2026	Green Peter/Foster	Historical	115	3.657%	4	0	0	4
457	2026	Hills Creek	Historical	200	3.800%	8	0	0	8
458	2026	Hungry Horse Dam	Historical	4,670	4.807%	224	0	0	224
459	2026	Ice Harbor	Historical	3,819	4.216%	161	0	0	161
460	2026	John Day	Historical	11,918	4.039%	481	0	0	481
461	2026	Libby	Historical	1,774	4.751%	84	0	0	84
462	2026	Little Goose	Historical	3,426	4.379%	150	0	0	150
463	2026	Lookout Dam	Historical	8,373	5.052%	423	0	0	423
464	2026	Lost Creek	Historical	7	3.748%	0	0	0	0
465	2026	Lower Granite	Historical	7,292	4.401%	321	0	0	321
466	2026	Lower Monument	Historical	3,265	4.486%	146	0	0	146
467	2026	Lower Snake Fish and Wildlife	Historical	2,222	4.413%	98	0	0	98
468	2026	McNary	Historical	6,518	4.258%	278	0	0	278
469	2026	Minidoka/Palisades	Historical	7	3.381%	0	0	0	0
470	2026	RRP - Green Springs	Historical	3	3.299%	0	0	0	0
471	2026	The Dalles	Historical	39,840	5.082%	2,025	0	0	2,025
472	2026	Yakima Chandler/Kenniwick	Historical	848	5.111%	43	0	0	43
473	2026	Bureau Direct	Historical	589,365	3.265%	19,240	0	(2,505)	16,735
474	2026	Conservation	Historical	226,000	3.041%	6,872	0	(533)	6,338
475	2026	Fish and Wildlife	Historical	292,000	3.089%	9,020	0	(580)	8,441
476	2026	Replacements	Historical	1,846,381	5.070%	93,612	0	0	93,612
477	2026	Replacements	New	205,153	2.535%	5,201	0	0	5,201
478	2026	Float	Historical	-	-	(6,374)	0	0	(6,374)
479	**FY 2026**	**Subtotal:**		**4,733,865**		**195,137**	**0**	**(3,618)**	**191,519**
480	2027	Albeni Falls	Historical	99	4.322%	4	0	0	4
481	2027	Boise	Historical	81	4.792%	4	0	0	4
482	2027	Bonneville Dam	Historical	32,636	4.381%	1,430	0	0	1,430
483	2027	Chief Joseph	Historical	28,269	4.435%	1,254	0	0	1,254
484	2027	Columbia Basin	Historical	9,909	3.847%	381	0	0	381
485	2027	Columbia River Fish Mitigation	Historical	1,176,459	4.105%	48,294	0	0	48,294
486	2027	Cougar	Historical	4,798	3.033%	146	0	0	146
487	2027	Detroit Lake/Big Cliff	Historical	528	2.875%	15	0	0	15
488	2027	Dworshak	Historical	2,562	4.381%	112	0	0	112
489	2027	Green Peter/Foster	Historical	115	3.657%	4	0	0	4

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	A	B	D	E	F	G	H	I	J
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
490	2027	Hills Creek	Historical	154	3.404%	5	0	0	5
491	2027	Hungry Horse Dam	Historical	1,425	4.109%	59	0	0	59
492	2027	Ice Harbor	Historical	3,770	4.204%	158	0	0	158
493	2027	John Day	Historical	8,857	3.668%	325	0	0	325
494	2027	Libby	Historical	1,774	4.751%	84	0	0	84
495	2027	Little Goose	Historical	3,280	4.346%	143	0	0	143
496	2027	Lookout Dam	Historical	311	3.396%	11	0	0	11
497	2027	Lost Creek	Historical	7	3.748%	0	0	0	0
498	2027	Lower Granite	Historical	6,858	4.355%	299	0	0	299
499	2027	Lower Monument	Historical	2,716	4.357%	118	0	0	118
500	2027	Lower Snake Fish and Wildlife	Historical	2,120	4.379%	93	0	0	93
501	2027	McNary	Historical	5,871	4.163%	244	0	0	244
502	2027	Minidoka/Palisades	Historical	7	3.381%	0	0	0	0
503	2027	RRP - Green Springs	Historical	3	3.299%	0	0	0	0
504	2027	The Dalles	Historical	3,681	4.668%	172	0	0	172
505	2027	Yakima Chandler/Kenniwick	Historical	15	4.377%	1	0	0	1
506	2027	Bureau Direct	Historical	329,247	2.898%	9,543	0	(1,628)	7,914
507	2027	Conservation	Historical	187,000	3.100%	5,797	0	(277)	5,520
508	2027	Fish and Wildlife	Historical	212,000	2.626%	5,567	0	(929)	4,638
509	2027	Replacements	Historical	2,051,534	5.070%	104,013	0	0	104,013
510	2027	Replacements	New	205,153	2.535%	5,201	0	0	5,201
511	2027	Float	Historical	-	-	(6,450)	0	0	(6,450)
512	**FY 2027**	**Subtotal:**		**4,281,241**		**177,026**	**0**	**(2,834)**	**174,192**
513	2028	Albeni Falls	Historical	57	4.375%	2	0	0	2
514	2028	Boise	Historical	64	4.876%	3	0	0	3
515	2028	Bonneville Dam	Historical	25,839	4.377%	1,131	0	0	1,131
516	2028	Chief Joseph	Historical	3,542	4.856%	172	0	0	172
517	2028	Columbia Basin	Historical	7,045	3.613%	255	0	0	255
518	2028	Columbia River Fish Mitigation	Historical	921,204	4.026%	37,088	0	0	37,088
519	2028	Cougar	Historical	4,509	2.945%	133	0	0	133
520	2028	Detroit Lake/Big Cliff	Historical	528	2.875%	15	0	0	15
521	2028	Dworshak	Historical	10	4.877%	0	0	0	0
522	2028	Green Peter/Foster	Historical	115	3.657%	4	0	0	4

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	A	B	D	E	F	G	H	I	J
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
523	2028	Hills Creek	Historical	154	3.404%	5	0	0	5
524	2028	Hungry Horse Dam	Historical	645	3.938%	25	0	0	25
525	2028	Ice Harbor	Historical	948	3.721%	35	0	0	35
526	2028	John Day	Historical	7,901	3.578%	283	0	0	283
527	2028	Libby	Historical	1,734	4.763%	83	0	0	83
528	2028	Little Goose	Historical	79	3.201%	3	0	0	3
529	2028	Lookout Dam	Historical	311	3.396%	11	0	0	11
530	2028	Lost Creek	Historical	7	3.748%	0	0	0	0
531	2028	Lower Granite	Historical	32	4.589%	1	0	0	1
532	2028	Lower Monument	Historical	99	3.514%	3	0	0	3
533	2028	Lower Snake Fish and Wildlife	Historical	196	4.176%	8	0	0	8
534	2028	McNary	Historical	1,791	3.394%	61	0	0	61
535	2028	Minidoka/Palisades	Historical	7	3.381%	0	0	0	0
536	2028	RRP - Green Springs	Historical	3	3.299%	0	0	0	0
537	2028	The Dalles	Historical	1,651	4.875%	80	0	0	80
538	2028	Yakima Chandler/Kenniwick	Historical	15	4.377%	1	0	0	1
539	2028	Bureau Direct	Historical	151,162	1.898%	2,869	0	(146)	2,724
540	2028	Conservation	Historical	95,000	3.210%	3,050	0	(593)	2,457
541	2028	Fish and Wildlife	Historical	102,961	2.251%	2,318	0	(97)	2,221
542	2028	Replacements	Historical	2,256,688	5.070%	114,414	0	0	114,414
543	2028	Replacements	New	205,153	2.535%	5,201	0	0	5,201
544	2028	Float	Historical	-	-	(6,702)	0	0	(6,702)
545	**FY 2028**	**Subtotal:**		**3,789,451**		**160,554**	**0**	**(836)**	**159,718**
546	2029	Albeni Falls	Historical	57	4.375%	2	0	0	2
547	2029	Boise	Historical	64	4.876%	3	0	0	3
548	2029	Bonneville Dam	Historical	14,609	4.875%	712	0	0	712
549	2029	Chief Joseph	Historical	3,500	4.875%	171	0	0	171
550	2029	Columbia Basin	Historical	2,173	4.567%	99	0	0	99
551	2029	Columbia River Fish Mitigation	Historical	402,949	4.534%	18,270	0	0	18,270
552	2029	Dworshak	Historical	10	4.877%	0	0	0	0
553	2029	Hungry Horse Dam	Historical	137	4.654%	6	0	0	6
554	2029	Ice Harbor	Historical	14	4.874%	1	0	0	1
555	2029	John Day	Historical	1,548	4.375%	68	0	0	68
556	2029	Libby	Historical	1,567	4.875%	76	0	0	76
557	2029	Little Goose	Historical	13	4.877%	1	0	0	1
558	2029	Lower Granite	Historical	24	4.875%	1	0	0	1
559	2029	Lower Monument	Historical	9	4.871%	0	0	0	0
560	2029	Lower Snake Fish and Wildlife	Historical	74	4.874%	4	0	0	4
561	2029	McNary	Historical	215	4.875%	10	0	0	10
562	2029	The Dalles	Historical	1,651	4.875%	80	0	0	80
563	2029	Yakima Chandler/Kenniwick	Historical	15	4.377%	1	0	0	1
564	2029	Bureau Direct	Historical	76,114	1.035%	788	0	(183)	605
565	2029	Fish and Wildlife	Historical	73,195	1.593%	1,166	0	(429)	737
566	2029	Replacements	Historical	2,461,841	4.372%	107,636	0	0	107,636
567	2029	Replacements	New	205,153	2.535%	5,201	0	0	5,201
568	2029	Float	Historical	-	-	(6,996)	0	0	(6,996)
569	**FY 2029**	**Subtotal:**		**3,244,933**		**127,301**	**0**	**(613)**	**126,688**
570	2030	Albeni Falls	Historical	57	4.375%	2	0	0	2
571	2030	Boise	Historical	64	4.876%	3	0	0	3
572	2030	Bonneville Dam	Historical	14,609	4.875%	712	0	0	712
573	2030	Chief Joseph	Historical	3,500	4.875%	171	0	0	171
574	2030	Columbia Basin	Historical	2,173	4.567%	99	0	0	99
575	2030	Columbia River Fish Mitigation	Historical	402,949	4.534%	18,270	0	0	18,270

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October 1, 2013 - September 30, 2016 Cost Evaluation Period
($000s) (FY 2016)

	A	B	D	E	F	G	H	I	J
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
576	2030	Dworshak	Historical	10	4.877%	0	0	0	0
577	2030	Hungry Horse Dam	Historical	137	4.654%	6	0	0	6
578	2030	Ice Harbor	Historical	14	4.874%	1	0	0	1
579	2030	John Day	Historical	1,548	4.375%	68	0	0	68
580	2030	Libby	Historical	1,567	4.875%	76	0	0	76
581	2030	Little Goose	Historical	13	4.877%	1	0	0	1
582	2030	Lower Granite	Historical	24	4.875%	1	0	0	1
583	2030	Lower Monument	Historical	9	4.871%	0	0	0	0
584	2030	Lower Snake Fish and Wildlife	Historical	74	4.874%	4	0	0	4
585	2030	McNary	Historical	215	4.875%	10	0	0	10
586	2030	The Dalles	Historical	1,651	4.875%	80	0	0	80
587	2030	Yakima Chandler/Kenniwick	Historical	15	4.377%	1	0	0	1
588	2030	Fish and Wildlife	Historical	14,000	0.879%	123	0	(83)	40
589	2030	Replacements	Historical	1,989,312	4.090%	81,359	0	0	81,359
590	2030	Replacements	New	205,153	2.535%	5,201	0	0	5,201
591	2030	Float	Historical	-	-	(6,632)	0	0	(6,632)
592	**FY 2030**	**Subtotal:**		**2,637,094**		**99,558**	**0**	**(83)**	**99,474**
593	2031	Albeni Falls	Historical	57	4.375%	2	0	0	2
594	2031	Boise	Historical	64	4.876%	3	0	0	3
595	2031	Bonneville Dam	Historical	14,609	4.875%	712	0	0	712
596	2031	Chief Joseph	Historical	3,500	4.875%	171	0	0	171
597	2031	Columbia Basin	Historical	2,173	4.567%	99	0	0	99
598	2031	Columbia River Fish Mitigation	Historical	402,949	4.534%	18,270	0	0	18,270
599	2031	Dworshak	Historical	10	4.877%	0	0	0	0
600	2031	Hungry Horse Dam	Historical	137	4.654%	6	0	0	6
601	2031	Ice Harbor	Historical	14	4.874%	1	0	0	1
602	2031	John Day	Historical	1,548	4.375%	68	0	0	68
603	2031	Libby	Historical	1,567	4.875%	76	0	0	76
604	2031	Little Goose	Historical	13	4.877%	1	0	0	1
605	2031	Lower Granite	Historical	24	4.875%	1	0	0	1
606	2031	Lower Monument	Historical	9	4.871%	0	0	0	0
607	2031	Lower Snake Fish and Wildlife	Historical	74	4.874%	4	0	0	4
608	2031	McNary	Historical	215	4.875%	10	0	0	10
609	2031	The Dalles	Historical	1,651	4.875%	80	0	0	80

TABLE 11C: Interest Calculation Summary
October 1, 2013 - September 30, 2016 Cost Evaluation Period
($000s) (FY 2016)

	A	B	D	E	F	G	H	I	J
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
610	2031	Yakima Chandler/Kenniwick	Historical	15	4.377%	1	0	0	1
611	2031	Replacements	Historical	1,425,277	3.619%	51,577	0	0	51,577
612	2031	Replacements	New	205,153	2.535%	5,201	0	0	5,201
613	2031	Float	Historical	-	-	(6,836)	0	0	(6,836)
614	**FY 2031**	**Subtotal:**		**2,059,060**		**69,448**	**0**	**0**	**69,448**
615	2032	Albeni Falls	Historical	57	4.375%	2	0	0	2
616	2032	Boise	Historical	64	4.876%	3	0	0	3
617	2032	Bonneville Dam	Historical	14,609	4.875%	712	0	0	712
618	2032	Chief Joseph	Historical	3,500	4.875%	171	0	0	171
619	2032	Columbia Basin	Historical	2,173	4.567%	99	0	0	99
620	2032	Columbia River Fish Mitigation	Historical	402,949	4.534%	18,270	0	0	18,270
621	2032	Dworshak	Historical	10	4.877%	0	0	0	0
622	2032	Hungry Horse Dam	Historical	137	4.654%	6	0	0	6
623	2032	Ice Harbor	Historical	14	4.874%	1	0	0	1
624	2032	John Day	Historical	1,548	4.375%	68	0	0	68
625	2032	Libby	Historical	1,567	4.875%	76	0	0	76
626	2032	Little Goose	Historical	13	4.877%	1	0	0	1
627	2032	Lower Granite	Historical	24	4.875%	1	0	0	1
628	2032	Lower Monument	Historical	9	4.871%	0	0	0	0
629	2032	Lower Snake Fish and Wildlife	Historical	74	4.874%	4	0	0	4
630	2032	McNary	Historical	215	4.875%	10	0	0	10
631	2032	The Dalles	Historical	1,651	4.875%	80	0	0	80
632	2032	Yakima Chandler/Kenniwick	Historical	15	4.377%	1	0	0	1
633	2032	Replacements	Historical	814,471	2.535%	20,647	0	0	20,647
634	2032	Replacements	New	205,153	2.535%	5,201	0	0	5,201
635	2032	Float	Historical	-	-	(7,381)	0	0	(7,381)
636	**FY 2032**	**Subtotal:**		**1,448,254**		**37,973**	**0**	**0**	**37,973**
637	2033	Albeni Falls	Historical	57	4.375%	2	0	0	2
638	2033	Boise	Historical	64	4.876%	3	0	0	3
639	2033	Bonneville Dam	Historical	14,609	4.875%	712	0	0	712
640	2033	Chief Joseph	Historical	3,500	4.875%	171	0	0	171
641	2033	Columbia Basin	Historical	2,173	4.567%	99	0	0	99
642	2033	Columbia River Fish Mitigation	Historical	402,949	4.534%	18,270	0	0	18,270
643	2033	Dworshak	Historical	10	4.877%	0	0	0	0
644	2033	Hungry Horse Dam	Historical	137	4.654%	6	0	0	6
645	2033	Ice Harbor	Historical	14	4.874%	1	0	0	1
646	2033	John Day	Historical	1,548	4.375%	68	0	0	68
647	2033	Libby	Historical	1,567	4.875%	76	0	0	76
648	2033	Little Goose	Historical	13	4.877%	1	0	0	1
649	2033	Lower Granite	Historical	24	4.875%	1	0	0	1
650	2033	Lower Monument	Historical	9	4.871%	0	0	0	0
651	2033	Lower Snake Fish and Wildlife	Historical	74	4.874%	4	0	0	4
652	2033	McNary	Historical	215	4.875%	10	0	0	10
653	2033	The Dalles	Historical	1,651	4.875%	80	0	0	80
654	2033	Yakima Chandler/Kenniwick	Historical	15	4.377%	1	0	0	1
655	2033	Replacements	Historical	205,153	2.535%	5,201	0	0	5,201
656	2033	Replacements	New	205,153	2.535%	5,201	0	0	5,201
657	2033	Float	Historical	-	-	(7,740)	0	0	(7,740)
658	**FY 2033**	**Subtotal:**		**838,936**		**22,168**	**0**	**0**	**22,168**
659	2034	Albeni Falls	Historical	57	4.375%	2	0	0	2
660	2034	Boise	Historical	64	4.876%	3	0	0	3
661	2034	Bonneville Dam	Historical	14,609	4.875%	712	0	0	712
662	2034	Chief Joseph	Historical	3,500	4.875%	171	0	0	171

TABLE 11C: Interest Calculation Summary
October 1, 2013 - September 30, 2016 Cost Evaluation Period
($000s) (FY 2016)

	A	B	D	E	F	G	H	I	J
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
663	2034	Columbia Basin	Historical	2,173	4.567%	99	0	0	99
664	2034	Columbia River Fish Mitigation	Historical	402,949	4.534%	18,270	0	0	18,270
665	2034	Dworshak	Historical	10	4.877%	0	0	0	0
666	2034	Hungry Horse Dam	Historical	137	4.654%	6	0	0	6
667	2034	Ice Harbor	Historical	14	4.874%	1	0	0	1
668	2034	John Day	Historical	1,548	4.375%	68	0	0	68
669	2034	Libby	Historical	1,567	4.875%	76	0	0	76
670	2034	Little Goose	Historical	13	4.877%	1	0	0	1
671	2034	Lower Granite	Historical	24	4.875%	1	0	0	1
672	2034	Lower Monument	Historical	9	4.871%	0	0	0	0
673	2034	Lower Snake Fish and Wildlife	Historical	74	4.874%	4	0	0	4
674	2034	McNary	Historical	215	4.875%	10	0	0	10
675	2034	The Dalles	Historical	1,651	4.875%	80	0	0	80
676	2034	Yakima Chandler/Kenniwick	Historical	15	4.377%	1	0	0	1
677	2034	Replacements	Historical	205,153	2.535%	5,201	0	0	5,201
678	2034	Replacements	New	205,153	2.535%	5,201	0	0	5,201
679	2034	Float	Historical	-	-	(7,700)	0	0	(7,700)
680	**FY 2034**	**Subtotal:**		**838,936**		**22,207**	**0**	**0**	**22,207**
681	2035	Albeni Falls	Historical	57	4.375%	2	0	0	2
682	2035	Boise	Historical	64	4.876%	3	0	0	3
683	2035	Bonneville Dam	Historical	14,609	4.875%	712	0	0	712
684	2035	Chief Joseph	Historical	3,500	4.875%	171	0	0	171
685	2035	Columbia Basin	Historical	2,173	4.567%	99	0	0	99

TABLE 11D: Application of Amortization
October 1, 2013 - September 30, 2016 Cost Evaluation Period
($000s) (FY 2016)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
1	2014	Construction (AS)	-	2/28/2014	9/30/2014	950	950	0.117%	0.117%					950				
2	2014	Bureau Direct	-	11/20/2013	9/30/2014	77,000	77,000	0.140%	0.140%					77,000				
3	2014	Construction (AS)	-	9/30/2009	9/30/2014	14,000	14,000	2.746%	2.746%					14,000				
4	2014	Conservation	-	9/30/2009	9/30/2014	15,000	15,000	2.746%	2.746%					15,000				
5	2014	Dworshak	Corps of Engineers	9/30/1973	9/30/2023	138,443	91,942	7.190%	7.190%					91,942				
6	2014	The Dalles	Corps of Engineers	9/30/1974	9/30/2024	7,268	7,240	7.170%	7.170%					7,240				
7	2014	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1975	9/30/2025	47,328	36,690	7.160%	7.160%					36,690				
8	2014	Libby	Corps of Engineers	9/30/1975	9/30/2025	54,644	48,138	7.160%	7.160%					48,138				
9	2014	Lower Granite	Corps of Engineers	9/30/1975	9/30/2025	119,237	117,645	7.160%	7.160%					117,645				
10	2014	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1975	9/30/2025	8,702	7,435	7.160%	7.160%					7,435				
11	2014	Lower Granite	Corps of Engineers	9/30/1976	9/30/2025	510	510	7.160%	7.160%					510				
12	2014	Lower Granite	Corps of Engineers	9/30/1977	9/30/2025	510	510	7.160%	7.160%					510				
13	2014	Lower Granite	Corps of Engineers	9/30/1978	9/30/2025	510	510	7.160%	7.160%					510				
14	2014	Lower Granite	Corps of Engineers	9/30/1979	9/30/2025	510	510	7.160%	7.160%					510				
15	2014	Lower Granite	Corps of Engineers	9/30/1980	9/30/2025	510	510	7.160%	7.160%					510				
16	2014	Lower Granite	Corps of Engineers	9/30/1981	9/30/2025	510	510	7.160%	7.160%					510				
17	2014	Lower Granite	Corps of Engineers	9/30/1982	9/30/2025	510	510	7.160%	7.160%					510				
18	2014	Lower Granite	Corps of Engineers	9/30/1983	9/30/2025	510	510	7.160%	7.160%					510				
19	2014	Lower Granite	Corps of Engineers	9/30/1985	9/30/2025	328	328	7.160%	7.160%					328				
20	2014	Lower Granite	Corps of Engineers	9/30/1986	9/30/2025	215	215	7.160%	7.160%					215				
21	2014	Lower Granite	Corps of Engineers	9/30/1987	9/30/2025	8	8	7.160%	7.160%					8				
22	2014	Lower Granite	Corps of Engineers	9/30/1995	9/30/2025	96	96	7.160%	7.160%					96				
23	2014	Libby	Corps of Engineers	9/30/1976	9/30/2026	153,432	153,432	7.150%	7.150%					6,808				
24		**FY 2014 Subtotal:**	**-**	**-**	**-**	**640,731**	**574,199**	**-**						**427,575**				
25	2015	Conservation	-	1/31/2010	1/31/2015	15,000	15,000	2.609%	2.609%					15,000				
26	2015	Conservation	-	4/30/2010	4/30/2015	20,000	20,000	2.677%	2.677%					20,000				
27	2015	Construction (AS)	-	8/31/2010	8/31/2015	5,000	5,000	1.619%	1.619%					5,000				
28	2015	Conservation	-	8/31/2010	8/31/2015	15,000	15,000	1.619%	1.619%					15,000				
29	2015	Conservation	-	6/20/2012	9/30/2015	15,000	15,000	0.671%	0.671%					15,000				
30	2015	Conservation	-	5/3/2012	9/30/2015	30,000	30,000	0.676%	0.676%					30,000				
31	2015	Conservation	-	9/30/2010	9/30/2015	10,000	10,000	1.534%	1.534%					10,000				
32	2015	Libby	Corps of Engineers	9/30/1976	9/30/2026	153,432	146,624	7.150%	7.150%					1,151				
33		**FY 2015 Subtotal:**	**-**	**-**	**-**	**263,432**	**256,624**	**-**						**111,151**				
34	2016	Construction (AS)	-	6/22/2011	6/30/2016	7,000	7,000	1.957%	1.957%					7,000				
35	2016	Construction (AS)	-	8/12/2011	8/31/2016	3,500	3,500	1.423%	1.423%					3,500				
36	2016	Libby	Corps of Engineers	9/30/1976	9/30/2026	153,432	145,473	7.150%	7.150%					95,156				
37		**FY 2016 Subtotal:**	**-**	**-**	**-**	**163,932**	**155,973**	**-**						**105,656**				
38	2017	Construction (AS)	-	6/20/2012	9/30/2015	7,700	7,700	0.671%	1.013%	Global	9/30/2015	9/30/2017	1.013%	7,700				
39	2017	Conservation	-	11/30/2012	11/30/2016	20,000	20,000	0.630%	0.630%					20,000				
40	2017	Construction (AS)	-	4/30/2013	4/30/2017	2,450	2,450	0.622%	0.622%					2,450				
41	2017	Construction (AS)	-	6/30/2013	6/30/2017	3,000	3,000	1.271%	1.271%					3,000				
42	2017	Construction (AS)	-	8/31/2013	8/31/2017	2,000	2,000	1.494%	1.494%					2,000				
43	2017	Ice Harbor	Corps of Engineers	9/30/1976	9/30/2026	20,472	20,472	7.150%	7.150%					18,432				
44	2017	Libby	Corps of Engineers	9/30/1976	9/30/2026	153,432	50,317	7.150%	7.150%					50,317				
45	2017	Ice Harbor	Corps of Engineers	9/30/1976	9/30/2026	228	228	7.150%	7.150%					228				
46		**FY 2017 Subtotal:**	**-**	**-**	**-**	**209,282**	**106,167**	**-**						**104,127**				
47	2018	Conservation	-	1/31/2013	1/31/2018	9,000	9,000	1.107%	1.107%					9,000				
48	2018	Ice Harbor	Corps of Engineers	9/30/1976	9/30/2026	20,472	2,040	7.150%	7.150%					2,040				
49	2018	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1976	9/30/2026	41,330	41,330	7.150%	7.150%					41,330				
50	2018	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1976	9/30/2026	8,037	8,037	7.150%	7.150%					8,037				
51	2018	Libby	Corps of Engineers	9/30/1977	9/30/2026	1,465	1,465	7.150%	7.150%					1,465				
52	2018	Libby	Corps of Engineers	9/30/1978	9/30/2026	1,465	1,465	7.150%	7.150%					1,465				
53	2018	Libby	Corps of Engineers	9/30/1979	9/30/2026	1,465	1,465	7.150%	7.150%					1,465				
54	2018	Libby	Corps of Engineers	9/30/1980	9/30/2026	1,465	1,465	7.150%	7.150%					1,465				
55	2018	Libby	Corps of Engineers	9/30/1981	9/30/2026	1,465	1,465	7.150%	7.150%					1,465				
56	2018	Libby	Corps of Engineers	9/30/1982	9/30/2026	1,465	1,465	7.150%	7.150%					1,465				

TABLE 11D: Application of Amortization
October 1, 2013 - September 30, 2016 Cost Evaluation Period
($000s) (FY 2016)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
57	2018	Libby	Corps of Engineers	9/30/1983	9/30/2026	1,465	1,465	7.150%	7.150%					1,465				
58	2018	Ice Harbor	Corps of Engineers	9/30/1985	9/30/2026	21	21	7.150%	7.150%					21				

TABLE 11D: Application of Amortization
October 1, 2013 - September 30, 2016 Cost Evaluation Period
($000s) (FY 2016)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
59	2018	Libby	Corps of Engineers	9/30/1985	9/30/2026	518	518	7.150%	7.150%					518				
60	2018	Libby	Corps of Engineers	9/30/1986	9/30/2026	283	283	7.150%	7.150%					283				
61	2018	Libby	Corps of Engineers	9/30/1987	9/30/2026	2	2	7.150%	7.150%					2				
62	2018	Libby	Corps of Engineers	9/30/1989	9/30/2026	1	1	7.150%	7.150%					1				
63	2018	Columbia Basin	Bureau of Reclamation	9/30/1996	9/30/2026	72	72	7.150%	7.150%					72				
64	2018	McNary	Corps of Engineers	9/30/1996	9/30/2026	74	74	7.150%	7.150%					74				
65	2018	McNary	Corps of Engineers	9/30/1996	9/30/2026	277	277	7.150%	7.150%					277				
66	2018	Lost Creek	Corps of Engineers	9/30/1977	9/30/2027	14,293	14,201	7.150%	7.150%					14,201				
67	2018	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1977	9/30/2027	42,764	42,764	7.150%	7.150%					24,787				
68	2018	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1977	9/30/2027	7,964	7,964	7.150%	7.150%					7,964				
69		**FY 2018 Subtotal:**	**-**	**-**	**-**	**155,363**	**136,840**	**-**						**118,863**				
70	2019	Bureau Direct	-	10/31/2009	10/31/2018	24,000	24,000	3.719%	3.719%					24,000				
71	2019	Construction (AS)	-	11/30/2012	11/30/2018	5,250	5,250	1.109%	1.109%					5,250				
72	2019	Fish and Wildlife	-	12/31/2009	12/31/2018	26,000	26,000	4.069%	4.069%					26,000				
73	2019	Bureau Direct	-	1/16/2014	12/31/2018	43,000	43,000	1.943%	1.943%					43,000				
74	2019	Bureau Direct	-	1/16/2014	12/31/2018	38,000	38,000	1.943%	1.943%					38,000				
75	2019	Bureau Direct	-	1/16/2014	12/31/2018	26,000	26,000	1.943%	1.943%					26,000				
76	2019	Bureau Direct	-	1/16/2014	12/31/2018	21,000	21,000	1.943%	1.943%					21,000				
77	2019	Bureau Direct	-	1/16/2014	12/31/2018	14,000	14,000	1.943%	1.943%					14,000				
78	2019	Bureau Direct	-	1/31/2010	1/31/2019	10,000	10,000	3.714%	3.714%					10,000				
79	2019	Fish and Wildlife	-	8/31/2010	8/31/2019	20,000	20,000	2.646%	2.646%					20,000				
80	2019	Bureau Direct	-	9/30/2009	9/30/2019	25,000	25,000	3.699%	3.699%					25,000				
81	2019	Bonneville Dam	Corps of Engineers	9/30/1977	9/30/2027	15,670	15,670	7.150%	7.150%					15,670				
82	2019	Chief Joseph	Corps of Engineers	9/30/1977	9/30/2027	30,512	30,512	7.150%	7.150%					30,512				
83	2019	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1977	9/30/2027	42,764	17,977	7.150%	7.150%					17,977				
84	2019	Lost Creek	Corps of Engineers	9/30/1978	9/30/2027	58	58	7.150%	7.150%					58				
85	2019	Lost Creek	Corps of Engineers	9/30/1979	9/30/2027	60	60	7.150%	7.150%					60				
86	2019	Lost Creek	Corps of Engineers	9/30/1980	9/30/2027	60	60	7.150%	7.150%					60				
87	2019	Lost Creek	Corps of Engineers	9/30/1981	9/30/2027	60	60	7.150%	7.150%					60				
88	2019	Lost Creek	Corps of Engineers	9/30/1982	9/30/2027	60	60	7.150%	7.150%					60				
89	2019	Lost Creek	Corps of Engineers	9/30/1983	9/30/2027	60	60	7.150%	7.150%					60				
90	2019	Lost Creek	Corps of Engineers	9/30/1985	9/30/2027	12	12	7.150%	7.150%					12				
91	2019	Lost Creek	Corps of Engineers	9/30/1986	9/30/2027	6	6	7.150%	7.150%					6				
92	2019	Lost Creek	Corps of Engineers	9/30/1987	9/30/2027	4	4	7.150%	7.150%					4				
93	2019	Lower Granite	Corps of Engineers	9/30/1978	9/30/2028	40,611	40,611	7.150%	7.150%					18,639				
94		**FY 2019 Subtotal:**	**-**	**-**	**-**	**382,187**	**357,400**	**-**						**335,428**				
95	2020	Construction (AS)	-	10/31/2013	10/31/2019	4,200	4,200	2.039%	2.039%					4,200				
96	2020	Construction (AS)	-	10/31/2013	10/31/2019	5,000	5,000	2.039%	2.039%					5,000				
97	2020	Bureau Direct	-	10/31/2009	10/31/2019	20,000	20,000	3.842%	3.842%					20,000				
98	2020	Bureau Direct	-	11/30/2009	11/30/2019	7,000	7,000	3.637%	3.637%					7,000				
99	2020	Bureau Direct	-	12/31/2009	12/31/2019	13,000	13,000	4.194%	4.194%					13,000				
100	2020	Construction (AS)	-	1/31/2014	1/31/2020	1,750	1,750	2.183%	2.183%					1,750				
101	2020	Construction (AS)	-	1/31/2014	1/31/2020	2,000	2,000	2.183%	2.183%					2,000				
102	2020	Construction (AS)	-	4/30/2014	3/31/2020	1,400	1,400	1.757%	1.757%					1,400				
103	2020	Construction (AS)	-	4/30/2014	3/31/2020	2,000	2,000	1.757%	1.757%					2,000				
104	2020	Bureau Direct	-	3/31/2010	3/31/2020	30,000	30,000	4.083%	4.083%					30,000				
105	2020	Bureau Direct	-	4/30/2010	4/30/2020	18,000	18,000	3.973%	3.973%					18,000				
106	2020	Construction (AS)	-	5/31/2014	4/30/2020	700	700	1.757%	1.757%					700				
107	2020	Bureau Direct	-	5/31/2010	5/31/2020	15,000	15,000	3.574%	3.574%					15,000				
108	2020	Bureau Direct	-	6/30/2010	6/30/2020	10,000	10,000	3.243%	3.243%					10,000				
109	2020	Bureau Direct	-	6/30/2010	6/30/2020	30,000	30,000	3.243%	3.243%					30,000				
110	2020	Bureau Direct	-	7/31/2010	7/31/2020	17,000	17,000	3.118%	3.118%					17,000				
111	2020	Construction (AS)	-	7/31/2014	7/31/2020	1,050	1,050	1.757%	1.757%					1,050				
112	2020	Construction (AS)	-	8/31/2014	8/31/2020	1,090	1,090	1.757%	1.757%					1,090				

TABLE 11D: Application of Amortization
October 1, 2013 - September 30, 2016 Cost Evaluation Period
($000s) (FY 2016)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
113	2020	Bureau Direct	-	11/20/2013	9/30/2020	51,000	51,000	2.473%	2.473%					51,000				
114	2020	Construction (AS)	-	9/30/2014	9/30/2020	2,220	2,220	1.757%	1.757%					2,220				
115	2020	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1978	9/30/2028	42,399	42,399	7.150%	7.150%					10,486				
116	2020	Little Goose	Corps of Engineers	9/30/1978	9/30/2028	49,578	49,578	7.150%	7.150%					49,578				
117	2020	Lower Granite	Corps of Engineers	9/30/1978	9/30/2028	40,611	21,972	7.150%	7.150%					21,972				
118	2020	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1978	9/30/2028	7,896	7,896	7.150%	7.150%					7,896				
119		**FY 2020 Subtotal:**	**-**	**-**	**-**	**372,894**	**354,255**	**-**						**322,342**				
120	2021	Construction (AS)	-	10/31/2014	10/31/2020	700	700	1.757%	1.757%					700				
121	2021	Construction (AS)	-	10/31/2014	10/31/2020	3,000	3,000	1.757%	1.757%					3,000				
122	2021	Construction (AS)	-	11/30/2014	11/30/2020	700	700	2.530%	2.530%					700				
123	2021	Construction (AS)	-	11/30/2014	11/30/2020	4,000	4,000	1.757%	1.757%					4,000				
124	2021	Construction (AS)	-	12/31/2014	12/31/2020	700	700	2.530%	2.530%					700				
125	2021	Construction (AS)	-	1/31/2015	1/31/2021	350	350	2.530%	2.530%					350				
126	2021	Bureau Direct	-	1/31/2009	1/31/2021	25,000	25,000	3.999%	3.999%					25,000				
127	2021	Construction (AS)	-	2/28/2015	2/28/2021	700	700	2.530%	2.530%					700				
128	2021	Construction (AS)	-	3/31/2015	3/31/2021	700	700	2.530%	2.530%					700				
129	2021	Construction (AS)	-	4/30/2015	4/30/2021	700	700	2.530%	2.530%					700				
130	2021	Construction (AS)	-	5/31/2015	5/31/2021	700	700	2.530%	2.530%					700				
131	2021	Construction (AS)	-	6/30/2015	6/30/2021	700	700	2.530%	2.530%					700				
132	2021	Construction (AS)	-	7/31/2015	7/31/2021	700	700	2.530%	2.530%					700				
133	2021	Construction (AS)	-	8/31/2015	8/31/2021	700	700	2.530%	2.530%					700				
134	2021	Bureau Direct	-	11/20/2013	9/30/2021	50,000	50,000	2.812%	2.812%					50,000				
135	2021	Construction (AS)	-	9/30/2015	9/30/2021	1,400	1,400	2.530%	2.530%					1,400				
136	2021	Bureau Direct	-	9/30/2010	9/30/2021	22,000	22,000	2.883%	2.883%					22,000				
137	2021	Chief Joseph	Corps of Engineers	9/30/1978	9/30/2028	75,669	75,669	7.150%	7.150%					75,669				
138	2021	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1978	9/30/2028	42,399	31,913	7.150%	7.150%					31,913				
139	2021	Little Goose	Corps of Engineers	9/30/1985	9/30/2028	47	47	7.150%	7.150%					47				
140	2021	Lower Monument	Corps of Engineers	9/30/1979	9/30/2029	40,669	40,669	7.150%	7.150%					40,669				
141	2021	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1979	9/30/2029	84,118	84,118	7.150%	7.150%					79,033				
142	2021	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1979	9/30/2029	15,666	15,666	7.150%	7.150%					15,666				
143		**FY 2021 Subtotal:**	**-**	**-**	**-**	**371,318**	**360,832**	**-**						**355,747**				
144	2022	Construction (AS)	-	10/31/2015	10/31/2021	3,000	3,000	3.470%	3.470%					3,000				
145	2022	Construction (AS)	-	10/31/2015	10/31/2021	700	700	3.470%	3.470%					700				
146	2022	Construction (AS)	-	11/30/2015	11/30/2021	3,000	3,000	3.470%	3.470%					3,000				
147	2022	Construction (AS)	-	11/30/2015	11/30/2021	700	700	3.470%	3.470%					700				
148	2022	Conservation	-	12/31/2013	12/31/2021	6,000	6,000	3.142%	3.142%					6,000				
149	2022	Construction (AS)	-	12/31/2015	12/31/2021	700	700	3.470%	3.470%					700				
150	2022	Construction (AS)	-	1/31/2016	1/31/2022	700	700	3.470%	3.470%					700				
151	2022	Construction (AS)	-	2/28/2016	2/28/2022	700	700	3.470%	3.470%					700				
152	2022	Construction (AS)	-	3/31/2016	3/31/2022	700	700	3.470%	3.470%					700				
153	2022	Construction (AS)	-	4/30/2016	4/30/2022	700	700	3.470%	3.470%					700				
154	2022	Construction (AS)	-	5/31/2016	5/31/2022	700	700	3.470%	3.470%					700				
155	2022	Construction (AS)	-	6/30/2016	6/30/2022	1,050	1,050	3.470%	3.470%					1,050				
156	2022	Construction (AS)	-	7/31/2016	7/31/2022	700	700	3.470%	3.470%					700				
157	2022	Construction (AS)	-	8/31/2016	8/31/2022	700	700	3.470%	3.470%					700				
158	2022	Bureau Direct	-	11/20/2013	9/30/2022	19,000	19,000	3.125%	3.125%					19,000				
159	2022	Fish and Wildlife	-	11/20/2013	9/30/2022	31,000	31,000	3.125%	3.125%					31,000				
160	2022	Construction (AS)	-	9/30/2016	9/30/2022	1,750	1,750	3.470%	3.470%					1,750				
161	2022	Chief Joseph	Corps of Engineers	9/30/1979	9/30/2029	60,079	60,079	7.150%	7.150%					60,079				
162	2022	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1979	9/30/2029	84,118	5,085	7.150%	7.150%					5,085				
163	2022	Chief Joseph	Corps of Engineers	9/30/1985	9/30/2029	16,372	16,372	7.150%	7.150%					16,372				
164	2022	Lower Monument	Corps of Engineers	9/30/1985	9/30/2029	256	256	7.150%	7.150%					256				
165	2022	Chief Joseph	Corps of Engineers	9/30/1986	9/30/2029	5,363	5,363	7.150%	7.150%					5,363				
166	2022	Chief Joseph	Corps of Engineers	9/30/1987	9/30/2029	3,036	3,036	7.150%	7.150%					3,036				
167	2022	Chief Joseph	Corps of Engineers	9/30/1988	9/30/2029	2,722	2,722	7.150%	7.150%					2,722				
168	2022	Chief Joseph	Corps of Engineers	9/30/1989	9/30/2029	2,227	2,227	7.150%	7.150%					2,227				

TABLE 11D: Application of Amortization
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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
169	2022	Chief Joseph	Corps of Engineers	9/30/1990	9/30/2029	4,505	4,505	7.150%	7.150%					4,505				
170	2022	Libby	Corps of Engineers	9/30/1994	9/30/2029	286	152	7.150%	7.150%					152				

TABLE 11D: Application of Amortization
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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
171	2022	Lower Granite	Corps of Engineers	9/30/1994	9/30/2029	3,543	1,551	7.150%	7.150%					1,551				
172	2022	Dworshak	Corps of Engineers	9/30/1995	9/30/2030	218	218	7.150%	7.150%					218				
173	2022	Libby	Corps of Engineers	9/30/1995	9/30/2030	15	15	7.150%	7.150%					15				
174	2022	Hungry Horse Dam	Bureau of Reclamation	9/30/1995	9/30/2030	536	536	7.150%	7.150%					536				
175	2022	Libby	Corps of Engineers	9/30/1995	9/30/2030	41	41	7.150%	7.150%					41				
176	2022	Hungry Horse Dam	Bureau of Reclamation	9/30/1995	9/30/2030	1,198	1,195	7.150%	7.150%					1,195				
177	2022	Libby	Corps of Engineers	9/30/1995	9/30/2030	94	94	7.150%	7.150%					94				
178	2022	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1981	9/30/2031	40,964	40,964	7.150%	7.150%					40,964				
179	2022	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1981	9/30/2031	455	455	7.150%	7.150%					455				
180	2022	Ice Harbor	Corps of Engineers	9/30/1996	9/30/2031	78	78	7.150%	7.150%					78				
181	2022	Columbia Basin	Bureau of Reclamation	9/30/1996	9/30/2031	109	109	7.150%	7.150%					109				
182	2022	Lost Creek	Corps of Engineers	9/30/1996	9/30/2031	31	31	7.150%	7.150%					31				
183	2022	Lower Granite	Corps of Engineers	9/30/1996	9/30/2031	206	206	7.150%	7.150%					206				
184	2022	Bonneville Dam	Corps of Engineers	9/30/1996	9/30/2031	22	22	7.150%	7.150%					22				
185	2022	Chief Joseph	Corps of Engineers	9/30/1996	9/30/2031	27	27	7.150%	7.150%					27				
186	2022	Columbia Basin	Bureau of Reclamation	9/30/1996	9/30/2031	251	251	7.150%	7.150%					251				
187	2022	Dworshak	Corps of Engineers	9/30/1996	9/30/2031	6	6	7.150%	7.150%					6				
188	2022	Dworshak	Corps of Engineers	9/30/1996	9/30/2031	203	203	7.150%	7.150%					203				
189	2022	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1982	9/30/2032	203,535	203,535	7.150%	7.150%					136,750				
190	2022	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1982	9/30/2032	2,264	2,264	7.150%	7.150%					2,264				
191		**FY 2022 Subtotal:**	**-**	**-**	**-**	**504,560**	**423,398**	**-**						**356,613**				
192	2023	Conservation	-	1/31/2011	1/31/2023	40,000	40,000	4.046%	4.046%					40,000				
193	2023	Bureau Direct	-	4/30/2009	4/30/2023	25,000	25,000	4.391%	4.391%					25,000				
194	2023	Conservation	-	4/30/2011	4/30/2023	35,000	35,000	3.932%	3.932%					35,000				
195	2023	Conservation	-	8/12/2011	8/31/2023	40,000	40,000	3.206%	3.206%					40,000				
196	2023	Conservation	-	11/20/2013	9/30/2023	27,000	27,000	3.375%	3.375%					27,000				
197	2023	Fish and Wildlife	-	11/20/2013	9/30/2023	23,000	23,000	3.375%	3.375%					23,000				
198	2023	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1982	9/30/2032	203,535	66,785	7.150%	7.150%					66,785				
199	2023	Chief Joseph	Corps of Engineers	9/30/1997	9/30/2032	166	166	7.150%	7.150%					166				
200	2023	McNary	Corps of Engineers	9/30/1997	9/30/2032	30	30	7.150%	7.150%					30				
201	2023	Bonneville Dam	Corps of Engineers	9/30/1997	9/30/2032	518	518	7.150%	7.150%					518				
202	2023	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1983	9/30/2033	62,409	62,409	7.150%	7.150%					62,409				
203	2023	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/1983	9/30/2033	30,488	9,472	7.150%	7.150%					9,472				
204	2023	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1983	9/30/2033	694	694	7.150%	7.150%					694				
205	2023	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1983	9/30/2033	712	712	7.150%	7.150%					712				
206	2023	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1983	9/30/2033	13,003	13,003	7.150%	7.150%					13,003				
207	2023	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1984	9/30/2033	16,965	16,965	7.150%	7.150%					12,489				
208	2023	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1984	9/30/2033	13,192	13,192	7.150%	7.150%					13,192				
209	2023	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1984	9/30/2033	3,160	3,160	7.150%	7.150%					3,160				
210		**FY 2023 Subtotal:**	**-**	**-**	**-**	**534,872**	**377,107**	**-**						**372,630**				
211	2024	Conservation	-	12/31/2013	12/31/2023	55,000	55,000	1.757%	1.757%					55,000				
212	2024	Conservation	-	5/31/2014	4/30/2024	15,000	15,000	1.757%	1.757%					15,000				
213	2024	Fish and Wildlife	-	6/30/2009	6/30/2024	20,000	20,000	4.556%	4.556%					20,000				
214	2024	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1984	9/30/2033	16,965	4,476	7.150%	7.150%					4,476				
215	2024	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1985	9/30/2033	9,138	9,138	7.150%	7.150%					9,138				
216	2024	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1985	9/30/2033	2,060	2,060	7.150%	7.150%					2,060				
217	2024	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1985	9/30/2033	41,772	41,772	7.150%	7.150%					41,772				
218	2024	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1985	9/30/2033	107	107	7.150%	7.150%					107				
219	2024	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1986	9/30/2033	30,578	30,578	7.150%	7.150%					30,578				
220	2024	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1986	9/30/2033	1,851	1,851	7.150%	7.150%					1,851				
221	2024	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1986	9/30/2033	15,538	15,538	7.150%	7.150%					15,538				
222	2024	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1987	9/30/2033	2,801	2,801	7.150%	7.150%					2,801				
223	2024	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1987	9/30/2033	1,730	1,730	7.150%	7.150%					1,730				
224	2024	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1987	9/30/2033	14,439	14,439	7.150%	7.150%					14,439				
225	2024	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1988	9/30/2033	1,271	1,271	7.150%	7.150%					1,271				
226	2024	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1988	9/30/2033	2,294	2,294	7.150%	7.150%					2,294				

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
227	2024	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1988	9/30/2033	4,351	4,351	7.150%	7.150%					4,351				
228	2024	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1989	9/30/2033	1,232	1,232	7.150%	7.150%					1,232				
229	2024	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1989	9/30/2033	10,902	10,902	7.150%	7.150%					10,902				
230	2024	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1990	9/30/2033	1,588	1,588	7.150%	7.150%					1,588				
231	2024	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1990	9/30/2033	6,383	6,383	7.150%	7.150%					6,383				
232	2024	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/1985	9/30/2035	47,921	47,921	7.150%	7.150%					47,921				
233	2024	John Day	Corps of Engineers	9/30/1995	9/30/2035	22	22	7.150%	7.150%					22				
234	2024	John Day	Corps of Engineers	9/30/1995	9/30/2035	52	52	7.150%	7.150%					52				
235	2024	John Day	Corps of Engineers	9/30/1995	9/30/2035	121	121	7.150%	7.150%					121				
236	2024	Lower Monument	Corps of Engineers	9/30/1996	9/30/2036	264	264	7.150%	7.150%					264				
237	2024	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/1987	9/30/2037	72,536	72,536	7.150%	7.150%					72,536				
238	2024	Libby	Corps of Engineers	9/30/1988	9/30/2038	18,043	14,781	7.150%	7.150%					14,781				
239	2024	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/1988	9/30/2038	805	805	7.150%	7.150%					805				
240	2024	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/1990	9/30/2040	1,557	1,557	7.150%	7.150%					1,557				
241	2024	Little Goose	Corps of Engineers	9/30/1995	9/30/2040	17	17	7.150%	7.150%					17				
242	2024	Little Goose	Corps of Engineers	9/30/1995	9/30/2040	450	450	7.150%	7.150%					450				
243	2024	Little Goose	Corps of Engineers	9/30/1995	9/30/2040	733	733	7.150%	7.150%					733				
244	2024	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/1991	9/30/2041	4,411	4,411	7.150%	7.150%					4,411				
245	2024	Ice Harbor	Corps of Engineers	9/30/1996	9/30/2041	371	371	7.150%	7.150%					371				
246	2024	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/1993	9/30/2043	71,632	71,632	7.150%	7.150%					49,123				
247		**FY 2024 Subtotal:**	**-**	**-**	**-**	**473,935**	**458,184**	**-**						**435,676**				
248	2025	Conservation	-	6/30/2014	10/31/2024	5,000	5,000	1.757%	1.757%					5,000				
249	2025	Conservation	-	5/31/2014	4/30/2025	3,000	3,000	1.757%	1.757%					3,000				
250	2025	Conservation	-	4/30/2014	6/30/2025	30,000	30,000	1.757%	1.757%					30,000				
251	2025	Conservation	-	7/31/2014	7/31/2025	12,000	12,000	1.757%	1.757%					12,000				
252	2025	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/1993	9/30/2043	71,632	22,509	7.150%	7.150%					22,509				
253	2025	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1994	9/30/2044	5,700	5,700	7.150%	7.150%					5,700				
254	2025	Chief Joseph	Corps of Engineers	9/30/1994	9/30/2044	4,280	4,017	7.150%	7.150%					4,017				
255	2025	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/1994	9/30/2044	4,722	4,722	7.150%	7.150%					4,722				
256	2025	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1994	9/30/2044	12,631	12,631	7.150%	7.150%					12,631				
257	2025	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1995	9/30/2045	3,791	3,791	7.150%	7.150%					3,791				
258	2025	Columbia River Fish Mitigation	Corps of Engineers	9/30/1995	9/30/2045	43,343	39,282	7.150%	7.150%					39,282				
259	2025	Detroit Lake/Big Cliff	Corps of Engineers	9/30/1995	9/30/2045	38	38	7.150%	7.150%					38				
260	2025	Lookout Dam	Corps of Engineers	9/30/1995	9/30/2045	80	39	7.150%	7.150%					39				
261	2025	Lost Creek	Corps of Engineers	9/30/1995	9/30/2045	94	94	7.150%	7.150%					94				
262	2025	Lower Monument	Corps of Engineers	9/30/1995	9/30/2045	41	41	7.150%	7.150%					41				
263	2025	McNary	Corps of Engineers	9/30/1995	9/30/2045	16	16	7.150%	7.150%					16				
264	2025	Albeni Falls	Corps of Engineers	9/30/1995	9/30/2045	443	443	7.150%	7.150%					443				
265	2025	Chief Joseph	Corps of Engineers	9/30/1995	9/30/2045	147	147	7.150%	7.150%					147				
266	2025	Dworshak	Corps of Engineers	9/30/1995	9/30/2045	1,162	1,162	7.150%	7.150%					1,162				
267	2025	John Day	Corps of Engineers	9/30/1995	9/30/2045	37	37	7.150%	7.150%					37				
268	2025	Lookout Dam	Corps of Engineers	9/30/1995	9/30/2045	33	33	7.150%	7.150%					33				
269	2025	Lower Monument	Corps of Engineers	9/30/1995	9/30/2045	99	99	7.150%	7.150%					99				
270	2025	Albeni Falls	Corps of Engineers	9/30/1995	9/30/2045	531	531	7.150%	7.150%					531				
271	2025	Chief Joseph	Corps of Engineers	9/30/1995	9/30/2045	562	562	7.150%	7.150%					562				
272	2025	Lower Monument	Corps of Engineers	9/30/1995	9/30/2045	624	624	7.150%	7.150%					624				
273	2025	Albeni Falls	Corps of Engineers	9/30/1995	9/30/2045	1,105	1,105	7.150%	7.150%					1,105				
274	2025	Bonneville Dam	Corps of Engineers	9/30/1995	9/30/2045	243	243	7.150%	7.150%					243				
275	2025	Chief Joseph	Corps of Engineers	9/30/1995	9/30/2045	712	712	7.150%	7.150%					712				
276	2025	Columbia Basin	Bureau of Reclamation	9/30/1995	9/30/2045	287	287	7.150%	7.150%					287				
277	2025	Hungry Horse Dam	Bureau of Reclamation	9/30/1995	9/30/2045	6,190	6,190	7.150%	7.150%					6,190				
278	2025	Lower Monument	Corps of Engineers	9/30/1995	9/30/2045	1,122	1,122	7.150%	7.150%					1,122				
279	2025	Bonneville Dam	Corps of Engineers	9/30/1995	9/30/2045	410	410	7.150%	7.150%					410				
280	2025	Chief Joseph	Corps of Engineers	9/30/1995	9/30/2045	784	784	7.150%	7.150%					784				
281	2025	Columbia Basin	Bureau of Reclamation	9/30/1995	9/30/2045	2,511	2,453	7.150%	7.150%					2,453				
282	2025	Bonneville Dam	Corps of Engineers	9/30/1995	9/30/2045	440	440	7.150%	7.150%					440				

TABLE 11D: Application of Amortization
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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
283	2025	John Day	Corps of Engineers	9/30/1995	9/30/2045	608	608	7.150%	7.150%					608				
284	2025	John Day	Corps of Engineers	9/30/1995	9/30/2045	7,653	7,653	7.150%	7.150%					7,653				
285	2025	Boise	Bureau of Reclamation	9/30/1996	9/30/2046	442	442	7.150%	7.150%					442				
286	2025	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1996	9/30/2046	376	376	7.150%	7.150%					376				
287	2025	Bonneville Dam	Corps of Engineers	9/30/1996	9/30/2046	18	18	7.150%	7.150%					18				
288	2025	Chief Joseph	Corps of Engineers	9/30/1996	9/30/2046	3	3	7.150%	7.150%					3				
289	2025	Columbia River Fish Mitigation	Corps of Engineers	9/30/1996	9/30/2046	2,431	2,431	7.150%	7.150%					2,431				
290	2025	Dworshak	Corps of Engineers	9/30/1996	9/30/2046	3	3	7.150%	7.150%					3				
291	2025	Green Peter/Foster	Corps of Engineers	9/30/1996	9/30/2046	26	26	7.150%	7.150%					26				
292	2025	Hills Creek	Corps of Engineers	9/30/1996	9/30/2046	28	28	7.150%	7.150%					28				
293	2025	Hungry Horse Dam	Bureau of Reclamation	9/30/1996	9/30/2046	15	15	7.150%	7.150%					15				
294	2025	Little Goose	Corps of Engineers	9/30/1996	9/30/2046	10	10	7.150%	7.150%					10				
295	2025	Lost Creek	Corps of Engineers	9/30/1996	9/30/2046	24	24	7.150%	7.150%					24				
296	2025	Lower Granite	Corps of Engineers	9/30/1996	9/30/2046	9	9	7.150%	7.150%					9				
297	2025	Lower Monument	Corps of Engineers	9/30/1996	9/30/2046	10	10	7.150%	7.150%					10				
298	2025	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/1996	9/30/2046	12,085	12,085	7.150%	7.150%					12,085				
299	2025	Bonneville Dam	Corps of Engineers	9/30/1996	9/30/2046	18	18	7.150%	7.150%					18				
300	2025	Chief Joseph	Corps of Engineers	9/30/1996	9/30/2046	4	4	7.150%	7.150%					4				
301	2025	Dworshak	Corps of Engineers	9/30/1996	9/30/2046	4	4	7.150%	7.150%					4				
302	2025	Hungry Horse Dam	Bureau of Reclamation	9/30/1996	9/30/2046	2	2	7.150%	7.150%					2				
303	2025	Little Goose	Corps of Engineers	9/30/1996	9/30/2046	10	10	7.150%	7.150%					10				
304	2025	Boise	Bureau of Reclamation	9/30/1996	9/30/2046	656	656	7.150%	7.150%					656				
305	2025	Little Goose	Corps of Engineers	9/30/1996	9/30/2046	211	211	7.150%	7.150%					211				
306	2025	The Dalles	Corps of Engineers	9/30/1996	9/30/2046	1,991	1,991	7.150%	7.150%					1,991				
307	2025	Bonneville Dam	Corps of Engineers	9/30/1996	9/30/2046	80	80	7.150%	7.150%					80				
308	2025	Chief Joseph	Corps of Engineers	9/30/1996	9/30/2046	355	355	7.150%	7.150%					355				
309	2025	Columbia Basin	Bureau of Reclamation	9/30/1996	9/30/2046	426	426	7.150%	7.150%					426				
310	2025	Little Goose	Corps of Engineers	9/30/1996	9/30/2046	241	241	7.150%	7.150%					241				
311	2025	Lower Granite	Corps of Engineers	9/30/1996	9/30/2046	625	625	7.150%	7.150%					625				
312	2025	McNary	Corps of Engineers	9/30/1996	9/30/2046	619	619	7.150%	7.150%					619				
313	2025	Bonneville Dam	Corps of Engineers	9/30/1996	9/30/2046	109	109	7.150%	7.150%					109				
314	2025	Chief Joseph	Corps of Engineers	9/30/1996	9/30/2046	729	729	7.150%	7.150%					729				
315	2025	Columbia Basin	Bureau of Reclamation	9/30/1996	9/30/2046	368	368	7.150%	7.150%					368				
316	2025	Dworshak	Corps of Engineers	9/30/1996	9/30/2046	46	46	7.150%	7.150%					46				
317	2025	Little Goose	Corps of Engineers	9/30/1996	9/30/2046	520	520	7.150%	7.150%					520				
318	2025	Bonneville Dam	Corps of Engineers	9/30/1996	9/30/2046	142	142	7.150%	7.150%					142				
319	2025	Little Goose	Corps of Engineers	9/30/1996	9/30/2046	3,909	3,909	7.150%	7.150%					3,909				
320	2025	Bonneville Dam	Corps of Engineers	9/30/1996	9/30/2046	223	223	7.150%	7.150%					223				
321	2025	Bonneville Dam	Corps of Engineers	9/30/1996	9/30/2046	751	751	7.150%	7.150%					751				
322	2025	Bonneville Dam	Corps of Engineers	9/30/1996	9/30/2046	1,322	1,322	7.150%	7.150%					1,322				
323	2025	Albeni Falls	Corps of Engineers	9/30/1997	9/30/2047	431	431	7.150%	7.150%					431				
324	2025	Columbia Basin	Bureau of Reclamation	9/30/1997	9/30/2047	3,393	3,393	7.150%	7.150%					3,393				
325	2025	Cougar	Corps of Engineers	9/30/1997	9/30/2047	26	26	7.150%	7.150%					26				
326	2025	Dworshak	Corps of Engineers	9/30/1997	9/30/2047	7,588	7,588	7.150%	7.150%					7,588				
327	2025	Little Goose	Corps of Engineers	9/30/1997	9/30/2047	1	1	7.150%	7.150%					1				
328	2025	Lower Granite	Corps of Engineers	9/30/1997	9/30/2047	677	677	7.150%	7.150%					677				
329	2025	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/1997	9/30/2047	2,173	2,173	7.150%	7.150%					2,173				
330	2025	Boise	Bureau of Reclamation	9/30/1997	9/30/2047	2,266	2,266	7.150%	7.150%					2,266				
331	2025	Chief Joseph	Corps of Engineers	9/30/1997	9/30/2047	657	657	7.150%	7.150%					657				
332	2025	Hungry Horse Dam	Bureau of Reclamation	9/30/1997	9/30/2047	111	111	7.150%	7.150%					111				
333	2025	Ice Harbor	Corps of Engineers	9/30/1997	9/30/2047	67	67	7.150%	7.150%					67				
334	2025	John Day	Corps of Engineers	9/30/1997	9/30/2047	179	179	7.150%	7.150%					179				
335	2025	Libby	Corps of Engineers	9/30/1997	9/30/2047	660	660	7.150%	7.150%					660				
336	2025	Minidoka/Palisades	Bureau of Reclamation	9/30/1997	9/30/2047	50,911	50,911	7.150%	7.150%					50,911				
337	2025	Bonneville Dam	Corps of Engineers	9/30/1997	9/30/2047	161	161	7.150%	7.150%					161				
338	2025	Bonneville Dam	Corps of Engineers	9/30/1999	9/30/2049	19,368	19,368	5.375%	5.375%					19,368				

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
339	2025	Columbia River Fish Mitigation	Corps of Engineers	9/30/1999	9/30/2049	14,115	14,115	5.375%	5.375%					14,115				
340	2025	Dworshak	Corps of Engineers	9/30/1999	9/30/2049	630	630	5.375%	5.375%					630				
341	2025	Ice Harbor	Corps of Engineers	9/30/1999	9/30/2049	5,516	5,516	5.375%	5.375%					5,516				
342	2025	John Day	Corps of Engineers	9/30/1999	9/30/2049	3,510	3,510	5.375%	5.375%					3,510				
343	2025	Lower Granite	Corps of Engineers	9/30/1999	9/30/2049	856	856	5.375%	5.375%					856				
344	2025	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/1999	9/30/2049	7	7	5.375%	5.375%					7				
345	2025	Bonneville Dam	Corps of Engineers	9/30/2000	9/30/2050	24,446	24,446	6.125%	6.125%					24,446				
346	2025	Columbia River Fish Mitigation	Corps of Engineers	9/30/2000	9/30/2050	47,006	47,006	6.125%	6.125%					47,006				
347	2025	Hills Creek	Corps of Engineers	9/30/2000	9/30/2050	2,630	2,630	6.125%	6.125%					2,630				
348	2025	Ice Harbor	Corps of Engineers	9/30/2000	9/30/2050	548	548	6.125%	6.125%					548				
349	2025	John Day	Corps of Engineers	9/30/2000	9/30/2050	2,761	2,761	6.125%	6.125%					2,761				
350	2025	Lookout Dam	Corps of Engineers	9/30/2000	9/30/2050	5,098	5,098	6.125%	6.125%					5,098				
351	2025	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2000	9/30/2050	1,529	1,529	6.125%	6.125%					1,529				
352	2025	The Dalles	Corps of Engineers	9/30/2000	9/30/2050	2,588	2,588	6.125%	6.125%					2,588				
353	2025	Bonneville Dam	Corps of Engineers	9/30/2001	9/30/2051	2,530	2,530	5.875%	5.875%					2,530				
354	2025	Chief Joseph	Corps of Engineers	9/30/2001	9/30/2051	345	345	5.875%	5.875%					345				
355	2025	Columbia Basin	Bureau of Reclamation	9/30/2001	9/30/2051	69,226	69,226	5.875%	5.875%					69,226				
356	2025	Columbia River Fish Mitigation	Corps of Engineers	9/30/2001	9/30/2051	6,168	6,168	5.875%	5.875%					6,168				
357	2025	Detroit Lake/Big Cliff	Corps of Engineers	9/30/2001	9/30/2051	282	282	5.875%	5.875%					282				
358	2025	Green Peter/Foster	Corps of Engineers	9/30/2001	9/30/2051	200	200	5.875%	5.875%					200				
359	2025	Hills Creek	Corps of Engineers	9/30/2001	9/30/2051	8	8	5.875%	5.875%					8				
360	2025	Hungry Horse Dam	Bureau of Reclamation	9/30/2001	9/30/2051	552	552	5.875%	5.875%					552				
361	2025	Ice Harbor	Corps of Engineers	9/30/2001	9/30/2051	764	764	5.875%	5.875%					764				
362	2025	John Day	Corps of Engineers	9/30/2001	9/30/2051	619	619	5.875%	5.875%					619				
363	2025	Libby	Corps of Engineers	9/30/2001	9/30/2051	5,562	5,562	5.875%	5.875%					5,562				
364	2025	Little Goose	Corps of Engineers	9/30/2001	9/30/2051	4,608	4,608	5.875%	5.875%					4,608				
365	2025	Lost Creek	Corps of Engineers	9/30/2001	9/30/2051	147	147	5.875%	5.875%					147				
366	2025	Lower Granite	Corps of Engineers	9/30/2001	9/30/2051	2,025	2,025	5.875%	5.875%					2,025				
367	2025	Lower Monument	Corps of Engineers	9/30/2001	9/30/2051	3,301	3,301	5.875%	5.875%					3,301				
368	2025	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2001	9/30/2051	325	325	5.875%	5.875%					325				
369	2025	McNary	Corps of Engineers	9/30/2001	9/30/2051	1,046	1,046	5.875%	5.875%					1,046				
370	2025	Minidoka/Palisades	Bureau of Reclamation	9/30/2001	9/30/2051	42	42	5.875%	5.875%					42				
371	2025	RRP - Green Springs	Bureau of Reclamation	9/30/2001	9/30/2051	11,145	11,145	5.875%	5.875%					11,145				
372	2025	Yakima Roza	Bureau of Reclamation	9/30/2001	9/30/2051	15	14	5.875%	5.875%					14				
373	2025	Bonneville Dam	Corps of Engineers	9/30/2002	9/30/2052	448	448	5.500%	5.500%					448				
374	2025	Chief Joseph	Corps of Engineers	9/30/2002	9/30/2052	2	2	5.500%	5.500%					2				
375	2025	Columbia River Fish Mitigation	Corps of Engineers	9/30/2002	9/30/2052	8,797	8,797	5.500%	5.500%					8,797				
376	2025	Detroit Lake/Big Cliff	Corps of Engineers	9/30/2002	9/30/2052	18	18	5.500%	5.500%					18				
377	2025	Dworshak	Corps of Engineers	9/30/2002	9/30/2052	199	199	5.500%	5.500%					199				
378	2025	Hills Creek	Corps of Engineers	9/30/2002	9/30/2052	2	2	5.500%	5.500%					2				
379	2025	Ice Harbor	Corps of Engineers	9/30/2002	9/30/2052	1,014	1,014	5.500%	5.500%					1,014				
380	2025	Little Goose	Corps of Engineers	9/30/2002	9/30/2052	27	27	5.500%	5.500%					27				
381	2025	Lower Granite	Corps of Engineers	9/30/2002	9/30/2052	1,275	1,275	5.500%	5.500%					1,275				
382	2025	Lower Monument	Corps of Engineers	9/30/2002	9/30/2052	29	29	5.500%	5.500%					29				
383	2025	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2002	9/30/2052	890	890	5.500%	5.500%					890				
384	2025	The Dalles	Corps of Engineers	9/30/2002	9/30/2052	1,226	1,226	5.500%	5.500%					1,226				
385	2025	Bonneville Dam	Corps of Engineers	9/30/2004	9/30/2054	26,741	26,741	5.375%	5.375%					26,169				
386	2025	Columbia River Fish Mitigation	Corps of Engineers	9/30/2004	9/30/2054	60,581	60,581	5.375%	5.375%					60,581				
387	2025	Cougar	Corps of Engineers	9/30/2004	9/30/2054	3,622	3,622	5.375%	5.375%					3,622				
388	2025	Ice Harbor	Corps of Engineers	9/30/2004	9/30/2054	3,321	3,321	5.375%	5.375%					3,321				
389	2025	John Day	Corps of Engineers	9/30/2004	9/30/2054	2,830	2,830	5.375%	5.375%					2,830				
390	2025	Little Goose	Corps of Engineers	9/30/2004	9/30/2054	68	67	5.375%	5.375%					67				
391	2025	Lower Monument	Corps of Engineers	9/30/2004	9/30/2054	3,423	3,423	5.375%	5.375%					3,423				
392	2025	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2004	9/30/2054	230	230	5.375%	5.375%					230				
393	2025	McNary	Corps of Engineers	9/30/2004	9/30/2054	6,138	6,138	5.375%	5.375%					6,138				
394	2025	The Dalles	Corps of Engineers	9/30/2004	9/30/2054	182	182	5.375%	5.375%					182				

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($000s) (FY 2016)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
395		FY 2025 Subtotal:	-	-	-	680,791	627,244	-						626,672				

TABLE 11D: Application of Amortization
October 1, 2013 - September 30, 2016 Cost Evaluation Period
($000s) (FY 2016)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
396	2026	Conservation	-	10/31/2013	10/31/2025	34,000	34,000	3.568%	3.568%					34,000				
397	2026	Conservation	-	1/31/2014	1/31/2026	5,000	5,000	3.621%	3.621%					5,000				
398	2026	Fish and Wildlife	-	1/31/2011	1/31/2026	50,000	50,000	4.440%	4.440%					50,000				
399	2026	Fish and Wildlife	-	2/28/2011	2/28/2026	15,000	15,000	4.398%	4.398%					15,000				
400	2026	Fish and Wildlife	-	6/22/2011	6/30/2026	15,000	15,000	4.205%	4.205%					15,000				
401	2026	Bureau Direct	-	10/31/2015	10/31/2035	15,000	15,000	4.570%	4.570%					15,000				
402	2026	Bureau Direct	-	11/30/2015	11/30/2035	19,000	19,000	4.570%	4.570%					19,000				
403	2026	Bureau Direct	-	12/31/2015	12/31/2035	18,000	18,000	4.570%	4.570%					18,000				
404	2026	Bureau Direct	-	1/31/2016	1/31/2036	18,000	18,000	4.570%	4.570%					18,000				
405	2026	Bureau Direct	-	2/28/2016	2/28/2036	16,000	16,000	4.570%	4.570%					16,000				
406	2026	Bureau Direct	-	3/31/2016	3/31/2036	16,000	16,000	4.570%	4.570%					5,206				
407	2026	Bureau Direct	-	6/22/2011	6/30/2036	30,000	30,000	4.629%	4.629%					29,017		983		
408	2026	Bureau Direct	-	6/22/2011	6/30/2038	30,000	30,000	4.700%	4.700%					29,014		986		
409	2026	Bureau Direct	-	1/31/2011	1/31/2039	35,000	35,000	5.040%	5.040%					34,871		129		
410	2026	Bureau Direct	-	6/30/2009	6/30/2039	25,000	25,000	5.192%	5.192%					25,000	275			
411	2026	Bureau Direct	-	2/28/2011	2/29/2040	50,000	50,000	4.995%	4.995%					49,463		537		
412	2026	Bonneville Dam	Corps of Engineers	9/30/2003	9/30/2053	4,581	4,581	5.125%	5.125%					4,581				
413	2026	Columbia River Fish Mitigation	Corps of Engineers	9/30/2003	9/30/2053	68,440	68,440	5.125%	5.125%					68,440				
414	2026	Detroit Lake/Big Cliff	Corps of Engineers	9/30/2003	9/30/2053	223	223	5.125%	5.125%					223				
415	2026	Dworshak	Corps of Engineers	9/30/2003	9/30/2053	761	761	5.125%	5.125%					761				
416	2026	Ice Harbor	Corps of Engineers	9/30/2003	9/30/2053	50	50	5.125%	5.125%					50				
417	2026	Little Goose	Corps of Engineers	9/30/2003	9/30/2053	146	146	5.125%	5.125%					146				
418	2026	Lookout Dam	Corps of Engineers	9/30/2003	9/30/2053	135	135	5.125%	5.125%					135				
419	2026	Lower Granite	Corps of Engineers	9/30/2003	9/30/2053	42	42	5.125%	5.125%					42				
420	2026	Lower Monument	Corps of Engineers	9/30/2003	9/30/2053	22	22	5.125%	5.125%					22				
421	2026	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2003	9/30/2053	98	98	5.125%	5.125%					98				
422	2026	McNary	Corps of Engineers	9/30/2003	9/30/2053	97	97	5.125%	5.125%					97				
423	2026	Chief Joseph	Corps of Engineers	9/30/2003	9/30/2053	992	992	5.125%	5.125%					992				
424	2026	Bonneville Dam	Corps of Engineers	9/30/2004	9/30/2054	26,741	572	5.375%	5.375%					572				
425	2026	Albeni Falls	Corps of Engineers	9/30/2005	9/30/2055	481	481	5.125%	5.125%					481				
426	2026	Boise	Bureau of Reclamation	9/30/2005	9/30/2055	903	903	5.125%	5.125%					903				
427	2026	Bonneville Dam	Corps of Engineers	9/30/2005	9/30/2055	19,725	19,725	5.125%	5.125%					19,725				
428	2026	Columbia Basin	Bureau of Reclamation	9/30/2005	9/30/2055	10,963	10,963	5.125%	5.125%					10,963				
429	2026	Columbia River Fish Mitigation	Corps of Engineers	9/30/2005	9/30/2055	52,039	52,039	5.125%	5.125%					52,039				
430	2026	Cougar	Corps of Engineers	9/30/2005	9/30/2055	8,130	8,130	5.125%	5.125%					8,130				
431	2026	Detroit Lake/Big Cliff	Corps of Engineers	9/30/2005	9/30/2055	1,031	1,031	5.125%	5.125%					1,031				
432	2026	Dworshak	Corps of Engineers	9/30/2005	9/30/2055	713	713	5.125%	5.125%					713				
433	2026	Hills Creek	Corps of Engineers	9/30/2005	9/30/2055	46	46	5.125%	5.125%					46				
434	2026	Hungry Horse Dam	Bureau of Reclamation	9/30/2005	9/30/2055	2,951	2,951	5.125%	5.125%					2,951				
435	2026	John Day	Corps of Engineers	9/30/2005	9/30/2055	2,828	2,827	5.125%	5.125%					2,827				
436	2026	Lookout Dam	Corps of Engineers	9/30/2005	9/30/2055	7,355	7,355	5.125%	5.125%					7,355				
437	2026	Lower Granite	Corps of Engineers	9/30/2005	9/30/2055	393	393	5.125%	5.125%					393				
438	2026	Lower Monument	Corps of Engineers	9/30/2005	9/30/2055	527	527	5.125%	5.125%					527				
439	2026	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2005	9/30/2055	4	4	5.125%	5.125%					4				
440	2026	McNary	Corps of Engineers	9/30/2005	9/30/2055	550	550	5.125%	5.125%					550				
441	2026	The Dalles	Corps of Engineers	9/30/2005	9/30/2055	36,019	36,019	5.125%	5.125%					36,019				
442	2026	Yakima Chandler/Kenniwick	Bureau of Reclamation	9/30/2005	9/30/2055	833	833	5.125%	5.125%					833				
443	2026	Boise	Bureau of Reclamation	9/30/2007	9/30/2057	76	76	5.000%	5.000%					76				
444	2026	Bonneville Dam	Corps of Engineers	9/30/2007	9/30/2057	1,124	1,124	5.000%	5.000%					1,124				
445	2026	Columbia Basin	Bureau of Reclamation	9/30/2007	9/30/2057	929	929	5.000%	5.000%					929				
446	2026	Columbia River Fish Mitigation	Corps of Engineers	9/30/2007	9/30/2057	53,525	53,525	5.000%	5.000%					53,525				
447	2026	Cougar	Corps of Engineers	9/30/2007	9/30/2057	120	120	5.000%	5.000%					120				
448	2026	Hungry Horse Dam	Bureau of Reclamation	9/30/2007	9/30/2057	294	294	5.000%	5.000%					294				
449	2026	John Day	Corps of Engineers	9/30/2007	9/30/2057	233	233	5.000%	5.000%					233				
450	2026	Lookout Dam	Corps of Engineers	9/30/2007	9/30/2057	572	572	5.000%	5.000%					572				
451	2026	The Dalles	Corps of Engineers	9/30/2007	9/30/2057	140	140	5.000%	5.000%					140				

TABLE 11D: Application of Amortization
October 1, 2013 - September 30, 2016 Cost Evaluation Period
($000s) (FY 2016)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
452		FY 2026 Subtotal:	-	-	-	695,829	669,660	-						656,231	275	2,635		

TABLE 11D: Application of Amortization
October 1, 2013 - September 30, 2016 Cost Evaluation Period
($000s) (FY 2016)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
453	2027	Conservation	-	10/31/2014	10/31/2026	4,000	4,000	1.757%	1.757%					4,000				
454	2027	Conservation	-	11/30/2014	11/30/2026	5,000	5,000	1.757%	1.757%					5,000				
455	2027	Conservation	-	12/31/2014	12/31/2026	9,000	9,000	1.757%	1.757%					9,000				
456	2027	Fish and Wildlife	-	10/31/2013	12/31/2026	28,000	28,000	3.717%	3.717%					28,000				
457	2027	Conservation	-	1/31/2015	1/31/2027	5,000	5,000	1.757%	1.757%					5,000				
458	2027	Conservation	-	2/28/2015	2/28/2027	6,000	6,000	1.757%	1.757%					6,000				
459	2027	Conservation	-	3/31/2015	3/31/2027	14,000	14,000	1.757%	1.757%					14,000				
460	2027	Conservation	-	4/30/2015	4/30/2027	1,000	1,000	3.660%	3.660%					1,000				
461	2027	Fish and Wildlife	-	5/31/2014	4/30/2027	11,000	11,000	1.757%	1.757%					11,000				
462	2027	Conservation	-	5/31/2015	5/31/2027	8,000	8,000	1.757%	1.757%					8,000				
463	2027	Fish and Wildlife	-	11/30/2013	5/31/2027	5,000	5,000	1.757%	1.757%					5,000				
464	2027	Fish and Wildlife	-	10/31/2013	5/31/2027	11,000	11,000	3.762%	3.762%					11,000				
465	2027	Conservation	-	6/30/2015	6/30/2027	10,000	10,000	1.757%	1.757%					10,000				
466	2027	Conservation	-	7/31/2015	7/31/2027	4,000	4,000	3.660%	3.660%					4,000				
467	2027	Conservation	-	8/31/2015	8/31/2027	8,000	8,000	3.660%	3.660%					8,000				
468	2027	Conservation	-	9/30/2015	9/30/2027	18,000	18,000	3.660%	3.660%					18,000				
469	2027	Fish and Wildlife	-	10/31/2015	10/31/2030	6,000	6,000	4.320%	4.320%					6,000				
470	2027	Fish and Wildlife	-	11/30/2015	11/30/2030	3,000	3,000	4.320%	4.320%					3,000				
471	2027	Fish and Wildlife	-	12/31/2015	12/31/2030	5,000	5,000	4.320%	4.320%					5,000				
472	2027	Fish and Wildlife	-	1/31/2016	1/31/2031	4,000	4,000	4.320%	4.320%					4,000				
473	2027	Fish and Wildlife	-	2/28/2016	2/28/2031	2,000	2,000	4.320%	4.320%					2,000				
474	2027	Fish and Wildlife	-	3/31/2016	3/31/2031	3,000	3,000	4.320%	4.320%					3,000				
475	2027	Fish and Wildlife	-	4/30/2016	4/30/2031	2,000	2,000	4.320%	4.320%					2,000				
476	2027	Fish and Wildlife	-	5/31/2016	5/31/2031	3,000	3,000	4.320%	4.320%					3,000				
477	2027	Fish and Wildlife	-	6/30/2016	6/30/2031	4,000	4,000	4.320%	4.320%					4,000				
478	2027	Fish and Wildlife	-	7/31/2016	7/31/2031	6,000	6,000	4.320%	4.320%					6,000				
479	2027	Fish and Wildlife	-	8/31/2016	8/31/2031	4,000	4,000	4.320%	4.320%					4,000				
480	2027	Fish and Wildlife	-	9/30/2016	9/30/2031	12,000	12,000	4.320%	4.320%					12,000				
481	2027	Bureau Direct	-	10/31/2010	10/31/2034	20,000	20,000	4.211%	4.211%					19,076		924		
482	2027	Bureau Direct	-	3/31/2016	3/31/2036	16,000	10,794	4.570%	4.570%					10,794				
483	2027	Bureau Direct	-	4/30/2016	4/30/2036	22,000	22,000	4.570%	4.570%					22,000				
484	2027	Bureau Direct	-	5/31/2016	5/31/2036	19,000	19,000	4.570%	4.570%					19,000				
485	2027	Bureau Direct	-	6/30/2016	6/30/2036	24,000	24,000	4.570%	4.570%					24,000				
486	2027	Bureau Direct	-	7/31/2016	7/31/2036	23,000	23,000	4.570%	4.570%					23,000				
487	2027	Bureau Direct	-	8/31/2016	8/31/2036	23,000	23,000	4.570%	4.570%					23,000				
488	2027	Bureau Direct	-	9/30/2016	9/30/2036	27,000	27,000	4.570%	4.570%					27,000				
489	2027	Bureau Direct	-	8/12/2011	8/31/2037	30,000	30,000	4.208%	4.208%					9,030		623		
490	2027	Boise	Bureau of Reclamation	9/30/2006	9/30/2056	15	15	4.500%	4.500%					15				
491	2027	Bonneville Dam	Corps of Engineers	9/30/2006	9/30/2056	2,628	2,628	4.500%	4.500%					2,628				
492	2027	Columbia Basin	Bureau of Reclamation	9/30/2006	9/30/2056	1,987	1,987	4.500%	4.500%					1,987				
493	2027	Cougar	Corps of Engineers	9/30/2006	9/30/2056	109	109	4.500%	4.500%					109				
494	2027	Dworshak	Corps of Engineers	9/30/2006	9/30/2056	73	73	4.500%	4.500%					73				
495	2027	John Day	Corps of Engineers	9/30/2006	9/30/2056	601	601	4.500%	4.500%					601				
496	2027	Lower Monument	Corps of Engineers	9/30/2006	9/30/2056	285	285	4.500%	4.500%					285				
497	2027	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2006	9/30/2056	379	379	4.500%	4.500%					379				
498	2027	The Dalles	Corps of Engineers	9/30/2006	9/30/2056	2,030	2,030	4.500%	4.500%					2,030				
499	2027	McNary	Corps of Engineers	9/30/2006	9/30/2056	4,080	4,080	4.500%	4.500%					4,080				
500	2027	Bonneville Dam	Corps of Engineers	9/30/2009	9/30/2059	2,744	2,744	4.375%	4.375%					2,744				
501	2027	Chief Joseph	Corps of Engineers	9/30/2009	9/30/2059	24,727	24,727	4.375%	4.375%					24,727				
502	2027	Columbia River Fish Mitigation	Corps of Engineers	9/30/2009	9/30/2059	103,203	103,203	4.375%	4.375%					103,203				
503	2027	Cougar	Corps of Engineers	9/30/2009	9/30/2059	121	121	4.375%	4.375%					121				
504	2027	Dworshak	Corps of Engineers	9/30/2009	9/30/2059	2,480	2,480	4.375%	4.375%					2,480				
505	2027	Ice Harbor	Corps of Engineers	9/30/2009	9/30/2059	2,615	2,615	4.375%	4.375%					2,615				
506	2027	Little Goose	Corps of Engineers	9/30/2009	9/30/2059	3,171	3,171	4.375%	4.375%					3,171				
507	2027	Lower Granite	Corps of Engineers	9/30/2009	9/30/2059	5,669	5,669	4.375%	4.375%					5,669				
508	2027	Lower Monument	Corps of Engineers	9/30/2009	9/30/2059	2,332	2,332	4.375%	4.375%					2,332				

TABLE 11D: Application of Amortization
October 1, 2013 - September 30, 2016 Cost Evaluation Period
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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
509	2027	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2009	9/30/2059	1,540	1,540	4.375%	4.375%					1,540				
510	2027	Boise	Bureau of Reclamation	9/30/2009	9/30/2059	2	2	4.375%	4.375%					2				
511	2027	Little Goose	Corps of Engineers	9/30/2010	9/30/2060	30	30	4.250%	4.250%					30				
512	2027	Lower Granite	Corps of Engineers	9/30/2010	9/30/2060	1,156	1,156	4.250%	4.250%					1,156				
513	2027	Albeni Falls	Corps of Engineers	9/30/2010	9/30/2060	42	42	4.250%	4.250%					42				
514	2027	Bonneville Dam	Corps of Engineers	9/30/2010	9/30/2060	1,425	1,425	4.250%	4.250%					1,425				
515	2027	Columbia Basin	Bureau of Reclamation	9/30/2010	9/30/2060	877	877	4.250%	4.250%					877				
516	2027	Columbia River Fish Mitigation	Corps of Engineers	9/30/2010	9/30/2060	56,832	56,832	4.250%	4.250%					56,832				
517	2027	Cougar	Corps of Engineers	9/30/2010	9/30/2060	59	59	4.250%	4.250%					59				
518	2027	Hungry Horse Dam	Bureau of Reclamation	9/30/2010	9/30/2060	779	779	4.250%	4.250%					779				
519	2027	Ice Harbor	Corps of Engineers	9/30/2010	9/30/2060	207	207	4.250%	4.250%					207				
520	2027	John Day	Corps of Engineers	9/30/2010	9/30/2060	356	356	4.250%	4.250%					356				
521	2027	Libby	Corps of Engineers	9/30/2010	9/30/2060	40	40	4.250%	4.250%					40				
522	2027	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2010	9/30/2060	6	6	4.250%	4.250%					6				
523	2027	Columbia River Fish Mitigation	Corps of Engineers	9/30/2016	9/30/2066	95,220	95,220	4.490%	4.490%					95,220				
524		**FY 2027 Subtotal:**	**-**	**-**	**-**	**722,819**	**717,613**	**-**						**695,720**		**1,547**		
525	2028	Conservation	-	10/31/2015	10/31/2027	4,000	4,000	4.180%	4.180%					4,000				
526	2028	Conservation	-	11/30/2015	11/30/2027	5,000	5,000	4.180%	4.180%					5,000				
527	2028	Conservation	-	12/31/2015	12/31/2027	10,000	10,000	4.180%	4.180%					10,000				
528	2028	Conservation	-	1/31/2016	1/31/2028	5,000	5,000	4.180%	4.180%					5,000				
529	2028	Conservation	-	2/28/2016	2/28/2028	6,000	6,000	4.180%	4.180%					6,000				
530	2028	Conservation	-	3/31/2016	3/31/2028	14,000	14,000	4.180%	4.180%					14,000				
531	2028	Conservation	-	4/30/2016	4/30/2028	1,000	1,000	4.180%	4.180%					1,000				
532	2028	Conservation	-	5/31/2016	5/31/2028	8,000	8,000	4.180%	4.180%					8,000				
533	2028	Conservation	-	6/30/2016	6/30/2028	10,000	10,000	4.180%	4.180%					10,000				
534	2028	Conservation	-	7/31/2016	7/31/2028	4,000	4,000	4.180%	4.180%					4,000				
535	2028	Conservation	-	8/31/2016	8/31/2028	9,000	9,000	4.180%	4.180%					9,000				
536	2028	Conservation	-	9/30/2016	9/30/2028	19,000	19,000	4.180%	4.180%					19,000				
537	2028	Fish and Wildlife	-	1/31/2014	1/31/2029	7,000	7,000	3.896%	3.896%					6,980		20		
538	2028	Fish and Wildlife	-	4/30/2014	2/28/2029	7,000	7,000	1.757%	1.757%					786		19		
539	2028	Fish and Wildlife	-	7/31/2015	7/31/2030	6,000	6,000	3.840%	3.840%					6,000				
540	2028	Fish and Wildlife	-	8/31/2015	8/31/2030	4,000	4,000	3.840%	3.840%					4,000				
541	2028	Fish and Wildlife	-	9/30/2015	9/30/2030	12,000	12,000	3.840%	3.840%					12,000				
542	2028	Bureau Direct	-	8/31/2015	8/31/2035	21,000	21,000	4.130%	4.130%					21,000				
543	2028	Bureau Direct	-	9/30/2015	9/30/2035	21,000	21,000	4.130%	4.130%					21,000				
544	2028	Bureau Direct	-	8/12/2011	8/31/2037	30,000	20,347	4.208%	4.208%					19,162		1,184		
545	2028	Hungry Horse Dam	Bureau of Reclamation	9/30/2011	9/30/2061	503	503	3.750%	3.750%					503				
546	2028	Bonneville Dam	Corps of Engineers	9/30/2011	9/30/2061	10,962	10,962	3.750%	3.750%					10,962				
547	2028	Chief Joseph	Corps of Engineers	9/30/2011	9/30/2061	4	4	3.750%	3.750%					4				
548	2028	Columbia Basin	Bureau of Reclamation	9/30/2011	9/30/2061	1,723	1,723	3.750%	3.750%					1,723				
549	2028	Columbia River Fish Mitigation	Corps of Engineers	9/30/2011	9/30/2061	106,014	106,014	3.750%	3.750%					106,014				
550	2028	Cougar	Corps of Engineers	9/30/2011	9/30/2061	282	282	3.750%	3.750%					282				
551	2028	Green Peter/Foster	Corps of Engineers	9/30/2011	9/30/2061	87	87	3.750%	3.750%					87				
552	2028	Hills Creek	Corps of Engineers	9/30/2011	9/30/2061	12	12	3.750%	3.750%					12				
553	2028	Ice Harbor	Corps of Engineers	9/30/2011	9/30/2061	819	819	3.750%	3.750%					819				
554	2028	John Day	Corps of Engineers	9/30/2011	9/30/2061	175	175	3.750%	3.750%					175				
555	2028	Libby	Corps of Engineers	9/30/2011	9/30/2061	152	152	3.750%	3.750%					152				
556	2028	Lookout Dam	Corps of Engineers	9/30/2011	9/30/2061	17	17	3.750%	3.750%					17				
557	2028	Lost Creek	Corps of Engineers	9/30/2011	9/30/2061	7	7	3.750%	3.750%					7				
558	2028	Lower Granite	Corps of Engineers	9/30/2011	9/30/2061	8	8	3.750%	3.750%					8				
559	2028	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2011	9/30/2061	122	122	3.750%	3.750%					122				
560	2028	McNary	Corps of Engineers	9/30/2011	9/30/2061	565	565	3.750%	3.750%					565				
561	2028	Cougar	Corps of Engineers	9/30/2012	9/30/2062	139	139	3.375%	3.375%					139				
562	2028	Hungry Horse Dam	Bureau of Reclamation	9/30/2012	9/30/2062	6	6	3.375%	3.375%					6				
563	2028	Minidoka/Palisades	Bureau of Reclamation	9/30/2012	9/30/2062	7	7	3.375%	3.375%					7				
564	2028	Green Peter/Foster	Corps of Engineers	9/30/2012	9/30/2062	28	28	3.375%	3.375%					28				

TABLE 11D: Application of Amortization
October 1, 2013 - September 30, 2016 Cost Evaluation Period
($000s) (FY 2016)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
565	2028	Chief Joseph	Corps of Engineers	9/30/2012	9/30/2062	28	28	3.375%	3.375%					28				
566	2028	Columbia Basin	Bureau of Reclamation	9/30/2012	9/30/2062	25	25	3.375%	3.375%					25				
567	2028	Columbia River Fish Mitigation	Corps of Engineers	9/30/2012	9/30/2062	101,616	101,616	3.375%	3.375%					101,616				
568	2028	Hills Creek	Corps of Engineers	9/30/2012	9/30/2062	142	142	3.375%	3.375%					142				
569	2028	Ice Harbor	Corps of Engineers	9/30/2012	9/30/2062	115	115	3.375%	3.375%					115				
570	2028	John Day	Corps of Engineers	9/30/2012	9/30/2062	6,161	6,161	3.375%	3.375%					6,161				
571	2028	Libby	Corps of Engineers	9/30/2012	9/30/2062	16	16	3.375%	3.375%					16				
572	2028	Lookout Dam	Corps of Engineers	9/30/2012	9/30/2062	294	294	3.375%	3.375%					294				
573	2028	Lower Monument	Corps of Engineers	9/30/2012	9/30/2062	89	89	3.375%	3.375%					89				
574	2028	McNary	Corps of Engineers	9/30/2012	9/30/2062	12	11	3.375%	3.375%					11				
575	2028	RRP - Green Springs	Bureau of Reclamation	9/30/2012	9/30/2062	2	2	3.375%	3.375%					2				
576	2028	Bonneville Dam	Corps of Engineers	9/30/2013	9/30/2063	268	268	2.875%	2.875%					268				
577	2028	Chief Joseph	Corps of Engineers	9/30/2013	9/30/2063	10	10	2.875%	2.875%					10				
578	2028	Columbia Basin	Bureau of Reclamation	9/30/2013	9/30/2063	3,124	3,124	2.875%	2.875%					3,124				
579	2028	Columbia River Fish Mitigation	Corps of Engineers	9/30/2013	9/30/2063	94,953	94,953	2.875%	2.875%					94,953				
580	2028	Cougar	Corps of Engineers	9/30/2013	9/30/2063	4,088	4,088	2.875%	2.875%					4,088				
581	2028	Detroit Lake/Big Cliff	Corps of Engineers	9/30/2013	9/30/2063	528	528	2.875%	2.875%					528				
582	2028	John Day	Corps of Engineers	9/30/2013	9/30/2063	17	17	2.875%	2.875%					17				
583	2028	Little Goose	Corps of Engineers	9/30/2013	9/30/2063	66	66	2.875%	2.875%					66				
584	2028	McNary	Corps of Engineers	9/30/2013	9/30/2063	1,000	1,000	2.875%	2.875%					1,000				
585	2028	RRP - Green Springs	Bureau of Reclamation	9/30/2013	9/30/2063	1	1	2.875%	2.875%					1				
586	2028	Columbia River Fish Mitigation	Corps of Engineers	9/30/2014	9/30/2064	78,577	78,577	3.880%	3.880%					78,577				
587	2028	Columbia River Fish Mitigation	Corps of Engineers	9/30/2015	9/30/2065	137,096	137,096	4.110%	4.110%					137,096				
588		**FY 2028 Subtotal:**	**-**	**-**	**-**	**752,857**	**743,204**	**-**						**735,786**		**1,223**		
589	2029	Fish and Wildlife	-	10/31/2013	10/31/2028	22,000	22,000	3.880%	3.880%					22,000				
590	2029	Fish and Wildlife	-	4/30/2014	2/28/2029	7,000	6,195	1.757%	1.757%					6,195				
591	2029	Fish and Wildlife	-	8/31/2014	8/31/2029	3,000	3,000	1.757%	1.757%					3,000				
592	2029	Fish and Wildlife	-	9/30/2014	9/30/2029	11,000	11,000	1.757%	1.757%					11,000				
593	2029	Fish and Wildlife	-	1/31/2015	1/31/2030	3,000	3,000	1.757%	1.757%					3,000				
594	2029	Fish and Wildlife	-	2/28/2015	2/28/2030	2,000	2,000	1.757%	1.757%					2,000				
595	2029	Fish and Wildlife	-	3/31/2015	3/31/2030	3,000	3,000	1.757%	1.757%					3,000				
596	2029	Fish and Wildlife	-	4/30/2015	4/30/2030	2,000	2,000	1.757%	1.757%					2,000				
597	2029	Fish and Wildlife	-	5/31/2015	5/31/2030	3,000	3,000	1.757%	1.757%					3,000				
598	2029	Fish and Wildlife	-	6/30/2015	6/30/2030	4,000	4,000	1.757%	1.757%					4,000				
599	2029	Bureau Direct	-	2/27/2012	2/28/2034	55,000	55,000	1.757%	1.757%					48,281		6,719		
600	2029	Bureau Direct	-	6/30/2013	1/31/2039	35,000	35,000	1.757%	1.757%					27,833		7,167		
601	2029	Replacements	-	3/31/2017	3/31/2062	205,153	205,153	5.070%	5.070%					205,153				
602	2029	Replacements	-	3/31/2018	3/31/2063	205,153	205,153	5.070%	5.070%					205,153				
603	2029	Replacements	-	3/31/2019	3/31/2064	205,153	205,153	5.070%	5.070%					205,153				
604	2029	Replacements	-	3/31/2020	3/31/2065	205,153	205,153	5.070%	5.070%					62,223				
605		**FY 2029 Subtotal:**	**-**	**-**	**-**	**970,614**	**969,809**	**-**						**812,992**		**13,886**		
606	2030	Fish and Wildlife	-	10/31/2014	10/30/2029	6,000	6,000	1.757%	1.757%					6,000				
607	2030	Fish and Wildlife	-	11/30/2014	11/30/2029	3,000	3,000	1.757%	1.757%					3,000				
608	2030	Fish and Wildlife	-	12/31/2014	12/31/2029	5,000	5,000	1.757%	1.757%					5,000				
609	2030	Replacements	-	3/31/2020	3/31/2065	205,153	142,931	5.070%	5.070%					142,931				
610	2030	Replacements	-	3/31/2021	3/31/2066	205,153	205,153	5.070%	5.070%					205,153				
611	2030	Replacements	-	3/31/2022	3/31/2067	205,153	205,153	5.070%	5.070%					205,153				
612	2030	Replacements	-	3/31/2023	3/31/2068	205,153	205,153	5.070%	5.070%					205,153				
613	2030	Replacements	-	3/31/2024	3/31/2069	205,153	205,153	5.070%	5.070%					10,797				
614		**FY 2030 Subtotal:**	**-**	**-**	**-**	**1,039,767**	**977,545**	**-**						**783,188**				
615	2031	Replacements	-	3/31/2024	3/31/2069	205,153	194,357	5.070%	5.070%					194,357				
616	2031	Replacements	-	3/31/2025	3/31/2070	205,153	205,153	5.070%	5.070%					205,153				
617	2031	Replacements	-	3/31/2026	3/31/2071	205,153	205,153	5.070%	5.070%					205,153				
618	2031	Replacements	-	3/31/2027	3/31/2072	205,153	205,153	5.070%	5.070%					205,153				
619	2031	Replacements	-	3/31/2028	3/31/2073	205,153	205,153	5.070%	5.070%					6,142				
620		**FY 2031 Subtotal:**	**-**	**-**	**-**	**1,025,767**	**1,014,970**	**-**						**815,959**				

TABLE 11D: Application of Amortization
October 1, 2013 - September 30, 2016 Cost Evaluation Period
($000s) (FY 2016)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
621	2032	Replacements	-	3/31/2028	3/31/2073	205,153	199,011	5.070%	5.070%					199,011				
622	2032	Replacements	-	3/31/2029	3/31/2074	205,153	205,153	5.070%	5.070%					205,153				
623	2032	Replacements	-	3/31/2030	3/31/2075	205,153	205,153	5.070%	5.070%					205,153				
624	2032	Replacements	-	3/31/2031	3/31/2076	205,153	205,153	5.070%	5.070%					205,153				
625		**FY 2032 Subtotal:**	**-**	**-**	**-**	**820,614**	**814,471**	**-**						**814,471**				
626	2033	Replacements	-	3/31/2032	3/31/2077	205,153	205,153	5.070%	5.070%					205,153				
627		**FY 2033 Subtotal:**	**-**	**-**	**-**	**205,153**	**205,153**	**-**						**205,153**				
628	2034	Replacements	-	3/31/2033	3/31/2078	205,153	205,153	5.070%	5.070%					205,153				
629		**FY 2034 Subtotal:**	**-**	**-**	**-**	**205,153**	**205,153**	**-**						**205,153**				
630	2035	Replacements	-	3/31/2034	3/31/2079	205,153	205,153	5.070%	5.070%					205,153				
631		**FY 2035 Subtotal:**	**-**	**-**	**-**	**205,153**	**205,153**	**-**						**205,153**				
632	2036	Replacements	-	3/31/2035	3/31/2080	205,153	205,153	5.070%	5.070%					205,153				
633		**FY 2036 Subtotal:**	**-**	**-**	**-**	**205,153**	**205,153**	**-**						**205,153**				
634	2037	Replacements	-	3/31/2036	3/31/2081	205,153	205,153	5.070%	5.070%					205,153				
635		**FY 2037 Subtotal:**	**-**	**-**	**-**	**205,153**	**205,153**	**-**						**205,153**				
636	2038	Replacements	-	3/31/2037	3/31/2082	205,153	205,153	5.070%	5.070%					205,153				
637		**FY 2038 Subtotal:**	**-**	**-**	**-**	**205,153**	**205,153**	**-**						**205,153**				
638	2039	Replacements	-	3/31/2038	3/31/2083	205,153	205,153	5.070%	5.070%					205,153				
639		**FY 2039 Subtotal:**	**-**	**-**	**-**	**205,153**	**205,153**	**-**						**205,153**				
640	2040	Replacements	-	3/31/2039	3/31/2084	205,153	205,153	5.070%	5.070%					205,153				
641		**FY 2040 Subtotal:**	**-**	**-**	**-**	**205,153**	**205,153**	**-**						**205,153**				
642	2041	Replacements	-	3/31/2040	3/31/2085	205,153	205,153	5.070%	5.070%					205,153				
643		**FY 2041 Subtotal:**	**-**	**-**	**-**	**205,153**	**205,153**	**-**						**205,153**				
644	2042	Replacements	-	3/31/2041	3/31/2086	205,153	205,153	5.070%	5.070%					205,153				
645		**FY 2042 Subtotal:**	**-**	**-**	**-**	**205,153**	**205,153**	**-**						**205,153**				
646	2043	Replacements	-	3/31/2042	3/31/2087	205,153	205,153	5.070%	5.070%					205,153				
647		**FY 2043 Subtotal:**	**-**	**-**	**-**	**205,153**	**205,153**	**-**						**205,153**				
648	2044	Replacements	-	3/31/2043	3/31/2088	205,153	205,153	5.070%	5.070%					205,153				
649		**FY 2044 Subtotal:**	**-**	**-**	**-**	**205,153**	**205,153**	**-**						**205,153**				
650	2045	Replacements	-	3/31/2044	3/31/2089	205,153	205,153	5.070%	5.070%					205,153				
651		**FY 2045 Subtotal:**	**-**	**-**	**-**	**205,153**	**205,153**	**-**						**205,153**				
652	2046	Replacements	-	3/31/2045	3/31/2090	205,153	205,153	5.070%	5.070%					205,153				
653		**FY 2046 Subtotal:**	**-**	**-**	**-**	**205,153**	**205,153**	**-**						**205,153**				
654	2047	Replacements	-	3/31/2046	3/31/2091	205,153	205,153	5.070%	5.070%					205,153				
655		**FY 2047 Subtotal:**	**-**	**-**	**-**	**205,153**	**205,153**	**-**						**205,153**				
656	2048	Replacements	-	3/31/2047	3/31/2092	205,153	205,153	5.070%	5.070%					205,153				
657		**FY 2048 Subtotal:**	**-**	**-**	**-**	**205,153**	**205,153**	**-**						**205,153**				
658	2049	Columbia River Fish Mitigation	Corps of Engineers	9/30/2006	9/30/2056	366,395	366,395	4.500%	4.500%					16,395				
659	2049	Replacements	-	3/31/2048	3/31/2093	205,153	205,153	5.070%	5.070%					205,153				
660		**FY 2049 Subtotal:**	**-**	**-**	**-**	**571,548**	**571,548**	**-**						**221,548**				
661	2050	Columbia River Fish Mitigation	Corps of Engineers	9/30/2006	9/30/2056	366,395	350,000	4.500%	4.500%					50,000				
662	2050	Replacements	-	3/31/2049	3/31/2094	205,153	205,153	5.070%	5.070%					205,153				
663		**FY 2050 Subtotal:**	**-**	**-**	**-**	**571,548**	**555,153**	**-**						**255,153**				
664	2051	Columbia River Fish Mitigation	Corps of Engineers	9/30/2006	9/30/2056	366,395	300,000	4.500%	4.500%					50,000				
665	2051	Replacements	-	3/31/2050	3/31/2095	205,153	205,153	5.070%	5.070%					205,153				
666		**FY 2051 Subtotal:**	**-**	**-**	**-**	**571,548**	**505,153**	**-**						**255,153**				
667	2052	Columbia River Fish Mitigation	Corps of Engineers	9/30/2006	9/30/2056	366,395	250,000	4.500%	4.500%					50,000				
668	2052	Replacements	-	3/31/2051	3/31/2096	205,153	205,153	5.070%	5.070%					205,153				
669		**FY 2052 Subtotal:**	**-**	**-**	**-**	**571,548**	**455,153**	**-**						**255,153**				
670	2053	Columbia River Fish Mitigation	Corps of Engineers	9/30/2006	9/30/2056	366,395	200,000	4.500%	4.500%					50,000				
671	2053	Replacements	-	3/31/2052	3/31/2097	205,153	205,153	5.070%	5.070%					205,153				
672		**FY 2053 Subtotal:**	**-**	**-**	**-**	**571,548**	**405,153**	**-**						**255,153**				
673	2054	Columbia River Fish Mitigation	Corps of Engineers	9/30/2006	9/30/2056	366,395	150,000	4.500%	4.500%					50,000				
674	2054	Replacements	-	3/31/2053	3/31/2098	205,153	205,153	5.070%	5.070%					205,153				
675		**FY 2054 Subtotal:**	**-**	**-**	**-**	**571,548**	**355,153**	**-**						**255,153**				
676	2055	Columbia River Fish Mitigation	Corps of Engineers	9/30/2006	9/30/2056	366,395	100,000	4.500%	4.500%					50,000				
677	2055	Replacements	-	3/31/2054	3/31/2099	205,153	205,153	5.070%	5.070%					205,153				
678		**FY 2055 Subtotal:**	**-**	**-**	**-**	**571,548**	**305,153**	**-**						**255,153**				

TABLE 11D: Application of Amortization
October 1, 2013 - September 30, 2016 Cost Evaluation Period
($000s) (FY 2016)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
679	2056	Columbia River Fish Mitigation	Corps of Engineers	9/30/2006	9/30/2056	366,395	50,000	4.500%	4.500%					50,000				
680	2056	Replacements	-	3/31/2055	3/31/2100	205,153	205,153	5.070%	5.070%					205,153				
681		**FY 2056 Subtotal:**	**-**	**-**	**-**	**571,548**	**255,153**	**-**						**255,153**				
682	2057	Replacements	-	3/31/2056	3/31/2101	205,153	205,153	5.070%	5.070%					205,153				
683		**FY 2057 Subtotal:**	**-**	**-**	**-**	**205,153**	**205,153**	**-**						**205,153**				
684	2058	Boise	Bureau of Reclamation	9/30/2008	9/30/2058	64	64	4.875%	4.875%					64				
685	2058	Bonneville Dam	Corps of Engineers	9/30/2008	9/30/2058	14,609	14,609	4.875%	4.875%					14,609				
686	2058	Columbia River Fish Mitigation	Corps of Engineers	9/30/2008	9/30/2058	36,554	36,554	4.875%	4.875%					36,554				
687	2058	Dworshak	Corps of Engineers	9/30/2008	9/30/2058	10	10	4.875%	4.875%					10				
688	2058	Hungry Horse Dam	Bureau of Reclamation	9/30/2008	9/30/2058	76	76	4.875%	4.875%					76				
689	2058	Ice Harbor	Corps of Engineers	9/30/2008	9/30/2058	14	14	4.875%	4.875%					14				
690	2058	Libby	Corps of Engineers	9/30/2008	9/30/2058	1,567	1,567	4.875%	4.875%					1,567				
691	2058	Little Goose	Corps of Engineers	9/30/2008	9/30/2058	13	13	4.875%	4.875%					13				
692	2058	Lower Granite	Corps of Engineers	9/30/2008	9/30/2058	24	24	4.875%	4.875%					24				
693	2058	Lower Monument	Corps of Engineers	9/30/2008	9/30/2058	9	9	4.875%	4.875%					9				
694	2058	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2008	9/30/2058	74	74	4.875%	4.875%					74				
695	2058	McNary	Corps of Engineers	9/30/2008	9/30/2058	215	215	4.875%	4.875%					215				
696	2058	The Dalles	Corps of Engineers	9/30/2008	9/30/2058	1,651	1,651	4.875%	4.875%					1,651				
697	2058	Chief Joseph	Corps of Engineers	9/30/2008	9/30/2058	3,500	3,500	4.875%	4.875%					3,500				
698	2058	Columbia Basin	Bureau of Reclamation	9/30/2008	9/30/2058	835	835	4.875%	4.875%					835				
699	2058	Replacements	-	3/31/2057	3/31/2102	205,153	205,153	5.070%	5.070%					205,153				
700		**FY 2058 Subtotal:**	**-**	**-**	**-**	**264,369**	**264,369**	**-**						**264,369**				
701	2059	Albeni Falls	Corps of Engineers	9/30/2009	9/30/2059	57	57	4.375%	4.375%					57				
702	2059	Columbia Basin	Bureau of Reclamation	9/30/2009	9/30/2059	1,338	1,338	4.375%	4.375%					1,338				
703	2059	Hungry Horse Dam	Bureau of Reclamation	9/30/2009	9/30/2059	60	60	4.375%	4.375%					60				
704	2059	John Day	Corps of Engineers	9/30/2009	9/30/2059	1,548	1,548	4.375%	4.375%					1,548				
705	2059	Yakima Chandler/Kenniwick	Bureau of Reclamation	9/30/2009	9/30/2059	15	15	4.375%	4.375%					15				
706	2059	Replacements	-	3/31/2058	3/31/2103	205,153	205,153	5.070%	5.070%					205,153				
707		**FY 2059 Subtotal:**	**-**	**-**	**-**	**208,172**	**208,172**	**-**						**208,172**				
708	2060	Replacements	-	3/31/2059	3/31/2104	205,153	205,153	5.070%	5.070%					205,153				
709		**FY 2060 Subtotal:**	**-**	**-**	**-**	**205,153**	**205,153**	**-**						**205,153**				
710	2061	Replacements	-	3/31/2060	3/31/2105	205,153	205,153	5.070%	5.070%					205,153				
711		**FY 2061 Subtotal:**	**-**	**-**	**-**	**205,153**	**205,153**	**-**						**205,153**				
712	2062	Replacements	-	3/31/2061	3/31/2106	205,153	205,153	5.070%	5.070%					205,153				
713		**FY 2062 Subtotal:**	**-**	**-**	**-**	**205,153**	**205,153**	**-**						**205,153**				
714	2063	Replacements	-	3/31/2062	3/31/2107	205,153	205,153	5.070%	5.070%					205,153				
715		**FY 2063 Subtotal:**	**-**	**-**	**-**	**205,153**	**205,153**	**-**						**205,153**				
716	2064	Replacements	-	3/31/2063	3/31/2108	205,153	205,153	5.070%	5.070%					205,153				
717		**FY 2064 Subtotal:**	**-**	**-**	**-**	**205,153**	**205,153**	**-**						**205,153**				
718	2065	Replacements	-	3/31/2064	3/31/2109	205,153	205,153	5.070%	5.070%					205,153				
719		**FY 2065 Subtotal:**	**-**	**-**	**-**	**205,153**	**205,153**	**-**						**205,153**				
720	2066	Replacements	-	3/31/2065	3/31/2110	205,153	205,153	5.070%	5.070%					205,153				
721		**FY 2066 Subtotal:**	**-**	**-**	**-**	**205,153**	**205,153**	**-**						**205,153**				
722	**Grand Total**					**$20,750,174**	**$18,899,341**	**-**						**$16,390,673**	**$275**	**$19,290**		

TABLE 11E:
Summary of Interest
October 1, 2013 - September 30, 2016 Cost Evaluation Period
($000s) (FY 2016)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1	**Obligation Type**	**General Project**	**Specific Project**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**
2	**Appropriation**	**Bureau of Reclamation**	Boise	295	295	295	295	295	295	295	295	295	295	295	295	54	4	3	3	3	3	3	3
3			Columbia Basin	5,583	5,583	5,583	5,583	5,583	5,577	5,577	5,577	5,577	5,552	5,552	5,552	989	381	255	99	99	99	99	99
4			Columbia Basin 3rd Powerhouse	32,565	29,405	29,405	29,405	29,405	23,534	22,249	20,934	11,881	11,518	8,475	903	-	-	-	-	-	-	-	-
5			Hungry Horse Dam	832	832	832	832	832	832	832	832	832	709	709	709	224	59	25	6	6	6	6	6
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			RRP - 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	1	1	1	1	1	1	1
9			Yakima Roza	1	1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
10			**Bureau of Reclamation Subtotal:**	43,616	40,457	40,457	40,457	40,457	34,580	33,295	31,981	22,928	22,415	19,372	11,800	1,312	445	284	109	109	109	109	109
11		**Corps of Engineers**	Albeni Falls	208	208	208	208	208	208	208	208	208	208	208	208	29	4	2	2	2	2	2	2
12			Bonneville 2nd Powerhouse	26,226	26,226	26,226	26,226	26,226	26,226	26,226	26,226	26,226	13,325	4,038	705	-	-	-	-	-	-	-	-
13			Bonneville Dam	8,320	8,320	8,320	8,320	8,320	8,320	7,199	7,199	7,199	7,198	7,161	7,161	2,763	1,430	1,131	712	712	712	712	712
14			Chief Joseph	16,243	16,243	16,243	16,243	16,243	16,243	14,062	14,062	8,651	1,907	1,895	1,895	1,305	1,254	172	171	171	171	171	171
15			Columbia River Fish Mitigation	54,909	57,957	63,592	67,867	67,867	67,867	67,867	67,867	67,867	67,867	67,867	67,867	57,145	48,294	37,088	18,270	18,270	18,270	18,270	18,270
16			Cougar	765	765	765	765	765	765	765	765	765	765	765	765	568	146	133	-	-	-	-	-
17			Detroit Lake/Big Cliff	100	100	100	100	100	100	100	100	100	100	100	100	79	15	15	-	-	-	-	-
18			Dworshak	7,503	892	892	892	892	892	892	892	892	862	862	862	188	112						
19			Green Peter/Foster	18	18	18	18	18	18	18	18	18	18	18	18	4	4	4	-	-	-	-	-
20			Hills Creek	171	171	171	171	171	171	171	171	171	171	171	171	8	5	5	-	-	-	-	-
21			Ice Harbor	2,289	2,289	2,289	2,289	954	807	807	807	807	802	802	775	161	158	35	1	1	1	1	1
22			John Day	1,648	1,648	1,648	1,648	1,648	1,648	1,648	1,648	1,648	1,648	1,648	1,634	481	325	283	68	68	68	68	68
23			Libby	16,744	12,811	12,729	5,925	2,327	1,537	1,537	1,537	1,537	1,515	1,515	458	84	84	83	76	76	76	76	76
24			Little Goose	4,410	4,410	4,410	4,410	4,410	4,410	4,410	866	862	862	862	776	150	143	3	1	1	1	1	1
25			Lookout Dam	740	740	740	740	740	740	740	740	740	740	740	740	423	11	11	-	-	-	-	-
26			Lost Creek	1,062	1,062	1,062	1,062	1,062	47	20	20	20	17	17	17				-	-	-	-	-
27			Lower Granite	12,441	3,679	3,679	3,679	3,679	3,679	2,346	775	775	650	650	650	321	299	1	1	1	1	1	1
28			Lower Monument	3,607	3,607	3,607	3,607	3,607	3,607	3,607	3,607	699	680	680	662	146	118	3					
29			McNary	742	742	742	742	742	716	716	716	716	716	714	714	278	244	61	10	10	10	10	10
30			The Dalles	2,922	2,403	2,403	2,403	2,403	2,403	2,403	2,403	2,403	2,403	2,403	2,403	2,025	172	80	80	80	80	80	80
31			**Corps of Engineers Subtotal:**	161,067	144,291	149,843	147,315	142,383	140,405	135,743	130,627	122,306	102,455	93,116	88,582	66,158	52,819	39,112	19,394	19,394	19,394	19,394	19,394
32		**Lower Snake Fish & Wildlife**	Lower Snake Fish and Wildlife	16,525	16,525	16,525	16,525	16,525	16,525	16,525	16,525	16,525	16,525	15,848	3,239	98	93	8	4	4	4	4	4
33			**Lower Snake Fish & Wildlife Subtotal:**	16,525	16,525	16,525	16,525	16,525	16,525	16,525	16,525	16,525	16,525	15,848	3,239	98	93	8	4	4	4	4	4
34		**Appropriation Subtotal:**		221,209	201,273	206,826	204,298	199,366	191,511	185,563	179,133	161,759	141,395	128,337	103,621	67,567	53,356	39,404	19,507	19,507	19,507	19,507	19,507
35	**Treasury**	**BPA Borrowing**	(Less Interest Income)	(6,113)	(2,505)	(3,209)	(3,166)	(3,096)	(4,996)	(4,611)	(4,746)	(4,663)	(4,641)	(5,072)	(6,409)	(6,374)	(6,450)	(6,702)	(6,996)	(6,632)	(6,836)	(7,381)	(7,740)
36			Bureau Direct	26,981	28,843	32,906	41,538	41,538	39,527	35,194	28,958	26,418	25,824	24,726	24,726	19,240	9,543	2,869	788	-	-	-	-
37			Interest Accrual	5,336	5,410	7,633	7,633	7,633	6,511	5,083	4,918	4,918	4,462	4,462	4,462	1,957	329	183	-	-	-	-	-
38			Interest Accrual Reversal	(4,647)	(5,336)	(5,410)	(7,633)	(7,633)	(7,633)	(6,511)	(5,083)	(4,918)	(4,918)	(4,462)	(4,462)	(4,462)	(1,957)	(329)	(183)	-	-	-	-
39			Conservation	8,684	10,868	12,226	15,213	15,100	15,050	15,050	15,050	14,956	14,053	9,194	8,403	6,872	5,797	3,050	-	-	-	-	-
40			Interest Accrual	2,429	2,438	3,031	2,989	2,972	2,972	2,972	2,972	2,925	1,979	1,628	1,403	870	593	-	-	-	-	-	-
41			Interest Accrual Reversal	(1,312)	(2,429)	(2,438)	(3,031)	(2,989)	(2,972)	(2,972)	(2,972)	(2,972)	(2,925)	(1,979)	(1,628)	(1,403)	(870)	(593)	-	-	-	-	-
42			Construction (AS)	1,005	985	1,328	1,537	1,363	1,334	1,140	779	371	-	-	-	-	-	-	-	-	-	-	-
43			Interest Accrual	183	263	379	348	348	329	228	142	-	-	-	-	-	-	-	-	-	-	-	-
44			Interest Accrual Reversal	(83)	(183)	(263)	(379)	(348)	(348)	(329)	(228)	(142)	-	-	-	-	-	-	-	-	-	-	-
45			Fish and Wildlife	9,091	11,158	12,867	14,702	14,702	14,173	13,116	13,116	13,116	12,148	11,371	10,460	9,020	5,567	2,318	1,166	123	-	-	-
46			Interest Accrual	2,024	2,235	2,656	2,656	2,656	2,347	2,347	2,347	2,347	2,347	2,119	2,119	1,539	610	513	83	-	-	-	-
47			Interest Accrual Reversal	(1,117)	(2,024)	(2,235)	(2,656)	(2,656)	(2,656)	(2,347)	(2,347)	(2,347)	(2,347)	(2,347)	(2,119)	(2,119)	(1,539)	(610)	(513)	(83)	-	-	-
48			Replacements	-	-	-	5,201	15,602	26,003	36,404	46,806	57,207	67,608	78,010	88,411	98,812	109,213	119,615	112,837	86,560	56,778	25,847	10,401
49			**BPA Borrowing Subtotal:**	42,461	49,724	59,471	74,952	85,194	89,641	94,765	99,713	107,216	113,590	117,651	125,367	123,952	120,836	120,314	107,182	79,968	49,941	18,466	2,662
50		**Treasury Subtotal:**		42,461	49,724	59,471	74,952	85,194	89,641	94,765	99,713	107,216	113,590	117,651	125,367	123,952	120,836	120,314	107,182	79,968	49,941	18,466	2,662
51	**Grand Total:**			**$263,670**	**$250,998**	**$266,296**	**$279,249**	**$284,559**	**$281,152**	**$280,328**	**$278,846**	**$268,975**	**$254,984**	**$245,987**	**$228,988**	**$191,519**	**$174,192**	**$159,718**	**$126,688**	**$99,474**	**$69,448**	**$37,973**	**$22,168**

TABLE 11E:
Summary of Interest
October 1, 2013 - September 30, 2016 Cost Evaluation Period
($000s) (FY 2016)

	A	B	C	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ
1	**Obligation Type**	**General Project**	**Specific Project**	**2034**	**2035**	**2036**	**2037**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**	**2046**	**2047**	**2048**	**2049**	**2050**	**2051**	**2052**	**2053**
2	**Appropriation**	**Bureau of Reclamation**	Boise	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
3			Columbia Basin	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
4			Columbia Basin 3rd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5			Hungry Horse Dam	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
6			Minidoka/Palisades	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7			RRP - Green Springs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8			Yakima Chandler/Kenniwick	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9			Yakima Roza	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10			**Bureau of Reclamation Subtotal:**	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109
11		**Corps of Engineers**	Albeni Falls	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
12			Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13			Bonneville Dam	712	712	712	712	712	712	712	712	712	712	712	712	712	712	712	712	712	712	712	712
14			Chief Joseph	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171
15			Columbia River Fish Mitigation	18,270	18,270	18,270	18,270	18,270	18,270	18,270	18,270	18,270	18,270	18,270	18,270	18,270	18,270	18,270	18,270	17,532	15,282	13,032	10,782
16			Cougar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17			Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18			Dworshak																				
19			Green Peter/Foster	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20			Hills Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21			Ice Harbor	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22			John Day	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
23			Libby	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76
24			Little Goose	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25			Lookout Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26			Lost Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27			Lower Granite	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28			Lower Monument																				
29			McNary	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
30			The Dalles	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
31			**Corps of Engineers Subtotal:**	19,394	19,394	19,394	19,394	19,394	19,394	19,394	19,394	19,394	19,394	19,394	19,394	19,394	19,394	19,394	19,394	18,656	16,406	14,156	11,906
32		**Lower Snake Fish & Wildlife**	Lower Snake Fish and Wildlife	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
33			**Lower Snake Fish & Wildlife Subtotal:**	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
34		**Appropriation Subtotal:**		19,507	19,507	19,507	19,507	19,507	19,507	19,507	19,507	19,507	19,507	19,507	19,507	19,507	19,507	19,507	19,507	18,769	16,519	14,269	12,019
35	**Treasury**	**BPA Borrowing**	(Less Interest Income)	(7,700)	(7,700)	(7,700)	(7,705)	(7,700)	(7,700)	(7,719)	(7,774)	(7,774)	(7,774)	(6,865)	(4,161)	(4,161)	(4,161)	(4,161)	(4,161)	(4,161)	(4,161)	(4,161)	(4,161)
36			Bureau Direct	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37			Interest Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38			Interest Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39			Conservation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40			Interest Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41			Interest Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42			Construction (AS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43			Interest Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44			Interest Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45			Fish and Wildlife	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46			Interest Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47			Interest Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48			Replacements	10,401	10,401	10,401	10,401	10,401	10,401	10,401	10,401	10,401	10,401	10,401	10,401	10,401	10,401	10,401	10,401	10,401	10,401	10,401	10,401
49			**BPA Borrowing Subtotal:**	2,701	2,701	2,701	2,696	2,701	2,701	2,682	2,627	2,627	2,627	3,536	6,240	6,240	6,240	6,240	6,240	6,240	6,240	6,240	6,240
50		**Treasury Subtotal:**		2,701	2,701	2,701	2,696	2,701	2,701	2,682	2,627	2,627	2,627	3,536	6,240	6,240	6,240	6,240	6,240	6,240	6,240	6,240	6,240
51	**Grand Total:**			**$22,207**	**$22,207**	**$22,207**	**$22,202**	**$22,207**	**$22,207**	**$22,189**	**$22,134**	**$22,134**	**$22,134**	**$23,043**	**$25,747**	**$25,747**	**$25,747**	**$25,747**	**$25,747**	**$25,009**	**$22,759**	**$20,509**	**$18,259**

TABLE 11E:
Summary of Interest
October 1, 2013 - September 30, 2016 Cost Evaluation Period
($000s) (FY 2016)

	A	B	C	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE
1	**Obligation Type**	**General Project**	**Specific Project**	**2054**	**2055**	**2056**	**2057**	**2058**	**2059**	**2060**	**2061**	**2062**	**2063**	**2064**	**2065**	**2066**	**Total**
2	**Appropriation**	**Bureau of Reclamation**	Boise	3	3	3	3	3	-	-	-	-	-	-	-	-	3,689
3			Columbia Basin	99	99	99	99	99	59	-	-	-	-	-	-	-	71,539
4			Columbia Basin 3rd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	249,681
5			Hungry Horse Dam	6	6	6	6	6	3	-	-	-	-	-	-	-	10,120
6			Minidoka/Palisades	-	-	-	-	-	-	-	-	-	-	-	-	-	43,715
7			RRP - Green Springs	-	-	-	-	-	-	-	-	-	-	-	-	-	7,859
8			Yakima Chandler/Kenniwick	1	1	1	1	1	1	-	-	-	-	-	-	-	586
9			Yakima Roza	-	-	-	-	-	-	-	-	-	-	-	-	-	10
10			**Bureau of Reclamation Subtotal:**	109	109	109	109	109	62	-	-	-	-	-	-	-	387,197
11		**Corps of Engineers**	Albeni Falls	2	2	2	2	2	2	-	-	-	-	-	-	-	2,614
12			Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	-	-	-	-	-	254,102
13			Bonneville Dam	712	712	712	712	712	-	-	-	-	-	-	-	-	119,725
14			Chief Joseph	171	171	171	171	171	-	-	-	-	-	-	-	-	147,781
15			Columbia River Fish Mitigation	8,532	6,282	4,032	1,782	1,782	-	-	-	-	-	-	-	-	1,392,496
16			Cougar	-	-	-	-	-	-	-	-	-	-	-	-	-	10,023
17			Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	-	-	-	-	-	1,306
18			Dworshak						-	-	-	-	-	-	-	-	17,544
19			Green Peter/Foster	-	-	-	-	-	-	-	-	-	-	-	-	-	226
20			Hills Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	2,073
21			Ice Harbor	1	1	1	1	1	-	-	-	-	-	-	-	-	16,091
22			John Day	68	68	68	68	68	68	-	-	-	-	-	-	-	22,946
23			Libby	76	76	76	76	76	-	-	-	-	-	-	-	-	62,714
24			Little Goose	1	1	1	1	1	-	-	-	-	-	-	-	-	35,415
25			Lookout Dam	-	-	-	-	-	-	-	-	-	-	-	-	-	9,329
26			Lost Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	5,469
27			Lower Granite	1	1	1	1	1	-	-	-	-	-	-	-	-	37,338
28			Lower Monument						-	-	-	-	-	-	-	-	31,856
29			McNary	10	10	10	10	10	-	-	-	-	-	-	-	-	9,616
30			The Dalles	80	80	80	80	80	-	-	-	-	-	-	-	-	34,046
31			**Corps of Engineers Subtotal:**	9,656	7,406	5,156	2,906	2,906	70	-	-	-	-	-	-	-	2,212,711
32		**Lower Snake Fish & Wildlife**	Lower Snake Fish and Wildlife	4	4	4	4	4	-	-	-	-	-	-	-	-	184,650
33			**Lower Snake Fish & Wildlife Subtotal:**	4	4	4	4	4	-	-	-	-	-	-	-	-	184,650
34		**Appropriation Subtotal:**		9,769	7,519	5,269	3,019	3,019	132	-	-	-	-	-	-	-	2,784,557
35	**Treasury**	**BPA Borrowing**	(Less Interest Income)	(4,161)	(4,161)	(4,161)	(4,161)	(4,161)	(4,161)	(4,161)	(4,161)	(4,161)	(4,161)	(4,161)	(4,161)	(4,161)	(283,993)
36			Bureau Direct	-	-	-	-	-	-	-	-	-	-	-	-	-	409,621
37			Interest Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	70,930
38			Interest Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	(75,576)
39			Conservation	-	-	-	-	-	-	-	-	-	-	-	-	-	169,568
40			Interest Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	32,173
41			Interest Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	(33,486)
42			Construction (AS)	-	-	-	-	-	-	-	-	-	-	-	-	-	9,843
43			Interest Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	2,221
44			Interest Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	(2,304)
45			Fish and Wildlife	-	-	-	-	-	-	-	-	-	-	-	-	-	168,217
46			Interest Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	30,942
47			Interest Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	(32,059)
48			Replacements	10,401	10,401	10,401	10,401	10,401	10,401	10,401	10,401	10,401	10,401	10,401	10,401	10,401	1,384,557
49			**BPA Borrowing Subtotal:**	6,240	6,240	6,240	6,240	6,240	6,240	6,240	6,240	6,240	6,240	6,240	6,240	6,240	1,850,654
50		**Treasury Subtotal:**		6,240	6,240	6,240	6,240	6,240	6,240	6,240	6,240	6,240	6,240	6,240	6,240	6,240	1,850,654
51	**Grand Total:**			**$16,009**	**$13,759**	**$11,509**	**$9,259**	**$9,259**	**$6,372**	**$6,240**	**$6,240**	**$6,240**	**$6,240**	**$6,240**	**$6,240**	**$6,240**	**$4,635,211**

TABLE 11F:
Summary of Amortization
October 1, 2013 - September 30, 2016 Cost Evaluation Period
($000s) (FY 2016)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1	Obligation Type	General Project	Specific Project	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
2			Boise	-	-	-	-	-	-	-	-	-	-	-	3,365	979	17	-	-	-	-	-	-
3			Columbia Basin	-	-	-	-	72	-	-	-	360	-	-	76,152	11,891	2,864	4,872	-	-	-	-	-
4			Columbia Basin 3rd Powerhouse	44,125	-	-	-	82,118	17,977	18,382	126,612	5,085	42,556	105,903	12,631	-	-	-	-	-	-	-	-
5			Hungry Horse Dam	-	-	-	-	-	-	-	-	1,731	-	-	6,870	3,245	779	509	-	-	-	-	-
6		Bureau of Reclamation	Minidoka/Palisades	-	-	-	-	-	-	-	-	-	-	-	50,953	-	-	7	-	-	-	-	-
7			RRP - Green Springs	-	-	-	-	-	-	-	-	-	-	-	11,145	-	-	3	-	-	-	-	-
8			Yakima Chandler/Kenniwick	-	-	-	-	-	-	-	-	-	-	-	-	833	-	-	-	-	-	-	-
9			Yakima Roza	-	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-	-	-	-	-
10			Bureau of Reclamation Subtotal:	44,125	-	-	-	82,191	17,977	18,382	126,612	7,176	42,556	105,903	161,131	16,948	3,660	5,391	-	-	-	-	-
11			Albeni Falls	-	-	-	-	-	-	-	-	-	-	-	2,510	481	42	-	-	-	-	-	-
12			Bonneville 2nd Powerhouse	-	-	-	-	-	-	-	-	180,433	129,888	46,608	9,867	-	-	-	-	-	-	-	-
13			Bonneville Dam	-	-	-	-	-	15,670	-	-	22	518	-	76,877	26,003	6,797	11,230	-	-	-	-	-
14			Chief Joseph	-	-	-	-	-	30,512	-	75,669	94,331	166	-	8,317	992	24,727	42	-	-	-	-	-
15			Columbia River Fish Mitigation	-	-	-	-	-	-	-	-	-	-	-	178,379	174,004	255,255	518,255	-	-	-	-	-
16			Cougar	-	-	-	-	-	-	-	-	-	-	-	3,648	8,250	289	4,509	-	-	-	-	-
17			Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	-	-	-	339	1,254	-	528	-	-	-	-	-
18	Appropriation		Dworshak	91,942	-	-	-	-	-	-	-	427	-	-	9,631	1,474	2,553	-	-	-	-	-	-
19			Green Peter/Foster	-	-	-	-	-	-	-	-	-	-	-	226	-	-	115	-	-	-	-	-
20			Hills Creek	-	-	-	-	-	-	-	-	-	-	-	2,667	46	-	154	-	-	-	-	-
21		Corps of Engineers	Ice Harbor	-	-	-	18,660	2,061	-	-	-	78	-	371	11,230	50	2,822	934	-	-	-	-	-
22			John Day	-	-	-	-	-	-	-	-	-	-	195	18,197	3,060	956	6,353	-	-	-	-	-
23			Libby	54,946	1,151	95,156	50,317	11,059	-	-	-	302	-	14,781	6,222	-	40	167	-	-	-	-	-
24			Little Goose	-	-	-	-	-	-	49,578	47	-	-	1,200	9,604	146	3,201	66	-	-	-	-	-
25			Lookout Dam	-	-	-	-	-	-	-	-	-	-	-	5,170	8,062	-	311	-	-	-	-	-
26			Lost Creek	-	-	-	-	14,201	380	-	-	31	-	-	265	-	-	7	-	-	-	-	-
27			Lower Granite	122,372	-	-	-	-	18,639	21,972	-	1,757	-	-	5,466	434	6,825	8	-	-	-	-	-
28			Lower Monument	-	-	-	-	-	-	-	40,669	256	-	264	8,650	549	2,617	89	-	-	-	-	-
29			McNary	-	-	-	-	351	-	-	-	-	30	-	7,819	646	4,080	1,576	-	-	-	-	-
30			The Dalles	7,240	-	-	-	-	-	-	-	-	-	-	5,987	36,159	2,030	-	-	-	-	-	-
31			Corps of Engineers Subtotal:	276,500	1,151	95,156	68,977	27,672	65,201	71,550	116,385	277,637	130,602	63,419	371,071	261,610	312,235	544,345	-	-	-	-	-
32		Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	-	-	-	-	-	-	-	-	-	9,472	176,353	44,470	102	1,924	122	-	-	-	-	-
33			Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-	-	-	-	9,472	176,353	44,470	102	1,924	122	-	-	-	-	-
34		Appropriation Subtotal:		320,625	1,151	95,156	68,977	109,863	83,178	89,932	242,997	284,813	182,630	345,676	576,672	278,660	317,819	549,857	-	-	-	-	-
35			Bureau Direct	77,000	-	-	-	-	201,000	211,000	97,000	19,000	25,000	-	-	258,571	176,901	61,162	76,114	-	-	-	-
36			Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38			Conservation	15,000	105,000	-	20,000	9,000	-	-	-	6,000	142,000	70,000	50,000	39,000	92,000	95,000	-	-	-	-	-
39			Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41			Construction (AS)	14,950	5,000	10,500	15,150	-	5,250	21,410	15,750	15,800	-	-	-	-	-	-	-	-	-	-	-
42		BPA Borrowing	Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	Bond		Fish and Wildlife	-	-	-	-	-	46,000	-	-	31,000	23,000	20,000	-	80,000	109,000	29,766	59,195	14,000	-	-	-
45			Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47			Replacements	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	677,683	769,188	815,959	814,471	205,153
48			Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50			BPA Borrowing Subtotal:	106,950	110,000	10,500	35,150	9,000	252,250	232,410	112,750	71,800	190,000	90,000	50,000	377,571	377,901	185,928	812,992	783,188	815,959	814,471	205,153
51			Discounts	-	-	-	-	-	-	-	-	-	-	-	-	(2,635)	(1,547)	(1,223)	(13,886)	-	-	-	-
52		Make Whole Call	Premiums	-	-	-	-	-	-	-	-	-	-	-	-	275	-	-	-	-	-	-	-
53			Make Whole Call Subtotal:	-	-	-	-	-	-	-	-	-	-	-	-	(2,360)	(1,547)	(1,223)	(13,886)	-	-	-	-
54		Bond Subtotal:		106,950	110,000	10,500	35,150	9,000	252,250	232,410	112,750	71,800	190,000	90,000	50,000	380,206	379,447	187,151	826,878	783,188	815,959	814,471	205,153
55		Irrigation Assistance	Irrigation Assistance	52,547	52,108	60,954	51,391	27,564	57,225	24,598	12,232	14,391	12,971	15,217	13,751	20,939	6,196	11,275	4,065	1,996	10,658	-	4,347
56	Irrigation		Irrigation Assistance Subtotal:	52,547	52,108	60,954	51,391	27,564	57,225	24,598	12,232	14,391	12,971	15,217	13,751	20,939	6,196	11,275	4,065	1,996	10,658	-	4,347
57		Irrigation Subtotal:		52,547	52,108	60,954	51,391	27,564	57,225	24,598	12,232	14,391	12,971	15,217	13,751	20,939	6,196	11,275	4,065	1,996	10,658	-	4,347
58	Grand Total:			$480,122	$163,259	$166,610	$155,517	$146,427	$392,653	$346,940	$367,979	$371,004	$385,601	$450,892	$640,423	$679,805	$703,463	$748,284	$830,943	$785,184	$826,617	$814,471	$209,500

TABLE 11F:
Summary of Amortization
October 1, 2013 - September 30, 2016 Cost Evaluation Period
($000s) (FY 2016)

	A	B	C	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ
1	**Obligation Type**	**General Project**	**Specific Project**	**2034**	**2035**	**2036**	**2037**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**	**2046**	**2047**	**2048**	**2049**	**2050**	**2051**	**2052**	**2053**
2			**Boise**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3			**Columbia Basin**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4			**Columbia Basin 3rd Powerhouse**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5			**Hungry Horse Dam**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6		**Bureau of Reclamation**	**Minidoka/Palisades**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7			**RRP - Green Springs**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8			**Yakima Chandler/Kenniwick**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9			**Yakima Roza**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10			**Bureau of Reclamation Subtotal:**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11			**Albeni Falls**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12			**Bonneville 2nd Powerhouse**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13			**Bonneville Dam**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14			**Chief Joseph**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15			**Columbia River Fish Mitigation**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16,395	50,000	50,000	50,000	50,000
16			**Cougar**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17			**Detroit Lake/Big Cliff**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	**Appropriation**		**Dworshak**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19			**Green Peter/Foster**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20			**Hills Creek**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21		**Corps of Engineers**	**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:**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16,395	50,000	50,000	50,000	50,000
32		**Lower Snake Fish & Wildlife**	**Lower Snake Fish and Wildlife**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33			**Lower Snake Fish & Wildlife Subtotal:**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34		**Appropriation Subtotal:**		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16,395	50,000	50,000	50,000	50,000
35			**Bureau Direct**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36			Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38			**Conservation**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39			Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41			**Construction (AS)**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42		**BPA Borrowing**	Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	**Bond**		**Fish and Wildlife**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45			Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47			**Replacements**	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153
48			Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50			**BPA Borrowing Subtotal:**	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153
51			**Discounts**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52		**Make Whole Call**	**Premiums**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
53			**Make Whole Call Subtotal:**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54		**Bond Subtotal:**		205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153
55		**Irrigation Assistance**	**Irrigation Assistance**	-	7,861	28,920	16,065	-	14,229	-	-	73,659	-	-	11,727	-	-	-	-	-	-	-	-
56	**Irrigation**		**Irrigation Assistance Subtotal:**	-	7,861	28,920	16,065	-	14,229	-	-	73,659	-	-	11,727	-	-	-	-	-	-	-	-
57		**Irrigation Subtotal:**		-	7,861	28,920	16,065	-	14,229	-	-	73,659	-	-	11,727	-	-	-	-	-	-	-	-
58	**Grand Total:**			$205,153	$213,014	$234,074	$221,218	$205,153	$219,383	$205,153	$205,153	$278,812	$205,153	$205,153	$216,881	$205,153	$205,153	$205,153	$221,548	$255,153	$255,153	$255,153	$255,153

TABLE 11F:
Summary of Amortization
October 1, 2013 - September 30, 2016 Cost Evaluation Period
($000s) (FY 2016)

	A	B	C	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE
1	**Obligation Type**	**General Project**	**Specific Project**	**2054**	**2055**	**2056**	**2057**	**2058**	**2059**	**2060**	**2061**	**2062**	**2063**	**2064**	**2065**	**2066**	**Total**
2			**Boise**	-	-	-	-	64	-	-	-	-	-	-	-	-	4,425
3			**Columbia Basin**	-	-	-	-	835	1,338	-	-	-	-	-	-	-	98,385
4			**Columbia Basin 3rd Powerhouse**	-	-	-	-	-	-	-	-	-	-	-	-	-	455,389
5			**Hungry Horse Dam**	-	-	-	-	76	60	-	-	-	-	-	-	-	13,271
6		**Bureau of Reclamation**	**Minidoka/Palisades**	-	-	-	-	-	-	-	-	-	-	-	-	-	50,960
7			**RRP - Green Springs**	-	-	-	-	-	-	-	-	-	-	-	-	-	11,148
8			**Yakima Chandler/Kenniwick**	-	-	-	-	-	15	-	-	-	-	-	-	-	848
9			**Yakima Roza**	-	-	-	-	-	-	-	-	-	-	-	-	-	14
10			**Bureau of Reclamation Subtotal:**	-	-	-	-	975	1,414	-	-	-	-	-	-	-	634,439
11			**Albeni Falls**	-	-	-	-	-	57	-	-	-	-	-	-	-	3,090
12			**Bonneville 2nd Powerhouse**	-	-	-	-	-	-	-	-	-	-	-	-	-	366,796
13			**Bonneville Dam**	-	-	-	-	14,609	-	-	-	-	-	-	-	-	151,726
14			**Chief Joseph**	-	-	-	-	3,500	-	-	-	-	-	-	-	-	238,256
15			**Columbia River Fish Mitigation**	50,000	50,000	50,000	-	36,554	-	-	-	-	-	-	-	-	1,528,842
16			**Cougar**	-	-	-	-	-	-	-	-	-	-	-	-	-	16,696
17			**Detroit Lake/Big Cliff**	-	-	-	-	-	-	-	-	-	-	-	-	-	2,120
18	**Appropriation**		**Dworshak**	-	-	-	-	10	-	-	-	-	-	-	-	-	106,037
19			**Green Peter/Foster**	-	-	-	-	-	-	-	-	-	-	-	-	-	340
20			**Hills Creek**	-	-	-	-	-	-	-	-	-	-	-	-	-	2,867
21		**Corps of Engineers**	**Ice Harbor**	-	-	-	-	14	-	-	-	-	-	-	-	-	36,219
22			**John Day**	-	-	-	-	-	1,548	-	-	-	-	-	-	-	30,309
23			**Libby**	-	-	-	-	1,567	-	-	-	-	-	-	-	-	235,708
24			**Little Goose**	-	-	-	-	13	-	-	-	-	-	-	-	-	63,856
25			**Lookout Dam**	-	-	-	-	-	-	-	-	-	-	-	-	-	13,543
26			**Lost Creek**	-	-	-	-	-	-	-	-	-	-	-	-	-	14,884
27			**Lower Granite**	-	-	-	-	24	-	-	-	-	-	-	-	-	177,498
28			**Lower Monument**	-	-	-	-	9	-	-	-	-	-	-	-	-	53,104
29			**McNary**	-	-	-	-	215	-	-	-	-	-	-	-	-	14,718
30			**The Dalles**	-	-	-	-	1,651	-	-	-	-	-	-	-	-	53,067
31			**Corps of Engineers Subtotal:**	50,000	50,000	50,000	-	58,167	1,605	-	-	-	-	-	-	-	3,109,677
32		**Lower Snake Fish & Wildlife**	**Lower Snake Fish and Wildlife**	-	-	-	-	74	-	-	-	-	-	-	-	-	232,518
33			**Lower Snake Fish & Wildlife Subtotal:**	-	-	-	-	74	-	-	-	-	-	-	-	-	232,518
34		**Appropriation Subtotal:**		50,000	50,000	50,000	-	59,216	3,018	-	-	-	-	-	-	-	3,976,634
35			**Bureau Direct**	-	-	-	-	-	-	-	-	-	-	-	-	-	1,202,749
36			Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38			**Conservation**	-	-	-	-	-	-	-	-	-	-	-	-	-	643,000
39			Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41			**Construction (AS)**	-	-	-	-	-	-	-	-	-	-	-	-	-	103,810
42		**BPA Borrowing**	Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	**Bond**		**Fish and Wildlife**	-	-	-	-	-	-	-	-	-	-	-	-	-	411,961
45			Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47			**Replacements**	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	10,052,519
48			Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50			**BPA Borrowing Subtotal:**	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	12,414,039
51			**Discounts**	-	-	-	-	-	-	-	-	-	-	-	-	-	(19,290)
52		**Make Whole Call**	**Premiums**	-	-	-	-	-	-	-	-	-	-	-	-	-	275
53			**Make Whole Call Subtotal:**	-	-	-	-	-	-	-	-	-	-	-	-	-	(19,015)
54		**Bond Subtotal:**		205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	205,153	12,395,024
55		**Irrigation Assistance**	**Irrigation Assistance**	-	-	-	-	-	-	-	-	-	-	-	-	-	606,885
56	**Irrigation**		**Irrigation Assistance Subtotal:**	-	-	-	-	-	-	-	-	-	-	-	-	-	606,885
57		**Irrigation Subtotal:**		-	-	-	-	-	-	-	-	-	-	-	-	-	606,885
58	**Grand Total:**			$255,153	$255,153	$255,153	$205,153	$264,369	$208,172	$205,153	$205,153	$205,153	$205,153	$205,153	$205,153	$205,153	$16,978,543

12. REPAYMENT STUDY DATA, FY 2017 STUDY

TABLE 12A:
HISTORICAL INVESTMENT
October 1, 2013 - September 30, 2017 Cost Evaluation Period
($000s) (FY 2017)

	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
1	Albeni Falls	9/30/1955	9/30/2005	6.910%	25494	-		
2	Albeni Falls	9/30/1956	9/30/2005	6.910%	11	-		
3	Albeni Falls	9/30/1957	9/30/2005	6.910%	10	0		
4	Albeni Falls	9/30/1958	9/30/2005	6.910%	11	0		
5	Albeni Falls	9/30/1959	9/30/2005	6.910%	11	0		
6	Albeni Falls	9/30/1960	9/30/2005	6.910%	10	0		
7	Albeni Falls	9/30/1961	9/30/2005	6.910%	11	0		
8	Albeni Falls	9/30/1962	9/30/2005	6.910%	11	0		
9	Albeni Falls	9/30/1963	9/30/2005	6.910%	10	0		
10	Albeni Falls	9/30/1964	9/30/2005	6.910%	11	0		
11	Albeni Falls	9/30/1965	9/30/2005	6.910%	11	0		
12	Albeni Falls	9/30/1966	9/30/2005	6.910%	10	0		
13	Albeni Falls	9/30/1967	9/30/2005	6.910%	11	0		
14	Albeni Falls	9/30/1968	9/30/2005	6.910%	11	0		
15	Albeni Falls	9/30/1969	9/30/2005	6.910%	10	0		
16	Albeni Falls	9/30/1970	9/30/2005	6.910%	11	0		
17	Albeni Falls	9/30/1971	9/30/2005	6.910%	11	0		
18	Albeni Falls	9/30/1972	9/30/2005	6.910%	10	0		
19	Albeni Falls	9/30/1973	9/30/2005	6.910%	11	0		
20	Albeni Falls	9/30/1974	9/30/2005	6.910%	11	0		
21	Albeni Falls	9/30/1975	9/30/2005	6.910%	10	0		
22	Albeni Falls	9/30/1976	9/30/2005	6.910%	11	0		
23	Albeni Falls	9/30/1977	9/30/2005	6.910%	11	0		
24	Albeni Falls	9/30/1978	9/30/2005	6.910%	10	0		
25	Albeni Falls	9/30/1979	9/30/2005	6.910%	11	0		
26	Albeni Falls	9/30/1980	9/30/2005	6.910%	11	0		
27	Albeni Falls	9/30/1981	9/30/2005	6.910%	10	0		
28	Albeni Falls	9/30/1982	9/30/2005	6.910%	11	0		
29	Albeni Falls	9/30/1983	9/30/2005	6.910%	11	0		
30	Albeni Falls	9/30/1985	9/30/2005	6.910%	7	0		
31	Albeni Falls	9/30/1986	9/30/2005	6.910%	293	0		
32	Albeni Falls	9/30/1987	9/30/2005	6.910%	12	0		
33	Albeni Falls	9/30/1987	9/30/2005	8.888%	15	0		
34	Albeni Falls	9/30/1988	9/30/2005	8.500%	328	0		
35	Albeni Falls	9/30/1989	9/30/2005	9.250%	221	0		
36	Albeni Falls	9/30/1990	9/30/2005	8.875%	1,287	0		
37	Albeni Falls	9/30/1991	9/30/2005	8.750%	43	0		
38	Albeni Falls	9/30/1991	9/30/2005	8.750%	111	0		
39	Albeni Falls	9/30/1992	9/30/2005	8.500%	7	0		
40	Albeni Falls	9/30/1992	9/30/2005	8.500%	106	0		
41	Albeni Falls	9/30/1993	9/30/2005	7.875%	295	0		
42	Albeni Falls	9/30/1993	9/30/2005	7.875%	714	0		
43	Albeni Falls	9/30/1994	9/30/2019	7.125%	61	0		
44	Albeni Falls	9/30/1994	9/30/2019	7.125%	173	0		
45	Albeni Falls	9/30/1995	9/30/2010	7.090%	17	0		
46	Albeni Falls	9/30/1995	9/30/2010	7.890%	51	0		
47	Albeni Falls	9/30/1995	9/30/2045	7.150%	443	443		
48	Albeni Falls	9/30/1995	9/30/2045	7.150%	531	531		
49	Albeni Falls	9/30/1995	9/30/2045	7.150%	1,105	1,105		
50	Albeni Falls	9/30/1996	9/30/2016	7.290%	130	0		
51	Albeni Falls	9/30/1997	9/30/2047	7.150%	431	431		
52	Albeni Falls	9/30/2005	9/30/2055	5.125%	481	481		
53	Albeni Falls	9/30/2009	9/30/2059	4.375%	57	57		
54	Albeni Falls	9/30/2010	9/30/2060	4.250%	42	42		
55	Boise	9/30/1912	9/30/1962	3.000%	1,249	0		
56	Boise	9/30/1912	9/30/1962	3.000%	285	0		
57	Boise	9/30/1926	9/30/1976	3.000%	190	0		
58	Boise	9/30/1926	9/30/1976	3.000%	832	0		
59	Boise	9/30/1950	9/30/2000	3.000%	416	0		
60	Boise	9/30/1950	9/30/2000	3.000%	95	0		
61	Boise	9/30/1951	9/30/2001	3.000%	1,873	0		
62	Boise	9/30/1951	9/30/2001	3.000%	428	0		
63	Boise	9/30/1952	9/30/2001	3.000%	11	0		
64	Boise	9/30/1952	9/30/2001	3.000%	3	0		
65	Boise	9/30/1953	9/30/2001	3.000%	11	0		

TABLE 12A:
HISTORICAL INVESTMENT
October 1, 2013 - September 30, 2017 Cost Evaluation Period
($000s) (FY 2017)

	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
66	Boise	9/30/1953	9/30/2001	3.000%	3	0		
67	Boise	9/30/1954	9/30/2001	3.000%	11	0		
68	Boise	9/30/1954	9/30/2001	3.000%	3	0		
69	Boise	9/30/1955	9/30/2001	3.000%	11	0		
70	Boise	9/30/1955	9/30/2001	3.000%	3	0		
71	Boise	9/30/1956	9/30/2001	3.000%	11	0		
72	Boise	9/30/1956	9/30/2001	3.000%	3	0		
73	Boise	9/30/1957	9/30/2001	3.000%	11	0		
74	Boise	9/30/1957	9/30/2001	3.000%	3	0		
75	Boise	9/30/1958	9/30/2001	3.000%	11	0		
76	Boise	9/30/1958	9/30/2001	3.000%	3	0		
77	Boise	9/30/1959	9/30/2001	3.000%	11	0		
78	Boise	9/30/1959	9/30/2001	3.000%	3	0		
79	Boise	9/30/1960	9/30/2001	3.000%	11	0		
80	Boise	9/30/1960	9/30/2001	3.000%	3	0		
81	Boise	9/30/1961	9/30/2001	3.000%	11	0		
82	Boise	9/30/1961	9/30/2001	3.000%	3	0		
83	Boise	9/30/1962	9/30/2001	3.000%	11	0		
84	Boise	9/30/1962	9/30/2001	3.000%	3	0		
85	Boise	9/30/1963	9/30/2001	3.000%	11	0		
86	Boise	9/30/1963	9/30/2001	3.000%	3	0		
87	Boise	9/30/1964	9/30/2001	3.000%	11	0		
88	Boise	9/30/1964	9/30/2001	3.000%	3	0		
89	Boise	9/30/1965	9/30/2001	3.000%	11	0		
90	Boise	9/30/1965	9/30/2001	3.000%	3	0		
91	Boise	9/30/1966	9/30/2001	3.000%	11	0		
92	Boise	9/30/1966	9/30/2001	3.000%	3	0		
93	Boise	9/30/1967	9/30/2001	3.000%	11	0		
94	Boise	9/30/1967	9/30/2001	3.000%	3	0		
95	Boise	9/30/1968	9/30/2001	3.000%	11	0		
96	Boise	9/30/1968	9/30/2001	3.000%	3	0		
97	Boise	9/30/1969	9/30/2001	3.000%	11	0		
98	Boise	9/30/1969	9/30/2001	3.000%	3	0		
99	Boise	9/30/1970	9/30/2001	3.000%	11	0		
100	Boise	9/30/1970	9/30/2001	3.000%	3	0		
101	Boise	9/30/1971	9/30/2001	3.000%	11	0		
102	Boise	9/30/1971	9/30/2001	3.000%	3	0		
103	Boise	9/30/1972	9/30/2001	3.000%	11	0		
104	Boise	9/30/1972	9/30/2001	3.000%	3	0		
105	Boise	9/30/1973	9/30/2001	3.000%	11	0		
106	Boise	9/30/1973	9/30/2001	3.000%	3	0		
107	Boise	9/30/1974	9/30/2001	3.000%	11	0		
108	Boise	9/30/1974	9/30/2001	3.000%	3	0		
109	Boise	9/30/1975	9/30/2001	3.000%	11	0		
110	Boise	9/30/1975	9/30/2001	3.000%	3	0		
111	Boise	9/30/1976	9/30/2001	3.000%	11	0		
112	Boise	9/30/1976	9/30/2001	3.000%	3	0		
113	Boise	9/30/1977	9/30/2001	3.000%	11	0		
114	Boise	9/30/1977	9/30/2001	3.000%	3	0		
115	Boise	9/30/1978	9/30/2001	3.000%	11	0		
116	Boise	9/30/1978	9/30/2001	3.000%	3	0		
117	Boise	9/30/1979	9/30/2001	3.000%	11	0		
118	Boise	9/30/1979	9/30/2001	3.000%	3	0		
119	Boise	9/30/1980	9/30/2001	3.000%	18	0		
120	Boise	9/30/1980	9/30/2001	3.000%	4	0		
121	Boise	9/30/1981	9/30/2001	3.000%	8	0		
122	Boise	9/30/1981	9/30/2001	3.000%	2	0		
123	Boise	9/30/1982	9/30/2001	3.000%	1	0		
124	Boise	9/30/1982	9/30/2001	3.000%	1	0		
125	Boise	9/30/1983	9/30/2001	3.000%	1	0		
126	Boise	9/30/1984	9/30/2001	10.750%	1,325	0		
127	Boise	9/30/1984	9/30/2001	10.750%	303	0		
128	Boise	9/30/1986	9/30/2001	6.710%	94	0		
129	Boise	9/30/1988	9/30/2001	8.500%	3	0		
130	Boise	9/30/1989	9/30/2001	9.250%	3,264	0		
131	Boise	9/30/1990	9/30/2001	8.875%	38	0		

TABLE 12A:
HISTORICAL INVESTMENT
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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
132	Boise	9/30/1991	9/30/2001	8.750%	50	0		
133	Boise	9/30/1993	9/30/2001	7.875%	418	0		
134	Boise	9/30/1994	9/30/1999	7.125%	7	0		
135	Boise	9/30/1996	9/30/2046	6.950%	7	0		
136	Boise	9/30/1996	9/30/2046	7.150%	442	442		
137	Boise	9/30/1996	9/30/2046	7.150%	656	656		
138	Boise	9/30/1997	9/30/2047	6.950%	9	0		
139	Boise	9/30/1997	9/30/2047	7.150%	2,266	2,266		
140	Boise	9/30/2005	9/30/2055	5.125%	903	903		
141	Boise	9/30/2006	9/30/2056	4.500%	15	15		
142	Boise	9/30/2007	9/30/2057	5.000%	76	76		
143	Boise	9/30/2008	9/30/2058	4.875%	64	64		
144	Boise	9/30/2009	9/30/2059	4.375%	2	2		
145	Bonneville 2nd Powerhouse	9/30/1981	9/30/2031	7.150%	40,964	40,964		
146	Bonneville 2nd Powerhouse	9/30/1981	9/30/2031	7.150%	455	455		
147	Bonneville 2nd Powerhouse	9/30/1982	9/30/2032	7.150%	203,535	203,535		
148	Bonneville 2nd Powerhouse	9/30/1982	9/30/2032	7.150%	2,264	2,264		
149	Bonneville 2nd Powerhouse	9/30/1983	9/30/2033	7.150%	62,409	62,409		
150	Bonneville 2nd Powerhouse	9/30/1983	9/30/2033	7.150%	694	694		
151	Bonneville 2nd Powerhouse	9/30/1985	9/30/2033	7.150%	9,138	9,138		
152	Bonneville 2nd Powerhouse	9/30/1986	9/30/2033	7.150%	30,578	30,578		
153	Bonneville 2nd Powerhouse	9/30/1987	9/30/2033	7.150%	2,801	2,801		
154	Bonneville 2nd Powerhouse	9/30/1988	9/30/2033	7.150%	1,271	1,271		
155	Bonneville 2nd Powerhouse	9/30/1989	9/30/2033	7.150%	1,232	1,232		
156	Bonneville 2nd Powerhouse	9/30/1990	9/30/2033	7.150%	1,588	1,588		
157	Bonneville 2nd Powerhouse	9/30/1991	9/30/2033	8.750%	3,998	0		
158	Bonneville 2nd Powerhouse	9/30/1991	9/30/2033	8.750%	26	0		
159	Bonneville 2nd Powerhouse	9/30/1992	9/30/2033	8.500%	2,446	0		
160	Bonneville 2nd Powerhouse	9/30/1993	9/30/2033	7.875%	3,668	0		
161	Bonneville 2nd Powerhouse	9/30/1994	9/30/2044	7.150%	5,700	5,700		
162	Bonneville 2nd Powerhouse	9/30/1995	9/30/2045	7.150%	3,791	3,791		
163	Bonneville 2nd Powerhouse	9/30/1996	9/30/2046	7.150%	376	376		
164	Bonneville Dam	9/30/1938	9/30/1988	2.500%	11,726	0		
165	Bonneville Dam	9/30/1938	9/30/1988	2.500%	130	0		
166	Bonneville Dam	9/30/1941	9/30/1991	2.500%	17,589	0		
167	Bonneville Dam	9/30/1941	9/30/1991	2.500%	196	0		
168	Bonneville Dam	9/30/1942	9/30/1992	2.500%	5,863	0		
169	Bonneville Dam	9/30/1942	9/30/1992	2.500%	65	0		
170	Bonneville Dam	9/30/1943	9/30/1993	2.500%	17,589	0		
171	Bonneville Dam	9/30/1943	9/30/1993	2.500%	196	0		
172	Bonneville Dam	9/30/1944	9/30/1994	2.500%	5,860	0		
173	Bonneville Dam	9/30/1944	9/30/1994	2.500%	65	0		
174	Bonneville Dam	9/30/1945	9/30/1994	2.500%	82	0		
175	Bonneville Dam	9/30/1945	9/30/1994	2.500%	1	0		
176	Bonneville Dam	9/30/1946	9/30/1994	2.500%	81	0		
177	Bonneville Dam	9/30/1946	9/30/1994	2.500%	1	0		
178	Bonneville Dam	9/30/1947	9/30/1994	2.500%	82	0		
179	Bonneville Dam	9/30/1947	9/30/1994	2.500%	1	0		
180	Bonneville Dam	9/30/1948	9/30/1994	2.500%	81	0		
181	Bonneville Dam	9/30/1948	9/30/1994	2.500%	1	0		
182	Bonneville Dam	9/30/1949	9/30/1994	2.500%	82	0		
183	Bonneville Dam	9/30/1949	9/30/1994	2.500%	1	0		
184	Bonneville Dam	9/30/1950	9/30/1994	2.500%	81	0		
185	Bonneville Dam	9/30/1950	9/30/1994	2.500%	11	0		
186	Bonneville Dam	9/30/1951	9/30/1994	2.500%	81	0		
187	Bonneville Dam	9/30/1951	9/30/1994	2.500%	11	0		
188	Bonneville Dam	9/30/1952	9/30/1994	2.500%	82	0		
189	Bonneville Dam	9/30/1952	9/30/1994	2.500%	1	0		
190	Bonneville Dam	9/30/1953	9/30/1994	2.500%	81	0		
191	Bonneville Dam	9/30/1953	9/30/1994	2.500%	1	0		
192	Bonneville Dam	9/30/1954	9/30/1994	2.500%	82	0		
193	Bonneville Dam	9/30/1954	9/30/1994	2.500%	1	0		
194	Bonneville Dam	9/30/1955	9/30/1994	2.500%	81	0		
195	Bonneville Dam	9/30/1955	9/30/1994	2.500%	1	0		
196	Bonneville Dam	9/30/1956	9/30/1994	2.500%	81	0		
197	Bonneville Dam	9/30/1956	9/30/1994	2.500%	1	0		

TABLE 12A:
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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
198	Bonneville Dam	9/30/1957	9/30/1994	2.500%	82	0		
199	Bonneville Dam	9/30/1957	9/30/1994	2.500%	1	0		
200	Bonneville Dam	9/30/1958	9/30/1994	2.500%	81	0		
201	Bonneville Dam	9/30/1958	9/30/1994	2.500%	1	0		
202	Bonneville Dam	9/30/1959	9/30/1994	2.500%	82	0		
203	Bonneville Dam	9/30/1959	9/30/1994	2.500%	1	0		
204	Bonneville Dam	9/30/1960	9/30/1994	2.500%	81	0		
205	Bonneville Dam	9/30/1960	9/30/1994	2.500%	1	0		
206	Bonneville Dam	9/30/1961	9/30/1994	2.500%	81	0		
207	Bonneville Dam	9/30/1961	9/30/1994	2.500%	1	0		
208	Bonneville Dam	9/30/1962	9/30/1994	2.500%	82	0		
209	Bonneville Dam	9/30/1962	9/30/1994	2.500%	1	0		
210	Bonneville Dam	9/30/1963	9/30/1994	2.500%	81	0		
211	Bonneville Dam	9/30/1963	9/30/1994	2.500%	1	0		
212	Bonneville Dam	9/30/1964	9/30/1994	2.500%	82	0		
213	Bonneville Dam	9/30/1964	9/30/1994	2.500%	1	0		
214	Bonneville Dam	9/30/1965	9/30/1994	2.500%	81	0		
215	Bonneville Dam	9/30/1965	9/30/1994	2.500%	1	0		
216	Bonneville Dam	9/30/1966	9/30/1994	2.500%	81	0		
217	Bonneville Dam	9/30/1966	9/30/1994	2.500%	1	0		
218	Bonneville Dam	9/30/1967	9/30/1994	2.500%	82	0		
219	Bonneville Dam	9/30/1967	9/30/1994	2.500%	1	0		
220	Bonneville Dam	9/30/1968	9/30/1994	2.500%	81	0		
221	Bonneville Dam	9/30/1968	9/30/1994	2.500%	1	0		
222	Bonneville Dam	9/30/1969	9/30/1994	2.500%	82	0		
223	Bonneville Dam	9/30/1969	9/30/1994	2.500%	1	0		
224	Bonneville Dam	9/30/1970	9/30/1994	2.500%	81	0		
225	Bonneville Dam	9/30/1970	9/30/1994	2.500%	1	0		
226	Bonneville Dam	9/30/1971	9/30/1994	2.500%	81	0		
227	Bonneville Dam	9/30/1971	9/30/1994	2.500%	1	0		
228	Bonneville Dam	9/30/1972	9/30/1994	2.500%	82	0		
229	Bonneville Dam	9/30/1972	9/30/1994	2.500%	1	0		
230	Bonneville Dam	9/30/1973	9/30/1994	2.500%	81	0		
231	Bonneville Dam	9/30/1973	9/30/1994	2.500%	1	0		
232	Bonneville Dam	9/30/1974	9/30/1994	2.500%	82	0		
233	Bonneville Dam	9/30/1974	9/30/1994	2.500%	1	0		
234	Bonneville Dam	9/30/1975	9/30/1994	2.500%	81	0		
235	Bonneville Dam	9/30/1975	9/30/1994	2.500%	1	0		
236	Bonneville Dam	9/30/1976	9/30/1994	2.500%	81	0		
237	Bonneville Dam	9/30/1976	9/30/1994	2.500%	1	0		
238	Bonneville Dam	9/30/1977	9/30/1994	2.500%	82	0		
239	Bonneville Dam	9/30/1977	9/30/1994	2.500%	1	0		
240	Bonneville Dam	9/30/1977	9/30/2027	7.150%	15,670	15,670		
241	Bonneville Dam	9/30/1978	9/30/1994	2.500%	81	0		
242	Bonneville Dam	9/30/1978	9/30/1994	2.500%	1	0		
243	Bonneville Dam	9/30/1979	9/30/1994	2.500%	82	0		
244	Bonneville Dam	9/30/1979	9/30/1994	2.500%	1	0		
245	Bonneville Dam	9/30/1980	9/30/1994	2.500%	81	0		
246	Bonneville Dam	9/30/1980	9/30/1994	2.500%	1	0		
247	Bonneville Dam	9/30/1981	9/30/1994	2.500%	81	0		
248	Bonneville Dam	9/30/1981	9/30/1994	2.500%	1	0		
249	Bonneville Dam	9/30/1982	9/30/1994	2.500%	82	0		
250	Bonneville Dam	9/30/1982	9/30/1994	2.500%	2	0		
251	Bonneville Dam	9/30/1983	9/30/1994	2.500%	81	0		
252	Bonneville Dam	9/30/1983	9/30/1994	2.500%	1	0		
253	Bonneville Dam	9/30/1984	9/30/1994	10.750%	873	0		
254	Bonneville Dam	9/30/1984	9/30/1994	10.750%	10	0		
255	Bonneville Dam	9/30/1985	9/30/1994	2.500%	119	0		
256	Bonneville Dam	9/30/1986	9/30/1994	2.500%	555	0		
257	Bonneville Dam	9/30/1986	9/30/1994	11.375%	454	0		
258	Bonneville Dam	9/30/1987	9/30/1994	2.500%	260	0		
259	Bonneville Dam	9/30/1987	9/30/1994	8.875%	26	0		
260	Bonneville Dam	9/30/1988	9/30/1994	8.500%	4,199	0		
261	Bonneville Dam	9/30/1988	9/30/1994	8.500%	10	0		
262	Bonneville Dam	9/30/1989	9/30/1994	9.250%	877	0		

TABLE 12A:
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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
263	Bonneville Dam	9/30/1990	9/30/1994	8.875%	519	0		
264	Bonneville Dam	9/30/1990	9/30/1994	8.875%	651	0		
265	Bonneville Dam	9/30/1991	9/30/1994	8.750%	35	0		
266	Bonneville Dam	9/30/1991	9/30/1994	8.750%	3,193	0		
267	Bonneville Dam	9/30/1992	9/30/1994	8.500%	99	0		
268	Bonneville Dam	9/30/1992	9/30/1994	8.500%	25	0		
269	Bonneville Dam	9/30/1993	9/30/2018	7.880%	5,011	0		
270	Bonneville Dam	9/30/1994	9/30/2029	7.125%	536	0		
271	Bonneville Dam	9/30/1995	9/30/2000	7.330%	8	0		
272	Bonneville Dam	9/30/1995	9/30/2010	7.090%	25	0		
273	Bonneville Dam	9/30/1995	9/30/2020	7.250%	20	0		
274	Bonneville Dam	9/30/1995	9/30/2020	7.250%	22	0		
275	Bonneville Dam	9/30/1995	9/30/2030	7.860%	53	0		
276	Bonneville Dam	9/30/1995	9/30/2035	7.860%	98	0		
277	Bonneville Dam	9/30/1995	9/30/2045	7.150%	243	243		
278	Bonneville Dam	9/30/1995	9/30/2045	7.150%	410	410		
279	Bonneville Dam	9/30/1995	9/30/2045	7.150%	440	440		
280	Bonneville Dam	9/30/1995	9/30/2045	7.860%	374	0		
281	Bonneville Dam	9/30/1996	9/30/2016	7.290%	834	0		
282	Bonneville Dam	9/30/1996	9/30/2031	7.150%	22	22		
283	Bonneville Dam	9/30/1996	9/30/2046	7.150%	18	18		
284	Bonneville Dam	9/30/1996	9/30/2046	7.150%	18	18		
285	Bonneville Dam	9/30/1996	9/30/2046	7.150%	80	80		
286	Bonneville Dam	9/30/1996	9/30/2046	7.150%	109	109		
287	Bonneville Dam	9/30/1996	9/30/2046	7.150%	142	142		
288	Bonneville Dam	9/30/1996	9/30/2046	7.150%	223	223		
289	Bonneville Dam	9/30/1996	9/30/2046	7.150%	751	751		
290	Bonneville Dam	9/30/1996	9/30/2046	7.150%	1,322	1,322		
291	Bonneville Dam	9/30/1997	9/30/2022	7.230%	122	0		
292	Bonneville Dam	9/30/1997	9/30/2032	7.150%	518	518		
293	Bonneville Dam	9/30/1997	9/30/2047	7.150%	161	161		
294	Bonneville Dam	9/30/1999	9/30/2049	5.375%	19,368	19,368		
295	Bonneville Dam	9/30/2000	9/30/2050	6.125%	24,446	24,446		
296	Bonneville Dam	9/30/2001	9/30/2051	5.875%	2,530	2,530		
297	Bonneville Dam	9/30/2002	9/30/2052	5.500%	448	448		
298	Bonneville Dam	9/30/2003	9/30/2053	5.125%	4,581	4,581		
299	Bonneville Dam	9/30/2004	9/30/2054	5.375%	26,741	26,741		
300	Bonneville Dam	9/30/2005	9/30/2055	5.125%	19,725	19,725		
301	Bonneville Dam	9/30/2006	9/30/2056	4.500%	2,628	2,628		
302	Bonneville Dam	9/30/2007	9/30/2057	5.000%	1,124	1,124		
303	Bonneville Dam	9/30/2008	9/30/2058	4.875%	14,609	14,609		
304	Bonneville Dam	9/30/2009	9/30/2059	4.375%	2,744	2,744		
305	Bonneville Dam	9/30/2010	9/30/2060	4.250%	1,425	1,425		
306	Bonneville Dam	9/30/2011	9/30/2061	3.750%	10,962	10,962		
307	Bonneville Dam	9/30/2013	9/30/2063	2.875%	268	268		
308	Chief Joseph	9/30/1955	9/30/2005	6.910%	29,164	0		
309	Chief Joseph	9/30/1956	9/30/2006	6.950%	13,643	0		
310	Chief Joseph	9/30/1957	9/30/2007	6.980%	39,586	0		
311	Chief Joseph	9/30/1958	9/30/2008	7.020%	31,901	0		
312	Chief Joseph	9/30/1959	9/30/2008	7.020%	223	0		
313	Chief Joseph	9/30/1960	9/30/2008	7.020%	223	0		
314	Chief Joseph	9/30/1961	9/30/2008	7.020%	223	0		
315	Chief Joseph	9/30/1962	9/30/2008	7.020%	223	0		
316	Chief Joseph	9/30/1963	9/30/2008	7.020%	224	0		
317	Chief Joseph	9/30/1964	9/30/2008	7.020%	223	0		
318	Chief Joseph	9/30/1965	9/30/2008	7.020%	223	0		
319	Chief Joseph	9/30/1966	9/30/2008	7.020%	223	0		
320	Chief Joseph	9/30/1967	9/30/2008	7.020%	223	0		
321	Chief Joseph	9/30/1968	9/30/2008	7.020%	224	0		
322	Chief Joseph	9/30/1969	9/30/2008	7.020%	223	0		
323	Chief Joseph	9/30/1970	9/30/2008	7.020%	223	0		
324	Chief Joseph	9/30/1971	9/30/2008	7.020%	223	0		
325	Chief Joseph	9/30/1972	9/30/2008	7.020%	223	0		
326	Chief Joseph	9/30/1973	9/30/2008	7.020%	224	0		
327	Chief Joseph	9/30/1974	9/30/2008	7.020%	223	0		

TABLE 12A:
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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
328	Chief Joseph	9/30/1975	9/30/2008	7.020%	223	0		
329	Chief Joseph	9/30/1976	9/30/2008	7.020%	223	0		
330	Chief Joseph	9/30/1977	9/30/2008	7.020%	223	0		
331	Chief Joseph	9/30/1977	9/30/2027	7.150%	30,512	30,512		
332	Chief Joseph	9/30/1978	9/30/2008	7.020%	224	0		
333	Chief Joseph	9/30/1978	9/30/2028	7.150%	75,669	75,669		
334	Chief Joseph	9/30/1979	9/30/2008	7.020%	223	0		
335	Chief Joseph	9/30/1979	9/30/2029	7.150%	60,079	60,079		
336	Chief Joseph	9/30/1980	9/30/2008	7.020%	223	0		
337	Chief Joseph	9/30/1981	9/30/2008	7.020%	223	0		
338	Chief Joseph	9/30/1982	9/30/2008	7.020%	223	0		
339	Chief Joseph	9/30/1983	9/30/2008	7.020%	224	0		
340	Chief Joseph	9/30/1984	9/30/2008	10.750%	909	0		
341	Chief Joseph	9/30/1985	9/30/2008	7.020%	46	0		
342	Chief Joseph	9/30/1985	9/30/2029	7.150%	16,372	16,372		
343	Chief Joseph	9/30/1986	9/30/2029	7.150%	5,363	5,363		
344	Chief Joseph	9/30/1987	9/30/2008	8.875%	104	0		
345	Chief Joseph	9/30/1987	9/30/2029	7.150%	3,036	3,036		
346	Chief Joseph	9/30/1988	9/30/2029	7.150%	2,722	2,722		
347	Chief Joseph	9/30/1989	9/30/2008	9.250%	327	0		
348	Chief Joseph	9/30/1989	9/30/2029	7.150%	2,227	2,227		
349	Chief Joseph	9/30/1990	9/30/2008	8.875%	1,024	0		
350	Chief Joseph	9/30/1990	9/30/2029	7.150%	4,505	4,505		
351	Chief Joseph	9/30/1991	9/30/2008	8.750%	34	0		
352	Chief Joseph	9/30/1991	9/30/2008	8.750%	293	0		
353	Chief Joseph	9/30/1991	9/30/2029	8.750%	3,840	0		
354	Chief Joseph	9/30/1992	9/30/2008	8.500%	142	0		
355	Chief Joseph	9/30/1992	9/30/2008	8.500%	717	0		
356	Chief Joseph	9/30/1992	9/30/2029	8.500%	2,032	0		
357	Chief Joseph	9/30/1993	9/30/2008	7.875%	42	0		
358	Chief Joseph	9/30/1993	9/30/2008	7.875%	794	0		
359	Chief Joseph	9/30/1993	9/30/2029	7.875%	1,360	0		
360	Chief Joseph	9/30/1994	9/30/2029	7.125%	129	0		
361	Chief Joseph	9/30/1994	9/30/2029	7.125%	65	0		
362	Chief Joseph	9/30/1994	9/30/2044	7.150%	4,280	4,017		
363	Chief Joseph	9/30/1995	9/30/2010	7.090%	15	0		
364	Chief Joseph	9/30/1995	9/30/2045	7.150%	147	147		
365	Chief Joseph	9/30/1995	9/30/2045	7.150%	562	562		
366	Chief Joseph	9/30/1995	9/30/2045	7.150%	712	712		
367	Chief Joseph	9/30/1995	9/30/2045	7.150%	784	784		
368	Chief Joseph	9/30/1996	9/30/2031	7.150%	27	27		
369	Chief Joseph	9/30/1996	9/30/2046	7.150%	3	3		
370	Chief Joseph	9/30/1996	9/30/2046	7.150%	4	4		
371	Chief Joseph	9/30/1996	9/30/2046	7.150%	355	355		
372	Chief Joseph	9/30/1996	9/30/2046	7.150%	729	729		
373	Chief Joseph	9/30/1997	9/30/2032	7.150%	166	166		
374	Chief Joseph	9/30/1997	9/30/2047	7.150%	657	657		
375	Chief Joseph	9/30/2001	9/30/2051	5.875%	345	345		
376	Chief Joseph	9/30/2002	9/30/2052	5.500%	2	2		
377	Chief Joseph	9/30/2003	9/30/2053	5.125%	992	992		
378	Chief Joseph	9/30/2008	9/30/2058	4.875%	3,500	3,500		
379	Chief Joseph	9/30/2009	9/30/2059	4.375%	24,727	24,727		
380	Chief Joseph	9/30/2011	9/30/2061	3.750%	4	4		
381	Chief Joseph	9/30/2012	9/30/2062	3.375%	28	28		
382	Chief Joseph	9/30/2013	9/30/2063	2.875%	10	10		
383	Columbia Basin	9/30/1941	9/30/1991	3.000%	10,919	0		
384	Columbia Basin	9/30/1941	9/30/1991	3.000%	1,505	0		
385	Columbia Basin	9/30/1942	9/30/1992	3.000%	16,165	0		
386	Columbia Basin	9/30/1942	9/30/1992	3.000%	3,011	0		
387	Columbia Basin	9/30/1943	9/30/1993	3.000%	8,083	0		
388	Columbia Basin	9/30/1943	9/30/1993	3.000%	1,505	0		
389	Columbia Basin	9/30/1944	9/30/1994	3.000%	16,165	0		
390	Columbia Basin	9/30/1944	9/30/1994	3.000%	3,011	0		
391	Columbia Basin	9/30/1948	9/30/1998	3.000%	24,247	0		
392	Columbia Basin	9/30/1948	9/30/1998	3.000%	4,516	0		

TABLE 12A:
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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
393	Columbia Basin	9/30/1949	9/30/1999	3.000%	24,247	0		
394	Columbia Basin	9/30/1949	9/30/1999	3.000%	4,516	0		
395	Columbia Basin	9/30/1950	9/30/2000	3.000%	16,165	0		
396	Columbia Basin	9/30/1950	9/30/2000	3.000%	3,011	0		
397	Columbia Basin	9/30/1951	9/30/2001	6.710%	28,255	0		
398	Columbia Basin	9/30/1951	9/30/2001	6.710%	5,790	0		
399	Columbia Basin	9/30/1952	9/30/2001	6.710%	258	0		
400	Columbia Basin	9/30/1952	9/30/2001	6.710%	48	0		
401	Columbia Basin	9/30/1953	9/30/2001	6.710%	258	0		
402	Columbia Basin	9/30/1953	9/30/2001	6.710%	48	0		
403	Columbia Basin	9/30/1954	9/30/2001	6.710%	258	0		
404	Columbia Basin	9/30/1954	9/30/2001	6.710%	48	0		
405	Columbia Basin	9/30/1955	9/30/2001	6.710%	258	0		
406	Columbia Basin	9/30/1955	9/30/2001	6.710%	48	0		
407	Columbia Basin	9/30/1956	9/30/2001	6.710%	259	0		
408	Columbia Basin	9/30/1956	9/30/2001	6.710%	48	0		
409	Columbia Basin	9/30/1957	9/30/2001	6.710%	258	0		
410	Columbia Basin	9/30/1957	9/30/2001	6.710%	48	0		
411	Columbia Basin	9/30/1958	9/30/2001	6.710%	258	0		
412	Columbia Basin	9/30/1958	9/30/2001	6.710%	48	0		
413	Columbia Basin	9/30/1959	9/30/2001	6.710%	258	0		
414	Columbia Basin	9/30/1959	9/30/2001	6.710%	48	0		
415	Columbia Basin	9/30/1960	9/30/2001	6.710%	258	0		
416	Columbia Basin	9/30/1960	9/30/2001	6.710%	48	0		
417	Columbia Basin	9/30/1961	9/30/2001	6.710%	259	0		
418	Columbia Basin	9/30/1961	9/30/2001	6.710%	48	0		
419	Columbia Basin	9/30/1962	9/30/2001	6.710%	258	0		
420	Columbia Basin	9/30/1962	9/30/2001	6.710%	48	0		
421	Columbia Basin	9/30/1963	9/30/2001	6.710%	258	0		
422	Columbia Basin	9/30/1963	9/30/2001	6.710%	48	0		
423	Columbia Basin	9/30/1964	9/30/2001	6.710%	258	0		
424	Columbia Basin	9/30/1964	9/30/2001	6.710%	48	0		
425	Columbia Basin	9/30/1965	9/30/2001	6.710%	258	0		
426	Columbia Basin	9/30/1965	9/30/2001	6.710%	48	0		
427	Columbia Basin	9/30/1966	9/30/2001	6.710%	259	0		
428	Columbia Basin	9/30/1966	9/30/2001	6.710%	48	0		
429	Columbia Basin	9/30/1967	9/30/2001	6.710%	258	0		
430	Columbia Basin	9/30/1967	9/30/2001	6.710%	48	0		
431	Columbia Basin	9/30/1967	9/30/2017	7.290%	758	0		
432	Columbia Basin	9/30/1968	9/30/2001	6.710%	258	0		
433	Columbia Basin	9/30/1968	9/30/2001	6.710%	48	0		
434	Columbia Basin	9/30/1969	9/30/2001	6.710%	258	0		
435	Columbia Basin	9/30/1969	9/30/2001	6.710%	48	0		
436	Columbia Basin	9/30/1970	9/30/2001	6.710%	258	0		
437	Columbia Basin	9/30/1970	9/30/2001	6.710%	48	0		
438	Columbia Basin	9/30/1971	9/30/2001	6.710%	259	0		
439	Columbia Basin	9/30/1971	9/30/2001	6.710%	48	0		
440	Columbia Basin	9/30/1972	9/30/2001	6.710%	258	0		
441	Columbia Basin	9/30/1972	9/30/2001	6.710%	48	0		
442	Columbia Basin	9/30/1973	9/30/2001	6.710%	258	0		
443	Columbia Basin	9/30/1973	9/30/2001	6.710%	48	0		
444	Columbia Basin	9/30/1974	9/30/2001	6.710%	258	0		
445	Columbia Basin	9/30/1974	9/30/2001	6.710%	48	0		
446	Columbia Basin	9/30/1975	9/30/2001	6.710%	258	0		
447	Columbia Basin	9/30/1975	9/30/2001	6.710%	48	0		
448	Columbia Basin	9/30/1976	9/30/2001	6.710%	259	0		
449	Columbia Basin	9/30/1976	9/30/2001	6.710%	48	0		
450	Columbia Basin	9/30/1977	9/30/2001	6.710%	258	0		
451	Columbia Basin	9/30/1977	9/30/2001	6.710%	48	0		
452	Columbia Basin	9/30/1978	9/30/2001	6.710%	258	0		
453	Columbia Basin	9/30/1978	9/30/2001	6.710%	48	0		
454	Columbia Basin	9/30/1979	9/30/2001	6.710%	258	0		
455	Columbia Basin	9/30/1979	9/30/2001	6.710%	48	0		
456	Columbia Basin	9/30/1980	9/30/2001	6.710%	258	0		
457	Columbia Basin	9/30/1980	9/30/2001	6.710%	48	0		

TABLE 12A:
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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
458	Columbia Basin	9/30/1981	9/30/2001	6.710%	259	0		
459	Columbia Basin	9/30/1981	9/30/2001	6.710%	48	0		
460	Columbia Basin	9/30/1982	9/30/2001	6.710%	258	0		
461	Columbia Basin	9/30/1982	9/30/2001	6.710%	48	0		
462	Columbia Basin	9/30/1983	9/30/2001	6.710%	258	0		
463	Columbia Basin	9/30/1983	9/30/2001	6.710%	48	0		
464	Columbia Basin	9/30/1984	9/30/2001	10.750%	7,815	0		
465	Columbia Basin	9/30/1984	9/30/2001	10.750%	1,455	0		
466	Columbia Basin	9/30/1985	9/30/2001	6.710%	236	0		
467	Columbia Basin	9/30/1985	9/30/2001	6.710%	11	0		
468	Columbia Basin	9/30/1985	9/30/2001	12.375%	7,338	0		
469	Columbia Basin	9/30/1985	9/30/2001	12.375%	362	0		
470	Columbia Basin	9/30/1986	9/30/2001	6.710%	127	0		
471	Columbia Basin	9/30/1987	9/30/2001	6.710%	13	0		
472	Columbia Basin	9/30/1988	9/30/2001	8.500%	184	0		
473	Columbia Basin	9/30/1988	9/30/2001	8.500%	2	0		
474	Columbia Basin	9/30/1989	9/30/2001	9.250%	1,166	0		
475	Columbia Basin	9/30/1990	9/30/2001	8.875%	928	0		
476	Columbia Basin	9/30/1991	9/30/2001	8.750%	177	0		
477	Columbia Basin	9/30/1991	9/30/2001	8.750%	1,661	0		
478	Columbia Basin	9/30/1992	9/30/2001	8.500%	445	0		
479	Columbia Basin	9/30/1992	9/30/2001	8.500%	652	0		
480	Columbia Basin	9/30/1993	9/30/2001	6.710%	792	0		
481	Columbia Basin	9/30/1995	9/30/2000	6.620%	25	0		
482	Columbia Basin	9/30/1995	9/30/2020	7.250%	206	0		
483	Columbia Basin	9/30/1995	9/30/2030	7.150%	25	0		
484	Columbia Basin	9/30/1995	9/30/2030	7.860%	270	0		
485	Columbia Basin	9/30/1995	9/30/2030	7.860%	321	0		
486	Columbia Basin	9/30/1995	9/30/2030	7.860%	323	0		
487	Columbia Basin	9/30/1995	9/30/2030	7.860%	20	0		
488	Columbia Basin	9/30/1995	9/30/2045	7.150%	287	287		
489	Columbia Basin	9/30/1995	9/30/2045	7.150%	2,511	2,453		
490	Columbia Basin	9/30/1995	9/30/2045	7.860%	450	0		
491	Columbia Basin	9/30/1995	9/30/2045	7.860%	450	0		
492	Columbia Basin	9/30/1996	9/30/2026	7.150%	72	72		
493	Columbia Basin	9/30/1996	9/30/2031	7.150%	109	109		
494	Columbia Basin	9/30/1996	9/30/2031	7.150%	251	251		
495	Columbia Basin	9/30/1996	9/30/2046	7.150%	426	426		
496	Columbia Basin	9/30/1996	9/30/2046	7.150%	368	368		
497	Columbia Basin	9/30/1997	9/30/2047	7.150%	3,393	3,393		
498	Columbia Basin	9/30/2001	9/30/2051	5.875%	69,226	69,226		
499	Columbia Basin	9/30/2005	9/30/2055	5.125%	10,963	10,963		
500	Columbia Basin	9/30/2006	9/30/2056	4.500%	1,987	1,987		
501	Columbia Basin	9/30/2007	9/30/2057	5.000%	929	929		
502	Columbia Basin	9/30/2008	9/30/2058	4.875%	835	835		
503	Columbia Basin	9/30/2009	9/30/2059	4.375%	1,338	1,338		
504	Columbia Basin	9/30/2010	9/30/2060	4.250%	877	877		
505	Columbia Basin	9/30/2011	9/30/2061	3.750%	1,723	1,723		
506	Columbia Basin	9/30/2012	9/30/2062	3.375%	25	25		
507	Columbia Basin	9/30/2013	9/30/2063	2.875%	3,124	3,124		
508	Columbia Basin 3rd Powerhouse	9/30/1975	9/30/2025	7.160%	47,328	36,690		
509	Columbia Basin 3rd Powerhouse	9/30/1975	9/30/2025	7.160%	8,702	7,435		
510	Columbia Basin 3rd Powerhouse	9/30/1976	9/30/2026	7.150%	41,330	41,330		
511	Columbia Basin 3rd Powerhouse	9/30/1976	9/30/2026	7.150%	8,037	8,037		
512	Columbia Basin 3rd Powerhouse	9/30/1977	9/30/2027	7.150%	42,764	42,764		
513	Columbia Basin 3rd Powerhouse	9/30/1977	9/30/2027	7.150%	7,964	7,964		
514	Columbia Basin 3rd Powerhouse	9/30/1978	9/30/2028	7.150%	42,399	42,399		
515	Columbia Basin 3rd Powerhouse	9/30/1978	9/30/2028	7.150%	7,896	7,896		
516	Columbia Basin 3rd Powerhouse	9/30/1979	9/30/2029	7.150%	84,118	84,118		
517	Columbia Basin 3rd Powerhouse	9/30/1979	9/30/2029	7.150%	15,666	15,666		
518	Columbia Basin 3rd Powerhouse	9/30/1983	9/30/2033	7.150%	712	712		
519	Columbia Basin 3rd Powerhouse	9/30/1983	9/30/2033	7.150%	13,003	13,003		
520	Columbia Basin 3rd Powerhouse	9/30/1984	9/30/2033	7.150%	16,965	16,965		
521	Columbia Basin 3rd Powerhouse	9/30/1984	9/30/2033	7.150%	13,192	13,192		
522	Columbia Basin 3rd Powerhouse	9/30/1984	9/30/2033	7.150%	3,160	3,160		

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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
523	Columbia Basin 3rd Powerhouse	9/30/1985	9/30/2033	7.150%	2,060	2,060		
524	Columbia Basin 3rd Powerhouse	9/30/1985	9/30/2033	7.150%	41,772	41,772		
525	Columbia Basin 3rd Powerhouse	9/30/1985	9/30/2033	7.150%	107	107		
526	Columbia Basin 3rd Powerhouse	9/30/1986	9/30/2033	7.150%	1,851	1,851		
527	Columbia Basin 3rd Powerhouse	9/30/1986	9/30/2033	7.150%	15,538	15,538		
528	Columbia Basin 3rd Powerhouse	9/30/1987	9/30/2033	7.150%	1,730	1,730		
529	Columbia Basin 3rd Powerhouse	9/30/1987	9/30/2033	7.150%	14,439	14,439		
530	Columbia Basin 3rd Powerhouse	9/30/1988	9/30/2033	7.150%	2,294	2,294		
531	Columbia Basin 3rd Powerhouse	9/30/1988	9/30/2033	7.150%	4,351	4,351		
532	Columbia Basin 3rd Powerhouse	9/30/1989	9/30/2033	7.150%	10,902	10,902		
533	Columbia Basin 3rd Powerhouse	9/30/1990	9/30/2033	7.150%	6,383	6,383		
534	Columbia Basin 3rd Powerhouse	9/30/1994	9/30/2044	7.150%	12,631	12,631		
535	Columbia River Fish Mitigation	9/30/1991	9/30/2041	8.500%	3,969	0		
536	Columbia River Fish Mitigation	9/30/1992	9/30/2042	8.500%	874	0		
537	Columbia River Fish Mitigation	9/30/1993	9/30/2043	8.500%	85,846	0		
538	Columbia River Fish Mitigation	9/30/1994	9/30/2044	8.500%	39,454	0		
539	Columbia River Fish Mitigation	9/30/1995	9/30/2045	7.150%	43,343	39,282		
540	Columbia River Fish Mitigation	9/30/1996	9/30/2046	7.150%	2,431	2,431		
541	Columbia River Fish Mitigation	9/30/1999	9/30/2049	5.375%	14,115	14,115		
542	Columbia River Fish Mitigation	9/30/2000	9/30/2050	6.125%	47,006	47,006		
543	Columbia River Fish Mitigation	9/30/2001	9/30/2051	5.875%	6,168	6,168		
544	Columbia River Fish Mitigation	9/30/2002	9/30/2052	5.500%	8,797	8,797		
545	Columbia River Fish Mitigation	9/30/2003	9/30/2053	5.125%	68,440	68,440		
546	Columbia River Fish Mitigation	9/30/2004	9/30/2054	5.375%	60,581	60,581		
547	Columbia River Fish Mitigation	9/30/2005	9/30/2055	5.125%	52,039	52,039		
548	Columbia River Fish Mitigation	9/30/2006	9/30/2056	4.500%	366,395	366,395		
549	Columbia River Fish Mitigation	9/30/2007	9/30/2057	5.000%	53,525	53,525		
550	Columbia River Fish Mitigation	9/30/2008	9/30/2058	4.875%	36,554	36,554		
551	Columbia River Fish Mitigation	9/30/2009	9/30/2059	4.375%	103,203	103,203		
552	Columbia River Fish Mitigation	9/30/2010	9/30/2060	4.250%	56,832	56,832		
553	Columbia River Fish Mitigation	9/30/2011	9/30/2061	3.750%	106,014	106,014		
554	Columbia River Fish Mitigation	9/30/2012	9/30/2062	3.375%	101,616	101,616		
555	Columbia River Fish Mitigation	9/30/2013	9/30/2063	2.875%	94,953	94,953		
556	Cougar	9/30/1964	9/30/2014	7.230%	10,414	0		
557	Cougar	9/30/1965	9/30/2014	7.230%	20	0		
558	Cougar	9/30/1966	9/30/2014	7.230%	20	0		
559	Cougar	9/30/1967	9/30/2014	7.230%	20	0		
560	Cougar	9/30/1968	9/30/2014	7.230%	20	0		
561	Cougar	9/30/1969	9/30/2014	7.230%	20	0		
562	Cougar	9/30/1970	9/30/2014	7.230%	20	0		
563	Cougar	9/30/1971	9/30/2014	7.230%	20	0		
564	Cougar	9/30/1972	9/30/2014	7.230%	20	0		
565	Cougar	9/30/1973	9/30/2014	7.230%	20	0		
566	Cougar	9/30/1974	9/30/2014	7.230%	19	0		
567	Cougar	9/30/1975	9/30/2014	7.230%	20	0		
568	Cougar	9/30/1976	9/30/2014	7.230%	20	0		
569	Cougar	9/30/1977	9/30/2014	7.230%	20	0		
570	Cougar	9/30/1978	9/30/2014	7.230%	20	0		
571	Cougar	9/30/1979	9/30/2014	7.230%	20	0		
572	Cougar	9/30/1980	9/30/2014	7.230%	20	0		
573	Cougar	9/30/1981	9/30/2014	7.230%	20	0		
574	Cougar	9/30/1982	9/30/2014	7.230%	20	0		
575	Cougar	9/30/1983	9/30/2014	7.230%	20	0		
576	Cougar	9/30/1984	9/30/2014	10.750%	1	0		
577	Cougar	9/30/1985	9/30/2014	7.230%	1	0		
578	Cougar	9/30/1986	9/30/2014	7.230%	104	0		
579	Cougar	9/30/1986	9/30/2014	11.375%	55	0		
580	Cougar	9/30/1987	9/30/2014	7.230%	45	0		
581	Cougar	9/30/1988	9/30/2014	8.500%	2	0		
582	Cougar	9/30/1989	9/30/2014	9.250%	6	0		
583	Cougar	9/30/1990	9/30/2014	8.875%	10	0		
584	Cougar	9/30/1991	9/30/2014	8.750%	1,015	0		
585	Cougar	9/30/1991	9/30/2014	8.750%	1	0		
586	Cougar	9/30/1992	9/30/2014	8.500%	2	0		
587	Cougar	9/30/1993	9/30/2014	7.875%	539	0		

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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
588	Cougar	9/30/1994	9/30/2019	7.125%	31	0		
589	Cougar	9/30/1995	9/30/2000	7.330%	3	0		
590	Cougar	9/30/1997	9/30/2047	7.150%	26	26		
591	Cougar	9/30/2004	9/30/2054	5.375%	3,622	3,622		
592	Cougar	9/30/2005	9/30/2055	5.125%	8,130	8,130		
593	Cougar	9/30/2006	9/30/2056	4.500%	109	109		
594	Cougar	9/30/2007	9/30/2057	5.000%	120	120		
595	Cougar	9/30/2009	9/30/2059	4.375%	121	121		
596	Cougar	9/30/2010	9/30/2060	4.250%	59	59		
597	Cougar	9/30/2011	9/30/2061	3.750%	282	282		
598	Cougar	9/30/2012	9/30/2062	3.375%	139	139		
599	Cougar	9/30/2013	9/30/2063	2.875%	4,088	4,088		
600	Detroit Lake/Big Cliff	9/30/1953	9/30/2003	6.840%	12,533	0		
601	Detroit Lake/Big Cliff	9/30/1954	9/30/2004	6.880%	20,162	0		
602	Detroit Lake/Big Cliff	9/30/1955	9/30/2004	6.880%	18	0		
603	Detroit Lake/Big Cliff	9/30/1956	9/30/2004	6.880%	19	0		
604	Detroit Lake/Big Cliff	9/30/1957	9/30/2004	6.880%	18	0		
605	Detroit Lake/Big Cliff	9/30/1958	9/30/2004	6.880%	19	0		
606	Detroit Lake/Big Cliff	9/30/1959	9/30/2004	6.880%	18	0		
607	Detroit Lake/Big Cliff	9/30/1960	9/30/2004	6.880%	19	0		
608	Detroit Lake/Big Cliff	9/30/1961	9/30/2004	6.880%	18	0		
609	Detroit Lake/Big Cliff	9/30/1962	9/30/2004	6.880%	19	0		
610	Detroit Lake/Big Cliff	9/30/1963	9/30/2004	6.880%	18	0		
611	Detroit Lake/Big Cliff	9/30/1964	9/30/2004	6.880%	19	0		
612	Detroit Lake/Big Cliff	9/30/1965	9/30/2004	6.880%	18	0		
613	Detroit Lake/Big Cliff	9/30/1966	9/30/2004	6.880%	19	0		
614	Detroit Lake/Big Cliff	9/30/1967	9/30/2004	6.880%	18	0		
615	Detroit Lake/Big Cliff	9/30/1968	9/30/2004	6.880%	19	0		
616	Detroit Lake/Big Cliff	9/30/1969	9/30/2004	6.880%	18	0		
617	Detroit Lake/Big Cliff	9/30/1970	9/30/2004	6.880%	19	0		
618	Detroit Lake/Big Cliff	9/30/1971	9/30/2004	6.880%	18	0		
619	Detroit Lake/Big Cliff	9/30/1972	9/30/2004	6.880%	19	0		
620	Detroit Lake/Big Cliff	9/30/1973	9/30/2004	6.880%	18	0		
621	Detroit Lake/Big Cliff	9/30/1974	9/30/2004	6.880%	19	0		
622	Detroit Lake/Big Cliff	9/30/1975	9/30/2004	6.880%	18	0		
623	Detroit Lake/Big Cliff	9/30/1976	9/30/2004	6.880%	19	0		
624	Detroit Lake/Big Cliff	9/30/1977	9/30/2004	6.880%	18	0		
625	Detroit Lake/Big Cliff	9/30/1978	9/30/2004	6.880%	19	0		
626	Detroit Lake/Big Cliff	9/30/1979	9/30/2004	6.880%	18	0		
627	Detroit Lake/Big Cliff	9/30/1980	9/30/2004	6.880%	19	0		
628	Detroit Lake/Big Cliff	9/30/1981	9/30/2004	6.880%	18	0		
629	Detroit Lake/Big Cliff	9/30/1982	9/30/2004	6.880%	19	0		
630	Detroit Lake/Big Cliff	9/30/1983	9/30/2004	6.880%	18	0		
631	Detroit Lake/Big Cliff	9/30/1984	9/30/2004	10.750%	21	0		
632	Detroit Lake/Big Cliff	9/30/1985	9/30/2004	6.880%	6	0		
633	Detroit Lake/Big Cliff	9/30/1986	9/30/2004	11.375%	38	0		
634	Detroit Lake/Big Cliff	9/30/1987	9/30/2004	6.880%	3	0		
635	Detroit Lake/Big Cliff	9/30/1987	9/30/2004	8.875%	233	0		
636	Detroit Lake/Big Cliff	9/30/1988	9/30/2004	8.500%	68	0		
637	Detroit Lake/Big Cliff	9/30/1989	9/30/2004	9.250%	26	0		
638	Detroit Lake/Big Cliff	9/30/1990	9/30/2004	8.875%	115	0		
639	Detroit Lake/Big Cliff	9/30/1991	9/30/2004	8.750%	9	0		
640	Detroit Lake/Big Cliff	9/30/1991	9/30/2004	8.750%	20	0		
641	Detroit Lake/Big Cliff	9/30/1992	9/30/2004	8.500%	8	0		
642	Detroit Lake/Big Cliff	9/30/1993	9/30/2004	7.875%	211	0		
643	Detroit Lake/Big Cliff	9/30/1994	9/30/1999	7.125%	7	0		
644	Detroit Lake/Big Cliff	9/30/1995	9/30/2000	7.330%	13	0		
645	Detroit Lake/Big Cliff	9/30/1995	9/30/2045	7.150%	38	38		
646	Detroit Lake/Big Cliff	9/30/1996	9/30/2006	6.950%	24	0		
647	Detroit Lake/Big Cliff	9/30/2001	9/30/2051	5.875%	282	282		
648	Detroit Lake/Big Cliff	9/30/2002	9/30/2052	5.500%	18	18		
649	Detroit Lake/Big Cliff	9/30/2003	9/30/2053	5.125%	223	223		
650	Detroit Lake/Big Cliff	9/30/2005	9/30/2055	5.125%	1,031	1,031		
651	Detroit Lake/Big Cliff	9/30/2013	9/30/2063	2.875%	528	528		
652	Dworshak	9/30/1973	9/30/2023	7.190%	138,443	91,942		

TABLE 12A:
HISTORICAL INVESTMENT
October 1, 2013 - September 30, 2017 Cost Evaluation Period
($000s) (FY 2017)

	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
653	Dworshak	9/30/1973	9/30/2023	7.190%	836	0		
654	Dworshak	9/30/1974	9/30/2023	7.190%	515	0		
655	Dworshak	9/30/1974	9/30/2023	7.190%	3	0		
656	Dworshak	9/30/1975	9/30/2023	7.190%	518	0		
657	Dworshak	9/30/1975	9/30/2023	7.190%	3	0		
658	Dworshak	9/30/1976	9/30/2023	7.190%	518	0		
659	Dworshak	9/30/1976	9/30/2023	7.190%	3	0		
660	Dworshak	9/30/1977	9/30/2023	7.190%	518	0		
661	Dworshak	9/30/1977	9/30/2023	7.190%	3	0		
662	Dworshak	9/30/1978	9/30/2023	7.190%	518	0		
663	Dworshak	9/30/1978	9/30/2023	7.190%	3	0		
664	Dworshak	9/30/1979	9/30/2023	7.190%	518	0		
665	Dworshak	9/30/1979	9/30/2023	7.190%	3	0		
666	Dworshak	9/30/1980	9/30/2023	7.190%	518	0		
667	Dworshak	9/30/1980	9/30/2023	7.190%	3	0		
668	Dworshak	9/30/1981	9/30/2023	7.190%	518	0		
669	Dworshak	9/30/1981	9/30/2023	7.190%	3	0		
670	Dworshak	9/30/1982	9/30/2023	7.190%	518	0		
671	Dworshak	9/30/1982	9/30/2023	7.190%	3	0		
672	Dworshak	9/30/1983	9/30/2023	7.190%	523	0		
673	Dworshak	9/30/1983	9/30/2023	7.190%	3	0		
674	Dworshak	9/30/1984	9/30/2023	10.750%	2,499	0		
675	Dworshak	9/30/1984	9/30/2023	10.750%	15	0		
676	Dworshak	9/30/1985	9/30/2023	7.190%	1,141	0		
677	Dworshak	9/30/1986	9/30/2023	7.190%	197	0		
678	Dworshak	9/30/1987	9/30/2023	7.190%	36	0		
679	Dworshak	9/30/1987	9/30/2023	8.875%	65	0		
680	Dworshak	9/30/1988	9/30/2023	8.500%	61	0		
681	Dworshak	9/30/1989	9/30/2023	9.250%	63	0		
682	Dworshak	9/30/1990	9/30/2023	8.875%	245	0		
683	Dworshak	9/30/1990	9/30/2023	8.875%	24	0		
684	Dworshak	9/30/1991	9/30/2023	8.750%	224	0		
685	Dworshak	9/30/1992	9/30/2023	2.625%	4	0		
686	Dworshak	9/30/1992	9/30/2023	8.500%	28	0		
687	Dworshak	9/30/1992	9/30/2023	8.500%	24	0		
688	Dworshak	9/30/1993	9/30/2023	7.875%	41	0		
689	Dworshak	9/30/1993	9/30/2023	7.875%	1,872	0		
690	Dworshak	9/30/1994	9/30/2029	7.125%	1,351	0		
691	Dworshak	9/30/1994	9/30/2029	7.125%	964	0		
692	Dworshak	9/30/1995	9/30/2020	7.930%	55	0		
693	Dworshak	9/30/1995	9/30/2030	7.150%	218	218		
694	Dworshak	9/30/1995	9/30/2045	7.150%	1,162	1,162		
695	Dworshak	9/30/1996	9/30/2011	7.130%	107	0		
696	Dworshak	9/30/1996	9/30/2021	7.230%	26	0		
697	Dworshak	9/30/1996	9/30/2021	7.230%	184	0		
698	Dworshak	9/30/1996	9/30/2031	7.150%	6	6		
699	Dworshak	9/30/1996	9/30/2031	7.150%	203	203		
700	Dworshak	9/30/1996	9/30/2046	7.150%	3	3		
701	Dworshak	9/30/1996	9/30/2046	7.150%	4	4		
702	Dworshak	9/30/1996	9/30/2046	7.150%	46	46		
703	Dworshak	9/30/1997	9/30/2047	7.150%	7,588	7,588		
704	Dworshak	9/30/1999	9/30/2049	5.375%	630	630		
705	Dworshak	9/30/2002	9/30/2052	5.500%	199	199		
706	Dworshak	9/30/2003	9/30/2053	5.125%	761	761		
707	Dworshak	9/30/2005	9/30/2055	5.125%	713	713		
708	Dworshak	9/30/2006	9/30/2056	4.500%	73	73		
709	Dworshak	9/30/2008	9/30/2058	4.875%	10	10		
710	Dworshak	9/30/2009	9/30/2059	4.375%	2,480	2,480		
711	Green Peter/Foster	9/30/1967	9/30/2017	7.290%	24,445	0		
712	Green Peter/Foster	9/30/1968	9/30/2018	7.280%	12,180	0		
713	Green Peter/Foster	9/30/1969	9/30/2018	7.280%	39	0		
714	Green Peter/Foster	9/30/1970	9/30/2018	7.280%	40	0		
715	Green Peter/Foster	9/30/1971	9/30/2018	7.280%	39	0		
716	Green Peter/Foster	9/30/1972	9/30/2018	7.280%	39	0		
717	Green Peter/Foster	9/30/1973	9/30/2018	7.280%	39	0		

	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
718	Green Peter/Foster	9/30/1974	9/30/2018	7.280%	39	0		
719	Green Peter/Foster	9/30/1975	9/30/2018	7.280%	39	0		
720	Green Peter/Foster	9/30/1976	9/30/2018	7.280%	39	0		
721	Green Peter/Foster	9/30/1977	9/30/2018	7.280%	39	0		
722	Green Peter/Foster	9/30/1978	9/30/2018	7.280%	39	0		
723	Green Peter/Foster	9/30/1979	9/30/2018	7.280%	39	0		
724	Green Peter/Foster	9/30/1980	9/30/2018	7.280%	40	0		
725	Green Peter/Foster	9/30/1981	9/30/2018	7.280%	39	0		
726	Green Peter/Foster	9/30/1982	9/30/2018	7.280%	39	0		
727	Green Peter/Foster	9/30/1983	9/30/2018	7.280%	39	0		
728	Green Peter/Foster	9/30/1984	9/30/2018	10.750%	15	0		
729	Green Peter/Foster	9/30/1985	9/30/2018	7.280%	16	0		
730	Green Peter/Foster	9/30/1986	9/30/2018	7.280%	3	0		
731	Green Peter/Foster	9/30/1986	9/30/2018	11.375%	3	0		
732	Green Peter/Foster	9/30/1987	9/30/2018	7.280%	1	0		
733	Green Peter/Foster	9/30/1987	9/30/2018	8.875%	2	0		
734	Green Peter/Foster	9/30/1988	9/30/2018	8.500%	13	0		
735	Green Peter/Foster	9/30/1989	9/30/2018	9.250%	24	0		
736	Green Peter/Foster	9/30/1990	9/30/2018	8.875%	5	0		
737	Green Peter/Foster	9/30/1991	9/30/2018	8.750%	48	0		
738	Green Peter/Foster	9/30/1992	9/30/2018	8.500%	2	0		
739	Green Peter/Foster	9/30/1993	9/30/2018	7.875%	41	0		
740	Green Peter/Foster	9/30/1994	9/30/1999	7.125%	6	0		
741	Green Peter/Foster	9/30/1995	9/30/2000	7.330%	4	0		
742	Green Peter/Foster	9/30/1995	9/30/2020	7.250%	11	0		
743	Green Peter/Foster	9/30/1995	9/30/2020	7.250%	24	0		
744	Green Peter/Foster	9/30/1996	9/30/2046	7.150%	26	26		
745	Green Peter/Foster	9/30/2001	9/30/2051	5.875%	200	200		
746	Green Peter/Foster	9/30/2011	9/30/2061	3.750%	87	87		
747	Green Peter/Foster	9/30/2012	9/30/2062	3.375%	28	28		
748	Hills Creek	9/30/1962	9/30/2012	7.160%	10,353	0		
749	Hills Creek	9/30/1963	9/30/2012	7.160%	12	0		
750	Hills Creek	9/30/1964	9/30/2012	7.160%	13	0		
751	Hills Creek	9/30/1965	9/30/2012	7.160%	13	0		
752	Hills Creek	9/30/1966	9/30/2012	7.160%	13	0		
753	Hills Creek	9/30/1967	9/30/2012	7.160%	13	0		
754	Hills Creek	9/30/1968	9/30/2012	7.160%	13	0		
755	Hills Creek	9/30/1969	9/30/2012	7.160%	13	0		
756	Hills Creek	9/30/1970	9/30/2012	7.160%	13	0		
757	Hills Creek	9/30/1971	9/30/2012	7.160%	13	0		
758	Hills Creek	9/30/1972	9/30/2012	7.160%	13	0		
759	Hills Creek	9/30/1973	9/30/2012	7.160%	13	0		
760	Hills Creek	9/30/1974	9/30/2012	7.160%	13	0		
761	Hills Creek	9/30/1975	9/30/2012	7.160%	13	0		
762	Hills Creek	9/30/1976	9/30/2012	7.160%	13	0		
763	Hills Creek	9/30/1977	9/30/2012	7.160%	13	0		
764	Hills Creek	9/30/1978	9/30/2012	7.160%	13	0		
765	Hills Creek	9/30/1979	9/30/2012	7.160%	13	0		
766	Hills Creek	9/30/1980	9/30/2012	7.160%	13	0		
767	Hills Creek	9/30/1981	9/30/2012	7.160%	13	0		
768	Hills Creek	9/30/1982	9/30/2012	7.160%	13	0		
769	Hills Creek	9/30/1983	9/30/2012	7.160%	13	0		
770	Hills Creek	9/30/1984	9/30/2012	10.750%	52	0		
771	Hills Creek	9/30/1985	9/30/2012	7.160%	6	0		
772	Hills Creek	9/30/1987	9/30/2012	8.875%	3	0		
773	Hills Creek	9/30/1988	9/30/2012	8.500%	3	0		
774	Hills Creek	9/30/1990	9/30/2012	8.875%	3	0		
775	Hills Creek	9/30/1991	9/30/2012	8.750%	17	0		
776	Hills Creek	9/30/1992	9/30/2012	8.500%	1	0		
777	Hills Creek	9/30/1993	9/30/2012	7.875%	13	0		
778	Hills Creek	9/30/1996	9/30/2046	7.150%	28	28		
779	Hills Creek	9/30/2000	9/30/2050	6.125%	2,630	2,630		
780	Hills Creek	9/30/2001	9/30/2051	5.875%	8	8		
781	Hills Creek	9/30/2002	9/30/2052	5.500%	2	2		
782	Hills Creek	9/30/2005	9/30/2055	5.125%	46	46		

TABLE 12A:
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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
783	Hills Creek	9/30/2011	9/30/2061	3.750%	12	12		
784	Hills Creek	9/30/2012	9/30/2062	3.375%	142	142		
785	Hungry Horse Dam	9/30/1953	9/30/2003	6.840%	75,076	0		
786	Hungry Horse Dam	9/30/1953	9/30/2003	6.840%	2,126	0		
787	Hungry Horse Dam	9/30/1954	9/30/2003	6.840%	17	0		
788	Hungry Horse Dam	9/30/1954	9/30/2003	6.840%	1	0		
789	Hungry Horse Dam	9/30/1955	9/30/2003	6.840%	17	0		
790	Hungry Horse Dam	9/30/1955	9/30/2003	6.840%	1	0		
791	Hungry Horse Dam	9/30/1956	9/30/2003	6.840%	17	0		
792	Hungry Horse Dam	9/30/1956	9/30/2003	6.840%	1	0		
793	Hungry Horse Dam	9/30/1957	9/30/2003	6.840%	18	0		
794	Hungry Horse Dam	9/30/1957	9/30/2003	6.840%	1	0		
795	Hungry Horse Dam	9/30/1958	9/30/2003	6.840%	18	0		
796	Hungry Horse Dam	9/30/1958	9/30/2003	6.840%	1	0		
797	Hungry Horse Dam	9/30/1959	9/30/2003	6.840%	18	0		
798	Hungry Horse Dam	9/30/1959	9/30/2003	6.840%	1	0		
799	Hungry Horse Dam	9/30/1960	9/30/2003	6.840%	18	0		
800	Hungry Horse Dam	9/30/1960	9/30/2003	6.840%	1	0		
801	Hungry Horse Dam	9/30/1961	9/30/2003	6.840%	18	0		
802	Hungry Horse Dam	9/30/1961	9/30/2003	6.840%	1	0		
803	Hungry Horse Dam	9/30/1962	9/30/2003	6.840%	18	0		
804	Hungry Horse Dam	9/30/1962	9/30/2003	6.840%	1	0		
805	Hungry Horse Dam	9/30/1963	9/30/2003	6.840%	18	0		
806	Hungry Horse Dam	9/30/1963	9/30/2003	6.840%	1	0		
807	Hungry Horse Dam	9/30/1964	9/30/2003	6.840%	17	0		
808	Hungry Horse Dam	9/30/1964	9/30/2003	6.840%	1	0		
809	Hungry Horse Dam	9/30/1965	9/30/2003	6.840%	17	0		
810	Hungry Horse Dam	9/30/1965	9/30/2003	6.840%	1	0		
811	Hungry Horse Dam	9/30/1966	9/30/2003	6.840%	17	0		
812	Hungry Horse Dam	9/30/1966	9/30/2003	6.840%	1	0		
813	Hungry Horse Dam	9/30/1967	9/30/2003	6.840%	18	0		
814	Hungry Horse Dam	9/30/1967	9/30/2003	6.840%	1	0		
815	Hungry Horse Dam	9/30/1968	9/30/2003	6.840%	18	0		
816	Hungry Horse Dam	9/30/1968	9/30/2003	6.840%	1	0		
817	Hungry Horse Dam	9/30/1969	9/30/2003	6.840%	18	0		
818	Hungry Horse Dam	9/30/1969	9/30/2003	6.840%	1	0		
819	Hungry Horse Dam	9/30/1970	9/30/2003	6.840%	18	0		
820	Hungry Horse Dam	9/30/1970	9/30/2003	6.840%	1	0		
821	Hungry Horse Dam	9/30/1971	9/30/2003	6.840%	18	0		
822	Hungry Horse Dam	9/30/1971	9/30/2003	6.840%	1	0		
823	Hungry Horse Dam	9/30/1972	9/30/2003	6.840%	18	0		
824	Hungry Horse Dam	9/30/1972	9/30/2003	6.840%	1	0		
825	Hungry Horse Dam	9/30/1973	9/30/2003	6.840%	18	0		
826	Hungry Horse Dam	9/30/1973	9/30/2003	6.840%	1	0		
827	Hungry Horse Dam	9/30/1974	9/30/2003	6.840%	17	0		
828	Hungry Horse Dam	9/30/1974	9/30/2003	6.840%	1	0		
829	Hungry Horse Dam	9/30/1975	9/30/2003	6.840%	17	0		
830	Hungry Horse Dam	9/30/1975	9/30/2003	6.840%	1	0		
831	Hungry Horse Dam	9/30/1976	9/30/2003	6.840%	10	0		
832	Hungry Horse Dam	9/30/1976	9/30/2003	6.840%	1	0		
833	Hungry Horse Dam	9/30/1977	9/30/2003	6.840%	18	0		
834	Hungry Horse Dam	9/30/1977	9/30/2003	6.840%	1	0		
835	Hungry Horse Dam	9/30/1978	9/30/2003	6.840%	18	0		
836	Hungry Horse Dam	9/30/1978	9/30/2003	6.840%	1	0		
837	Hungry Horse Dam	9/30/1979	9/30/2003	6.840%	18	0		
838	Hungry Horse Dam	9/30/1979	9/30/2003	6.840%	1	0		
839	Hungry Horse Dam	9/30/1980	9/30/2003	6.840%	18	0		
840	Hungry Horse Dam	9/30/1980	9/30/2003	6.840%	1	0		
841	Hungry Horse Dam	9/30/1981	9/30/2003	6.840%	22	0		
842	Hungry Horse Dam	9/30/1981	9/30/2003	6.840%	1	0		
843	Hungry Horse Dam	9/30/1982	9/30/2003	6.840%	1	0		
844	Hungry Horse Dam	9/30/1983	9/30/2003	6.840%	12	0		
845	Hungry Horse Dam	9/30/1983	9/30/2003	6.840%	1	0		
846	Hungry Horse Dam	9/30/1984	9/30/2003	10.750%	32	0		
847	Hungry Horse Dam	9/30/1984	9/30/2003	10.750%	1	0		

TABLE 12A:
HISTORICAL INVESTMENT
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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
848	Hungry Horse Dam	9/30/1985	9/30/2003	12.375%	36	0		
849	Hungry Horse Dam	9/30/1985	9/30/2003	12.375%	37	0		
850	Hungry Horse Dam	9/30/1989	9/30/2003	9.250%	101	0		
851	Hungry Horse Dam	9/30/1990	9/30/2003	8.875%	58	0		
852	Hungry Horse Dam	9/30/1991	9/30/2003	8.750%	19	0		
853	Hungry Horse Dam	9/30/1992	9/30/2003	8.500%	9	0		
854	Hungry Horse Dam	9/30/1993	9/30/2003	7.875%	4,136	0		
855	Hungry Horse Dam	9/30/1993	9/30/2003	7.875%	2	0		
856	Hungry Horse Dam	9/30/1994	9/30/2019	7.125%	56	0		
857	Hungry Horse Dam	9/30/1995	9/30/2000	6.620%	156	0		
858	Hungry Horse Dam	9/30/1995	9/30/2000	6.620%	84	0		
859	Hungry Horse Dam	9/30/1995	9/30/2020	7.930%	450	0		
860	Hungry Horse Dam	9/30/1995	9/30/2030	7.150%	536	536		
861	Hungry Horse Dam	9/30/1995	9/30/2030	7.150%	1,198	1,195		
862	Hungry Horse Dam	9/30/1995	9/30/2045	7.150%	6,190	6,190		
863	Hungry Horse Dam	9/30/1995	9/30/2045	7.860%	14,354	0		
864	Hungry Horse Dam	9/30/1996	9/30/2046	7.150%	15	15		
865	Hungry Horse Dam	9/30/1996	9/30/2046	7.150%	2	2		
866	Hungry Horse Dam	9/30/1997	9/30/2007	6.950%	154	0		
867	Hungry Horse Dam	9/30/1997	9/30/2047	7.150%	111	111		
868	Hungry Horse Dam	9/30/2001	9/30/2051	5.875%	552	552		
869	Hungry Horse Dam	9/30/2005	9/30/2055	5.125%	2,951	2,951		
870	Hungry Horse Dam	9/30/2007	9/30/2057	5.000%	294	294		
871	Hungry Horse Dam	9/30/2008	9/30/2058	4.875%	76	76		
872	Hungry Horse Dam	9/30/2009	9/30/2059	4.375%	60	60		
873	Hungry Horse Dam	9/30/2010	9/30/2060	4.250%	779	779		
874	Hungry Horse Dam	9/30/2011	9/30/2061	3.750%	503	503		
875	Hungry Horse Dam	9/30/2012	9/30/2062	3.375%	6	6		
876	Ice Harbor	9/30/1962	9/30/2012	7.160%	59,699	0		
877	Ice Harbor	9/30/1962	9/30/2012	7.160%	664	0		
878	Ice Harbor	9/30/1963	9/30/2012	7.160%	46	0		
879	Ice Harbor	9/30/1963	9/30/2012	7.160%	1	0		
880	Ice Harbor	9/30/1964	9/30/2012	7.160%	46	0		
881	Ice Harbor	9/30/1964	9/30/2012	7.160%	1	0		
882	Ice Harbor	9/30/1965	9/30/2012	7.160%	46	0		
883	Ice Harbor	9/30/1965	9/30/2012	7.160%	1	0		
884	Ice Harbor	9/30/1966	9/30/2012	7.160%	46	0		
885	Ice Harbor	9/30/1966	9/30/2012	7.160%	1	0		
886	Ice Harbor	9/30/1967	9/30/2012	7.160%	46	0		
887	Ice Harbor	9/30/1967	9/30/2012	7.160%	1	0		
888	Ice Harbor	9/30/1968	9/30/2012	7.160%	46	0		
889	Ice Harbor	9/30/1968	9/30/2012	7.160%	1	0		
890	Ice Harbor	9/30/1969	9/30/2012	7.160%	46	0		
891	Ice Harbor	9/30/1969	9/30/2012	7.160%	1	0		
892	Ice Harbor	9/30/1970	9/30/2012	7.160%	46	0		
893	Ice Harbor	9/30/1970	9/30/2012	7.160%	1	0		
894	Ice Harbor	9/30/1971	9/30/2012	7.160%	46	0		
895	Ice Harbor	9/30/1971	9/30/2012	7.160%	1	0		
896	Ice Harbor	9/30/1972	9/30/2012	7.160%	46	0		
897	Ice Harbor	9/30/1972	9/30/2012	7.160%	1	0		
898	Ice Harbor	9/30/1973	9/30/2012	7.160%	46	0		
899	Ice Harbor	9/30/1973	9/30/2012	7.160%	1	0		
900	Ice Harbor	9/30/1974	9/30/2012	7.160%	46	0		
901	Ice Harbor	9/30/1974	9/30/2012	7.160%	1	0		
902	Ice Harbor	9/30/1975	9/30/2012	7.160%	46	0		
903	Ice Harbor	9/30/1975	9/30/2012	7.160%	1	0		
904	Ice Harbor	9/30/1976	9/30/2012	7.160%	46	0		
905	Ice Harbor	9/30/1976	9/30/2012	7.160%	1	0		
906	Ice Harbor	9/30/1976	9/30/2026	7.150%	20,472	20,472		
907	Ice Harbor	9/30/1976	9/30/2026	7.150%	228	228		
908	Ice Harbor	9/30/1977	9/30/2012	7.160%	46	0		
909	Ice Harbor	9/30/1977	9/30/2012	7.160%	1	0		
910	Ice Harbor	9/30/1978	9/30/2012	7.160%	46	0		
911	Ice Harbor	9/30/1978	9/30/2012	7.160%	1	0		
912	Ice Harbor	9/30/1979	9/30/2012	7.160%	46	0		

TABLE 12A:
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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
913	Ice Harbor	9/30/1979	9/30/2012	7.160%	1	0		
914	Ice Harbor	9/30/1980	9/30/2012	7.160%	46	0		
915	Ice Harbor	9/30/1980	9/30/2012	7.160%	1	0		
916	Ice Harbor	9/30/1981	9/30/2012	7.160%	46	0		
917	Ice Harbor	9/30/1981	9/30/2012	7.160%	1	0		
918	Ice Harbor	9/30/1982	9/30/2012	7.160%	46	0		
919	Ice Harbor	9/30/1982	9/30/2012	7.160%	1	0		
920	Ice Harbor	9/30/1983	9/30/2012	7.160%	46	0		
921	Ice Harbor	9/30/1983	9/30/2012	7.160%	1	0		
922	Ice Harbor	9/30/1985	9/30/2012	7.160%	41	0		
923	Ice Harbor	9/30/1985	9/30/2026	7.150%	21	21		
924	Ice Harbor	9/30/1986	9/30/2012	7.160%	137	0		
925	Ice Harbor	9/30/1987	9/30/2012	7.160%	3	0		
926	Ice Harbor	9/30/1987	9/30/2012	8.875%	71	0		
927	Ice Harbor	9/30/1987	9/30/2012	8.875%	1	0		
928	Ice Harbor	9/30/1988	9/30/2012	8.500%	8	0		
929	Ice Harbor	9/30/1988	9/30/2012	8.500%	57	0		
930	Ice Harbor	9/30/1989	9/30/2012	9.250%	51	0		
931	Ice Harbor	9/30/1990	9/30/2012	8.875%	427	0		
932	Ice Harbor	9/30/1991	9/30/2012	8.750%	348	0		
933	Ice Harbor	9/30/1992	9/30/2012	8.500%	177	0		
934	Ice Harbor	9/30/1993	9/30/2012	7.875%	3,192	0		
935	Ice Harbor	9/30/1993	9/30/2012	7.875%	1,645	0		
936	Ice Harbor	9/30/1994	9/30/2029	7.125%	328	0		
937	Ice Harbor	9/30/1994	9/30/2029	7.125%	520	0		
938	Ice Harbor	9/30/1995	9/30/2000	7.330%	2	0		
939	Ice Harbor	9/30/1995	9/30/2019	7.270%	84	0		
940	Ice Harbor	9/30/1995	9/30/2019	7.270%	171	0		
941	Ice Harbor	9/30/1995	9/30/2019	7.270%	849	0		
942	Ice Harbor	9/30/1996	9/30/2031	7.150%	78	78		
943	Ice Harbor	9/30/1996	9/30/2041	7.150%	371	371		
944	Ice Harbor	9/30/1997	9/30/2022	7.230%	66	0		
945	Ice Harbor	9/30/1997	9/30/2047	7.150%	67	67		
946	Ice Harbor	9/30/1999	9/30/2049	5.375%	5,516	5,516		
947	Ice Harbor	9/30/2000	9/30/2050	6.125%	548	548		
948	Ice Harbor	9/30/2001	9/30/2051	5.875%	764	764		
949	Ice Harbor	9/30/2002	9/30/2052	5.500%	1,014	1,014		
950	Ice Harbor	9/30/2003	9/30/2053	5.125%	50	50		
951	Ice Harbor	9/30/2004	9/30/2054	5.375%	3,321	3,321		
952	Ice Harbor	9/30/2008	9/30/2058	4.875%	14	14		
953	Ice Harbor	9/30/2009	9/30/2059	4.375%	2,615	2,615		
954	Ice Harbor	9/30/2010	9/30/2060	4.250%	207	207		
955	Ice Harbor	9/30/2011	9/30/2061	3.750%	819	819		
956	Ice Harbor	9/30/2012	9/30/2062	3.375%	115	115		
957	John Day	9/30/1968	9/30/2018	7.280%	27,254	0		
958	John Day	9/30/1969	9/30/2019	7.270%	96,104	0		
959	John Day	9/30/1970	9/30/2020	7.250%	23,656	0		
960	John Day	9/30/1971	9/30/2021	7.230%	34,974	0		
961	John Day	9/30/1972	9/30/2022	7.210%	11,502	0		
962	John Day	9/30/1984	9/30/2022	10.750%	3,677	0		
963	John Day	9/30/1985	9/30/2022	7.210%	6,490	0		
964	John Day	9/30/1985	9/30/2022	12.375%	1,209	0		
965	John Day	9/30/1986	9/30/2022	7.210%	3,227	0		
966	John Day	9/30/1986	9/30/2022	11.375%	713	0		
967	John Day	9/30/1987	9/30/2022	7.210%	706	0		
968	John Day	9/30/1987	9/30/2022	8.875%	4,353	0		
969	John Day	9/30/1988	9/30/2022	8.500%	332	0		
970	John Day	9/30/1988	9/30/2022	8.500%	199	0		
971	John Day	9/30/1989	9/30/2022	7.210%	30	0		
972	John Day	9/30/1989	9/30/2022	9.250%	377	0		
973	John Day	9/30/1990	9/30/2022	7.210%	37	0		
974	John Day	9/30/1990	9/30/2022	8.875%	543	0		
975	John Day	9/30/1991	9/30/2022	8.750%	13,218	0		
976	John Day	9/30/1991	9/30/2022	8.750%	144	0		
977	John Day	9/30/1992	9/30/2022	7.210%	19	0		

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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
978	John Day	9/30/1992	9/30/2022	8.500%	95	0		
979	John Day	9/30/1993	9/30/2022	7.875%	7,810	0		
980	John Day	9/30/1993	9/30/2022	7.875%	9,585	0		
981	John Day	9/30/1994	9/30/2019	7.125%	14	0		
982	John Day	9/30/1994	9/30/2029	7.125%	1,252	0		
983	John Day	9/30/1995	9/30/2000	7.330%	2	0		
984	John Day	9/30/1995	9/30/2000	7.330%	9	0		
985	John Day	9/30/1995	9/30/2020	7.250%	79	0		
986	John Day	9/30/1995	9/30/2035	7.150%	22	22		
987	John Day	9/30/1995	9/30/2035	7.150%	52	52		
988	John Day	9/30/1995	9/30/2035	7.150%	121	121		
989	John Day	9/30/1995	9/30/2045	7.150%	37	37		
990	John Day	9/30/1995	9/30/2045	7.150%	608	608		
991	John Day	9/30/1995	9/30/2045	7.150%	7,653	7,653		
992	John Day	9/30/1996	9/30/2011	7.130%	237	0		
993	John Day	9/30/1996	9/30/2016	7.290%	1,072	0		
994	John Day	9/30/1997	9/30/2022	7.230%	133	0		
995	John Day	9/30/1997	9/30/2047	7.150%	179	179		
996	John Day	9/30/1999	9/30/2049	5.375%	3,510	3,510		
997	John Day	9/30/2000	9/30/2050	6.125%	2,761	2,761		
998	John Day	9/30/2001	9/30/2051	5.875%	619	619		
999	John Day	9/30/2004	9/30/2054	5.375%	2,830	2,830		
1000	John Day	9/30/2005	9/30/2055	5.125%	2,827	2,827		
1001	John Day	9/30/2006	9/30/2056	4.500%	601	601		
1002	John Day	9/30/2007	9/30/2057	5.000%	233	233		
1003	John Day	9/30/2009	9/30/2059	4.375%	1,548	1,548		
1004	John Day	9/30/2010	9/30/2060	4.250%	356	356		
1005	John Day	9/30/2011	9/30/2061	3.750%	175	175		
1006	John Day	9/30/2012	9/30/2062	3.375%	6,161	6,161		
1007	John Day	9/30/2013	9/30/2063	2.875%	17	17		
1008	Libby	9/30/1975	9/30/2025	7.160%	54,644	48,138		
1009	Libby	9/30/1976	9/30/2026	7.150%	153,432	153,432		
1010	Libby	9/30/1977	9/30/2026	7.150%	1,465	1,465		
1011	Libby	9/30/1978	9/30/2026	7.150%	1,465	1,465		
1012	Libby	9/30/1979	9/30/2026	7.150%	1,465	1,465		
1013	Libby	9/30/1980	9/30/2026	7.150%	1,465	1,465		
1014	Libby	9/30/1981	9/30/2026	7.150%	1,465	1,465		
1015	Libby	9/30/1982	9/30/2026	7.150%	1,465	1,465		
1016	Libby	9/30/1983	9/30/2026	7.150%	1,465	1,465		
1017	Libby	9/30/1984	9/30/2026	10.750%	104	0		
1018	Libby	9/30/1985	9/30/2026	7.150%	518	518		
1019	Libby	9/30/1986	9/30/2026	7.150%	283	283		
1020	Libby	9/30/1987	9/30/2026	7.150%	2	2		
1021	Libby	9/30/1988	9/30/2026	8.505%	35	0		
1022	Libby	9/30/1988	9/30/2038	7.150%	18,043	14,781		
1023	Libby	9/30/1989	9/30/2026	7.150%	1	1		
1024	Libby	9/30/1989	9/30/2026	9.250%	131	0		
1025	Libby	9/30/1990	9/30/2026	8.875%	11	0		
1026	Libby	9/30/1991	9/30/2026	8.750%	134	0		
1027	Libby	9/30/1992	9/30/2026	8.500%	100	0		
1028	Libby	9/30/1992	9/30/2026	8.500%	70	0		
1029	Libby	9/30/1993	9/30/2026	7.875%	600	0		
1030	Libby	9/30/1994	9/30/2029	7.125%	215	0		
1031	Libby	9/30/1994	9/30/2029	7.150%	286	152		
1032	Libby	9/30/1995	9/30/2030	7.150%	15	15		
1033	Libby	9/30/1995	9/30/2030	7.150%	41	41		
1034	Libby	9/30/1995	9/30/2030	7.150%	94	94		
1035	Libby	9/30/1997	9/30/2022	7.230%	432	0		
1036	Libby	9/30/1997	9/30/2047	7.150%	660	660		
1037	Libby	9/30/2001	9/30/2051	5.875%	5,562	5,562		
1038	Libby	9/30/2008	9/30/2058	4.875%	1,567	1,567		
1039	Libby	9/30/2010	9/30/2060	4.250%	40	40		
1040	Libby	9/30/2011	9/30/2061	3.750%	152	152		
1041	Libby	9/30/2012	9/30/2062	3.375%	16	16		
1042	Little Goose	9/30/1970	9/30/2020	7.250%	22,326	0		

TABLE 12A:
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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
1043	Little Goose	9/30/1971	9/30/2021	7.230%	42,962	0		
1044	Little Goose	9/30/1972	9/30/2021	7.230%	28	0		
1045	Little Goose	9/30/1973	9/30/2021	7.230%	29	0		
1046	Little Goose	9/30/1974	9/30/2021	7.230%	28	0		
1047	Little Goose	9/30/1975	9/30/2021	7.230%	29	0		
1048	Little Goose	9/30/1976	9/30/2021	7.230%	28	0		
1049	Little Goose	9/30/1977	9/30/2021	7.230%	29	0		
1050	Little Goose	9/30/1978	9/30/2021	7.230%	28	0		
1051	Little Goose	9/30/1978	9/30/2028	7.150%	49,578	49,578		
1052	Little Goose	9/30/1979	9/30/2021	7.230%	29	0		
1053	Little Goose	9/30/1980	9/30/2021	7.230%	28	0		
1054	Little Goose	9/30/1981	9/30/2021	7.230%	29	0		
1055	Little Goose	9/30/1982	9/30/2021	7.230%	28	0		
1056	Little Goose	9/30/1983	9/30/2021	7.230%	29	0		
1057	Little Goose	9/30/1984	9/30/2021	10.750%	201	0		
1058	Little Goose	9/30/1985	9/30/2021	7.230%	174	0		
1059	Little Goose	9/30/1985	9/30/2028	7.150%	47	47		
1060	Little Goose	9/30/1986	9/30/2021	7.230%	239	0		
1061	Little Goose	9/30/1987	9/30/2021	7.230%	6	0		
1062	Little Goose	9/30/1987	9/30/2021	8.875%	72	0		
1063	Little Goose	9/30/1988	9/30/2021	8.500%	12	0		
1064	Little Goose	9/30/1988	9/30/2021	8.500%	68	0		
1065	Little Goose	9/30/1989	9/30/2021	9.250%	77	0		
1066	Little Goose	9/30/1990	9/30/2021	8.875%	408	0		
1067	Little Goose	9/30/1990	9/30/2021	8.875%	21	0		
1068	Little Goose	9/30/1991	9/30/2021	8.750%	266	0		
1069	Little Goose	9/30/1992	9/30/2021	8.500%	66	0		
1070	Little Goose	9/30/1992	9/30/2021	8.500%	27	0		
1071	Little Goose	9/30/1993	9/30/2021	7.875%	276	0		
1072	Little Goose	9/30/1993	9/30/2021	7.875%	3,359	0		
1073	Little Goose	9/30/1994	9/30/2019	7.125%	37	0		
1074	Little Goose	9/30/1994	9/30/2029	7.125%	2,044	0		
1075	Little Goose	9/30/1995	9/30/2040	7.150%	17	17		
1076	Little Goose	9/30/1995	9/30/2040	7.150%	450	450		
1077	Little Goose	9/30/1995	9/30/2040	7.150%	733	733		
1078	Little Goose	9/30/1996	9/30/2046	7.150%	10	10		
1079	Little Goose	9/30/1996	9/30/2046	7.150%	10	10		
1080	Little Goose	9/30/1996	9/30/2046	7.150%	211	211		
1081	Little Goose	9/30/1996	9/30/2046	7.150%	241	241		
1082	Little Goose	9/30/1996	9/30/2046	7.150%	520	520		
1083	Little Goose	9/30/1996	9/30/2046	7.150%	3,909	3,909		
1084	Little Goose	9/30/1997	9/30/2047	7.150%	1	1		
1085	Little Goose	9/30/2001	9/30/2051	5.875%	4,608	4,608		
1086	Little Goose	9/30/2002	9/30/2052	5.500%	27	27		
1087	Little Goose	9/30/2003	9/30/2053	5.125%	146	146		
1088	Little Goose	9/30/2004	9/30/2054	5.375%	67	67		
1089	Little Goose	9/30/2008	9/30/2058	4.875%	13	13		
1090	Little Goose	9/30/2009	9/30/2059	4.375%	3,171	3,171		
1091	Little Goose	9/30/2010	9/30/2060	4.250%	30	30		
1092	Little Goose	9/30/2013	9/30/2063	2.875%	66	66		
1093	Lookout Dam	9/30/1955	9/30/2005	6.910%	34,290	0		
1094	Lookout Dam	9/30/1956	9/30/2005	6.910%	52	0		
1095	Lookout Dam	9/30/1957	9/30/2005	6.910%	51	0		
1096	Lookout Dam	9/30/1958	9/30/2005	6.910%	51	0		
1097	Lookout Dam	9/30/1959	9/30/2005	6.910%	51	0		
1098	Lookout Dam	9/30/1960	9/30/2005	6.910%	51	0		
1099	Lookout Dam	9/30/1961	9/30/2005	6.910%	52	0		
1100	Lookout Dam	9/30/1962	9/30/2005	6.910%	51	0		
1101	Lookout Dam	9/30/1963	9/30/2005	6.910%	51	0		
1102	Lookout Dam	9/30/1964	9/30/2005	6.910%	51	0		
1103	Lookout Dam	9/30/1965	9/30/2005	6.910%	51	0		
1104	Lookout Dam	9/30/1966	9/30/2005	6.910%	51	0		
1105	Lookout Dam	9/30/1967	9/30/2005	6.910%	52	0		
1106	Lookout Dam	9/30/1968	9/30/2005	6.910%	51	0		
1107	Lookout Dam	9/30/1969	9/30/2005	6.910%	51	0		
1108	Lookout Dam	9/30/1970	9/30/2005	6.910%	51	0		

TABLE 12A:
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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
1109	Lookout Dam	9/30/1971	9/30/2005	6.910%	51	0		
1110	Lookout Dam	9/30/1972	9/30/2005	6.910%	51	0		
1111	Lookout Dam	9/30/1973	9/30/2005	6.910%	52	0		
1112	Lookout Dam	9/30/1974	9/30/2005	6.910%	51	0		
1113	Lookout Dam	9/30/1975	9/30/2005	6.910%	51	0		
1114	Lookout Dam	9/30/1976	9/30/2005	6.910%	51	0		
1115	Lookout Dam	9/30/1977	9/30/2005	6.910%	51	0		
1116	Lookout Dam	9/30/1978	9/30/2005	6.910%	51	0		
1117	Lookout Dam	9/30/1979	9/30/2005	6.910%	52	0		
1118	Lookout Dam	9/30/1980	9/30/2005	6.910%	51	0		
1119	Lookout Dam	9/30/1981	9/30/2005	6.910%	51	0		
1120	Lookout Dam	9/30/1982	9/30/2005	6.910%	51	0		
1121	Lookout Dam	9/30/1983	9/30/2005	6.910%	51	0		
1122	Lookout Dam	9/30/1984	9/30/2005	10.750%	185	0		
1123	Lookout Dam	9/30/1985	9/30/2005	6.910%	52	0		
1124	Lookout Dam	9/30/1986	9/30/2005	6.910%	42	0		
1125	Lookout Dam	9/30/1987	9/30/2005	6.910%	9	0		
1126	Lookout Dam	9/30/1987	9/30/2005	8.875%	12	0		
1127	Lookout Dam	9/30/1988	9/30/2005	8.500%	46	0		
1128	Lookout Dam	9/30/1988	9/30/2005	8.500%	17	0		
1129	Lookout Dam	9/30/1989	9/30/2005	9.250%	23	0		
1130	Lookout Dam	9/30/1990	9/30/2005	8.875%	147	0		
1131	Lookout Dam	9/30/1990	9/30/2005	8.875%	4	0		
1132	Lookout Dam	9/30/1991	9/30/2005	8.750%	6	0		
1133	Lookout Dam	9/30/1991	9/30/2005	8.750%	50	0		
1134	Lookout Dam	9/30/1992	9/30/2005	8.500%	181	0		
1135	Lookout Dam	9/30/1992	9/30/2005	8.500%	4	0		
1136	Lookout Dam	9/30/1993	9/30/2005	7.875%	18	0		
1137	Lookout Dam	9/30/1993	9/30/2005	7.875%	189	0		
1138	Lookout Dam	9/30/1994	9/30/2019	7.125%	73	0		
1139	Lookout Dam	9/30/1995	9/30/2045	7.150%	80	39		
1140	Lookout Dam	9/30/1995	9/30/2045	7.150%	33	33		
1141	Lookout Dam	9/30/1995	9/30/2045	7.860%	9	0		
1142	Lookout Dam	9/30/1995	9/30/2045	7.860%	15	0		
1143	Lookout Dam	9/30/1995	9/30/2045	7.860%	31	0		
1144	Lookout Dam	9/30/1995	9/30/2045	7.860%	157	0		
1145	Lookout Dam	9/30/2000	9/30/2050	6.125%	5,098	5,098		
1146	Lookout Dam	9/30/2003	9/30/2053	5.125%	135	135		
1147	Lookout Dam	9/30/2005	9/30/2055	5.125%	7,355	7,355		
1148	Lookout Dam	9/30/2007	9/30/2057	5.000%	572	572		
1149	Lookout Dam	9/30/2011	9/30/2061	3.750%	17	17		
1150	Lookout Dam	9/30/2012	9/30/2062	3.375%	294	294		
1151	Lost Creek	9/30/1977	9/30/2027	7.150%	14,293	14,201		
1152	Lost Creek	9/30/1978	9/30/2027	7.150%	58	58		
1153	Lost Creek	9/30/1979	9/30/2027	7.150%	60	60		
1154	Lost Creek	9/30/1980	9/30/2027	7.150%	60	60		
1155	Lost Creek	9/30/1981	9/30/2027	7.150%	60	60		
1156	Lost Creek	9/30/1982	9/30/2027	7.150%	60	60		
1157	Lost Creek	9/30/1983	9/30/2027	7.150%	60	60		
1158	Lost Creek	9/30/1984	9/30/2027	10.750%	243	0		
1159	Lost Creek	9/30/1985	9/30/2027	7.150%	12	12		
1160	Lost Creek	9/30/1986	9/30/2027	7.150%	6	6		
1161	Lost Creek	9/30/1986	9/30/2027	11.375%	5	0		
1162	Lost Creek	9/30/1987	9/30/2027	7.150%	4	4		
1163	Lost Creek	9/30/1987	9/30/2027	8.875%	3	0		
1164	Lost Creek	9/30/1988	9/30/2027	8.500%	7	0		
1165	Lost Creek	9/30/1989	9/30/2027	9.250%	9	0		
1166	Lost Creek	9/30/1990	9/30/2027	8.875%	1	0		
1167	Lost Creek	9/30/1991	9/30/2027	8.750%	31	0		
1168	Lost Creek	9/30/1992	9/30/2027	8.500%	1	0		
1169	Lost Creek	9/30/1992	9/30/2027	8.500%	1	0		
1170	Lost Creek	9/30/1993	9/30/2027	7.875%	1	0		
1171	Lost Creek	9/30/1993	9/30/2027	7.875%	14	0		
1172	Lost Creek	9/30/1995	9/30/2000	7.330%	4	0		
1173	Lost Creek	9/30/1995	9/30/2045	7.150%	94	94		

TABLE 12A:
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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
1174	Lost Creek	9/30/1996	9/30/2031	7.150%	31	31		
1175	Lost Creek	9/30/1996	9/30/2046	7.150%	24	24		
1176	Lost Creek	9/30/2001	9/30/2051	5.875%	147	147		
1177	Lost Creek	9/30/2011	9/30/2061	3.750%	7	7		
1178	Lower Granite	9/30/1975	9/30/2025	7.160%	119,237	117,645		
1179	Lower Granite	9/30/1976	9/30/2025	7.160%	510	510		
1180	Lower Granite	9/30/1977	9/30/2025	7.160%	510	510		
1181	Lower Granite	9/30/1978	9/30/2025	7.160%	510	510		
1182	Lower Granite	9/30/1978	9/30/2028	7.150%	40,611	40,611		
1183	Lower Granite	9/30/1979	9/30/2025	7.160%	510	510		
1184	Lower Granite	9/30/1980	9/30/2025	7.160%	510	510		
1185	Lower Granite	9/30/1981	9/30/2025	7.160%	510	510		
1186	Lower Granite	9/30/1982	9/30/2025	7.160%	510	510		
1187	Lower Granite	9/30/1983	9/30/2025	7.160%	510	510		
1188	Lower Granite	9/30/1984	9/30/2025	10.750%	311	0		
1189	Lower Granite	9/30/1985	9/30/2025	7.160%	328	328		
1190	Lower Granite	9/30/1986	9/30/2025	7.160%	215	215		
1191	Lower Granite	9/30/1986	9/30/2025	11.375%	4	0		
1192	Lower Granite	9/30/1987	9/30/2025	7.160%	8	8		
1193	Lower Granite	9/30/1987	9/30/2025	8.875%	60	0		
1194	Lower Granite	9/30/1988	9/30/2025	8.500%	22	0		
1195	Lower Granite	9/30/1988	9/30/2025	8.500%	95	0		
1196	Lower Granite	9/30/1989	9/30/2025	9.250%	112	0		
1197	Lower Granite	9/30/1990	9/30/2025	8.875%	392	0		
1198	Lower Granite	9/30/1991	9/30/2025	8.750%	281	0		
1199	Lower Granite	9/30/1991	9/30/2025	8.750%	6	0		
1200	Lower Granite	9/30/1992	9/30/2025	8.500%	83	0		
1201	Lower Granite	9/30/1992	9/30/2025	8.500%	121	0		
1202	Lower Granite	9/30/1993	9/30/2025	7.875%	26	0		
1203	Lower Granite	9/30/1993	9/30/2025	7.875%	3,272	0		
1204	Lower Granite	9/30/1994	9/30/2019	7.125%	38	0		
1205	Lower Granite	9/30/1994	9/30/2029	7.150%	3,543	1,551		
1206	Lower Granite	9/30/1995	9/30/2017	7.290%	77	0		
1207	Lower Granite	9/30/1995	9/30/2017	7.290%	388	0		
1208	Lower Granite	9/30/1995	9/30/2017	7.290%	458	0		
1209	Lower Granite	9/30/1995	9/30/2025	7.160%	96	96		
1210	Lower Granite	9/30/1996	9/30/2011	7.130%	255	0		
1211	Lower Granite	9/30/1996	9/30/2031	7.150%	206	206		
1212	Lower Granite	9/30/1996	9/30/2046	7.150%	9	9		
1213	Lower Granite	9/30/1996	9/30/2046	7.150%	625	625		
1214	Lower Granite	9/30/1997	9/30/2047	7.150%	677	677		
1215	Lower Granite	9/30/1999	9/30/2049	5.375%	856	856		
1216	Lower Granite	9/30/2001	9/30/2051	5.875%	2,025	2,025		
1217	Lower Granite	9/30/2002	9/30/2052	5.500%	1,275	1,275		
1218	Lower Granite	9/30/2003	9/30/2053	5.125%	42	42		
1219	Lower Granite	9/30/2005	9/30/2055	5.125%	393	393		
1220	Lower Granite	9/30/2008	9/30/2058	4.875%	24	24		
1221	Lower Granite	9/30/2009	9/30/2059	4.375%	5,669	5,669		
1222	Lower Granite	9/30/2010	9/30/2060	4.250%	1,156	1,156		
1223	Lower Granite	9/30/2011	9/30/2061	3.750%	8	8		
1224	Lower Monument	9/30/1969	9/30/2019	7.270%	26,974	0		
1225	Lower Monument	9/30/1970	9/30/2020	7.250%	51,218	0		
1226	Lower Monument	9/30/1971	9/30/2020	7.250%	214	0		
1227	Lower Monument	9/30/1972	9/30/2020	7.250%	214	0		
1228	Lower Monument	9/30/1973	9/30/2020	7.250%	214	0		
1229	Lower Monument	9/30/1974	9/30/2020	7.250%	214	0		
1230	Lower Monument	9/30/1975	9/30/2020	7.250%	214	0		
1231	Lower Monument	9/30/1976	9/30/2020	7.250%	214	0		
1232	Lower Monument	9/30/1977	9/30/2020	7.250%	214	0		
1233	Lower Monument	9/30/1978	9/30/2020	7.250%	214	0		
1234	Lower Monument	9/30/1979	9/30/2020	7.250%	214	0		
1235	Lower Monument	9/30/1979	9/30/2029	7.150%	40,669	40,669		
1236	Lower Monument	9/30/1980	9/30/2020	7.250%	214	0		
1237	Lower Monument	9/30/1981	9/30/2020	7.250%	214	0		
1238	Lower Monument	9/30/1982	9/30/2020	7.250%	214	0		

TABLE 12A:
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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
1239	Lower Monument	9/30/1983	9/30/2020	7.250%	214	0		
1240	Lower Monument	9/30/1985	9/30/2020	7.250%	8	0		
1241	Lower Monument	9/30/1985	9/30/2029	7.150%	256	256		
1242	Lower Monument	9/30/1986	9/30/2020	7.250%	132	0		
1243	Lower Monument	9/30/1987	9/30/2020	7.250%	3	0		
1244	Lower Monument	9/30/1987	9/30/2020	8.875%	50	0		
1245	Lower Monument	9/30/1988	9/30/2020	8.500%	1	0		
1246	Lower Monument	9/30/1988	9/30/2020	8.500%	58	0		
1247	Lower Monument	9/30/1989	9/30/2020	9.250%	93	0		
1248	Lower Monument	9/30/1990	9/30/2020	8.875%	358	0		
1249	Lower Monument	9/30/1991	9/30/2020	8.750%	594	0		
1250	Lower Monument	9/30/1992	9/30/2020	8.500%	4,484	0		
1251	Lower Monument	9/30/1993	9/30/2020	7.875%	24	0		
1252	Lower Monument	9/30/1993	9/30/2020	7.875%	2,175	0		
1253	Lower Monument	9/30/1994	9/30/2019	7.125%	107	0		
1254	Lower Monument	9/30/1994	9/30/2029	7.125%	2,167	0		
1255	Lower Monument	9/30/1995	9/30/2000	7.330%	6	0		
1256	Lower Monument	9/30/1995	9/30/2045	7.150%	41	41		
1257	Lower Monument	9/30/1995	9/30/2045	7.150%	99	99		
1258	Lower Monument	9/30/1995	9/30/2045	7.150%	624	624		
1259	Lower Monument	9/30/1995	9/30/2045	7.150%	1,122	1,122		
1260	Lower Monument	9/30/1996	9/30/2016	7.290%	668	0		
1261	Lower Monument	9/30/1996	9/30/2021	7.230%	37	0		
1262	Lower Monument	9/30/1996	9/30/2021	7.230%	51	0		
1263	Lower Monument	9/30/1996	9/30/2036	7.150%	264	264		
1264	Lower Monument	9/30/1996	9/30/2046	7.150%	10	10		
1265	Lower Monument	9/30/2001	9/30/2051	5.875%	3,301	3,301		
1266	Lower Monument	9/30/2002	9/30/2052	5.500%	29	29		
1267	Lower Monument	9/30/2003	9/30/2053	5.125%	22	22		
1268	Lower Monument	9/30/2004	9/30/2054	5.375%	3,423	3,423		
1269	Lower Monument	9/30/2005	9/30/2055	5.125%	527	527		
1270	Lower Monument	9/30/2006	9/30/2056	4.500%	285	285		
1271	Lower Monument	9/30/2008	9/30/2058	4.875%	9	9		
1272	Lower Monument	9/30/2009	9/30/2059	4.375%	2,332	2,332		
1273	Lower Monument	9/30/2012	9/30/2062	3.375%	89	89		
1274	Lower Snake Fish and Wildlife	9/30/1983	9/30/2033	7.150%	30,488	9,472		
1275	Lower Snake Fish and Wildlife	9/30/1985	9/30/2035	7.150%	47,921	47,921		
1276	Lower Snake Fish and Wildlife	9/30/1987	9/30/2037	7.150%	72,536	72,536		
1277	Lower Snake Fish and Wildlife	9/30/1988	9/30/2038	7.150%	805	805		
1278	Lower Snake Fish and Wildlife	9/30/1990	9/30/2040	7.150%	1,557	1,557		
1279	Lower Snake Fish and Wildlife	9/30/1991	9/30/2041	7.150%	4,411	4,411		
1280	Lower Snake Fish and Wildlife	9/30/1993	9/30/2043	7.150%	71,632	71,632		
1281	Lower Snake Fish and Wildlife	9/30/1994	9/30/2044	7.150%	4,722	4,722		
1282	Lower Snake Fish and Wildlife	9/30/1996	9/30/2046	7.150%	12,085	12,085		
1283	Lower Snake Fish and Wildlife	9/30/1997	9/30/2047	7.150%	2,173	2,173		
1284	Lower Snake Fish and Wildlife	9/30/1999	9/30/2049	5.375%	7	7		
1285	Lower Snake Fish and Wildlife	9/30/2000	9/30/2050	6.125%	1,529	1,529		
1286	Lower Snake Fish and Wildlife	9/30/2001	9/30/2051	5.875%	325	325		
1287	Lower Snake Fish and Wildlife	9/30/2002	9/30/2052	5.500%	890	890		
1288	Lower Snake Fish and Wildlife	9/30/2003	9/30/2053	5.125%	98	98		
1289	Lower Snake Fish and Wildlife	9/30/2004	9/30/2054	5.375%	230	230		
1290	Lower Snake Fish and Wildlife	9/30/2005	9/30/2055	5.125%	4	4		
1291	Lower Snake Fish and Wildlife	9/30/2006	9/30/2056	4.500%	379	379		
1292	Lower Snake Fish and Wildlife	9/30/2008	9/30/2058	4.875%	74	74		
1293	Lower Snake Fish and Wildlife	9/30/2009	9/30/2059	4.375%	1,540	1,540		
1294	Lower Snake Fish and Wildlife	9/30/2010	9/30/2060	4.250%	6	6		
1295	Lower Snake Fish and Wildlife	9/30/2011	9/30/2061	3.750%	122	122		
1296	McNary	9/30/1954	9/30/2004	6.880%	80,256	0		
1297	McNary	9/30/1955	9/30/2005	6.910%	53,493	0		
1298	McNary	9/30/1956	9/30/2006	6.950%	38,748	0		
1299	McNary	9/30/1957	9/30/2007	6.980%	24,985	0		
1300	McNary	9/30/1958	9/30/2007	6.980%	468	0		
1301	McNary	9/30/1959	9/30/2007	6.980%	468	0		
1302	McNary	9/30/1960	9/30/2007	6.980%	468	0		
1303	McNary	9/30/1961	9/30/2007	6.980%	468	0		
1304	McNary	9/30/1962	9/30/2007	6.980%	467	0		

TABLE 12A:
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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
1305	McNary	9/30/1963	9/30/2007	6.980%	468	0		
1306	McNary	9/30/1964	9/30/2007	6.980%	468	0		
1307	McNary	9/30/1965	9/30/2007	6.980%	468	0		
1308	McNary	9/30/1966	9/30/2007	6.980%	468	0		
1309	McNary	9/30/1967	9/30/2007	6.980%	467	0		
1310	McNary	9/30/1968	9/30/2007	6.980%	468	0		
1311	McNary	9/30/1969	9/30/2007	6.980%	468	0		
1312	McNary	9/30/1970	9/30/2007	6.980%	468	0		
1313	McNary	9/30/1971	9/30/2007	6.980%	468	0		
1314	McNary	9/30/1972	9/30/2007	6.980%	468	0		
1315	McNary	9/30/1973	9/30/2007	6.980%	467	0		
1316	McNary	9/30/1974	9/30/2007	6.980%	468	0		
1317	McNary	9/30/1975	9/30/2007	6.980%	468	0		
1318	McNary	9/30/1976	9/30/2007	6.980%	468	0		
1319	McNary	9/30/1977	9/30/2007	6.980%	467	0		
1320	McNary	9/30/1978	9/30/2007	6.980%	468	0		
1321	McNary	9/30/1979	9/30/2007	6.980%	468	0		
1322	McNary	9/30/1980	9/30/2007	6.980%	468	0		
1323	McNary	9/30/1981	9/30/2007	6.980%	468	0		
1324	McNary	9/30/1982	9/30/2007	6.980%	467	0		
1325	McNary	9/30/1983	9/30/2007	6.980%	468	0		
1326	McNary	9/30/1985	9/30/2007	6.980%	557	0		
1327	McNary	9/30/1986	9/30/2007	6.980%	454	0		
1328	McNary	9/30/1987	9/30/2007	6.980%	24	0		
1329	McNary	9/30/1995	9/30/2010	7.090%	509	0		
1330	McNary	9/30/1995	9/30/2045	7.150%	16	16		
1331	McNary	9/30/1996	9/30/2006	6.950%	778	0		
1332	McNary	9/30/1996	9/30/2011	7.130%	3	0		
1333	McNary	9/30/1996	9/30/2026	7.150%	74	74		
1334	McNary	9/30/1996	9/30/2026	7.150%	277	277		
1335	McNary	9/30/1996	9/30/2046	7.150%	619	619		
1336	McNary	9/30/1997	9/30/2032	7.150%	30	30		
1337	McNary	9/30/2001	9/30/2051	5.875%	1,046	1,046		
1338	McNary	9/30/2003	9/30/2053	5.125%	97	97		
1339	McNary	9/30/2004	9/30/2054	5.375%	6,138	6,138		
1340	McNary	9/30/2005	9/30/2055	5.125%	550	550		
1341	McNary	9/30/2006	9/30/2056	4.500%	4,080	4,080		
1342	McNary	9/30/2008	9/30/2058	4.875%	215	215		
1343	McNary	9/30/2011	9/30/2061	3.750%	565	565		
1344	McNary	9/30/2012	9/30/2062	3.375%	11	11		
1345	McNary	9/30/2013	9/30/2063	2.875%	1,000	1,000		
1346	Minidoka/Palisades	9/30/1909	9/30/1959	3.000%	854	0		
1347	Minidoka/Palisades	9/30/1909	9/30/1959	3.000%	226	0		
1348	Minidoka/Palisades	9/30/1910	9/30/1960	3.000%	1,709	0		
1349	Minidoka/Palisades	9/30/1910	9/30/1960	3.000%	451	0		
1350	Minidoka/Palisades	9/30/1911	9/30/1961	3.000%	1,709	0		
1351	Minidoka/Palisades	9/30/1911	9/30/1961	3.000%	451	0		
1352	Minidoka/Palisades	9/30/1927	9/30/1977	3.000%	854	0		
1353	Minidoka/Palisades	9/30/1927	9/30/1977	3.000%	226	0		
1354	Minidoka/Palisades	9/30/1942	9/30/1992	3.000%	854	0		
1355	Minidoka/Palisades	9/30/1942	9/30/1992	3.000%	226	0		
1356	Minidoka/Palisades	9/30/1957	9/30/2007	3.000%	2,561	0		
1357	Minidoka/Palisades	9/30/1957	9/30/2007	3.000%	677	0		
1358	Minidoka/Palisades	9/30/1958	9/30/2008	3.000%	854	0		
1359	Minidoka/Palisades	9/30/1958	9/30/2008	3.000%	226	0		
1360	Minidoka/Palisades	9/30/1959	9/30/2008	3.000%	108	0		
1361	Minidoka/Palisades	9/30/1959	9/30/2008	3.000%	28	0		
1362	Minidoka/Palisades	9/30/1960	9/30/2008	3.000%	108	0		
1363	Minidoka/Palisades	9/30/1960	9/30/2008	3.000%	29	0		
1364	Minidoka/Palisades	9/30/1961	9/30/2008	3.000%	108	0		
1365	Minidoka/Palisades	9/30/1961	9/30/2008	3.000%	29	0		
1366	Minidoka/Palisades	9/30/1962	9/30/2008	3.000%	108	0		
1367	Minidoka/Palisades	9/30/1962	9/30/2008	3.000%	28	0		
1368	Minidoka/Palisades	9/30/1963	9/30/2008	3.000%	108	0		
1369	Minidoka/Palisades	9/30/1963	9/30/2008	3.000%	29	0		
1370	Minidoka/Palisades	9/30/1964	9/30/2008	3.000%	108	0		

TABLE 12A:
HISTORICAL INVESTMENT
October 1, 2013 - September 30, 2017 Cost Evaluation Period
($000s) (FY 2017)

	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
1371	Minidoka/Palisades	9/30/1964	9/30/2008	3.000%	28	0		
1372	Minidoka/Palisades	9/30/1965	9/30/2008	3.000%	108	0		
1373	Minidoka/Palisades	9/30/1965	9/30/2008	3.000%	29	0		
1374	Minidoka/Palisades	9/30/1966	9/30/2008	3.000%	108	0		
1375	Minidoka/Palisades	9/30/1966	9/30/2008	3.000%	29	0		
1376	Minidoka/Palisades	9/30/1967	9/30/2008	3.000%	108	0		
1377	Minidoka/Palisades	9/30/1967	9/30/2008	3.000%	28	0		
1378	Minidoka/Palisades	9/30/1968	9/30/2008	3.000%	108	0		
1379	Minidoka/Palisades	9/30/1968	9/30/2008	3.000%	29	0		
1380	Minidoka/Palisades	9/30/1969	9/30/2008	3.000%	3	0		
1381	Minidoka/Palisades	9/30/1969	9/30/2008	3.000%	28	0		
1382	Minidoka/Palisades	9/30/1970	9/30/2008	3.000%	108	0		
1383	Minidoka/Palisades	9/30/1970	9/30/2008	3.000%	29	0		
1384	Minidoka/Palisades	9/30/1971	9/30/2008	3.000%	108	0		
1385	Minidoka/Palisades	9/30/1971	9/30/2008	3.000%	29	0		
1386	Minidoka/Palisades	9/30/1972	9/30/2008	3.000%	108	0		
1387	Minidoka/Palisades	9/30/1972	9/30/2008	3.000%	28	0		
1388	Minidoka/Palisades	9/30/1973	9/30/2008	3.000%	108	0		
1389	Minidoka/Palisades	9/30/1973	9/30/2008	3.000%	29	0		
1390	Minidoka/Palisades	9/30/1974	9/30/2008	3.000%	108	0		
1391	Minidoka/Palisades	9/30/1974	9/30/2008	3.000%	28	0		
1392	Minidoka/Palisades	9/30/1975	9/30/2008	3.000%	108	0		
1393	Minidoka/Palisades	9/30/1975	9/30/2008	3.000%	29	0		
1394	Minidoka/Palisades	9/30/1976	9/30/2008	3.000%	108	0		
1395	Minidoka/Palisades	9/30/1976	9/30/2008	3.000%	29	0		
1396	Minidoka/Palisades	9/30/1977	9/30/2008	7.020%	83	0		
1397	Minidoka/Palisades	9/30/1977	9/30/2008	7.020%	28	0		
1398	Minidoka/Palisades	9/30/1978	9/30/2008	7.020%	75	0		
1399	Minidoka/Palisades	9/30/1978	9/30/2008	7.020%	20	0		
1400	Minidoka/Palisades	9/30/1979	9/30/2008	7.020%	75	0		
1401	Minidoka/Palisades	9/30/1979	9/30/2008	7.020%	19	0		
1402	Minidoka/Palisades	9/30/1980	9/30/2008	7.020%	75	0		
1403	Minidoka/Palisades	9/30/1980	9/30/2008	7.020%	20	0		
1404	Minidoka/Palisades	9/30/1981	9/30/2008	7.020%	75	0		
1405	Minidoka/Palisades	9/30/1981	9/30/2008	7.020%	20	0		
1406	Minidoka/Palisades	9/30/1982	9/30/2008	7.020%	75	0		
1407	Minidoka/Palisades	9/30/1982	9/30/2008	7.020%	19	0		
1408	Minidoka/Palisades	9/30/1983	9/30/2008	7.020%	65	0		
1409	Minidoka/Palisades	9/30/1983	9/30/2008	7.020%	20	0		
1410	Minidoka/Palisades	9/30/1984	9/30/2008	10.075%	44	0		
1411	Minidoka/Palisades	9/30/1984	9/30/2008	10.075%	11	0		
1412	Minidoka/Palisades	9/30/1985	9/30/2008	7.020%	21	0		
1413	Minidoka/Palisades	9/30/1986	9/30/2008	7.020%	21	0		
1414	Minidoka/Palisades	9/30/1986	9/30/2008	11.375%	48	0		
1415	Minidoka/Palisades	9/30/1987	9/30/2008	7.020%	16	0		
1416	Minidoka/Palisades	9/30/1988	9/30/2008	8.500%	31	0		
1417	Minidoka/Palisades	9/30/1989	9/30/2008	9.250%	20	0		
1418	Minidoka/Palisades	9/30/1990	9/30/2008	8.875%	33	0		
1419	Minidoka/Palisades	9/30/1991	9/30/2008	8.750%	62	0		
1420	Minidoka/Palisades	9/30/1991	9/30/2008	8.750%	11	0		
1421	Minidoka/Palisades	9/30/1991	9/30/2008	8.750%	32	0		
1422	Minidoka/Palisades	9/30/1992	9/30/2008	8.500%	6	0		
1423	Minidoka/Palisades	9/30/1994	9/30/2029	7.125%	351	0		
1424	Minidoka/Palisades	9/30/1995	9/30/2000	7.330%	6	0		
1425	Minidoka/Palisades	9/30/1995	9/30/2010	7.890%	40	0		
1426	Minidoka/Palisades	9/30/1996	9/30/2011	7.130%	54	0		
1427	Minidoka/Palisades	9/30/1997	9/30/2007	6.950%	66	0		
1428	Minidoka/Palisades	9/30/1997	9/30/2047	7.150%	50,911	50,911		
1429	Minidoka/Palisades	9/30/2001	9/30/2051	5.875%	42	42		
1430	Minidoka/Palisades	9/30/2012	9/30/2062	3.375%	7	7		
1431	RRP - Green Springs	9/30/2001	9/30/2051	5.875%	11,145	11,145		
1432	RRP - Green Springs	9/30/2012	9/30/2062	3.375%	2	2		
1433	RRP - Green Springs	9/30/2013	9/30/2063	2.875%	1	1		
1434	The Dalles	9/30/1957	9/30/2007	2.500%	15,908	0		
1435	The Dalles	9/30/1958	9/30/2008	7.020%	45,837	0		
1436	The Dalles	9/30/1959	9/30/2009	7.060%	40,415	0		
1437	The Dalles	9/30/1960	9/30/2010	7.090%	39,179	0		

TABLE 12A:
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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
1438	The Dalles	9/30/1961	9/30/2011	7.130%	9,492	0		
1439	The Dalles	9/30/1962	9/30/2011	7.130%	56	0		
1440	The Dalles	9/30/1963	9/30/2011	7.130%	57	0		
1441	The Dalles	9/30/1964	9/30/2011	7.130%	57	0		
1442	The Dalles	9/30/1965	9/30/2011	7.130%	56	0		
1443	The Dalles	9/30/1966	9/30/2011	7.130%	57	0		
1444	The Dalles	9/30/1967	9/30/2011	7.130%	57	0		
1445	The Dalles	9/30/1968	9/30/2011	7.130%	56	0		
1446	The Dalles	9/30/1969	9/30/2011	7.130%	57	0		
1447	The Dalles	9/30/1970	9/30/2011	7.130%	57	0		
1448	The Dalles	9/30/1971	9/30/2011	7.130%	56	0		
1449	The Dalles	9/30/1972	9/30/2011	7.130%	57	0		
1450	The Dalles	9/30/1973	9/30/2011	7.130%	57	0		
1451	The Dalles	9/30/1973	9/30/2023	7.190%	21,983	0		
1452	The Dalles	9/30/1974	9/30/2011	7.130%	56	0		
1453	The Dalles	9/30/1974	9/30/2024	7.170%	7,268	7,240		
1454	The Dalles	9/30/1975	9/30/2011	7.130%	57	0		
1455	The Dalles	9/30/1976	9/30/2011	7.130%	57	0		
1456	The Dalles	9/30/1977	9/30/2011	7.130%	56	0		
1457	The Dalles	9/30/1978	9/30/2011	7.130%	57	0		
1458	The Dalles	9/30/1979	9/30/2011	7.130%	57	0		
1459	The Dalles	9/30/1980	9/30/2011	7.130%	56	0		
1460	The Dalles	9/30/1981	9/30/2011	7.130%	57	0		
1461	The Dalles	9/30/1982	9/30/2011	7.130%	57	0		
1462	The Dalles	9/30/1983	9/30/2011	7.130%	56	0		
1463	The Dalles	9/30/1984	9/30/2011	10.750%	961	0		
1464	The Dalles	9/30/1985	9/30/2011	7.130%	95	0		
1465	The Dalles	9/30/1985	9/30/2011	12.375%	280	0		
1466	The Dalles	9/30/1986	9/30/2011	7.130%	95	0		
1467	The Dalles	9/30/1986	9/30/2011	11.375%	4	0		
1468	The Dalles	9/30/1987	9/30/2011	7.130%	1,417	0		
1469	The Dalles	9/30/1987	9/30/2011	8.875%	81	0		
1470	The Dalles	9/30/1988	9/30/2011	8.500%	685	0		
1471	The Dalles	9/30/1988	9/30/2011	8.500%	1	0		
1472	The Dalles	9/30/1989	9/30/2011	9.250%	898	0		
1473	The Dalles	9/30/1990	9/30/2011	8.875%	319	0		
1474	The Dalles	9/30/1990	9/30/2011	8.875%	745	0		
1475	The Dalles	9/30/1991	9/30/2011	8.750%	89	0		
1476	The Dalles	9/30/1991	9/30/2011	8.750%	2,452	0		
1477	The Dalles	9/30/1992	9/30/2011	8.500%	57	0		
1478	The Dalles	9/30/1992	9/30/2011	8.500%	130	0		
1479	The Dalles	9/30/1993	9/30/2011	7.875%	2,028	0		
1480	The Dalles	9/30/1993	9/30/2011	7.875%	2,929	0		
1481	The Dalles	9/30/1994	9/30/2029	7.125%	1,425	0		
1482	The Dalles	9/30/1996	9/30/2008	7.020%	196	0		
1483	The Dalles	9/30/1996	9/30/2011	7.130%	457	0		
1484	The Dalles	9/30/1996	9/30/2046	7.150%	1,991	1,991		
1485	The Dalles	9/30/2000	9/30/2050	6.125%	2,588	2,588		
1486	The Dalles	9/30/2002	9/30/2052	5.500%	1,226	1,226		
1487	The Dalles	9/30/2004	9/30/2054	5.375%	182	182		
1488	The Dalles	9/30/2005	9/30/2055	5.125%	36,019	36,019		
1489	The Dalles	9/30/2006	9/30/2056	4.500%	2,030	2,030		
1490	The Dalles	9/30/2007	9/30/2057	5.000%	140	140		
1491	The Dalles	9/30/2008	9/30/2058	4.875%	1,651	1,651		
1492	Yakima Chandler/Kenniwick	9/30/1956	9/30/2022	7.210%	1,068	0		
1493	Yakima Chandler/Kenniwick	9/30/1956	9/30/2022	7.210%	481	0		
1494	Yakima Chandler/Kenniwick	9/30/1959	9/30/2022	7.210%	1	0		
1495	Yakima Chandler/Kenniwick	9/30/1960	9/30/2022	7.210%	1	0		
1496	Yakima Chandler/Kenniwick	9/30/1961	9/30/2022	7.210%	1	0		
1497	Yakima Chandler/Kenniwick	9/30/1984	9/30/2022	10.750%	35	0		
1498	Yakima Chandler/Kenniwick	9/30/1984	9/30/2022	10.750%	10	0		
1499	Yakima Chandler/Kenniwick	9/30/1985	9/30/2022	12.375%	357	0		
1500	Yakima Chandler/Kenniwick	9/30/1986	9/30/2022	7.210%	439	0		
1501	Yakima Chandler/Kenniwick	9/30/1986	9/30/2022	11.375%	7	0		
1502	Yakima Chandler/Kenniwick	9/30/1987	9/30/2022	8.875%	126	0		
1503	Yakima Chandler/Kenniwick	9/30/1989	9/30/2022	9.250%	18	0		

TABLE 12A:
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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
1504	Yakima Chandler/Kenniwick	9/30/1990	9/30/2022	8.875%	40	0		
1505	Yakima Chandler/Kenniwick	9/30/1991	9/30/2022	8.750%	109	0		
1506	Yakima Chandler/Kenniwick	9/30/2005	9/30/2055	5.125%	833	833		
1507	Yakima Chandler/Kenniwick	9/30/2009	9/30/2059	4.375%	15	15		
1508	Yakima Roza	9/30/1958	9/30/2008	7.020%	1,194	0		
1509	Yakima Roza	9/30/1958	9/30/2008	7.020%	383	0		
1510	Yakima Roza	9/30/1984	9/30/2008	10.750%	5	0		
1511	Yakima Roza	9/30/1984	9/30/2008	10.750%	17	0		
1512	Yakima Roza	9/30/1985	9/30/2008	7.020%	69	0		
1513	Yakima Roza	9/30/1985	9/30/2008	12.375%	5	0		
1514	Yakima Roza	9/30/1986	9/30/2008	7.020%	6	0		
1515	Yakima Roza	9/30/1987	9/30/2008	7.020%	2	0		
1516	Yakima Roza	9/30/1987	9/30/2008	8.875%	9	0		
1517	Yakima Roza	9/30/2001	9/30/2051	5.875%	15	14		
1518	Bureau Direct	5/31/1995	5/31/2015	7.500%	35,000	0		
1519	Bureau Direct	5/31/1997	5/31/2000	6.500%	50,000	0		
1520	Bureau Direct	4/30/1998	5/22/2008	6.000%	25,000	0		
1521	Bureau Direct	9/30/1999	9/30/2004	6.400%	20,000	0		
1522	Bureau Direct	4/30/2000	4/30/2003	6.850%	40,000	0		
1523	Bureau Direct	9/30/2000	9/30/2005	6.700%	20,000	0		
1524	Bureau Direct	6/30/2001	6/30/2004	4.750%	50,000	0		
1525	Bureau Direct	3/31/2002	3/31/2005	4.600%	30,000	0		
1526	Bureau Direct	9/30/2002	9/30/2006	3.050%	20,000	0		
1527	Bureau Direct	12/31/2002	12/31/2006	3.050%	40,000	0		
1528	Bureau Direct	4/30/2003	4/30/2006	2.400%	40,000	0		
1529	Bureau Direct	4/30/2003	4/30/2006	2.400%	25,000	0		
1530	Bureau Direct	7/31/2003	7/31/2006	2.300%	30,000	0		
1531	Bureau Direct	9/30/2003	9/30/2006	2.500%	25,000	0		
1532	Bureau Direct	1/31/2004	1/31/2007	2.500%	25,000	0		
1533	Bureau Direct	4/30/2004	4/30/2007	2.950%	35,000	0		
1534	Bureau Direct	7/31/2004	7/31/2007	3.450%	25,000	0		
1535	Bureau Direct	9/30/2004	9/30/2007	3.100%	30,000	0		
1536	Bureau Direct	11/30/2004	11/30/2007	3.500%	20,000	0		
1537	Bureau Direct	1/31/2005	1/31/2008	3.600%	20,000	0		
1538	Bureau Direct	6/30/2005	6/30/2008	3.950%	30,000	0		
1539	Bureau Direct	9/30/2005	9/30/2008	4.250%	25,000	0		
1540	Bureau Direct	3/31/2006	3/31/2009	5.050%	25,000	0		
1541	Bureau Direct	7/31/2006	7/31/2009	5.350%	45,000	0		
1542	Bureau Direct	9/30/2006	9/30/2009	4.950%	15,000	0		
1543	Bureau Direct	1/31/2007	1/31/2010	5.100%	35,000	0		
1544	Bureau Direct	3/31/2007	3/31/2010	4.800%	30,000	0		
1545	Bureau Direct	6/30/2007	6/30/2010	5.350%	30,000	0		
1546	Bureau Direct	1/31/2008	1/31/2011	2.850%	35,000	0		
1547	Bureau Direct	1/31/2008	1/31/2011	2.850%	20,000	0		
1548	Bureau Direct	5/22/2008	5/31/2011	3.358%	35,000	0		
1549	Bureau Direct	5/22/2008	5/31/2011	3.358%	25,000	0		
1550	Bureau Direct	6/30/2008	6/30/2012	3.974%	30,000	0		
1551	Bureau Direct	7/31/2008	7/31/2012	3.913%	35,000	0		
1552	Bureau Direct	9/30/2008	9/30/2012	3.444%	35,000	0		
1553	Bureau Direct	1/31/2009	1/31/2021	3.999%	25,000	25,000		
1554	Bureau Direct	4/30/2009	4/30/2023	4.391%	25,000	25,000		
1555	Bureau Direct	6/30/2009	6/30/2039	5.192%	25,000	25,000		
1556	Bureau Direct	9/30/2009	9/30/2019	3.699%	25,000	25,000		
1557	Bureau Direct	10/31/2009	10/31/2018	3.719%	24,000	24,000		
1558	Bureau Direct	10/31/2009	10/31/2019	3.842%	20,000	20,000		
1559	Bureau Direct	11/30/2009	11/30/2019	3.637%	7,000	7,000		
1560	Bureau Direct	12/31/2009	12/31/2019	4.194%	13,000	13,000		
1561	Bureau Direct	1/31/2010	1/31/2019	3.714%	10,000	10,000		
1562	Bureau Direct	2/28/2010	2/28/2019	0.165%	10,000	0		
1563	Bureau Direct	3/31/2010	3/31/2020	4.083%	30,000	30,000		
1564	Bureau Direct	4/30/2010	4/30/2020	3.973%	18,000	18,000		
1565	Bureau Direct	5/31/2010	5/31/2020	3.574%	15,000	15,000		
1566	Bureau Direct	6/30/2010	6/30/2020	3.243%	10,000	10,000		
1567	Bureau Direct	6/30/2010	6/30/2020	3.243%	30,000	30,000		
1568	Bureau Direct	7/31/2010	7/31/2020	3.118%	17,000	17,000		
1569	Bureau Direct	8/31/2010	8/31/2020	0.165%	5,000	0		
1570	Bureau Direct	9/30/2010	9/30/2021	2.883%	22,000	22,000		
1571	Bureau Direct	10/31/2010	10/31/2034	4.211%	20,000	20,000		
1572	Bureau Direct	1/31/2011	9/30/2011	0.244%	20,000	0		
1573	Bureau Direct	1/31/2011	9/30/2011	0.244%	35,000	0		
1574	Bureau Direct	1/31/2011	1/31/2039	5.040%	35,000	35,000		
1575	Bureau Direct	2/28/2011	2/29/2040	4.995%	50,000	50,000		
1576	Bureau Direct	5/31/2011	9/30/2011	0.076%	35,000	0		

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	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
1577	Bureau Direct	5/31/2011	9/30/2011	0.076%	25,000	0		
1578	Bureau Direct	6/22/2011	6/30/2036	4.629%	30,000	30,000		
1579	Bureau Direct	6/22/2011	6/30/2038	4.700%	30,000	30,000		
1580	Bureau Direct	8/12/2011	8/31/2037	4.208%	30,000	30,000		
1581	Bureau Direct	9/21/2011	7/31/2041	3.825%	30,000	0		
1582	Bureau Direct	12/16/2011	12/31/2038	3.880%	35,000	0		
1583	Bureau Direct	1/27/2012	1/31/2038	3.893%	15,000	0		
1584	Bureau Direct	2/27/2012	2/28/2034	1.757%	55,000	55,000		
1585	Bureau Direct	6/20/2012	6/30/2041	3.666%	50,000	0		
1586	Bureau Direct	6/30/2012	9/30/2012	0.119%	30,000	0		
1587	Bureau Direct	8/20/2012	7/31/2042	3.834%	44,000	0		
1588	Bureau Direct	9/30/2012	9/30/2013	0.174%	35,000	0		
1589	Bureau Direct	9/30/2012	9/30/2042	3.668%	25,000	0		
1590	Bureau Direct	1/31/2013	1/31/2043	6.194%	70,000	0		
1591	Bureau Direct	2/28/2013	2/28/2043	5.993%	18,000	0		
1592	Bureau Direct	3/31/2013	3/31/2043	5.958%	15,000	0		
1593	Bureau Direct	4/30/2013	4/30/2043	5.633%	15,000	0		
1594	Bureau Direct	5/31/2013	5/31/2043	6.192%	18,000	0		
1595	Bureau Direct	6/30/2013	1/31/2039	1.757%	35,000	35,000		
1596	Bureau Direct	6/30/2013	6/30/2043	6.938%	21,000	0		
1597	Bureau Direct	7/31/2013	7/31/2034	7.164%	25,000	0		
1598	Bureau Direct	8/31/2013	8/31/2034	7.413%	15,000	0		
1599	Bureau Direct	11/20/2013	9/30/2014	0.140%	77,000	77,000		
1600	Bureau Direct	11/20/2013	9/30/2020	2.473%	51,000	51,000		
1601	Bureau Direct	11/20/2013	9/30/2021	2.812%	50,000	50,000		
1602	Bureau Direct	11/20/2013	9/30/2022	3.125%	19,000	19,000		
1603	Bureau Direct	1/16/2014	12/31/2018	1.943%	43,000	43,000		
1604	Bureau Direct	1/16/2014	12/31/2018	1.943%	38,000	38,000		
1605	Bureau Direct	1/16/2014	12/31/2018	1.943%	21,000	21,000		
1606	Bureau Direct	1/16/2014	12/31/2018	1.943%	26,000	26,000		
1607	Bureau Direct	1/16/2014	12/31/2018	1.943%	14,000	14,000		
1608	Conservation	9/30/1983	9/30/2003	12.200%	140,000	0		
1609	Conservation	9/30/1984	9/30/2004	13.050%	150,000	0		
1610	Conservation	9/30/1985	9/30/1990	10.150%	50,000	0		
1611	Conservation	3/31/1986	3/31/1991	7.800%	50,000	0		
1612	Conservation	3/31/1986	3/31/1996	8.150%	50,000	0		
1613	Conservation	4/30/1987	4/30/2007	9.300%	75,000	0		
1614	Conservation	6/30/1987	6/30/1992	8.350%	50,000	0		
1615	Conservation	4/30/1988	4/30/2008	9.900%	90,000	0		
1616	Conservation	7/31/1989	7/31/2009	8.550%	40,000	0		
1617	Conservation	9/30/1989	9/30/1995	8.600%	66,000	0		
1618	Conservation	9/30/1989	9/30/2002	8.650%	66,000	0		
1619	Conservation	7/31/1992	7/31/1997	5.800%	80,200	0		
1620	Conservation	7/31/1992	7/31/2007	7.140%	100,000	0		
1621	Conservation	10/31/1992	10/31/2012	8.050%	50,000	0		
1622	Conservation	2/28/1993	2/28/2013	7.400%	50,000	0		
1623	Conservation	8/31/1993	8/31/2013	6.750%	40,000	0		
1624	Conservation	1/31/1994	1/31/2014	6.750%	50,000	0		
1625	Conservation	5/31/1994	5/31/1998	7.100%	50,000	0		
1626	Conservation	5/31/1995	5/31/2015	7.500%	85,000	0		
1627	Conservation	1/31/1996	1/31/2011	6.700%	30,000	0		
1628	Conservation	11/30/1996	11/30/2016	7.200%	40,000	0		
1629	Conservation	5/31/1998	5/31/2009	6.000%	37,700	0		
1630	Conservation	9/30/1998	9/30/2008	5.300%	104,300	0		
1631	Conservation	9/30/1998	9/30/2013	5.600%	52,800	0		
1632	Conservation	7/31/2000	7/31/2003	6.950%	32,000	0		
1633	Conservation	6/30/2002	6/30/2005	3.750%	40,000	0		
1634	Conservation	1/31/2004	1/31/2008	2.950%	30,000	0		
1635	Conservation	3/31/2006	3/31/2009	5.050%	20,000	0		
1636	Conservation	6/30/2007	6/30/2010	5.350%	20,000	0		
1637	Conservation	9/30/2008	9/30/2013	3.701%	10,000	0		
1638	Conservation	9/30/2009	9/30/2014	2.746%	15,000	15,000		
1639	Conservation	1/31/2010	1/31/2015	2.609%	15,000	15,000		
1640	Conservation	4/30/2010	4/30/2015	2.677%	20,000	20,000		
1641	Conservation	8/31/2010	8/31/2015	1.619%	15,000	15,000		
1642	Conservation	9/30/2010	9/30/2015	1.534%	10,000	10,000		
1643	Conservation	1/31/2011	1/31/2023	4.046%	40,000	40,000		
1644	Conservation	4/30/2011	4/30/2023	3.932%	35,000	35,000		
1645	Conservation	8/12/2011	8/31/2023	3.206%	40,000	40,000		
1646	Conservation	10/31/2011	8/31/2012	0.204%	55,000	0		
1647	Conservation	12/20/2011	12/31/2037	0.189%	55,000	0		
1648	Conservation	5/3/2012	9/30/2015	0.676%	30,000	30,000		
1649	Conservation	6/20/2012	9/30/2015	0.671%	15,000	15,000		

TABLE 12A:
HISTORICAL INVESTMENT
October 1, 2013 - September 30, 2017 Cost Evaluation Period
($000s) (FY 2017)

	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
1650	Conservation	8/20/2012	8/31/2024	2.788%	15,000	0		
1651	Conservation	11/30/2012	11/30/2016	0.630%	20,000	20,000		
1652	Conservation	1/31/2013	1/31/2018	1.107%	9,000	9,000		
1653	Conservation	3/31/2013	3/31/2025	4.992%	10,000	0		
1654	Conservation	4/30/2013	4/30/2025	4.553%	12,000	0		
1655	Conservation	8/31/2013	8/31/2025	6.973%	5,000	0		
1656	Conservation	10/31/2013	10/31/2025	3.568%	34,000	34,000		
1657	Conservation	11/20/2013	9/30/2023	3.375%	27,000	27,000		
1658	Conservation	12/31/2013	12/31/2021	3.142%	6,000	6,000		
1659	Conservation	12/31/2013	12/31/2023	1.757%	55,000	55,000		
1660	Conservation	1/31/2014	1/31/2026	3.621%	5,000	5,000		
1661	Conservation	4/30/2014	6/30/2025	1.757%	30,000	30,000		
1662	Conservation	5/31/2014	4/30/2024	1.757%	15,000	15,000		
1663	Conservation	5/31/2014	4/30/2025	1.757%	3,000	3,000		
1664	Conservation	6/30/2014	10/31/2024	1.757%	5,000	5,000		
1665	Construction (AS)	10/31/1992	10/31/2032	8.350%	38	0		
1666	Construction (AS)	7/31/1995	7/31/2025	7.700%	67	0		
1667	Construction (AS)	1/31/1996	1/31/2003	5.900%	5,622	0		
1668	Construction (AS)	1/31/1997	1/31/2004	6.800%	7,400	0		
1669	Construction (AS)	8/31/1998	8/31/2008	5.750%	3,181	0		
1670	Construction (AS)	2/28/1999	2/28/2014	5.900%	950	0		
1671	Construction (AS)	7/31/2000	7/31/2004	7.000%	10,948	0		
1672	Construction (AS)	1/31/2001	1/31/2010	6.050%	68	0		
1673	Construction (AS)	3/31/2002	3/31/2005	4.600%	1,990	0		
1674	Construction (AS)	10/31/2002	10/31/2005	3.000%	45,062	0		
1675	Construction (AS)	1/31/2004	1/31/2007	2.500%	13,357	0		
1676	Construction (AS)	11/30/2004	11/30/2008	3.750%	7,990	0		
1677	Construction (AS)	9/30/2006	9/30/2010	4.950%	9,681	0		
1678	Construction (AS)	1/31/2008	1/31/2012	3.200%	10,000	0		
1679	Construction (AS)	9/30/2008	9/30/2012	3.444%	10,000	0		
1680	Construction (AS)	9/30/2009	9/30/2014	2.746%	14,000	14,000		
1681	Construction (AS)	2/28/2010	2/28/2015	0.165%	7,500	0		
1682	Construction (AS)	8/31/2010	8/31/2015	1.619%	5,000	5,000		
1683	Construction (AS)	6/22/2011	6/30/2016	1.957%	7,000	7,000		
1684	Construction (AS)	8/12/2011	8/31/2016	1.423%	3,500	3,500		
1685	Construction (AS)	1/31/2012	9/30/2012	0.146%	10,000	0		
1686	Construction (AS)	6/20/2012	9/30/2017	0.671%	7,700	7,700		
1687	Construction (AS)	11/30/2012	11/30/2018	1.109%	5,250	5,250		
1688	Construction (AS)	4/30/2013	4/30/2017	0.622%	2,450	2,450		
1689	Construction (AS)	6/30/2013	6/30/2017	1.271%	3,000	3,000		
1690	Construction (AS)	8/31/2013	8/31/2017	1.494%	2,000	2,000		
1691	Construction (AS)	10/31/2013	10/31/2019	2.039%	4,200	4,200		
1692	Construction (AS)	10/31/2013	10/31/2019	2.039%	5,000	5,000		
1693	Construction (AS)	1/31/2014	1/31/2020	2.183%	1,750	1,750		
1694	Construction (AS)	1/31/2014	1/31/2020	2.183%	2,000	2,000		
1695	Construction (AS)	2/28/2014	9/30/2014	0.117%	950	950		
1696	Construction (AS)	4/30/2014	3/31/2020	1.757%	1,400	1,400		
1697	Construction (AS)	4/30/2014	3/31/2020	1.757%	2,000	2,000		
1698	Construction (AS)	5/31/2014	4/30/2020	1.757%	700	700		
1699	Fish and Wildlife	5/31/1989	5/31/1999	8.950%	25,000	0		
1700	Fish and Wildlife	5/31/1991	5/31/1996	7.950%	50,000	0		
1701	Fish and Wildlife	2/28/1993	2/28/2008	6.950%	20,000	0		
1702	Fish and Wildlife	9/30/1994	9/30/1999	7.650%	20,000	0		
1703	Fish and Wildlife	8/31/1995	8/31/2010	7.200%	35,000	0		
1704	Fish and Wildlife	1/31/1998	1/31/2013	6.100%	60,000	0		
1705	Fish and Wildlife	9/30/1999	9/30/2003	6.300%	20,000	0		
1706	Fish and Wildlife	1/31/2001	1/31/2005	5.650%	25,000	0		
1707	Fish and Wildlife	9/30/2003	9/30/2007	3.100%	20,000	0		
1708	Fish and Wildlife	9/30/2005	9/30/2008	4.250%	20,000	0		
1709	Fish and Wildlife	9/30/2006	9/30/2010	4.950%	20,000	0		
1710	Fish and Wildlife	6/30/2007	6/30/2010	5.350%	30,000	0		
1711	Fish and Wildlife	9/30/2007	9/30/2011	4.700%	20,000	0		
1712	Fish and Wildlife	9/30/2008	9/30/2012	3.444%	20,000	0		
1713	Fish and Wildlife	6/30/2009	6/30/2024	4.556%	20,000	20,000		
1714	Fish and Wildlife	12/31/2009	12/31/2018	4.069%	26,000	26,000		
1715	Fish and Wildlife	8/31/2010	8/31/2019	2.646%	20,000	20,000		
1716	Fish and Wildlife	1/31/2011	1/31/2026	4.440%	50,000	50,000		
1717	Fish and Wildlife	2/28/2011	2/28/2026	4.398%	15,000	15,000		
1718	Fish and Wildlife	6/22/2011	6/30/2026	4.205%	15,000	15,000		
1719	Fish and Wildlife	1/27/2012	1/31/2038	3.893%	30,000	0		
1720	Fish and Wildlife	5/3/2012	5/31/2029	0.140%	5,000	0		
1721	Fish and Wildlife	6/20/2012	6/30/2041	3.666%	12,000	0		
1722	Fish and Wildlife	8/20/2012	8/31/2027	3.090%	11,000	0		

TABLE 12A:
HISTORICAL INVESTMENT
October 1, 2013 - September 30, 2017 Cost Evaluation Period
($000s) (FY 2017)

	A	B	C	D	E	F	G	H
	Project	In Service Date	Due Date	Interest Rate	Initial Principal	Current Principal	Roll Maturity Date	Rollover Rate
1723	Fish and Wildlife	11/30/2012	11/30/2027	5.046%	25,000	0		
1724	Fish and Wildlife	1/31/2013	9/30/2013	0.149%	60,000	0		
1725	Fish and Wildlife	3/31/2013	3/31/2028	5.445%	10,000	0		
1726	Fish and Wildlife	4/30/2013	4/30/2028	5.042%	6,000	0		
1727	Fish and Wildlife	6/30/2013	6/30/2028	6.607%	8,000	0		
1728	Fish and Wildlife	8/31/2013	8/31/2028	7.249%	5,000	0		
1729	Fish and Wildlife	10/31/2013	12/31/2026	3.717%	28,000	28,000		
1730	Fish and Wildlife	10/31/2013	5/31/2027	3.762%	11,000	11,000		
1731	Fish and Wildlife	10/31/2013	10/31/2028	3.880%	22,000	22,000		
1732	Fish and Wildlife	11/20/2013	9/30/2022	3.125%	31,000	31,000		
1733	Fish and Wildlife	11/20/2013	9/30/2023	3.375%	23,000	23,000		
1734	Fish and Wildlife	11/30/2013	5/31/2027	1.757%	5,000	5,000		
1735	Fish and Wildlife	1/31/2014	1/31/2029	3.896%	7,000	7,000		
1736	Fish and Wildlife	4/30/2014	2/28/2029	1.757%	7,000	7,000		
1737	Fish and Wildlife	5/31/2014	4/30/2027	1.757%	11,000	11,000		
1738	**Totals:**				**11,513,317**	**5,408,641**		

TABLE 12B:
PROJECTED INVESTMENT
October 1, 2013 - September 30, 2017 Cost Evaluation Period
($000s) (FY 2017)

	A	B	C	D	E	F	G
	Project	In Service Date	Due Date	Interest Rate	Current Principal	Roll Maturity Date	Rollover Rate
1	Columbia River Fish Mitigation	9/30/2015	9/30/2065	4.110%	137,096		
2	Columbia River Fish Mitigation	9/30/2016	9/30/2066	4.490%	95,220		
3	Columbia River Fish Mitigation	9/30/2017	9/30/2067	4.710%	61,932		
4	Bureau Direct	9/30/2015	8/31/2035	4.130%	42,000		
5	Bureau Direct	9/30/2016	9/30/2036	4.570%	240,000		
6	Bureau Direct	9/30/2017	9/30/2037	5.000%	271,000		
7	Conservation	9/30/2015	9/30/2027	1.757%	61,000		
8	Conservation	9/30/2015	9/30/2027	3.660%	31,000		
9	Conservation	9/30/2016	9/30/2028	4.180%	95,000		
10	Conservation	9/30/2017	9/30/2029	4.800%	96,000		
11	Construction (AS)	9/30/2015	9/30/2021	2.530%	15,750		
12	Construction (AS)	9/30/2016	9/30/2022	3.470%	15,800		
13	Construction (AS)	9/30/2017	9/30/2023	4.550%	12,700		
14	Fish and Wildlife	6/30/2015	6/30/2030	1.757%	31,000		
15	Fish and Wildlife	9/30/2015	9/30/2030	3.840%	22,000		
16	Fish and Wildlife	9/30/2016	9/30/2031	4.320%	54,000		
17	Fish and Wildlife	9/30/2017	9/30/2032	4.870%	30,000		
18	**Totals:**				**1,311,498**		

	A	B	C	D	E	F	G	H	I
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
1	2014	Albeni Falls	Historical	3,090	6.744	208	0	0	208
2	2014	Boise	Historical	4,425	6.657	295	0	0	295
3	2014	Bonneville 2nd Powerhouse	Historical	366,796	7.150	26,226	0	0	26,226
4	2014	Bonneville Dam	Historical	151,726	5.483	8,320	0	0	8,320
5	2014	Chief Joseph	Historical	238,256	6.818	16,243	0	0	16,243
6	2014	Columbia Basin	Historical	98,385	5.674	5,583	0	0	5,583
7	2014	Columbia Basin 3rd Powerhouse	Historical	455,389	7.151	32,565	0	0	32,565
8	2014	Columbia River Fish Mitigation	Historical	1,217,949	4.508	54,909	0	0	54,909
9	2014	Cougar	Historical	16,696	4.580	765	0	0	765
10	2014	Detroit Lake/Big Cliff	Historical	2,120	4.705	100	0	0	100
11	2014	Dworshak	Historical	106,037	7.076	7,503	0	0	7,503
12	2014	Green Peter/Foster	Historical	340	5.225	18	0	0	18
13	2014	Hills Creek	Historical	2,867	5.972	171	0	0	171
14	2014	Hungry Horse Dam	Historical	13,271	6.272	832	0	0	832
15	2014	Ice Harbor	Historical	36,219	6.319	2,289	0	0	2,289
16	2014	John Day	Historical	30,309	5.436	1,648	0	0	1,648
17	2014	Libby	Historical	235,708	7.104	16,744	0	0	16,744
18	2014	Little Goose	Historical	63,856	6.907	4,410	0	0	4,410
19	2014	Lookout Dam	Historical	13,543	5.467	740	0	0	740
20	2014	Lost Creek	Historical	14,884	7.136	1,062	0	0	1,062
21	2014	Lower Granite	Historical	177,498	7.009	12,441	0	0	12,441
22	2014	Lower Monument	Historical	53,104	6.792	3,607	0	0	3,607
23	2014	Lower Snake Fish and Wildlife	Historical	232,518	7.107	16,525	0	0	16,525
24	2014	McNary	Historical	14,718	5.038	742	0	0	742
25	2014	Minidoka/Palisades	Historical	50,960	7.148	3,643	0	0	3,643
26	2014	RRP - Green Springs	Historical	11,148	5.874	655	0	0	655
27	2014	The Dalles	Historical	53,067	5.506	2,922	0	0	2,922
28	2014	Yakima Chandler/Kenniwick	Historical	848	5.111	43	0	0	43
29	2014	Yakima Roza	Historical	14	5.878	1	0	0	1
30	2014	Bureau Direct	Historical	601,000	3.798	22,823	0	0	22,823
31	2014	Bureau Direct	New	339,000	1.226	4,158	0	690	4,848
32	2014	Conservation	Historical	264,000	2.476	6,537	0	0	6,537
33	2014	Conservation	New	192,000	1.118	2,147	0	1,116	3,263
34	2014	Construction (AS)	Historical	49,900	1.693	845	0	0	845
35	2014	Construction (AS)	New	20,140	0.796	160	0	100	260
36	2014	Fish and Wildlife	Historical	146,000	4.113	6,005	0	0	6,005
37	2014	Fish and Wildlife	New	148,000	2.085	3,086	0	907	3,993
38	2014	Float	Historical	0	0.000	(6,113)	0	0	(6,113)
39	**FY 2014**	**Subtotal:**		**5,425,781**		**260,858**	**0**	**2,813**	**263,670**
40	2015	Albeni Falls	Historical	3,090	6.744	208	0	0	208
41	2015	Boise	Historical	4,425	6.657	295	0	0	295
42	2015	Bonneville 2nd Powerhouse	Historical	366,796	7.150	26,226	0	0	26,226
43	2015	Bonneville Dam	Historical	151,726	5.483	8,320	0	0	8,320
44	2015	Chief Joseph	Historical	238,256	6.818	16,243	0	0	16,243
45	2015	Columbia Basin	Historical	98,385	5.674	5,583	0	0	5,583
46	2015	Columbia Basin 3rd Powerhouse	Historical	411,264	7.150	29,405	0	0	29,405
47	2015	Columbia River Fish Mitigation	Historical	1,296,526	4.470	57,957	0	0	57,957
48	2015	Cougar	Historical	16,696	4.580	765	0	0	765
49	2015	Detroit Lake/Big Cliff	Historical	2,120	4.705	100	0	0	100
50	2015	Dworshak	Historical	14,095	6.332	892	0	0	892
51	2015	Green Peter/Foster	Historical	340	5.225	18	0	0	18
52	2015	Hills Creek	Historical	2,867	5.972	171	0	0	171
53	2015	Hungry Horse Dam	Historical	13,271	6.272	832	0	0	832
54	2015	Ice Harbor	Historical	36,219	6.319	2,289	0	0	2,289
55	2015	John Day	Historical	30,309	5.436	1,648	0	0	1,648
56	2015	Libby	Historical	180,762	7.087	12,811	0	0	12,811
57	2015	Little Goose	Historical	63,856	6.907	4,410	0	0	4,410

	A	B	C	D	E	F	G	H	I
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
58	2015	Lookout Dam	Historical	13,543	5.467	740	0	0	740
59	2015	Lost Creek	Historical	14,884	7.136	1,062	0	0	1,062
60	2015	Lower Granite	Historical	55,126	6.674	3,679	0	0	3,679
61	2015	Lower Monument	Historical	53,104	6.792	3,607	0	0	3,607
62	2015	Lower Snake Fish and Wildlife	Historical	232,518	7.107	16,525	0	0	16,525
63	2015	McNary	Historical	14,718	5.038	742	0	0	742
64	2015	Minidoka/Palisades	Historical	50,960	7.148	3,643	0	0	3,643
65	2015	RRP - Green Springs	Historical	11,148	5.874	655	0	0	655
66	2015	The Dalles	Historical	45,827	5.243	2,403	0	0	2,403
67	2015	Yakima Chandler/Kenniwick	Historical	848	5.111	43	0	0	43
68	2015	Yakima Roza	Historical	14	5.878	1	0	0	1
69	2015	Bureau Direct	Historical	863,000	3.342	28,843	0	0	28,843
70	2015	Bureau Direct	New	21,000	0.000	0	0	73	73
71	2015	Conservation	Historical	441,000	2.379	10,491	0	(267)	10,224
72	2015	Conservation	New	74,000	0.511	378	0	277	654
73	2015	Construction (AS)	Historical	57,310	1.531	877	0	(6)	872
74	2015	Construction (AS)	New	14,350	0.749	107	0	86	193
75	2015	Fish and Wildlife	Historical	305,000	3.595	10,965	0	16	10,981
76	2015	Fish and Wildlife	New	41,000	0.471	193	0	196	389
77	2015	Float	Historical	0	0.000	(2,505)	0	0	(2,505)
78	**FY 2015**	**Subtotal:**		**5,240,353**		**250,623**	**0**	**375**	**250,998**
79	2016	Albeni Falls	Historical	3,090	6.744	208	0	0	208
80	2016	Boise	Historical	4,425	6.657	295	0	0	295
81	2016	Bonneville 2nd Powerhouse	Historical	366,796	7.150	26,226	0	0	26,226
82	2016	Bonneville Dam	Historical	151,726	5.483	8,320	0	0	8,320
83	2016	Chief Joseph	Historical	238,256	6.818	16,243	0	0	16,243
84	2016	Columbia Basin	Historical	98,385	5.674	5,583	0	0	5,583
85	2016	Columbia Basin 3rd Powerhouse	Historical	411,264	7.150	29,405	0	0	29,405
86	2016	Columbia River Fish Mitigation	Historical	1,433,622	4.436	63,592	0	0	63,592
87	2016	Cougar	Historical	16,696	4.580	765	0	0	765
88	2016	Detroit Lake/Big Cliff	Historical	2,120	4.705	100	0	0	100
89	2016	Dworshak	Historical	14,095	6.332	892	0	0	892
90	2016	Green Peter/Foster	Historical	340	5.225	18	0	0	18
91	2016	Hills Creek	Historical	2,867	5.972	171	0	0	171
92	2016	Hungry Horse Dam	Historical	13,271	6.272	832	0	0	832
93	2016	Ice Harbor	Historical	36,219	6.319	2,289	0	0	2,289
94	2016	John Day	Historical	30,309	5.436	1,648	0	0	1,648
95	2016	Libby	Historical	179,611	7.087	12,729	0	0	12,729
96	2016	Little Goose	Historical	63,856	6.907	4,410	0	0	4,410
97	2016	Lookout Dam	Historical	13,543	5.467	740	0	0	740
98	2016	Lost Creek	Historical	14,884	7.136	1,062	0	0	1,062
99	2016	Lower Granite	Historical	55,126	6.674	3,679	0	0	3,679
100	2016	Lower Monument	Historical	53,104	6.792	3,607	0	0	3,607
101	2016	Lower Snake Fish and Wildlife	Historical	232,518	7.107	16,525	0	0	16,525
102	2016	McNary	Historical	14,718	5.038	742	0	0	742
103	2016	Minidoka/Palisades	Historical	50,960	7.148	3,643	0	0	3,643
104	2016	RRP - Green Springs	Historical	11,148	5.874	655	0	0	655
105	2016	The Dalles	Historical	45,827	5.243	2,403	0	0	2,403
106	2016	Yakima Chandler/Kenniwick	Historical	848	5.111	43	0	0	43
107	2016	Yakima Roza	Historical	14	5.878	1	0	0	1
108	2016	Bureau Direct	Historical	905,000	3.378	30,575	0	0	30,575
109	2016	Bureau Direct	New	213,000	1.094	2,331	0	2,223	4,554
110	2016	Conservation	Historical	428,000	2.642	11,307	0	0	11,307
111	2016	Conservation	New	76,000	1.210	920	0	593	1,512
112	2016	Construction (AS)	Historical	68,060	1.709	1,163	0	(38)	1,124
113	2016	Construction (AS)	New	14,050	1.173	165	0	154	319
114	2016	Fish and Wildlife	Historical	358,000	3.455	12,370	0	0	12,370
115	2016	Fish and Wildlife	New	42,000	1.183	497	0	421	917
116	2016	Float	Historical	0	0.000	(3,209)	0	0	(3,209)
117	**FY 2016**	**Subtotal:**		**5,663,748**		**262,944**	**0**	**3,352**	**266,296**

	A	B	C	D	E	F	G	H	I
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
118	2017	Albeni Falls	Historical	3,090	6.744	208	0	0	208
119	2017	Boise	Historical	4,425	6.657	295	0	0	295
120	2017	Bonneville 2nd Powerhouse	Historical	366,796	7.150	26,226	0	0	26,226
121	2017	Bonneville Dam	Historical	151,726	5.483	8,320	0	0	8,320
122	2017	Chief Joseph	Historical	238,256	6.818	16,243	0	0	16,243
123	2017	Columbia Basin	Historical	98,385	5.674	5,583	0	0	5,583
124	2017	Columbia Basin 3rd Powerhouse	Historical	411,264	7.150	29,405	0	0	29,405
125	2017	Columbia River Fish Mitigation	Historical	1,528,842	4.439	67,867	0	0	67,867
126	2017	Cougar	Historical	16,696	4.580	765	0	0	765
127	2017	Detroit Lake/Big Cliff	Historical	2,120	4.705	100	0	0	100
128	2017	Dworshak	Historical	14,095	6.332	892	0	0	892
129	2017	Green Peter/Foster	Historical	340	5.225	18	0	0	18
130	2017	Hills Creek	Historical	2,867	5.972	171	0	0	171
131	2017	Hungry Horse Dam	Historical	13,271	6.272	832	0	0	832
132	2017	Ice Harbor	Historical	36,219	6.319	2,289	0	0	2,289
133	2017	John Day	Historical	30,309	5.436	1,648	0	0	1,648
134	2017	Libby	Historical	84,455	7.016	5,925	0	0	5,925
135	2017	Little Goose	Historical	63,856	6.907	4,410	0	0	4,410
136	2017	Lookout Dam	Historical	13,543	5.467	740	0	0	740
137	2017	Lost Creek	Historical	14,884	7.136	1,062	0	0	1,062
138	2017	Lower Granite	Historical	55,126	6.674	3,679	0	0	3,679
139	2017	Lower Monument	Historical	53,104	6.792	3,607	0	0	3,607
140	2017	Lower Snake Fish and Wildlife	Historical	232,518	7.107	16,525	0	0	16,525
141	2017	McNary	Historical	14,718	5.038	742	0	0	742
142	2017	Minidoka/Palisades	Historical	50,960	7.148	3,643	0	0	3,643
143	2017	RRP - Green Springs	Historical	11,148	5.874	655	0	0	655
144	2017	The Dalles	Historical	45,827	5.243	2,403	0	0	2,403
145	2017	Yakima Chandler/Kenniwick	Historical	848	5.111	43	0	0	43
146	2017	Yakima Roza	Historical	14	5.878	1	0	0	1
147	2017	Bureau Direct	Historical	1,145,000	3.628	41,538	0	0	41,538
148	2017	Bureau Direct	New	241,000	1.193	2,875	0	2,749	5,624
149	2017	Conservation	Historical	523,000	2.909	15,213	0	(42)	15,171
150	2017	Conservation	New	77,000	1.371	1,056	0	697	1,753
151	2017	Construction (AS)	Historical	73,360	2.095	1,537	0	(31)	1,506
152	2017	Construction (AS)	New	11,300	1.641	185	0	143	329
153	2017	Fish and Wildlife	Historical	412,000	3.568	14,702	0	0	14,702
154	2017	Fish and Wildlife	New	23,000	1.376	317	0	260	576
155	2017	Float	Historical	0	0.000	(5,998)	0	0	(5,998)
156	**FY 2017**	**Subtotal:**		**6,065,362**		**275,723**	**0**	**3,776**	**279,498**
157	2018	Albeni Falls	Historical	3,090	6.744	208	0	0	208
158	2018	Boise	Historical	4,425	6.657	295	0	0	295
159	2018	Bonneville 2nd Powerhouse	Historical	366,796	7.150	26,226	0	0	26,226
160	2018	Bonneville Dam	Historical	151,726	5.483	8,320	0	0	8,320
161	2018	Chief Joseph	Historical	238,256	6.818	16,243	0	0	16,243
162	2018	Columbia Basin	Historical	98,385	5.674	5,583	0	0	5,583
163	2018	Columbia Basin 3rd Powerhouse	Historical	387,610	7.150	27,714	0	0	27,714
164	2018	Columbia River Fish Mitigation	Historical	1,590,774	4.450	70,784	0	0	70,784
165	2018	Cougar	Historical	16,696	4.580	765	0	0	765
166	2018	Detroit Lake/Big Cliff	Historical	2,120	4.705	100	0	0	100
167	2018	Dworshak	Historical	14,095	6.332	892	0	0	892
168	2018	Green Peter/Foster	Historical	340	5.225	18	0	0	18
169	2018	Hills Creek	Historical	2,867	5.972	171	0	0	171
170	2018	Hungry Horse Dam	Historical	13,271	6.272	832	0	0	832
171	2018	Ice Harbor	Historical	15,519	5.210	809	0	0	809
172	2018	John Day	Historical	30,309	5.436	1,648	0	0	1,648
173	2018	Libby	Historical	34,138	6.818	2,327	0	0	2,327
174	2018	Little Goose	Historical	63,856	6.907	4,410	0	0	4,410
175	2018	Lookout Dam	Historical	13,543	5.467	740	0	0	740
176	2018	Lost Creek	Historical	14,884	7.136	1,062	0	0	1,062
177	2018	Lower Granite	Historical	55,126	6.674	3,679	0	0	3,679

	A	B	C	D	E	F	G	H	I
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
178	2018	Lower Monument	Historical	53,104	6.792	3,607	0	0	3,607
179	2018	Lower Snake Fish and Wildlife	Historical	232,518	7.107	16,525	0	0	16,525
180	2018	McNary	Historical	14,718	5.038	742	0	0	742
181	2018	Minidoka/Palisades	Historical	50,960	7.148	3,643	0	0	3,643
182	2018	RRP - Green Springs	Historical	11,148	5.874	655	0	0	655
183	2018	The Dalles	Historical	45,827	5.243	2,403	0	0	2,403
184	2018	Yakima Chandler/Kenniwick	Historical	848	5.111	43	0	0	43
185	2018	Yakima Roza	Historical	14	5.878	1	0	0	1
186	2018	Bureau Direct	Historical	1,416,000	3.890	55,082	0	0	55,082
187	2018	Conservation	Historical	599,000	3.297	19,746	0	(57)	19,689
188	2018	Construction (AS)	Historical	70,910	2.737	1,941	0	0	1,941
189	2018	Fish and Wildlife	Historical	442,000	3.657	16,163	0	0	16,163
190	2018	Replacements	New	229,962	2.625	6,037	0	0	6,037
191	2018	Float	Historical	0	0.000	(5,791)	0	0	(5,791)
192	**FY 2018**	**Subtotal:**		**6,284,835**		**293,623**	**0**	**(57)**	**293,566**
193	2019	Albeni Falls	Historical	3,090	6.744	208	0	0	208
194	2019	Boise	Historical	4,425	6.657	295	0	0	295
195	2019	Bonneville 2nd Powerhouse	Historical	366,796	7.150	26,226	0	0	26,226
196	2019	Bonneville Dam	Historical	151,726	5.483	8,320	0	0	8,320
197	2019	Chief Joseph	Historical	216,196	6.784	14,666	0	0	14,666
198	2019	Columbia Basin	Historical	98,312	5.673	5,577	0	0	5,577
199	2019	Columbia Basin 3rd Powerhouse	Historical	311,169	7.150	22,249	0	0	22,249
200	2019	Columbia River Fish Mitigation	Historical	1,590,774	4.450	70,784	0	0	70,784
201	2019	Cougar	Historical	16,696	4.580	765	0	0	765
202	2019	Detroit Lake/Big Cliff	Historical	2,120	4.705	100	0	0	100
203	2019	Dworshak	Historical	14,095	6.332	892	0	0	892
204	2019	Green Peter/Foster	Historical	340	5.225	18	0	0	18
205	2019	Hills Creek	Historical	2,867	5.972	171	0	0	171
206	2019	Hungry Horse Dam	Historical	13,271	6.272	832	0	0	832
207	2019	Ice Harbor	Historical	15,498	5.208	807	0	0	807
208	2019	John Day	Historical	30,309	5.436	1,648	0	0	1,648
209	2019	Libby	Historical	23,079	6.658	1,537	0	0	1,537
210	2019	Little Goose	Historical	63,856	6.907	4,410	0	0	4,410
211	2019	Lookout Dam	Historical	13,543	5.467	740	0	0	740
212	2019	Lost Creek	Historical	683	6.839	47	0	0	47
213	2019	Lower Granite	Historical	55,126	6.674	3,679	0	0	3,679
214	2019	Lower Monument	Historical	53,104	6.792	3,607	0	0	3,607
215	2019	Lower Snake Fish and Wildlife	Historical	232,518	7.107	16,525	0	0	16,525
216	2019	McNary	Historical	14,367	4.987	716	0	0	716
217	2019	Minidoka/Palisades	Historical	50,960	7.148	3,643	0	0	3,643
218	2019	RRP - Green Springs	Historical	11,148	5.874	655	0	0	655
219	2019	The Dalles	Historical	45,827	5.243	2,403	0	0	2,403
220	2019	Yakima Chandler/Kenniwick	Historical	848	5.111	43	0	0	43
221	2019	Yakima Roza	Historical	14	5.878	1	0	0	1
222	2019	Bureau Direct	Historical	1,416,000	3.748	53,071	0	(1,121)	51,949
223	2019	Conservation	Historical	590,000	3.332	19,656	0	0	19,656
224	2019	Construction (AS)	Historical	70,910	2.696	1,912	0	(20)	1,892
225	2019	Fish and Wildlife	Historical	442,000	3.537	15,634	0	(309)	15,324
226	2019	Replacements	Historical	229,962	5.250	12,073	0	0	12,073
227	2019	Replacements	New	229,962	2.625	6,037	0	0	6,037
228	2019	Float	Historical	0	0.000	(9,174)	0	0	(9,174)
229	**FY 2019**	**Subtotal:**		**6,381,591**		**290,773**	**0**	**(1,450)**	**289,323**
230	2020	Albeni Falls	Historical	3,090	6.744	208	0	0	208
231	2020	Boise	Historical	4,425	6.657	295	0	0	295
232	2020	Bonneville 2nd Powerhouse	Historical	366,796	7.150	26,226	0	0	26,226
233	2020	Bonneville Dam	Historical	136,056	5.291	7,199	0	0	7,199
234	2020	Chief Joseph	Historical	207,744	6.769	14,062	0	0	14,062
235	2020	Columbia Basin	Historical	98,312	5.673	5,577	0	0	5,577
236	2020	Columbia Basin 3rd Powerhouse	Historical	311,169	7.150	22,249	0	0	22,249
237	2020	Columbia River Fish Mitigation	Historical	1,590,774	4.450	70,784	0	0	70,784

	A	B	C	D	E	F	G	H	I
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
238	2020	Cougar	Historical	16,696	4.580	765	0	0	765
239	2020	Detroit Lake/Big Cliff	Historical	2,120	4.705	100	0	0	100
240	2020	Dworshak	Historical	14,095	6.332	892	0	0	892
241	2020	Green Peter/Foster	Historical	340	5.225	18	0	0	18
242	2020	Hills Creek	Historical	2,867	5.972	171	0	0	171
243	2020	Hungry Horse Dam	Historical	13,271	6.272	832	0	0	832
244	2020	Ice Harbor	Historical	15,498	5.208	807	0	0	807
245	2020	John Day	Historical	30,309	5.436	1,648	0	0	1,648
246	2020	Libby	Historical	23,079	6.658	1,537	0	0	1,537
247	2020	Little Goose	Historical	30,612	6.643	2,033	0	0	2,033
248	2020	Lookout Dam	Historical	13,543	5.467	740	0	0	740
249	2020	Lost Creek	Historical	303	6.450	20	0	0	20
250	2020	Lower Granite	Historical	14,515	5.341	775	0	0	775
251	2020	Lower Monument	Historical	53,104	6.792	3,607	0	0	3,607
252	2020	Lower Snake Fish and Wildlife	Historical	232,518	7.107	16,525	0	0	16,525
253	2020	McNary	Historical	14,367	4.987	716	0	0	716
254	2020	Minidoka/Palisades	Historical	50,960	7.148	3,643	0	0	3,643
255	2020	RRP - Green Springs	Historical	11,148	5.874	655	0	0	655
256	2020	The Dalles	Historical	45,827	5.243	2,403	0	0	2,403
257	2020	Yakima Chandler/Kenniwick	Historical	848	5.111	43	0	0	43
258	2020	Yakima Roza	Historical	14	5.878	1	0	0	1
259	2020	Bureau Direct	Historical	1,215,000	4.011	48,738	0	(1,429)	47,309
260	2020	Conservation	Historical	590,000	3.332	19,656	0	0	19,656
261	2020	Construction (AS)	Historical	65,660	2.617	1,718	0	(101)	1,617
262	2020	Fish and Wildlife	Historical	396,000	3.681	14,577	0	0	14,577
263	2020	Replacements	Historical	459,924	5.250	24,146	0	0	24,146
264	2020	Replacements	New	229,962	2.625	6,037	0	0	6,037
265	2020	Float	Historical	0	0.000	(8,474)	0	0	(8,474)
266	**FY 2020**	**Subtotal:**		**6,260,947**		**290,930**	**0**	**(1,530)**	**289,401**
267	2021	Albeni Falls	Historical	3,090	6.744	208	0	0	208
268	2021	Boise	Historical	4,425	6.657	295	0	0	295
269	2021	Bonneville 2nd Powerhouse	Historical	366,796	7.150	26,226	0	0	26,226
270	2021	Bonneville Dam	Historical	136,056	5.291	7,199	0	0	7,199
271	2021	Chief Joseph	Historical	170,165	6.685	11,375	0	0	11,375
272	2021	Columbia Basin	Historical	98,312	5.673	5,577	0	0	5,577
273	2021	Columbia Basin 3rd Powerhouse	Historical	260,874	7.150	18,652	0	0	18,652
274	2021	Columbia River Fish Mitigation	Historical	1,590,774	4.450	70,784	0	0	70,784
275	2021	Cougar	Historical	16,696	4.580	765	0	0	765
276	2021	Detroit Lake/Big Cliff	Historical	2,120	4.705	100	0	0	100
277	2021	Dworshak	Historical	14,095	6.332	892	0	0	892
278	2021	Green Peter/Foster	Historical	340	5.225	18	0	0	18
279	2021	Hills Creek	Historical	2,867	5.972	171	0	0	171
280	2021	Hungry Horse Dam	Historical	13,271	6.272	832	0	0	832
281	2021	Ice Harbor	Historical	15,498	5.208	807	0	0	807
282	2021	John Day	Historical	30,309	5.436	1,648	0	0	1,648
283	2021	Libby	Historical	23,079	6.658	1,537	0	0	1,537
284	2021	Little Goose	Historical	14,278	6.062	866	0	0	866
285	2021	Lookout Dam	Historical	13,543	5.467	740	0	0	740
286	2021	Lost Creek	Historical	303	6.450	20	0	0	20
287	2021	Lower Granite	Historical	14,515	5.341	775	0	0	775
288	2021	Lower Monument	Historical	53,104	6.792	3,607	0	0	3,607
289	2021	Lower Snake Fish and Wildlife	Historical	232,518	7.107	16,525	0	0	16,525
290	2021	McNary	Historical	14,367	4.987	716	0	0	716
291	2021	Minidoka/Palisades	Historical	50,960	7.148	3,643	0	0	3,643
292	2021	RRP - Green Springs	Historical	11,148	5.874	655	0	0	655
293	2021	The Dalles	Historical	45,827	5.243	2,403	0	0	2,403
294	2021	Yakima Chandler/Kenniwick	Historical	848	5.111	43	0	0	43
295	2021	Yakima Roza	Historical	14	5.878	1	0	0	1
296	2021	Bureau Direct	Historical	1,004,000	4.233	42,502	0	(165)	42,337
297	2021	Conservation	Historical	590,000	3.332	19,656	0	0	19,656

	A	B	C	D	E	F	G	H	I
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
298	2021	Construction (AS)	Historical	44,250	3.067	1,357	0	(86)	1,271
299	2021	Fish and Wildlife	Historical	396,000	3.681	14,577	0	0	14,577
300	2021	Replacements	Historical	689,886	5.250	36,219	0	0	36,219
301	2021	Replacements	New	229,962	2.625	6,037	0	0	6,037
302	2021	Float	Historical	0	0.000	(8,703)	0	0	(8,703)
303	**FY 2021**	**Subtotal:**		**6,154,290**		**288,726**	**0**	**(251)**	**288,475**
304	2022	Albeni Falls	Historical	3,090	6.744	208	0	0	208
305	2022	Boise	Historical	4,425	6.657	295	0	0	295
306	2022	Bonneville 2nd Powerhouse	Historical	366,796	7.150	26,226	0	0	26,226
307	2022	Bonneville Dam	Historical	136,056	5.291	7,199	0	0	7,199
308	2022	Chief Joseph	Historical	54,204	5.689	3,084	0	0	3,084
309	2022	Columbia Basin	Historical	98,312	5.673	5,577	0	0	5,577
310	2022	Columbia Basin 3rd Powerhouse	Historical	161,090	7.150	11,518	0	0	11,518
311	2022	Columbia River Fish Mitigation	Historical	1,590,774	4.450	70,784	0	0	70,784
312	2022	Cougar	Historical	16,696	4.580	765	0	0	765
313	2022	Detroit Lake/Big Cliff	Historical	2,120	4.705	100	0	0	100
314	2022	Dworshak	Historical	14,095	6.332	892	0	0	892
315	2022	Green Peter/Foster	Historical	340	5.225	18	0	0	18
316	2022	Hills Creek	Historical	2,867	5.972	171	0	0	171
317	2022	Hungry Horse Dam	Historical	13,271	6.272	832	0	0	832
318	2022	Ice Harbor	Historical	15,498	5.208	807	0	0	807
319	2022	John Day	Historical	30,309	5.436	1,648	0	0	1,648
320	2022	Libby	Historical	23,079	6.658	1,537	0	0	1,537
321	2022	Little Goose	Historical	14,231	6.058	862	0	0	862
322	2022	Lookout Dam	Historical	13,543	5.467	740	0	0	740
323	2022	Lost Creek	Historical	303	6.450	20	0	0	20
324	2022	Lower Granite	Historical	14,515	5.341	775	0	0	775
325	2022	Lower Monument	Historical	12,179	5.587	680	0	0	680
326	2022	Lower Snake Fish and Wildlife	Historical	232,518	7.107	16,525	0	0	16,525
327	2022	McNary	Historical	14,367	4.987	716	0	0	716
328	2022	Minidoka/Palisades	Historical	50,960	7.148	3,643	0	0	3,643
329	2022	RRP - Green Springs	Historical	11,148	5.874	655	0	0	655
330	2022	The Dalles	Historical	45,827	5.243	2,403	0	0	2,403
331	2022	Yakima Chandler/Kenniwick	Historical	848	5.111	43	0	0	43
332	2022	Yakima Roza	Historical	14	5.878	1	0	0	1
333	2022	Bureau Direct	Historical	907,000	4.406	39,962	0	0	39,962
334	2022	Conservation	Historical	590,000	3.316	19,562	0	(47)	19,515
335	2022	Construction (AS)	Historical	28,500	3.330	949	0	(142)	807
336	2022	Fish and Wildlife	Historical	396,000	3.681	14,577	0	0	14,577
337	2022	Replacements	Historical	919,848	5.250	48,292	0	0	48,292
338	2022	Replacements	New	229,962	2.625	6,037	0	0	6,037
339	2022	Float	Historical	0	0.000	(8,544)	0	0	(8,544)
340	**FY 2022**	**Subtotal:**		**6,014,785**		**279,561**	**0**	**(189)**	**279,372**
341	2023	Albeni Falls	Historical	3,090	6.744	208	0	0	208
342	2023	Boise	Historical	4,425	6.657	295	0	0	295
343	2023	Bonneville 2nd Powerhouse	Historical	114,100	7.150	8,158	0	0	8,158
344	2023	Bonneville Dam	Historical	135,516	5.284	7,161	0	0	7,161
345	2023	Chief Joseph	Historical	37,578	5.043	1,895	0	0	1,895
346	2023	Columbia Basin	Historical	97,952	5.668	5,552	0	0	5,552
347	2023	Columbia Basin 3rd Powerhouse	Historical	147,375	7.150	10,537	0	0	10,537
348	2023	Columbia River Fish Mitigation	Historical	1,590,774	4.450	70,784	0	0	70,784
349	2023	Cougar	Historical	16,696	4.580	765	0	0	765
350	2023	Detroit Lake/Big Cliff	Historical	2,120	4.705	100	0	0	100
351	2023	Dworshak	Historical	13,668	6.307	862	0	0	862
352	2023	Green Peter/Foster	Historical	340	5.225	18	0	0	18
353	2023	Hills Creek	Historical	2,867	5.972	171	0	0	171
354	2023	Hungry Horse Dam	Historical	11,540	6.141	709	0	0	709
355	2023	Ice Harbor	Historical	15,420	5.198	802	0	0	802
356	2023	John Day	Historical	30,309	5.436	1,648	0	0	1,648
357	2023	Libby	Historical	22,777	6.652	1,515	0	0	1,515

	A	B	C	D	E	F	G	H	I
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
358	2023	Little Goose	Historical	14,231	6.058	862	0	0	862
359	2023	Lookout Dam	Historical	13,543	5.467	740	0	0	740
360	2023	Lost Creek	Historical	272	6.370	17	0	0	17
361	2023	Lower Granite	Historical	12,758	5.092	650	0	0	650
362	2023	Lower Monument	Historical	12,179	5.587	680	0	0	680
363	2023	Lower Snake Fish and Wildlife	Historical	223,045	7.105	15,848	0	0	15,848
364	2023	McNary	Historical	14,337	4.982	714	0	0	714
365	2023	Minidoka/Palisades	Historical	50,960	7.148	3,643	0	0	3,643
366	2023	RRP - Green Springs	Historical	11,148	5.874	655	0	0	655
367	2023	The Dalles	Historical	45,827	5.243	2,403	0	0	2,403
368	2023	Yakima Chandler/Kenniwick	Historical	848	5.111	43	0	0	43
369	2023	Yakima Roza	Historical	14	5.878	1	0	0	1
370	2023	Bureau Direct	Historical	888,000	4.433	39,368	0	(456)	38,912
371	2023	Conservation	Historical	584,000	3.195	18,659	0	(947)	17,712
372	2023	Construction (AS)	Historical	12,700	3.091	393	0	(143)	249
373	2023	Fish and Wildlife	Historical	365,000	3.728	13,608	0	0	13,608
374	2023	Replacements	Historical	1,149,810	5.250	60,365	0	0	60,365
375	2023	Replacements	New	229,962	2.625	6,037	0	0	6,037
376	2023	Float	Historical	0	0.000	(8,494)	0	0	(8,494)
377	**FY 2023**	**Subtotal:**		**5,875,182**		**267,371**	**0**	**(1,546)**	**265,825**
378	2024	Albeni Falls	Historical	3,090	6.744	208	0	0	208
379	2024	Boise	Historical	4,425	6.657	295	0	0	295
380	2024	Bonneville 2nd Powerhouse	Historical	26,307	7.150	1,881	0	0	1,881
381	2024	Bonneville Dam	Historical	135,516	5.284	7,161	0	0	7,161
382	2024	Chief Joseph	Historical	37,578	5.043	1,895	0	0	1,895
383	2024	Columbia Basin	Historical	97,952	5.668	5,552	0	0	5,552
384	2024	Columbia Basin 3rd Powerhouse	Historical	52,730	7.150	3,770	0	0	3,770
385	2024	Columbia River Fish Mitigation	Historical	1,590,774	4.450	70,784	0	0	70,784
386	2024	Cougar	Historical	16,696	4.580	765	0	0	765
387	2024	Detroit Lake/Big Cliff	Historical	2,120	4.705	100	0	0	100
388	2024	Dworshak	Historical	13,668	6.307	862	0	0	862
389	2024	Green Peter/Foster	Historical	340	5.225	18	0	0	18
390	2024	Hills Creek	Historical	2,867	5.972	171	0	0	171
391	2024	Hungry Horse Dam	Historical	11,540	6.141	709	0	0	709
392	2024	Ice Harbor	Historical	15,420	5.198	802	0	0	802
393	2024	John Day	Historical	30,309	5.436	1,648	0	0	1,648
394	2024	Libby	Historical	22,777	6.652	1,515	0	0	1,515
395	2024	Little Goose	Historical	14,231	6.058	862	0	0	862
396	2024	Lookout Dam	Historical	13,543	5.467	740	0	0	740
397	2024	Lost Creek	Historical	272	6.370	17	0	0	17
398	2024	Lower Granite	Historical	12,758	5.092	650	0	0	650
399	2024	Lower Monument	Historical	12,179	5.587	680	0	0	680
400	2024	Lower Snake Fish and Wildlife	Historical	223,045	7.105	15,848	0	0	15,848
401	2024	McNary	Historical	14,337	4.982	714	0	0	714
402	2024	Minidoka/Palisades	Historical	50,960	7.148	3,643	0	0	3,643
403	2024	RRP - Green Springs	Historical	11,148	5.874	655	0	0	655
404	2024	The Dalles	Historical	45,827	5.243	2,403	0	0	2,403
405	2024	Yakima Chandler/Kenniwick	Historical	848	5.111	43	0	0	43
406	2024	Yakima Roza	Historical	14	5.878	1	0	0	1
407	2024	Bureau Direct	Historical	863,000	4.435	38,270	0	0	38,270
408	2024	Conservation	Historical	442,000	3.122	13,800	0	(351)	13,449
409	2024	Fish and Wildlife	Historical	342,000	3.752	12,832	0	(228)	12,604
410	2024	Replacements	Historical	1,379,772	5.250	72,438	0	0	72,438
411	2024	Replacements	New	229,962	2.625	6,037	0	0	6,037
412	2024	Float	Historical	0	0.000	(9,240)	0	0	(9,240)
413	**FY 2024**	**Subtotal:**		**5,720,006**		**258,528**	**0**	**(579)**	**257,949**
414	2025	Albeni Falls	Historical	3,090	6.744	208	0	0	208
415	2025	Boise	Historical	4,425	6.657	295	0	0	295
416	2025	Bonneville 2nd Powerhouse	Historical	4,167	7.150	298	0	0	298
417	2025	Bonneville Dam	Historical	135,516	5.284	7,161	0	0	7,161

	A	B	C	D	E	F	G	H	I
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
418	2025	Chief Joseph	Historical	33,561	4.790	1,608	0	0	1,608
419	2025	Columbia Basin	Historical	97,952	5.668	5,552	0	0	5,552
420	2025	Columbia River Fish Mitigation	Historical	1,551,492	4.381	67,976	0	0	67,976
421	2025	Cougar	Historical	16,696	4.580	765	0	0	765
422	2025	Detroit Lake/Big Cliff	Historical	2,120	4.705	100	0	0	100
423	2025	Dworshak	Historical	12,680	6.241	791	0	0	791
424	2025	Green Peter/Foster	Historical	340	5.225	18	0	0	18
425	2025	Hills Creek	Historical	2,867	5.972	171	0	0	171
426	2025	Hungry Horse Dam	Historical	5,350	4.973	266	0	0	266
427	2025	Ice Harbor	Historical	15,049	5.150	775	0	0	775
428	2025	John Day	Historical	21,816	4.769	1,040	0	0	1,040
429	2025	Libby	Historical	7,996	5.731	458	0	0	458
430	2025	Little Goose	Historical	13,031	5.958	776	0	0	776
431	2025	Lookout Dam	Historical	13,471	5.458	735	0	0	735
432	2025	Lost Creek	Historical	178	5.960	11	0	0	11
433	2025	Lower Granite	Historical	12,758	5.092	650	0	0	650
434	2025	Lower Monument	Historical	10,029	5.252	527	0	0	527
435	2025	Lower Snake Fish and Wildlife	Historical	19,461	6.639	1,292	0	0	1,292
436	2025	McNary	Historical	14,321	4.980	713	0	0	713
437	2025	Minidoka/Palisades	Historical	50,960	7.148	3,643	0	0	3,643
438	2025	RRP - Green Springs	Historical	11,148	5.874	655	0	0	655
439	2025	The Dalles	Historical	45,827	5.243	2,403	0	0	2,403
440	2025	Yakima Chandler/Kenniwick	Historical	848	5.111	43	0	0	43
441	2025	Yakima Roza	Historical	14	5.878	1	0	0	1
442	2025	Bureau Direct	Historical	863,000	4.359	37,621	0	(325)	37,297
443	2025	Conservation	Historical	372,000	3.497	13,009	0	(225)	12,784
444	2025	Fish and Wildlife	Historical	322,000	3.702	11,921	0	0	11,921
445	2025	Replacements	Historical	1,609,734	5.250	84,511	0	0	84,511
446	2025	Replacements	New	229,962	2.625	6,037	0	0	6,037
447	2025	Float	Historical	0	0.000	(11,575)	0	0	(11,575)
448	**FY 2025**	**Subtotal:**		**5,503,860**		**240,454**	**0**	**(549)**	**239,904**
449	2026	Albeni Falls	Historical	580	4.988	29	0	0	29
450	2026	Boise	Historical	1,060	5.091	54	0	0	54
451	2026	Bonneville Dam	Historical	53,486	4.669	2,497	0	0	2,497
452	2026	Chief Joseph	Historical	28,269	4.435	1,254	0	0	1,254
453	2026	Columbia Basin	Historical	21,800	4.539	989	0	0	989
454	2026	Columbia River Fish Mitigation	Historical	1,343,955	4.208	56,554	0	0	56,554
455	2026	Cougar	Historical	13,048	4.354	568	0	0	568
456	2026	Detroit Lake/Big Cliff	Historical	1,559	4.363	68	0	0	68
457	2026	Dworshak	Historical	3,275	4.543	149	0	0	149
458	2026	Green Peter/Foster	Historical	115	3.657	4	0	0	4
459	2026	Hills Creek	Historical	200	3.800	8	0	0	8
460	2026	Hungry Horse Dam	Historical	4,670	4.807	224	0	0	224
461	2026	Ice Harbor	Historical	3,770	4.204	158	0	0	158
462	2026	John Day	Historical	11,918	4.039	481	0	0	481
463	2026	Libby	Historical	1,774	4.751	84	0	0	84
464	2026	Little Goose	Historical	3,280	4.346	143	0	0	143
465	2026	Lookout Dam	Historical	8,238	5.051	416	0	0	416
466	2026	Lost Creek	Historical	7	3.748	0	0	0	0
467	2026	Lower Granite	Historical	7,250	4.397	319	0	0	319
468	2026	Lower Monument	Historical	3,243	4.482	145	0	0	145
469	2026	Lower Snake Fish and Wildlife	Historical	2,125	4.380	93	0	0	93
470	2026	McNary	Historical	6,421	4.245	273	0	0	273
471	2026	Minidoka/Palisades	Historical	7	3.381	0	0	0	0
472	2026	RRP - Green Springs	Historical	3	3.299	0	0	0	0
473	2026	The Dalles	Historical	27,076	5.062	1,371	0	0	1,371
474	2026	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
475	2026	Bureau Direct	Historical	837,339	3.607	30,203	0	(3,249)	26,954
476	2026	Conservation	Historical	322,000	3.564	11,478	0	(533)	10,944
477	2026	Fish and Wildlife	Historical	322,000	3.255	10,481	0	(580)	9,901

	A	B	C	D	E	F	G	H	I
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
478	2026	Replacements	Historical	1,839,696	5.250	96,584	0	0	96,584
479	2026	Replacements	New	229,962	2.625	6,037	0	0	6,037
480	2026	Float	Historical	0	0.000	(11,511)	0	0	(11,511)
481	**FY 2026**	**Subtotal:**		**5,098,139**		**209,154**	**0**	**(4,362)**	**204,792**
482	2027	Albeni Falls	Historical	99	4.322	4	0	0	4
483	2027	Boise	Historical	81	4.792	4	0	0	4
484	2027	Bonneville Dam	Historical	32,636	4.381	1,430	0	0	1,430
485	2027	Chief Joseph	Historical	28,269	4.435	1,254	0	0	1,254
486	2027	Columbia Basin	Historical	9,909	3.847	381	0	0	381
487	2027	Columbia River Fish Mitigation	Historical	1,238,391	4.135	51,211	0	0	51,211
488	2027	Cougar	Historical	4,798	3.033	146	0	0	146
489	2027	Detroit Lake/Big Cliff	Historical	528	2.875	15	0	0	15
490	2027	Dworshak	Historical	2,562	4.381	112	0	0	112
491	2027	Green Peter/Foster	Historical	115	3.657	4	0	0	4
492	2027	Hills Creek	Historical	154	3.404	5	0	0	5
493	2027	Hungry Horse Dam	Historical	1,425	4.109	59	0	0	59
494	2027	Ice Harbor	Historical	3,770	4.204	158	0	0	158
495	2027	John Day	Historical	8,857	3.668	325	0	0	325
496	2027	Libby	Historical	1,774	4.751	84	0	0	84
497	2027	Little Goose	Historical	3,280	4.346	143	0	0	143
498	2027	Lookout Dam	Historical	311	3.396	11	0	0	11
499	2027	Lost Creek	Historical	7	3.748	0	0	0	0
500	2027	Lower Granite	Historical	6,858	4.355	299	0	0	299
501	2027	Lower Monument	Historical	2,716	4.357	118	0	0	118
502	2027	Lower Snake Fish and Wildlife	Historical	2,120	4.379	93	0	0	93
503	2027	McNary	Historical	5,871	4.163	244	0	0	244
504	2027	Minidoka/Palisades	Historical	7	3.381	0	0	0	0
505	2027	RRP - Green Springs	Historical	3	3.299	0	0	0	0
506	2027	The Dalles	Historical	3,681	4.668	172	0	0	172
507	2027	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
508	2027	Bureau Direct	Historical	480,721	2.916	14,016	0	(2,925)	11,091
509	2027	Conservation	Historical	283,000	3.023	8,555	0	(933)	7,622
510	2027	Fish and Wildlife	Historical	242,000	3.040	7,356	0	(768)	6,588
511	2027	Replacements	Historical	2,069,658	5.250	108,657	0	0	108,657
512	2027	Replacements	New	229,962	2.625	6,037	0	0	6,037
513	2027	Float	Historical	0	0.000	(11,652)	0	0	(11,652)
514	**FY 2027**	**Subtotal:**		**4,663,579**		**189,241**	**0**	**(4,626)**	**184,616**
515	2028	Albeni Falls	Historical	99	4.322	4	0	0	4
516	2028	Boise	Historical	66	4.857	3	0	0	3
517	2028	Bonneville Dam	Historical	30,008	4.371	1,312	0	0	1,312
518	2028	Chief Joseph	Historical	28,269	4.435	1,254	0	0	1,254
519	2028	Columbia Basin	Historical	7,922	3.683	292	0	0	292
520	2028	Columbia River Fish Mitigation	Historical	1,117,475	4.085	45,646	0	0	45,646
521	2028	Cougar	Historical	4,689	2.998	141	0	0	141
522	2028	Detroit Lake/Big Cliff	Historical	528	2.875	15	0	0	15
523	2028	Dworshak	Historical	2,489	4.377	109	0	0	109
524	2028	Green Peter/Foster	Historical	115	3.657	4	0	0	4
525	2028	Hills Creek	Historical	154	3.404	5	0	0	5
526	2028	Hungry Horse Dam	Historical	1,425	4.109	59	0	0	59
527	2028	Ice Harbor	Historical	3,770	4.204	158	0	0	158
528	2028	John Day	Historical	8,257	3.607	298	0	0	298
529	2028	Libby	Historical	1,774	4.751	84	0	0	84
530	2028	Little Goose	Historical	3,280	4.346	143	0	0	143
531	2028	Lookout Dam	Historical	311	3.396	11	0	0	11
532	2028	Lost Creek	Historical	7	3.748	0	0	0	0
533	2028	Lower Granite	Historical	6,858	4.355	299	0	0	299
534	2028	Lower Monument	Historical	2,431	4.340	106	0	0	106
535	2028	Lower Snake Fish and Wildlife	Historical	1,741	4.352	76	0	0	76
536	2028	McNary	Historical	1,791	3.394	61	0	0	61
537	2028	Minidoka/Palisades	Historical	7	3.381	0	0	0	0

	A	B	C	D	E	F	G	H	I
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
538	2028	RRP - Green Springs	Historical	3	3.299	0	0	0	0
539	2028	The Dalles	Historical	1,651	4.875	80	0	0	80
540	2028	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
541	2028	Bureau Direct	Historical	179,458	2.181	3,913	0	(530)	3,384
542	2028	Conservation	Historical	95,000	3.210	3,050	0	(593)	2,457
543	2028	Fish and Wildlife	Historical	156,980	2.416	3,793	0	(517)	3,276
544	2028	Replacements	Historical	2,299,620	5.250	120,730	0	0	120,730
545	2028	Replacements	New	229,962	2.625	6,037	0	0	6,037
546	2028	Float	Historical	0	0.000	(12,167)	0	0	(12,167)
547	**FY 2028**	**Subtotal:**		**4,186,155**		**175,515**	**0**	**(1,639)**	**173,876**
548	2029	Albeni Falls	Historical	57	4.375	2	0	0	2
549	2029	Boise	Historical	64	4.876	3	0	0	3
550	2029	Bonneville Dam	Historical	25,839	4.377	1,131	0	0	1,131
551	2029	Chief Joseph	Historical	3,542	4.856	172	0	0	172
552	2029	Columbia Basin	Historical	5,322	3.568	190	0	0	190
553	2029	Columbia River Fish Mitigation	Historical	698,203	4.029	28,130	0	0	28,130
554	2029	Cougar	Historical	4,509	2.945	133	0	0	133
555	2029	Detroit Lake/Big Cliff	Historical	528	2.875	15	0	0	15
556	2029	Dworshak	Historical	10	4.877	0	0	0	0
557	2029	Green Peter/Foster	Historical	28	3.374	1	0	0	1
558	2029	Hills Creek	Historical	142	3.375	5	0	0	5
559	2029	Hungry Horse Dam	Historical	143	4.600	7	0	0	7
560	2029	Ice Harbor	Historical	129	3.539	5	0	0	5
561	2029	John Day	Historical	7,727	3.574	276	0	0	276
562	2029	Libby	Historical	1,582	4.860	77	0	0	77
563	2029	Little Goose	Historical	79	3.201	3	0	0	3
564	2029	Lookout Dam	Historical	294	3.375	10	0	0	10
565	2029	Lower Granite	Historical	24	4.875	1	0	0	1
566	2029	Lower Monument	Historical	99	3.514	3	0	0	3
567	2029	Lower Snake Fish and Wildlife	Historical	196	4.176	8	0	0	8
568	2029	McNary	Historical	1,226	3.230	40	0	0	40
569	2029	Minidoka/Palisades	Historical	7	3.381	0	0	0	0
570	2029	RRP - Green Springs	Historical	3	3.299	0	0	0	0
571	2029	The Dalles	Historical	1,651	4.875	80	0	0	80
572	2029	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
573	2029	Bureau Direct	Historical	76,114	1.035	788	0	(183)	605
574	2029	Fish and Wildlife	Historical	74,000	1.585	1,173	0	(431)	742
575	2029	Replacements	Historical	2,529,582	4.885	123,569	0	0	123,569
576	2029	Replacements	New	229,962	2.625	6,037	0	0	6,037
577	2029	Float	Historical	0	0.000	(12,706)	0	0	(12,706)
578	**FY 2029**	**Subtotal:**		**3,661,076**		**149,154**	**0**	**(614)**	**148,540**
579	2030	Albeni Falls	Historical	57	4.375	2	0	0	2
580	2030	Boise	Historical	64	4.876	3	0	0	3
581	2030	Bonneville Dam	Historical	14,609	4.875	712	0	0	712
582	2030	Chief Joseph	Historical	3,500	4.875	171	0	0	171
583	2030	Columbia Basin	Historical	2,173	4.567	99	0	0	99
584	2030	Columbia River Fish Mitigation	Historical	402,949	4.534	18,270	0	0	18,270
585	2030	Dworshak	Historical	10	4.877	0	0	0	0
586	2030	Hungry Horse Dam	Historical	137	4.654	6	0	0	6
587	2030	Ice Harbor	Historical	14	4.874	1	0	0	1
588	2030	John Day	Historical	1,548	4.375	68	0	0	68
589	2030	Libby	Historical	1,567	4.875	76	0	0	76
590	2030	Little Goose	Historical	13	4.877	1	0	0	1
591	2030	Lower Granite	Historical	24	4.875	1	0	0	1
592	2030	Lower Monument	Historical	9	4.871	0	0	0	0
593	2030	Lower Snake Fish and Wildlife	Historical	74	4.874	4	0	0	4
594	2030	McNary	Historical	215	4.875	10	0	0	10
595	2030	The Dalles	Historical	1,651	4.875	80	0	0	80
596	2030	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
597	2030	Fish and Wildlife	Historical	14,000	0.879	123	0	(83)	40

	A	B	C	D	E	F	G	H	I
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
598	2030	Replacements	Historical	2,407,778	4.412	106,240	0	0	106,240
599	2030	Replacements	New	229,962	2.625	6,037	0	0	6,037
600	2030	Float	Historical	0	0.000	(11,941)	0	0	(11,941)
601	**FY 2030**	**Subtotal:**		**3,080,369**		**119,966**	**0**	**(83)**	**119,882**
602	2031	Albeni Falls	Historical	57	4.375	2	0	0	2
603	2031	Boise	Historical	64	4.876	3	0	0	3
604	2031	Bonneville Dam	Historical	14,609	4.875	712	0	0	712
605	2031	Chief Joseph	Historical	3,500	4.875	171	0	0	171
606	2031	Columbia Basin	Historical	2,173	4.567	99	0	0	99
607	2031	Columbia River Fish Mitigation	Historical	402,949	4.534	18,270	0	0	18,270
608	2031	Dworshak	Historical	10	4.877	0	0	0	0
609	2031	Hungry Horse Dam	Historical	137	4.654	6	0	0	6
610	2031	Ice Harbor	Historical	14	4.874	1	0	0	1
611	2031	John Day	Historical	1,548	4.375	68	0	0	68
612	2031	Libby	Historical	1,567	4.875	76	0	0	76
613	2031	Little Goose	Historical	13	4.877	1	0	0	1
614	2031	Lower Granite	Historical	24	4.875	1	0	0	1
615	2031	Lower Monument	Historical	9	4.871	0	0	0	0
616	2031	Lower Snake Fish and Wildlife	Historical	74	4.874	4	0	0	4
617	2031	McNary	Historical	215	4.875	10	0	0	10
618	2031	The Dalles	Historical	1,651	4.875	80	0	0	80
619	2031	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
620	2031	Replacements	Historical	1,869,433	4.106	76,753	0	0	76,753
620	2031	Replacements	New	229,962	2.625	6,037	0	0	6,037
620	2031	Float	Historical	0	0.000	(12,304)	0	0	(12,304)
620	**FY 2031**	**Subtotal:**		**2,528,024**		**89,992**	**0**	**0**	**89,992**
620	2032	Albeni Falls	Historical	57	4.375	2	0	0	2
620	2032	Boise	Historical	64	4.876	3	0	0	3
620	2032	Bonneville Dam	Historical	14,609	4.875	712	0	0	712
620	2032	Chief Joseph	Historical	3,500	4.875	171	0	0	171
620	2032	Columbia Basin	Historical	2,173	4.567	99	0	0	99
620	2032	Columbia River Fish Mitigation	Historical	402,949	4.534	18,270	0	0	18,270
620	2032	Dworshak	Historical	10	4.877	0	0	0	0
620	2032	Hungry Horse Dam	Historical	137	4.654	6	0	0	6
620	2032	Ice Harbor	Historical	14	4.874	1	0	0	1
620	2032	John Day	Historical	1,548	4.375	68	0	0	68
620	2032	Libby	Historical	1,567	4.875	76	0	0	76
620	2032	Little Goose	Historical	13	4.877	1	0	0	1
620	2032	Lower Granite	Historical	24	4.875	1	0	0	1
620	2032	Lower Monument	Historical	9	4.871	0	0	0	0
620	2032	Lower Snake Fish and Wildlife	Historical	74	4.874	4	0	0	4
620	2032	McNary	Historical	215	4.875	10	0	0	10
620	2032	The Dalles	Historical	1,651	4.875	80	0	0	80
620	2032	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
620	2032	Replacements	Historical	1,284,452	3.384	43,470	0	0	43,470
620	2032	Replacements	New	229,962	2.625	6,037	0	0	6,037
620	2032	Float	Historical	0	0.000	(13,275)	0	0	(13,275)
620	**FY 2032**	**Subtotal:**		**1,943,043**		**55,738**	**0**	**0**	**55,738**
620	2033	Albeni Falls	Historical	57	4.375	2	0	0	2
620	2033	Boise	Historical	64	4.876	3	0	0	3
620	2033	Bonneville Dam	Historical	14,609	4.875	712	0	0	712
620	2033	Chief Joseph	Historical	3,500	4.875	171	0	0	171
620	2033	Columbia Basin	Historical	2,173	4.567	99	0	0	99
620	2033	Columbia River Fish Mitigation	Historical	402,949	4.534	18,270	0	0	18,270
620	2033	Dworshak	Historical	10	4.877	0	0	0	0
620	2033	Hungry Horse Dam	Historical	137	4.654	6	0	0	6
620	2033	Ice Harbor	Historical	14	4.874	1	0	0	1
620	2033	John Day	Historical	1,548	4.375	68	0	0	68
620	2033	Libby	Historical	1,567	4.875	76	0	0	76
620	2033	Little Goose	Historical	13	4.877	1	0	0	1

	A	B	C	D	E	F	G	H	I
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
620	2033	Lower Granite	Historical	24	4.875	1	0	0	1
620	2033	Lower Monument	Historical	9	4.871	0	0	0	0
620	2033	Lower Snake Fish and Wildlife	Historical	74	4.874	4	0	0	4
620	2033	McNary	Historical	215	4.875	10	0	0	10
620	2033	The Dalles	Historical	1,651	4.875	80	0	0	80
620	2033	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
620	2033	Replacements	Historical	601,512	2.625	15,790	0	0	15,790
620	2033	Replacements	New	229,962	2.625	6,037	0	0	6,037
620	2033	Float	Historical	0	0.000	(13,951)	0	0	(13,951)
620	**FY 2033**	**Subtotal:**		**1,260,102**		**27,382**	**0**	**0**	**27,382**
620	2034	Albeni Falls	Historical	57	4.375	2	0	0	2
620	2034	Boise	Historical	64	4.876	3	0	0	3
620	2034	Bonneville Dam	Historical	14,609	4.875	712	0	0	712
620	2034	Chief Joseph	Historical	3,500	4.875	171	0	0	171
620	2034	Columbia Basin	Historical	2,173	4.567	99	0	0	99
620	2034	Columbia River Fish Mitigation	Historical	402,949	4.534	18,270	0	0	18,270
620	2034	Dworshak	Historical	10	4.877	0	0	0	0
620	2034	Hungry Horse Dam	Historical	137	4.654	6	0	0	6
620	2034	Ice Harbor	Historical	14	4.874	1	0	0	1
620	2034	John Day	Historical	1,548	4.375	68	0	0	68
620	2034	Libby	Historical	1,567	4.875	76	0	0	76
620	2034	Little Goose	Historical	13	4.877	1	0	0	1
620	2034	Lower Granite	Historical	24	4.875	1	0	0	1
620	2034	Lower Monument	Historical	9	4.871	0	0	0	0
620	2034	Lower Snake Fish and Wildlife	Historical	74	4.874	4	0	0	4
620	2034	McNary	Historical	215	4.875	10	0	0	10
620	2034	The Dalles	Historical	1,651	4.875	80	0	0	80
620	2034	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
620	2034	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
620	2034	Replacements	New	229,962	2.625	6,037	0	0	6,037
620	2034	Float	Historical	0	0.000	(14,019)	0	0	(14,019)
620	**FY 2034**	**Subtotal:**		**888,553**		**17,560**	**0**	**0**	**17,560**
620	2035	Albeni Falls	Historical	57	4.375	2	0	0	2
620	2035	Boise	Historical	64	4.876	3	0	0	3
620	2035	Bonneville Dam	Historical	14,609	4.875	712	0	0	712
620	2035	Chief Joseph	Historical	3,500	4.875	171	0	0	171
620	2035	Columbia Basin	Historical	2,173	4.567	99	0	0	99
620	2035	Columbia River Fish Mitigation	Historical	402,949	4.534	18,270	0	0	18,270
620	2035	Dworshak	Historical	10	4.877	0	0	0	0
620	2035	Hungry Horse Dam	Historical	137	4.654	6	0	0	6
620	2035	Ice Harbor	Historical	14	4.874	1	0	0	1
620	2035	John Day	Historical	1,548	4.375	68	0	0	68
620	2035	Libby	Historical	1,567	4.875	76	0	0	76
620	2035	Little Goose	Historical	13	4.877	1	0	0	1
620	2035	Lower Granite	Historical	24	4.875	1	0	0	1
621	2035	Lower Monument	Historical	9	4.871	0	0	0	0
622	2035	Lower Snake Fish and Wildlife	Historical	74	4.874	4	0	0	4
623	2035	McNary	Historical	215	4.875	10	0	0	10
624	2035	The Dalles	Historical	1,651	4.875	80	0	0	80
625	2035	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
626	2035	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
627	2035	Replacements	New	229,962	2.625	6,037	0	0	6,037
628	2035	Float	Historical	0	0.000	(14,019)	0	0	(14,019)
629	**FY 2035**	**Subtotal:**		**888,553**		**17,560**	**0**	**0**	**17,560**
630	2036	Albeni Falls	Historical	57	4.375	2	0	0	2
631	2036	Boise	Historical	64	4.876	3	0	0	3
632	2036	Bonneville Dam	Historical	14,609	4.875	712	0	0	712
633	2036	Chief Joseph	Historical	3,500	4.875	171	0	0	171
634	2036	Columbia Basin	Historical	2,173	4.567	99	0	0	99
635	2036	Columbia River Fish Mitigation	Historical	402,949	4.534	18,270	0	0	18,270

	A	B	C	D	E	F	G	H	I
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
636	2036	Dworshak	Historical	10	4.877	0	0	0	0
637	2036	Hungry Horse Dam	Historical	137	4.654	6	0	0	6
638	2036	Ice Harbor	Historical	14	4.874	1	0	0	1
639	2036	John Day	Historical	1,548	4.375	68	0	0	68
640	2036	Libby	Historical	1,567	4.875	76	0	0	76
641	2036	Little Goose	Historical	13	4.877	1	0	0	1
642	2036	Lower Granite	Historical	24	4.875	1	0	0	1
643	2036	Lower Monument	Historical	9	4.871	0	0	0	0
644	2036	Lower Snake Fish and Wildlife	Historical	74	4.874	4	0	0	4
645	2036	McNary	Historical	215	4.875	10	0	0	10
646	2036	The Dalles	Historical	1,651	4.875	80	0	0	80
647	2036	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
648	2036	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
649	2036	Replacements	New	229,962	2.625	6,037	0	0	6,037
650	2036	Float	Historical	0	0.000	(14,019)	0	0	(14,019)
651	**FY 2036**	**Subtotal:**		**888,553**		**17,560**	**0**	**0**	**17,560**
652	2037	Albeni Falls	Historical	57	4.375	2	0	0	2
653	2037	Boise	Historical	64	4.876	3	0	0	3
654	2037	Bonneville Dam	Historical	14,609	4.875	712	0	0	712
655	2037	Chief Joseph	Historical	3,500	4.875	171	0	0	171
656	2037	Columbia Basin	Historical	2,173	4.567	99	0	0	99
657	2037	Columbia River Fish Mitigation	Historical	402,949	4.534	18,270	0	0	18,270
658	2037	Dworshak	Historical	10	4.877	0	0	0	0
659	2037	Hungry Horse Dam	Historical	137	4.654	6	0	0	6
660	2037	Ice Harbor	Historical	14	4.874	1	0	0	1
661	2037	John Day	Historical	1,548	4.375	68	0	0	68
662	2037	Libby	Historical	1,567	4.875	76	0	0	76
663	2037	Little Goose	Historical	13	4.877	1	0	0	1
664	2037	Lower Granite	Historical	24	4.875	1	0	0	1
665	2037	Lower Monument	Historical	9	4.871	0	0	0	0
666	2037	Lower Snake Fish and Wildlife	Historical	74	4.874	4	0	0	4
667	2037	McNary	Historical	215	4.875	10	0	0	10
668	2037	The Dalles	Historical	1,651	4.875	80	0	0	80
669	2037	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
670	2037	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
671	2037	Replacements	New	229,962	2.625	6,037	0	0	6,037
672	2037	Float	Historical	0	0.000	(14,028)	0	0	(14,028)
673	**FY 2037**	**Subtotal:**		**888,553**		**17,551**	**0**	**0**	**17,551**
674	2038	Albeni Falls	Historical	57	4.375	2	0	0	2
675	2038	Boise	Historical	64	4.876	3	0	0	3
676	2038	Bonneville Dam	Historical	14,609	4.875	712	0	0	712
677	2038	Chief Joseph	Historical	3,500	4.875	171	0	0	171
678	2038	Columbia Basin	Historical	2,173	4.567	99	0	0	99
679	2038	Columbia River Fish Mitigation	Historical	402,949	4.534	18,270	0	0	18,270
680	2038	Dworshak	Historical	10	4.877	0	0	0	0
681	2038	Hungry Horse Dam	Historical	137	4.654	6	0	0	6
682	2038	Ice Harbor	Historical	14	4.874	1	0	0	1
683	2038	John Day	Historical	1,548	4.375	68	0	0	68
684	2038	Libby	Historical	1,567	4.875	76	0	0	76
685	2038	Little Goose	Historical	13	4.877	1	0	0	1
686	2038	Lower Granite	Historical	24	4.875	1	0	0	1
687	2038	Lower Monument	Historical	9	4.871	0	0	0	0
688	2038	Lower Snake Fish and Wildlife	Historical	74	4.874	4	0	0	4
689	2038	McNary	Historical	215	4.875	10	0	0	10
690	2038	The Dalles	Historical	1,651	4.875	80	0	0	80
691	2038	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
692	2038	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
693	2038	Replacements	New	229,962	2.625	6,037	0	0	6,037
694	2038	Float	Historical	0	0.000	(14,019)	0	0	(14,019)
695	**FY 2038**	**Subtotal:**		**888,553**		**17,560**	**0**	**0**	**17,560**

	A	B	C	D	E	F	G	H	I
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
696	2039	Albeni Falls	Historical	57	4.375	2	0	0	2
697	2039	Boise	Historical	64	4.876	3	0	0	3
698	2039	Bonneville Dam	Historical	14,609	4.875	712	0	0	712
699	2039	Chief Joseph	Historical	3,500	4.875	171	0	0	171
700	2039	Columbia Basin	Historical	2,173	4.567	99	0	0	99
701	2039	Columbia River Fish Mitigation	Historical	402,949	4.534	18,270	0	0	18,270
702	2039	Dworshak	Historical	10	4.877	0	0	0	0
703	2039	Hungry Horse Dam	Historical	137	4.654	6	0	0	6
704	2039	Ice Harbor	Historical	14	4.874	1	0	0	1
705	2039	John Day	Historical	1,548	4.375	68	0	0	68
706	2039	Libby	Historical	1,567	4.875	76	0	0	76
707	2039	Little Goose	Historical	13	4.877	1	0	0	1
708	2039	Lower Granite	Historical	24	4.875	1	0	0	1
709	2039	Lower Monument	Historical	9	4.871	0	0	0	0
710	2039	Lower Snake Fish and Wildlife	Historical	74	4.874	4	0	0	4
711	2039	McNary	Historical	215	4.875	10	0	0	10
712	2039	The Dalles	Historical	1,651	4.875	80	0	0	80
713	2039	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
714	2039	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
715	2039	Replacements	New	229,962	2.625	6,037	0	0	6,037
716	2039	Float	Historical	0	0.000	(14,019)	0	0	(14,019)
717	**FY 2039**	**Subtotal:**		**888,553**		**17,560**	**0**	**0**	**17,560**
718	2040	Albeni Falls	Historical	57	4.375	2	0	0	2
719	2040	Boise	Historical	64	4.876	3	0	0	3
720	2040	Bonneville Dam	Historical	14,609	4.875	712	0	0	712
721	2040	Chief Joseph	Historical	3,500	4.875	171	0	0	171
722	2040	Columbia Basin	Historical	2,173	4.567	99	0	0	99
723	2040	Columbia River Fish Mitigation	Historical	402,949	4.534	18,270	0	0	18,270
724	2040	Dworshak	Historical	10	4.877	0	0	0	0
725	2040	Hungry Horse Dam	Historical	137	4.654	6	0	0	6
726	2040	Ice Harbor	Historical	14	4.874	1	0	0	1
727	2040	John Day	Historical	1,548	4.375	68	0	0	68
728	2040	Libby	Historical	1,567	4.875	76	0	0	76
729	2040	Little Goose	Historical	13	4.877	1	0	0	1
730	2040	Lower Granite	Historical	24	4.875	1	0	0	1
731	2040	Lower Monument	Historical	9	4.871	0	0	0	0
732	2040	Lower Snake Fish and Wildlife	Historical	74	4.874	4	0	0	4
733	2040	McNary	Historical	215	4.875	10	0	0	10
734	2040	The Dalles	Historical	1,651	4.875	80	0	0	80
735	2040	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
736	2040	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
737	2040	Replacements	New	229,962	2.625	6,037	0	0	6,037
738	2040	Float	Historical	0	0.000	(14,052)	0	0	(14,052)
739	**FY 2040**	**Subtotal:**		**888,553**		**17,528**	**0**	**0**	**17,528**
740	2041	Albeni Falls	Historical	57	4.375	2	0	0	2
741	2041	Boise	Historical	64	4.876	3	0	0	3
742	2041	Bonneville Dam	Historical	14,609	4.875	712	0	0	712
743	2041	Chief Joseph	Historical	3,500	4.875	171	0	0	171
744	2041	Columbia Basin	Historical	2,173	4.567	99	0	0	99
745	2041	Columbia River Fish Mitigation	Historical	402,949	4.534	18,270	0	0	18,270
746	2041	Dworshak	Historical	10	4.877	0	0	0	0
747	2041	Hungry Horse Dam	Historical	137	4.654	6	0	0	6
748	2041	Ice Harbor	Historical	14	4.874	1	0	0	1
749	2041	John Day	Historical	1,548	4.375	68	0	0	68
750	2041	Libby	Historical	1,567	4.875	76	0	0	76
751	2041	Little Goose	Historical	13	4.877	1	0	0	1
752	2041	Lower Granite	Historical	24	4.875	1	0	0	1
753	2041	Lower Monument	Historical	9	4.871	0	0	0	0
754	2041	Lower Snake Fish and Wildlife	Historical	74	4.874	4	0	0	4
755	2041	McNary	Historical	215	4.875	10	0	0	10

	A	B	C	D	E	F	G	H	I
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
756	2041	The Dalles	Historical	1,651	4.875	80	0	0	80
757	2041	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
758	2041	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
759	2041	Replacements	New	229,962	2.625	6,037	0	0	6,037
760	2041	Float	Historical	0	0.000	(14,150)	0	0	(14,150)
761	**FY 2041**	**Subtotal:**		**888,553**		**17,429**	**0**	**0**	**17,429**
762	2042	Albeni Falls	Historical	57	4.375	2	0	0	2
763	2042	Boise	Historical	64	4.876	3	0	0	3
764	2042	Bonneville Dam	Historical	14,609	4.875	712	0	0	712
765	2042	Chief Joseph	Historical	3,500	4.875	171	0	0	171
766	2042	Columbia Basin	Historical	2,173	4.567	99	0	0	99
767	2042	Columbia River Fish Mitigation	Historical	402,949	4.534	18,270	0	0	18,270
768	2042	Dworshak	Historical	10	4.877	0	0	0	0
769	2042	Hungry Horse Dam	Historical	137	4.654	6	0	0	6
770	2042	Ice Harbor	Historical	14	4.874	1	0	0	1
771	2042	John Day	Historical	1,548	4.375	68	0	0	68
772	2042	Libby	Historical	1,567	4.875	76	0	0	76
773	2042	Little Goose	Historical	13	4.877	1	0	0	1
774	2042	Lower Granite	Historical	24	4.875	1	0	0	1
775	2042	Lower Monument	Historical	9	4.871	0	0	0	0
776	2042	Lower Snake Fish and Wildlife	Historical	74	4.874	4	0	0	4
777	2042	McNary	Historical	215	4.875	10	0	0	10
778	2042	The Dalles	Historical	1,651	4.875	80	0	0	80
779	2042	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
780	2042	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
781	2042	Replacements	New	229,962	2.625	6,037	0	0	6,037
782	2042	Float	Historical	0	0.000	(14,150)	0	0	(14,150)
783	**FY 2042**	**Subtotal:**		**888,553**		**17,429**	**0**	**0**	**17,429**
784	2043	Albeni Falls	Historical	57	4.375	2	0	0	2
785	2043	Boise	Historical	64	4.876	3	0	0	3
786	2043	Bonneville Dam	Historical	14,609	4.875	712	0	0	712
787	2043	Chief Joseph	Historical	3,500	4.875	171	0	0	171
788	2043	Columbia Basin	Historical	2,173	4.567	99	0	0	99
789	2043	Columbia River Fish Mitigation	Historical	402,949	4.534	18,270	0	0	18,270
790	2043	Dworshak	Historical	10	4.877	0	0	0	0
791	2043	Hungry Horse Dam	Historical	137	4.654	6	0	0	6
792	2043	Ice Harbor	Historical	14	4.874	1	0	0	1
793	2043	John Day	Historical	1,548	4.375	68	0	0	68
794	2043	Libby	Historical	1,567	4.875	76	0	0	76
795	2043	Little Goose	Historical	13	4.877	1	0	0	1
796	2043	Lower Granite	Historical	24	4.875	1	0	0	1
797	2043	Lower Monument	Historical	9	4.871	0	0	0	0
798	2043	Lower Snake Fish and Wildlife	Historical	74	4.874	4	0	0	4
799	2043	McNary	Historical	215	4.875	10	0	0	10
800	2043	The Dalles	Historical	1,651	4.875	80	0	0	80
801	2043	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
802	2043	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
803	2043	Replacements	New	229,962	2.625	6,037	0	0	6,037
804	2043	Float	Historical	0	0.000	(14,150)	0	0	(14,150)
805	**FY 2043**	**Subtotal:**		**888,553**		**17,429**	**0**	**0**	**17,429**
806	2044	Albeni Falls	Historical	57	4.375	2	0	0	2
807	2044	Boise	Historical	64	4.876	3	0	0	3
808	2044	Bonneville Dam	Historical	14,609	4.875	712	0	0	712
809	2044	Chief Joseph	Historical	3,500	4.875	171	0	0	171
810	2044	Columbia Basin	Historical	2,173	4.567	99	0	0	99
811	2044	Columbia River Fish Mitigation	Historical	402,949	4.534	18,270	0	0	18,270
812	2044	Dworshak	Historical	10	4.877	0	0	0	0
813	2044	Hungry Horse Dam	Historical	137	4.654	6	0	0	6
814	2044	Ice Harbor	Historical	14	4.874	1	0	0	1
815	2044	John Day	Historical	1,548	4.375	68	0	0	68

	A	B	C	D	E	F	G	H	I
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
816	2044	Libby	Historical	1,567	4.875	76	0	0	76
817	2044	Little Goose	Historical	13	4.877	1	0	0	1
818	2044	Lower Granite	Historical	24	4.875	1	0	0	1
819	2044	Lower Monument	Historical	9	4.871	0	0	0	0
820	2044	Lower Snake Fish and Wildlife	Historical	74	4.874	4	0	0	4
821	2044	McNary	Historical	215	4.875	10	0	0	10
822	2044	The Dalles	Historical	1,651	4.875	80	0	0	80
823	2044	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
824	2044	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
825	2044	Replacements	New	229,962	2.625	6,037	0	0	6,037
826	2044	Float	Historical	0	0.000	(12,559)	0	0	(12,559)
827	**FY 2044**	**Subtotal:**		**888,553**		**19,021**	**0**	**0**	**19,021**
828	2045	Albeni Falls	Historical	57	4.375	2	0	0	2
829	2045	Boise	Historical	64	4.876	3	0	0	3
830	2045	Bonneville Dam	Historical	14,609	4.875	712	0	0	712
831	2045	Chief Joseph	Historical	3,500	4.875	171	0	0	171
832	2045	Columbia Basin	Historical	2,173	4.567	99	0	0	99
833	2045	Columbia River Fish Mitigation	Historical	402,949	4.534	18,270	0	0	18,270
834	2045	Dworshak	Historical	10	4.877	0	0	0	0
835	2045	Hungry Horse Dam	Historical	137	4.654	6	0	0	6
836	2045	Ice Harbor	Historical	14	4.874	1	0	0	1
837	2045	John Day	Historical	1,548	4.375	68	0	0	68
838	2045	Libby	Historical	1,567	4.875	76	0	0	76
839	2045	Little Goose	Historical	13	4.877	1	0	0	1
840	2045	Lower Granite	Historical	24	4.875	1	0	0	1
841	2045	Lower Monument	Historical	9	4.871	0	0	0	0
842	2045	Lower Snake Fish and Wildlife	Historical	74	4.874	4	0	0	4
843	2045	McNary	Historical	215	4.875	10	0	0	10
844	2045	The Dalles	Historical	1,651	4.875	80	0	0	80
845	2045	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
846	2045	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
847	2045	Replacements	New	229,962	2.625	6,037	0	0	6,037
848	2045	Float	Historical	0	0.000	(7,825)	0	0	(7,825)
849	**FY 2045**	**Subtotal:**		**888,553**		**23,755**	**0**	**0**	**23,755**
850	2046	Albeni Falls	Historical	57	4.375	2	0	0	2
851	2046	Boise	Historical	64	4.876	3	0	0	3
852	2046	Bonneville Dam	Historical	14,609	4.875	712	0	0	712
853	2046	Chief Joseph	Historical	3,500	4.875	171	0	0	171
854	2046	Columbia Basin	Historical	2,173	4.567	99	0	0	99
855	2046	Columbia River Fish Mitigation	Historical	402,949	4.534	18,270	0	0	18,270
856	2046	Dworshak	Historical	10	4.877	0	0	0	0
857	2046	Hungry Horse Dam	Historical	137	4.654	6	0	0	6
858	2046	Ice Harbor	Historical	14	4.874	1	0	0	1
859	2046	John Day	Historical	1,548	4.375	68	0	0	68
860	2046	Libby	Historical	1,567	4.875	76	0	0	76
861	2046	Little Goose	Historical	13	4.877	1	0	0	1
862	2046	Lower Granite	Historical	24	4.875	1	0	0	1
863	2046	Lower Monument	Historical	9	4.871	0	0	0	0
864	2046	Lower Snake Fish and Wildlife	Historical	74	4.874	4	0	0	4
865	2046	McNary	Historical	215	4.875	10	0	0	10
866	2046	The Dalles	Historical	1,651	4.875	80	0	0	80
867	2046	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
868	2046	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
869	2046	Replacements	New	229,962	2.625	6,037	0	0	6,037
870	2046	Float	Historical	0	0.000	(7,825)	0	0	(7,825)
871	**FY 2046**	**Subtotal:**		**888,553**		**23,755**	**0**	**0**	**23,755**
872	2047	Albeni Falls	Historical	57	4.375	2	0	0	2
873	2047	Boise	Historical	64	4.876	3	0	0	3
874	2047	Bonneville Dam	Historical	14,609	4.875	712	0	0	712
875	2047	Chief Joseph	Historical	3,500	4.875	171	0	0	171

	A	B	C	D	E	F	G	H	I
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
876	2047	Columbia Basin	Historical	2,173	4.567	99	0	0	99
877	2047	Columbia River Fish Mitigation	Historical	402,949	4.534	18,270	0	0	18,270
878	2047	Dworshak	Historical	10	4.877	0	0	0	0
879	2047	Hungry Horse Dam	Historical	137	4.654	6	0	0	6
880	2047	Ice Harbor	Historical	14	4.874	1	0	0	1
881	2047	John Day	Historical	1,548	4.375	68	0	0	68
882	2047	Libby	Historical	1,567	4.875	76	0	0	76
883	2047	Little Goose	Historical	13	4.877	1	0	0	1
884	2047	Lower Granite	Historical	24	4.875	1	0	0	1
885	2047	Lower Monument	Historical	9	4.871	0	0	0	0
886	2047	Lower Snake Fish and Wildlife	Historical	74	4.874	4	0	0	4
887	2047	McNary	Historical	215	4.875	10	0	0	10
888	2047	The Dalles	Historical	1,651	4.875	80	0	0	80
889	2047	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
890	2047	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
891	2047	Replacements	New	229,962	2.625	6,037	0	0	6,037
892	2047	Float	Historical	0	0.000	(7,824)	0	0	(7,824)
893	**FY 2047**	**Subtotal:**		**888,553**		**23,755**	**0**	**0**	**23,755**
894	2048	Albeni Falls	Historical	57	4.375	2	0	0	2
895	2048	Boise	Historical	64	4.876	3	0	0	3
896	2048	Bonneville Dam	Historical	14,609	4.875	712	0	0	712
897	2048	Chief Joseph	Historical	3,500	4.875	171	0	0	171
898	2048	Columbia Basin	Historical	2,173	4.567	99	0	0	99
899	2048	Columbia River Fish Mitigation	Historical	402,949	4.534	18,270	0	0	18,270
900	2048	Dworshak	Historical	10	4.877	0	0	0	0
901	2048	Hungry Horse Dam	Historical	137	4.654	6	0	0	6
902	2048	Ice Harbor	Historical	14	4.874	1	0	0	1
903	2048	John Day	Historical	1,548	4.375	68	0	0	68
904	2048	Libby	Historical	1,567	4.875	76	0	0	76
905	2048	Little Goose	Historical	13	4.877	1	0	0	1
906	2048	Lower Granite	Historical	24	4.875	1	0	0	1
907	2048	Lower Monument	Historical	9	4.871	0	0	0	0
908	2048	Lower Snake Fish and Wildlife	Historical	74	4.874	4	0	0	4
909	2048	McNary	Historical	215	4.875	10	0	0	10
910	2048	The Dalles	Historical	1,651	4.875	80	0	0	80
911	2048	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
912	2048	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
913	2048	Replacements	New	229,962	2.625	6,037	0	0	6,037
914	2048	Float	Historical	0	0.000	(7,825)	0	0	(7,825)
915	**FY 2048**	**Subtotal:**		**888,553**		**23,755**	**0**	**0**	**23,755**
916	2049	Albeni Falls	Historical	57	4.375	2	0	0	2
917	2049	Boise	Historical	64	4.876	3	0	0	3
918	2049	Bonneville Dam	Historical	14,609	4.875	712	0	0	712
919	2049	Chief Joseph	Historical	3,500	4.875	171	0	0	171
920	2049	Columbia Basin	Historical	2,173	4.567	99	0	0	99
921	2049	Columbia River Fish Mitigation	Historical	402,949	4.534	18,270	0	0	18,270
922	2049	Dworshak	Historical	10	4.877	0	0	0	0
923	2049	Hungry Horse Dam	Historical	137	4.654	6	0	0	6
924	2049	Ice Harbor	Historical	14	4.874	1	0	0	1
925	2049	John Day	Historical	1,548	4.375	68	0	0	68
926	2049	Libby	Historical	1,567	4.875	76	0	0	76
927	2049	Little Goose	Historical	13	4.877	1	0	0	1
928	2049	Lower Granite	Historical	24	4.875	1	0	0	1
929	2049	Lower Monument	Historical	9	4.871	0	0	0	0
930	2049	Lower Snake Fish and Wildlife	Historical	74	4.874	4	0	0	4
931	2049	McNary	Historical	215	4.875	10	0	0	10
932	2049	The Dalles	Historical	1,651	4.875	80	0	0	80
933	2049	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
934	2049	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
935	2049	Replacements	New	229,962	2.625	6,037	0	0	6,037

	A	B	C	D	E	F	G	H	I
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
936	2049	Float	Historical	0	0.000	(7,825)	0	0	(7,825)
937	**FY 2049**	**Subtotal:**		**888,553**		**23,755**	**0**	**0**	**23,755**
938	2050	Albeni Falls	Historical	57	4.375	2	0	0	2
939	2050	Boise	Historical	64	4.876	3	0	0	3
940	2050	Bonneville Dam	Historical	14,609	4.875	712	0	0	712
941	2050	Chief Joseph	Historical	3,500	4.875	171	0	0	171
942	2050	Columbia Basin	Historical	2,173	4.567	99	0	0	99
943	2050	Columbia River Fish Mitigation	Historical	386,554	4.535	17,532	0	0	17,532
944	2050	Dworshak	Historical	10	4.877	0	0	0	0
945	2050	Hungry Horse Dam	Historical	137	4.654	6	0	0	6
946	2050	Ice Harbor	Historical	14	4.874	1	0	0	1
947	2050	John Day	Historical	1,548	4.375	68	0	0	68
948	2050	Libby	Historical	1,567	4.875	76	0	0	76
949	2050	Little Goose	Historical	13	4.877	1	0	0	1
950	2050	Lower Granite	Historical	24	4.875	1	0	0	1
951	2050	Lower Monument	Historical	9	4.871	0	0	0	0
952	2050	Lower Snake Fish and Wildlife	Historical	74	4.874	4	0	0	4
953	2050	McNary	Historical	215	4.875	10	0	0	10
954	2050	The Dalles	Historical	1,651	4.875	80	0	0	80
955	2050	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
956	2050	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
957	2050	Replacements	New	229,962	2.625	6,037	0	0	6,037
958	2050	Float	Historical	0	0.000	(7,825)	0	0	(7,825)
959	**FY 2050**	**Subtotal:**		**872,158**		**23,017**	**0**	**0**	**23,017**
960	2051	Albeni Falls	Historical	57	4.375	2	0	0	2
961	2051	Boise	Historical	64	4.876	3	0	0	3
962	2051	Bonneville Dam	Historical	14,609	4.875	712	0	0	712
963	2051	Chief Joseph	Historical	3,500	4.875	171	0	0	171
964	2051	Columbia Basin	Historical	2,173	4.567	99	0	0	99
965	2051	Columbia River Fish Mitigation	Historical	336,554	4.541	15,282	0	0	15,282
966	2051	Dworshak	Historical	10	4.877	0	0	0	0
967	2051	Hungry Horse Dam	Historical	137	4.654	6	0	0	6
968	2051	Ice Harbor	Historical	14	4.874	1	0	0	1
969	2051	John Day	Historical	1,548	4.375	68	0	0	68
970	2051	Libby	Historical	1,567	4.875	76	0	0	76
971	2051	Little Goose	Historical	13	4.877	1	0	0	1
972	2051	Lower Granite	Historical	24	4.875	1	0	0	1
973	2051	Lower Monument	Historical	9	4.871	0	0	0	0
974	2051	Lower Snake Fish and Wildlife	Historical	74	4.874	4	0	0	4
975	2051	McNary	Historical	215	4.875	10	0	0	10
976	2051	The Dalles	Historical	1,651	4.875	80	0	0	80
977	2051	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
978	2051	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
979	2051	Replacements	New	229,962	2.625	6,037	0	0	6,037
980	2051	Float	Historical	0	0.000	(7,825)	0	0	(7,825)
981	**FY 2051**	**Subtotal:**		**822,158**		**20,767**	**0**	**0**	**20,767**
982	2052	Albeni Falls	Historical	57	4.375	2	0	0	2
983	2052	Boise	Historical	64	4.876	3	0	0	3
984	2052	Bonneville Dam	Historical	14,609	4.875	712	0	0	712
985	2052	Chief Joseph	Historical	3,500	4.875	171	0	0	171
986	2052	Columbia Basin	Historical	2,173	4.567	99	0	0	99
987	2052	Columbia River Fish Mitigation	Historical	286,554	4.548	13,032	0	0	13,032
988	2052	Dworshak	Historical	10	4.877	0	0	0	0
989	2052	Hungry Horse Dam	Historical	137	4.654	6	0	0	6
990	2052	Ice Harbor	Historical	14	4.874	1	0	0	1
991	2052	John Day	Historical	1,548	4.375	68	0	0	68
992	2052	Libby	Historical	1,567	4.875	76	0	0	76
993	2052	Little Goose	Historical	13	4.877	1	0	0	1
994	2052	Lower Granite	Historical	24	4.875	1	0	0	1
995	2052	Lower Monument	Historical	9	4.871	0	0	0	0

	A	B	C	D	E	F	G	H	I
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
996	2052	Lower Snake Fish and Wildlife	Historical	74	4.874	4	0	0	4
997	2052	McNary	Historical	215	4.875	10	0	0	10
998	2052	The Dalles	Historical	1,651	4.875	80	0	0	80
999	2052	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
1000	2052	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
1001	2052	Replacements	New	229,962	2.625	6,037	0	0	6,037
1002	2052	Float	Historical	0	0.000	(7,825)	0	0	(7,825)
1003	**FY 2052**	**Subtotal:**		**772,158**		**18,517**	**0**	**0**	**18,517**
1004	2053	Albeni Falls	Historical	57	4.375	2	0	0	2
1005	2053	Boise	Historical	64	4.876	3	0	0	3
1006	2053	Bonneville Dam	Historical	14,609	4.875	712	0	0	712
1007	2053	Chief Joseph	Historical	3,500	4.875	171	0	0	171
1008	2053	Columbia Basin	Historical	2,173	4.567	99	0	0	99
1009	2053	Columbia River Fish Mitigation	Historical	236,554	4.558	10,782	0	0	10,782
1010	2053	Dworshak	Historical	10	4.877	0	0	0	0
1011	2053	Hungry Horse Dam	Historical	137	4.654	6	0	0	6
1012	2053	Ice Harbor	Historical	14	4.874	1	0	0	1
1013	2053	John Day	Historical	1,548	4.375	68	0	0	68
1014	2053	Libby	Historical	1,567	4.875	76	0	0	76
1015	2053	Little Goose	Historical	13	4.877	1	0	0	1
1016	2053	Lower Granite	Historical	24	4.875	1	0	0	1
1017	2053	Lower Monument	Historical	9	4.871	0	0	0	0
1018	2053	Lower Snake Fish and Wildlife	Historical	74	4.874	4	0	0	4
1019	2053	McNary	Historical	215	4.875	10	0	0	10
1020	2053	The Dalles	Historical	1,651	4.875	80	0	0	80
1021	2053	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
1022	2053	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
1023	2053	Replacements	New	229,962	2.625	6,037	0	0	6,037
1024	2053	Float	Historical	0	0.000	(7,825)	0	0	(7,825)
1025	**FY 2053**	**Subtotal:**		**722,158**		**16,267**	**0**	**0**	**16,267**
1026	2054	Albeni Falls	Historical	57	4.375	2	0	0	2
1027	2054	Boise	Historical	64	4.876	3	0	0	3
1028	2054	Bonneville Dam	Historical	14,609	4.875	712	0	0	712
1029	2054	Chief Joseph	Historical	3,500	4.875	171	0	0	171
1030	2054	Columbia Basin	Historical	2,173	4.567	99	0	0	99
1031	2054	Columbia River Fish Mitigation	Historical	186,554	4.573	8,532	0	0	8,532
1032	2054	Dworshak	Historical	10	4.877	0	0	0	0
1033	2054	Hungry Horse Dam	Historical	137	4.654	6	0	0	6
1034	2054	Ice Harbor	Historical	14	4.874	1	0	0	1
1035	2054	John Day	Historical	1,548	4.375	68	0	0	68
1036	2054	Libby	Historical	1,567	4.875	76	0	0	76
1037	2054	Little Goose	Historical	13	4.877	1	0	0	1
1038	2054	Lower Granite	Historical	24	4.875	1	0	0	1
1039	2054	Lower Monument	Historical	9	4.871	0	0	0	0
1040	2054	Lower Snake Fish and Wildlife	Historical	74	4.874	4	0	0	4
1041	2054	McNary	Historical	215	4.875	10	0	0	10
1042	2054	The Dalles	Historical	1,651	4.875	80	0	0	80
1043	2054	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
1044	2054	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
1045	2054	Replacements	New	229,962	2.625	6,037	0	0	6,037
1046	2054	Float	Historical	0	0.000	(7,825)	0	0	(7,825)
1047	**FY 2054**	**Subtotal:**		**672,158**		**14,017**	**0**	**0**	**14,017**
1048	2055	Albeni Falls	Historical	57	4.375	2	0	0	2
1049	2055	Boise	Historical	64	4.876	3	0	0	3
1050	2055	Bonneville Dam	Historical	14,609	4.875	712	0	0	712
1051	2055	Chief Joseph	Historical	3,500	4.875	171	0	0	171
1052	2055	Columbia Basin	Historical	2,173	4.567	99	0	0	99
1053	2055	Columbia River Fish Mitigation	Historical	136,554	4.600	6,282	0	0	6,282
1054	2055	Dworshak	Historical	10	4.877	0	0	0	0
1055	2055	Hungry Horse Dam	Historical	137	4.654	6	0	0	6

	A	B	C	D	E	F	G	H	I
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
1056	2055	Ice Harbor	Historical	14	4.874	1	0	0	1
1057	2055	John Day	Historical	1,548	4.375	68	0	0	68
1058	2055	Libby	Historical	1,567	4.875	76	0	0	76
1059	2055	Little Goose	Historical	13	4.877	1	0	0	1
1060	2055	Lower Granite	Historical	24	4.875	1	0	0	1
1061	2055	Lower Monument	Historical	9	4.871	0	0	0	0
1062	2055	Lower Snake Fish and Wildlife	Historical	74	4.874	4	0	0	4
1063	2055	McNary	Historical	215	4.875	10	0	0	10
1064	2055	The Dalles	Historical	1,651	4.875	80	0	0	80
1065	2055	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
1066	2055	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
1067	2055	Replacements	New	229,962	2.625	6,037	0	0	6,037
1068	2055	Float	Historical	0	0.000	(7,825)	0	0	(7,825)
1069	**FY 2055**	**Subtotal:**		**622,158**		**11,767**	**0**	**0**	**11,767**
1070	2056	Albeni Falls	Historical	57	4.375	2	0	0	2
1071	2056	Boise	Historical	64	4.876	3	0	0	3
1072	2056	Bonneville Dam	Historical	14,609	4.875	712	0	0	712
1073	2056	Chief Joseph	Historical	3,500	4.875	171	0	0	171
1074	2056	Columbia Basin	Historical	2,173	4.567	99	0	0	99
1075	2056	Columbia River Fish Mitigation	Historical	86,554	4.658	4,032	0	0	4,032
1076	2056	Dworshak	Historical	10	4.877	0	0	0	0
1077	2056	Hungry Horse Dam	Historical	137	4.654	6	0	0	6
1078	2056	Ice Harbor	Historical	14	4.874	1	0	0	1
1079	2056	John Day	Historical	1,548	4.375	68	0	0	68
1080	2056	Libby	Historical	1,567	4.875	76	0	0	76
1081	2056	Little Goose	Historical	13	4.877	1	0	0	1
1082	2056	Lower Granite	Historical	24	4.875	1	0	0	1
1083	2056	Lower Monument	Historical	9	4.871	0	0	0	0
1084	2056	Lower Snake Fish and Wildlife	Historical	74	4.874	4	0	0	4
1085	2056	McNary	Historical	215	4.875	10	0	0	10
1086	2056	The Dalles	Historical	1,651	4.875	80	0	0	80
1087	2056	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
1088	2056	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
1089	2056	Replacements	New	229,962	2.625	6,037	0	0	6,037
1090	2056	Float	Historical	0	0.000	(7,825)	0	0	(7,825)
1091	**FY 2056**	**Subtotal:**		**572,158**		**9,517**	**0**	**0**	**9,517**
1092	2057	Albeni Falls	Historical	57	4.375	2	0	0	2
1093	2057	Boise	Historical	64	4.876	3	0	0	3
1094	2057	Bonneville Dam	Historical	14,609	4.875	712	0	0	712
1095	2057	Chief Joseph	Historical	3,500	4.875	171	0	0	171
1096	2057	Columbia Basin	Historical	2,173	4.567	99	0	0	99
1097	2057	Columbia River Fish Mitigation	Historical	36,554	4.875	1,782	0	0	1,782
1098	2057	Dworshak	Historical	10	4.877	0	0	0	0
1099	2057	Hungry Horse Dam	Historical	137	4.654	6	0	0	6
1100	2057	Ice Harbor	Historical	14	4.874	1	0	0	1
1101	2057	John Day	Historical	1,548	4.375	68	0	0	68
1102	2057	Libby	Historical	1,567	4.875	76	0	0	76
1103	2057	Little Goose	Historical	13	4.877	1	0	0	1
1104	2057	Lower Granite	Historical	24	4.875	1	0	0	1
1105	2057	Lower Monument	Historical	9	4.871	0	0	0	0
1106	2057	Lower Snake Fish and Wildlife	Historical	74	4.874	4	0	0	4
1107	2057	McNary	Historical	215	4.875	10	0	0	10
1108	2057	The Dalles	Historical	1,651	4.875	80	0	0	80
1109	2057	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
1110	2057	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
1111	2057	Replacements	New	229,962	2.625	6,037	0	0	6,037
1112	2057	Float	Historical	0	0.000	(7,825)	0	0	(7,825)
1113	**FY 2057**	**Subtotal:**		**522,158**		**7,267**	**0**	**0**	**7,267**
1114	2058	Albeni Falls	Historical	57	4.375	2	0	0	2
1115	2058	Boise	Historical	64	4.876	3	0	0	3

	A	B	C	D	E	F	G	H	I
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
1116	2058	Bonneville Dam	Historical	14,609	4.875	712	0	0	712
1117	2058	Chief Joseph	Historical	3,500	4.875	171	0	0	171
1118	2058	Columbia Basin	Historical	2,173	4.567	99	0	0	99
1119	2058	Columbia River Fish Mitigation	Historical	36,554	4.875	1,782	0	0	1,782
1120	2058	Dworshak	Historical	10	4.877	0	0	0	0
1121	2058	Hungry Horse Dam	Historical	137	4.654	6	0	0	6
1122	2058	Ice Harbor	Historical	14	4.874	1	0	0	1
1123	2058	John Day	Historical	1,548	4.375	68	0	0	68
1124	2058	Libby	Historical	1,567	4.875	76	0	0	76
1125	2058	Little Goose	Historical	13	4.877	1	0	0	1
1126	2058	Lower Granite	Historical	24	4.875	1	0	0	1
1127	2058	Lower Monument	Historical	9	4.871	0	0	0	0
1128	2058	Lower Snake Fish and Wildlife	Historical	74	4.874	4	0	0	4
1129	2058	McNary	Historical	215	4.875	10	0	0	10
1130	2058	The Dalles	Historical	1,651	4.875	80	0	0	80
1131	2058	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
1132	2058	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
1133	2058	Replacements	New	229,962	2.625	6,037	0	0	6,037
1134	2058	Float	Historical	0	0.000	(7,825)	0	0	(7,825)
1135	**FY 2058**	**Subtotal:**		**522,158**		**7,267**	**0**	**0**	**7,267**
1136	2059	Albeni Falls	Historical	57	4.375	2	0	0	2
1137	2059	Columbia Basin	Historical	1,338	4.375	59	0	0	59
1138	2059	Hungry Horse Dam	Historical	60	4.376	3	0	0	3
1139	2059	John Day	Historical	1,548	4.375	68	0	0	68
1140	2059	Yakima Chandler/Kenniwick	Historical	15	4.377	1	0	0	1
1141	2059	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
1142	2059	Replacements	New	229,962	2.625	6,037	0	0	6,037
1143	2059	Float	Historical	0	0.000	(7,824)	0	0	(7,824)
1144	**FY 2059**	**Subtotal:**		**462,942**		**4,381**	**0**	**0**	**4,381**
1145	2060	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
1146	2060	Replacements	New	229,962	2.625	6,037	0	0	6,037
1147	2060	Float	Historical	0	0.000	(7,824)	0	0	(7,824)
1148	**FY 2060**	**Subtotal:**		**459,924**		**4,249**	**0**	**0**	**4,249**
1149	2061	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
1150	2061	Replacements	New	229,962	2.625	6,037	0	0	6,037
1151	2061	Float	Historical	0	0.000	(7,824)	0	0	(7,824)
1152	**FY 2061**	**Subtotal:**		**459,924**		**4,249**	**0**	**0**	**4,249**
1153	2062	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
1154	2062	Replacements	New	229,962	2.625	6,037	0	0	6,037
1155	2062	Float	Historical	0	0.000	(7,825)	0	0	(7,825)
1156	**FY 2062**	**Subtotal:**		**459,924**		**4,248**	**0**	**0**	**4,248**
1157	2063	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
1158	2063	Replacements	New	229,962	2.625	6,037	0	0	6,037
1159	2063	Float	Historical	0	0.000	(7,825)	0	0	(7,825)
1160	**FY 2063**	**Subtotal:**		**459,924**		**4,248**	**0**	**0**	**4,248**
1161	2064	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
1162	2064	Replacements	New	229,962	2.625	6,037	0	0	6,037
1163	2064	Float	Historical	0	0.000	(7,825)	0	0	(7,825)
1164	**FY 2064**	**Subtotal:**		**459,924**		**4,249**	**0**	**0**	**4,249**
1165	2065	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
1166	2065	Replacements	New	229,962	2.625	6,037	0	0	6,037
1167	2065	Float	Historical	0	0.000	(7,825)	0	0	(7,825)
1168	**FY 2065**	**Subtotal:**		**459,924**		**4,248**	**0**	**0**	**4,248**
1169	2066	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
1170	2066	Replacements	New	229,962	2.625	6,037	0	0	6,037
1171	2066	Float	Historical	0	0.000	(7,825)	0	0	(7,825)
1172	**FY 2066**	**Subtotal:**		**459,924**		**4,248**	**0**	**0**	**4,248**
1173	2067	Replacements	Historical	229,962	2.625	6,037	0	0	6,037
1174	2067	Replacements	New	229,962	2.625	6,037	0	0	6,037
1175	2067	Float	Historical	0	0.000	(7,825)	0	0	(7,825)
1176	**FY 2067**	**Subtotal:**		**459,924**		**4,248**	**0**	**0**	**4,248**
1177	**Grand Total:**			**$121,469,830**		**$4,755,994**	**-**	**($7,159)**	**$4,748,835**

TABLE 12D:
Application of Amortization
October 1, 2013 - September 30, 2017 Cost Evaluation Period
($000s) (FY 2017)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
1	2014	Construction (AS)	-	2/28/2014	9/30/2014	950	950	0.117	0.117					950				
2	2014	Bureau Direct	-	11/20/2013	9/30/2014	77,000	77,000	0.140	0.140					77,000				
3	2014	Construction (AS)	-	9/30/2009	9/30/2014	14,000	14,000	2.746	2.746					14,000				
4	2014	Conservation	-	9/30/2009	9/30/2014	15,000	15,000	2.746	2.746					15,000				
5	2014	Dworshak	Corps of Engineers	9/30/1973	9/30/2023	138,443	91,942	7.190	7.190					91,942				
6	2014	The Dalles	Corps of Engineers	9/30/1974	9/30/2024	7,268	7,240	7.170	7.170					7,240				
7	2014	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1975	9/30/2025	47,328	36,690	7.160	7.160					36,690				
8	2014	Libby	Corps of Engineers	9/30/1975	9/30/2025	54,644	48,138	7.160	7.160					48,138				
9	2014	Lower Granite	Corps of Engineers	9/30/1975	9/30/2025	119,237	117,645	7.160	7.160					117,645				
10	2014	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1975	9/30/2025	8,702	7,435	7.160	7.160					7,435				
11	2014	Lower Granite	Corps of Engineers	9/30/1976	9/30/2025	510	510	7.160	7.160					510				
12	2014	Lower Granite	Corps of Engineers	9/30/1977	9/30/2025	510	510	7.160	7.160					510				
13	2014	Lower Granite	Corps of Engineers	9/30/1978	9/30/2025	510	510	7.160	7.160					510				
14	2014	Lower Granite	Corps of Engineers	9/30/1979	9/30/2025	510	510	7.160	7.160					510				
15	2014	Lower Granite	Corps of Engineers	9/30/1980	9/30/2025	510	510	7.160	7.160					510				
16	2014	Lower Granite	Corps of Engineers	9/30/1981	9/30/2025	510	510	7.160	7.160					510				
17	2014	Lower Granite	Corps of Engineers	9/30/1982	9/30/2025	510	510	7.160	7.160					510				
18	2014	Lower Granite	Corps of Engineers	9/30/1983	9/30/2025	510	510	7.160	7.160					510				
19	2014	Lower Granite	Corps of Engineers	9/30/1985	9/30/2025	328	328	7.160	7.160					328				
20	2014	Lower Granite	Corps of Engineers	9/30/1986	9/30/2025	215	215	7.160	7.160					215				
21	2014	Lower Granite	Corps of Engineers	9/30/1987	9/30/2025	8	8	7.160	7.160					8				
22	2014	Lower Granite	Corps of Engineers	9/30/1995	9/30/2025	96	96	7.160	7.160					96				
23	2014	Libby	Corps of Engineers	9/30/1976	9/30/2026	153,432	153,432	7.150	7.150					6,808				
28		FY 2014 Subtotal:	-	-	-	640,731	574,199	-						427,575				
29	2015	Conservation	-	1/31/2010	1/31/2015	15,000	15,000	2.609	2.609					15,000				
30	2015	Conservation	-	4/30/2010	4/30/2015	20,000	20,000	2.677	2.677					20,000				
31	2015	Construction (AS)	-	8/31/2010	8/31/2015	5,000	5,000	1.619	1.619					5,000				
32	2015	Conservation	-	8/31/2010	8/31/2015	15,000	15,000	1.619	1.619					15,000				
33	2015	Conservation	-	6/20/2012	9/30/2015	15,000	15,000	0.671	0.671					15,000				
34	2015	Conservation	-	5/3/2012	9/30/2015	30,000	30,000	0.676	0.676					30,000				
35	2015	Conservation	-	9/30/2010	9/30/2015	10,000	10,000	1.534	1.534					10,000				
36	2015	Libby	Corps of Engineers	9/30/1976	9/30/2026	153,432	146,624	7.150	7.150					1,151				
37		FY 2015 Subtotal:	-	-	-	263,432	256,624	-						111,151				
38	2016	Construction (AS)	-	6/22/2011	6/30/2016	7,000	7,000	1.957	1.957					7,000				
39	2016	Construction (AS)	-	8/12/2011	8/31/2016	3,500	3,500	1.423	1.423					3,500				
40	2016	Libby	Corps of Engineers	9/30/1976	9/30/2026	153,432	145,473	7.150	7.150					95,156				
41		FY 2016 Subtotal:	-	-	-	163,932	155,973	-						105,656				
42	2017	Construction (AS)	-	6/20/2012	9/30/2015	7,700	7,700	0.671	1.013	Global	9/30/2015	9/30/2017	1	7,700				
43	2017	Conservation	-	11/30/2012	11/30/2016	20,000	20,000	0.630	0.630					20,000				
44	2017	Construction (AS)	-	4/30/2013	4/30/2017	2,450	2,450	0.622	0.622					2,450				
45	2017	Construction (AS)	-	6/30/2013	6/30/2017	3,000	3,000	1.271	1.271					3,000				
46	2017	Construction (AS)	-	8/31/2013	8/31/2017	2,000	2,000	1.494	1.494					2,000				
47	2017	Ice Harbor	Corps of Engineers	9/30/1976	9/30/2026	20,472	20,472	7.150	7.150					20,472				
48	2017	Libby	Corps of Engineers	9/30/1976	9/30/2026	153,432	50,317	7.150	7.150					50,317				

TABLE 12D:
Application of Amortization
October 1, 2013 - September 30, 2017 Cost Evaluation Period
($000s) (FY 2017)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
49	2017	Ice Harbor	Corps of Engineers	9/30/1976	9/30/2026	228	228	7.150	7.150					228				
50	2017	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1976	9/30/2026	41,330	41,330	7.150	7.150					15,617				
51	2017	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1976	9/30/2026	8,037	8,037	7.150	7.150					8,037				
52		FY 2017 Subtotal:	-	-	-	258,649	155,534	-						129,821				
53	2018	Conservation	-	1/31/2013	1/31/2018	9,000	9,000	1.107	1.107					9,000				
54	2018	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1976	9/30/2026	41,330	25,713	7.150	7.150					25,713				
55	2018	Libby	Corps of Engineers	9/30/1977	9/30/2026	1,465	1,465	7.150	7.150					1,465				
56	2018	Libby	Corps of Engineers	9/30/1978	9/30/2026	1,465	1,465	7.150	7.150					1,465				
57	2018	Libby	Corps of Engineers	9/30/1979	9/30/2026	1,465	1,465	7.150	7.150					1,465				
58	2018	Libby	Corps of Engineers	9/30/1980	9/30/2026	1,465	1,465	7.150	7.150					1,465				
59	2018	Libby	Corps of Engineers	9/30/1981	9/30/2026	1,465	1,465	7.150	7.150					1,465				
60	2018	Libby	Corps of Engineers	9/30/1982	9/30/2026	1,465	1,465	7.150	7.150					1,465				
61	2018	Libby	Corps of Engineers	9/30/1983	9/30/2026	1,465	1,465	7.150	7.150					1,465				
62	2018	Ice Harbor	Corps of Engineers	9/30/1985	9/30/2026	21	21	7.150	7.150					21				
63	2018	Libby	Corps of Engineers	9/30/1985	9/30/2026	518	518	7.150	7.150					518				
64	2018	Libby	Corps of Engineers	9/30/1986	9/30/2026	283	283	7.150	7.150					283				
65	2018	Libby	Corps of Engineers	9/30/1987	9/30/2026	2	2	7.150	7.150					2				
66	2018	Libby	Corps of Engineers	9/30/1989	9/30/2026	1	1	7.150	7.150					1				
67	2018	Columbia Basin	Bureau of Reclamation	9/30/1996	9/30/2026	72	72	7.150	7.150					72				
68	2018	McNary	Corps of Engineers	9/30/1996	9/30/2026	74	74	7.150	7.150					74				
69	2018	McNary	Corps of Engineers	9/30/1996	9/30/2026	277	277	7.150	7.150					277				
70	2018	Chief Joseph	Corps of Engineers	9/30/1977	9/30/2027	30,512	30,512	7.150	7.150					22,061				
71	2018	Lost Creek	Corps of Engineers	9/30/1977	9/30/2027	14,293	14,201	7.150	7.150					14,201				
72	2018	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1977	9/30/2027	42,764	42,764	7.150	7.150					42,764				
73	2018	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1977	9/30/2027	7,964	7,964	7.150	7.150					7,964				
74		FY 2018 Subtotal:	-	-	-	157,366	141,657	-						133,206				
75	2019	Bureau Direct	-	10/31/2009	10/31/2018	24,000	24,000	3.719	3.719					24,000				
76	2019	Construction (AS)	-	11/30/2012	11/30/2018	5,250	5,250	1.109	1.109					5,250				
77	2019	Fish and Wildlife	-	12/31/2009	12/31/2018	26,000	26,000	4.069	4.069					26,000				
78	2019	Bureau Direct	-	1/16/2014	12/31/2018	43,000	43,000	1.943	1.943					43,000				
79	2019	Bureau Direct	-	1/16/2014	12/31/2018	38,000	38,000	1.943	1.943					38,000				
80	2019	Bureau Direct	-	1/16/2014	12/31/2018	26,000	26,000	1.943	1.943					26,000				
81	2019	Bureau Direct	-	1/16/2014	12/31/2018	21,000	21,000	1.943	1.943					21,000				
82	2019	Bureau Direct	-	1/16/2014	12/31/2018	14,000	14,000	1.943	1.943					14,000				
83	2019	Bureau Direct	-	1/31/2010	1/31/2019	10,000	10,000	3.714	3.714					10,000				
84	2019	Fish and Wildlife	-	8/31/2010	8/31/2019	20,000	20,000	2.646	2.646					20,000				
85	2019	Bureau Direct	-	9/30/2009	9/30/2019	25,000	25,000	3.699	3.699					25,000				
86	2019	Bonneville Dam	Corps of Engineers	9/30/1977	9/30/2027	15,670	15,670	7.150	7.150					15,670				
87	2019	Chief Joseph	Corps of Engineers	9/30/1977	9/30/2027	30,512	8,451	7.150	7.150					8,451				
88	2019	Lost Creek	Corps of Engineers	9/30/1978	9/30/2027	58	58	7.150	7.150					58				
89	2019	Lost Creek	Corps of Engineers	9/30/1979	9/30/2027	60	60	7.150	7.150					60				
90	2019	Lost Creek	Corps of Engineers	9/30/1980	9/30/2027	60	60	7.150	7.150					60				
91	2019	Lost Creek	Corps of Engineers	9/30/1981	9/30/2027	60	60	7.150	7.150					60				
92	2019	Lost Creek	Corps of Engineers	9/30/1982	9/30/2027	60	60	7.150	7.150					60				

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	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
93	2019	Lost Creek	Corps of Engineers	9/30/1983	9/30/2027	60	60	7.150	7.150					60				
94	2019	Lost Creek	Corps of Engineers	9/30/1985	9/30/2027	12	12	7.150	7.150					12				
95	2019	Lost Creek	Corps of Engineers	9/30/1986	9/30/2027	6	6	7.150	7.150					6				
96	2019	Lost Creek	Corps of Engineers	9/30/1987	9/30/2027	4	4	7.150	7.150					4				
97	2019	Little Goose	Corps of Engineers	9/30/1978	9/30/2028	49,578	49,578	7.150	7.150					33,243				
98	2019	Lower Granite	Corps of Engineers	9/30/1978	9/30/2028	40,611	40,611	7.150	7.150					40,611				
99		FY 2019 Subtotal:	-	-	-	389,001	366,940	-						350,606				
100	2020	Construction (AS)	-	10/31/2013	10/31/2019	4,200	4,200	2.039	2.039					4,200				
101	2020	Construction (AS)	-	10/31/2013	10/31/2019	5,000	5,000	2.039	2.039					5,000				
102	2020	Bureau Direct	-	10/31/2009	10/31/2019	20,000	20,000	3.842	3.842					20,000				
103	2020	Bureau Direct	-	11/30/2009	11/30/2019	7,000	7,000	3.637	3.637					7,000				
104	2020	Bureau Direct	-	12/31/2009	12/31/2019	13,000	13,000	4.194	4.194					13,000				
105	2020	Construction (AS)	-	1/31/2014	1/31/2020	1,750	1,750	2.183	2.183					1,750				
106	2020	Construction (AS)	-	1/31/2014	1/31/2020	2,000	2,000	2.183	2.183					2,000				
107	2020	Construction (AS)	-	4/30/2014	3/31/2020	1,400	1,400	1.757	1.757					1,400				
108	2020	Construction (AS)	-	4/30/2014	3/31/2020	2,000	2,000	1.757	1.757					2,000				
109	2020	Bureau Direct	-	3/31/2010	3/31/2020	30,000	30,000	4.083	4.083					30,000				
110	2020	Bureau Direct	-	4/30/2010	4/30/2020	18,000	18,000	3.973	3.973					18,000				
111	2020	Construction (AS)	-	5/31/2014	4/30/2020	700	700	1.757	1.757					700				
112	2020	Bureau Direct	-	5/31/2010	5/31/2020	15,000	15,000	3.574	3.574					15,000				
113	2020	Bureau Direct	-	6/30/2010	6/30/2020	10,000	10,000	3.243	3.243					10,000				
114	2020	Bureau Direct	-	6/30/2010	6/30/2020	30,000	30,000	3.243	3.243					30,000				
115	2020	Bureau Direct	-	7/31/2010	7/31/2020	17,000	17,000	3.118	3.118					17,000				
116	2020	Construction (AS)	-	7/31/2014	7/31/2020	1,050	1,050	1.757	1.757					1,050				
117	2020	Construction (AS)	-	8/31/2014	8/31/2020	1,090	1,090	1.757	1.757					1,090				
118	2020	Bureau Direct	-	11/20/2013	9/30/2020	51,000	51,000	2.473	2.473					51,000				
119	2020	Construction (AS)	-	9/30/2014	9/30/2020	2,220	2,220	1.757	1.757					2,220				
120	2020	Chief Joseph	Corps of Engineers	9/30/1978	9/30/2028	75,669	75,669	7.150	7.150					37,579				
121	2020	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1978	9/30/2028	42,399	42,399	7.150	7.150					42,399				
122	2020	Little Goose	Corps of Engineers	9/30/1978	9/30/2028	49,578	16,335	7.150	7.150					16,335				
123	2020	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1978	9/30/2028	7,896	7,896	7.150	7.150					7,896				
124		FY 2020 Subtotal:	-	-	-	407,952	374,709	-						336,619				
125	2021	Construction (AS)	-	10/31/2014	10/31/2020	700	700	1.757	1.757					700				
126	2021	Construction (AS)	-	10/31/2014	10/31/2020	3,000	3,000	1.757	1.757					3,000				
127	2021	Construction (AS)	-	11/30/2014	11/30/2020	700	700	2.530	2.530					700				
128	2021	Construction (AS)	-	11/30/2014	11/30/2020	4,000	4,000	1.757	1.757					4,000				
129	2021	Construction (AS)	-	12/31/2014	12/31/2020	700	700	2.530	2.530					700				
130	2021	Construction (AS)	-	1/31/2015	1/31/2021	350	350	2.530	2.530					350				
131	2021	Bureau Direct	-	1/31/2009	1/31/2021	25,000	25,000	3.999	3.999					25,000				
132	2021	Construction (AS)	-	2/28/2015	2/28/2021	700	700	2.530	2.530					700				
133	2021	Construction (AS)	-	3/31/2015	3/31/2021	700	700	2.530	2.530					700				
134	2021	Construction (AS)	-	4/30/2015	4/30/2021	700	700	2.530	2.530					700				
135	2021	Construction (AS)	-	5/31/2015	5/31/2021	700	700	2.530	2.530					700				
136	2021	Construction (AS)	-	6/30/2015	6/30/2021	700	700	2.530	2.530					700				

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	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
137	2021	Construction (AS)	-	7/31/2015	7/31/2021	700	700	2.530	2.530					700				
138	2021	Construction (AS)	-	8/31/2015	8/31/2021	700	700	2.530	2.530					700				
139	2021	Bureau Direct	-	11/20/2013	9/30/2021	50,000	50,000	2.812	2.812					50,000				
140	2021	Construction (AS)	-	9/30/2015	9/30/2021	1,400	1,400	2.530	2.530					1,400				
141	2021	Bureau Direct	-	9/30/2010	9/30/2021	22,000	22,000	2.883	2.883					22,000				
142	2021	Chief Joseph	Corps of Engineers	9/30/1978	9/30/2028	75,669	38,090	7.150	7.150					38,090				
143	2021	Little Goose	Corps of Engineers	9/30/1985	9/30/2028	47	47	7.150	7.150					47				
144	2021	Chief Joseph	Corps of Engineers	9/30/1979	9/30/2029	60,079	60,079	7.150	7.150					60,079				
145	2021	Lower Monument	Corps of Engineers	9/30/1979	9/30/2029	40,669	40,669	7.150	7.150					40,669				
146	2021	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1979	9/30/2029	84,118	84,118	7.150	7.150					84,118				
147	2021	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1979	9/30/2029	15,666	15,666	7.150	7.150					15,666				
148	2021	Chief Joseph	Corps of Engineers	9/30/1985	9/30/2029	16,372	16,372	7.150	7.150					16,372				
149	2021	Lower Monument	Corps of Engineers	9/30/1985	9/30/2029	256	256	7.150	7.150					256				
150	2021	Chief Joseph	Corps of Engineers	9/30/1986	9/30/2029	5,363	5,363	7.150	7.150					1,421				
151		FY 2021 Subtotal:	-	-	-	410,989	373,410	-						369,467				
152	2022	Construction (AS)	-	10/31/2015	10/31/2021	3,000	3,000	3.470	3.470					3,000				
153	2022	Construction (AS)	-	10/31/2015	10/31/2021	700	700	3.470	3.470					700				
154	2022	Construction (AS)	-	11/30/2015	11/30/2021	3,000	3,000	3.470	3.470					3,000				
155	2022	Construction (AS)	-	11/30/2015	11/30/2021	700	700	3.470	3.470					700				
156	2022	Conservation	-	12/31/2013	12/31/2021	6,000	6,000	3.142	3.142					6,000				
157	2022	Construction (AS)	-	12/31/2015	12/31/2021	700	700	3.470	3.470					700				
158	2022	Construction (AS)	-	1/31/2016	1/31/2022	700	700	3.470	3.470					700				
159	2022	Construction (AS)	-	2/28/2016	2/28/2022	700	700	3.470	3.470					700				
160	2022	Construction (AS)	-	3/31/2016	3/31/2022	700	700	3.470	3.470					700				
161	2022	Construction (AS)	-	4/30/2016	4/30/2022	700	700	3.470	3.470					700				
162	2022	Construction (AS)	-	5/31/2016	5/31/2022	700	700	3.470	3.470					700				
163	2022	Construction (AS)	-	6/30/2016	6/30/2022	1,050	1,050	3.470	3.470					1,050				
164	2022	Construction (AS)	-	7/31/2016	7/31/2022	700	700	3.470	3.470					700				
165	2022	Construction (AS)	-	8/31/2016	8/31/2022	700	700	3.470	3.470					700				
166	2022	Bureau Direct	-	11/20/2013	9/30/2022	19,000	19,000	3.125	3.125					19,000				
167	2022	Fish and Wildlife	-	11/20/2013	9/30/2022	31,000	31,000	3.125	3.125					31,000				
168	2022	Construction (AS)	-	9/30/2016	9/30/2022	1,750	1,750	3.470	3.470					1,750				
169	2022	Chief Joseph	Corps of Engineers	9/30/1986	9/30/2029	5,363	3,942	7.150	7.150					3,942				
170	2022	Chief Joseph	Corps of Engineers	9/30/1987	9/30/2029	3,036	3,036	7.150	7.150					3,036				
171	2022	Chief Joseph	Corps of Engineers	9/30/1988	9/30/2029	2,722	2,722	7.150	7.150					2,722				
172	2022	Chief Joseph	Corps of Engineers	9/30/1989	9/30/2029	2,227	2,227	7.150	7.150					2,227				
173	2022	Chief Joseph	Corps of Engineers	9/30/1990	9/30/2029	4,505	4,505	7.150	7.150					4,505				
174	2022	Libby	Corps of Engineers	9/30/1994	9/30/2029	286	152	7.150	7.150					152				
175	2022	Lower Granite	Corps of Engineers	9/30/1994	9/30/2029	3,543	1,551	7.150	7.150					1,551				
176	2022	Dworshak	Corps of Engineers	9/30/1995	9/30/2030	218	218	7.150	7.150					218				
177	2022	Libby	Corps of Engineers	9/30/1995	9/30/2030	15	15	7.150	7.150					15				
178	2022	Hungry Horse Dam	Bureau of Reclamation	9/30/1995	9/30/2030	536	536	7.150	7.150					536				
179	2022	Libby	Corps of Engineers	9/30/1995	9/30/2030	41	41	7.150	7.150					41				
180	2022	Hungry Horse Dam	Bureau of Reclamation	9/30/1995	9/30/2030	1,198	1,195	7.150	7.150					1,195				

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	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
181	2022	Libby	Corps of Engineers	9/30/1995	9/30/2030	94	94	7.150	7.150					94				
182	2022	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1981	9/30/2031	40,964	40,964	7.150	7.150					40,964				
183	2022	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1981	9/30/2031	455	455	7.150	7.150					455				
184	2022	Ice Harbor	Corps of Engineers	9/30/1996	9/30/2031	78	78	7.150	7.150					78				
185	2022	Columbia Basin	Bureau of Reclamation	9/30/1996	9/30/2031	109	109	7.150	7.150					109				
186	2022	Lost Creek	Corps of Engineers	9/30/1996	9/30/2031	31	31	7.150	7.150					31				
187	2022	Lower Granite	Corps of Engineers	9/30/1996	9/30/2031	206	206	7.150	7.150					206				
188	2022	Bonneville Dam	Corps of Engineers	9/30/1996	9/30/2031	22	22	7.150	7.150					22				
189	2022	Chief Joseph	Corps of Engineers	9/30/1996	9/30/2031	27	27	7.150	7.150					27				
190	2022	Columbia Basin	Bureau of Reclamation	9/30/1996	9/30/2031	251	251	7.150	7.150					251				
191	2022	Dworshak	Corps of Engineers	9/30/1996	9/30/2031	6	6	7.150	7.150					6				
192	2022	Dworshak	Corps of Engineers	9/30/1996	9/30/2031	203	203	7.150	7.150					203				
193	2022	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1982	9/30/2032	203,535	203,535	7.150	7.150					203,535				
194	2022	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1982	9/30/2032	2,264	2,264	7.150	7.150					2,264				
195	2022	Chief Joseph	Corps of Engineers	9/30/1997	9/30/2032	166	166	7.150	7.150					166				
196	2022	McNary	Corps of Engineers	9/30/1997	9/30/2032	30	30	7.150	7.150					30				
197	2022	Bonneville Dam	Corps of Engineers	9/30/1997	9/30/2032	518	518	7.150	7.150					518				
198	2022	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1983	9/30/2033	62,409	62,409	7.150	7.150					4,784				
199	2022	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/1983	9/30/2033	30,488	9,472	7.150	7.150					9,472				
200	2022	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1983	9/30/2033	694	694	7.150	7.150					694				
201	2022	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1983	9/30/2033	712	712	7.150	7.150					712				
202	2022	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1983	9/30/2033	13,003	13,003	7.150	7.150					13,003				
203		FY 2022 Subtotal:	-	-	-	451,755	427,190	-						369,565				
204	2023	Construction (AS)	-	10/31/2016	10/31/2022	2,000	2,000	4.550	4.550					2,000				
205	2023	Construction (AS)	-	10/31/2016	10/31/2022	350	350	4.550	4.550					350				
206	2023	Construction (AS)	-	11/30/2016	11/30/2022	3,000	3,000	4.550	4.550					3,000				
207	2023	Construction (AS)	-	11/30/2016	11/30/2022	700	700	4.550	4.550					700				
208	2023	Construction (AS)	-	12/31/2016	12/31/2022	350	350	4.550	4.550					350				
209	2023	Construction (AS)	-	1/31/2017	1/31/2023	350	350	4.550	4.550					350				
210	2023	Conservation	-	1/31/2011	1/31/2023	40,000	40,000	4.046	4.046					40,000				
211	2023	Construction (AS)	-	2/28/2017	2/28/2023	700	700	4.550	4.550					700				
212	2023	Construction (AS)	-	3/31/2017	3/31/2023	700	700	4.550	4.550					700				
213	2023	Construction (AS)	-	4/30/2017	4/30/2023	350	350	4.550	4.550					350				
214	2023	Bureau Direct	-	4/30/2009	4/30/2023	25,000	25,000	4.391	4.391					25,000				
215	2023	Conservation	-	4/30/2011	4/30/2023	35,000	35,000	3.932	3.932					35,000				
216	2023	Construction (AS)	-	5/31/2017	5/31/2023	700	700	4.550	4.550					700				
217	2023	Construction (AS)	-	6/30/2017	6/30/2023	700	700	4.550	4.550					700				
218	2023	Construction (AS)	-	7/31/2017	7/31/2023	700	700	4.550	4.550					700				
219	2023	Construction (AS)	-	8/30/2017	8/30/2023	700	700	4.550	4.550					700				
220	2023	Conservation	-	8/12/2011	8/31/2023	40,000	40,000	3.206	3.206					40,000				
221	2023	Conservation	-	11/20/2013	9/30/2023	27,000	27,000	3.375	3.375					27,000				
222	2023	Fish and Wildlife	-	11/20/2013	9/30/2023	23,000	23,000	3.375	3.375					23,000				
223	2023	Construction (AS)	-	9/30/2017	9/30/2023	1,400	1,400	4.550	4.550					1,400				
224	2023	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1983	9/30/2033	62,409	57,625	7.150	7.150					57,625				

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225	2023	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1984	9/30/2033	16,965	16,965	7.150	7.150					16,965				
226	2023	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1984	9/30/2033	13,192	13,192	7.150	7.150					13,192				
227	2023	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1984	9/30/2033	3,160	3,160	7.150	7.150					3,160				
228	2023	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1985	9/30/2033	9,138	9,138	7.150	7.150					9,138				
229	2023	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1985	9/30/2033	2,060	2,060	7.150	7.150					2,060				
230	2023	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1985	9/30/2033	41,772	41,772	7.150	7.150					41,772				
231	2023	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1985	9/30/2033	107	107	7.150	7.150					107				
232	2023	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1986	9/30/2033	30,578	30,578	7.150	7.150					21,030				
233	2023	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1986	9/30/2033	1,851	1,851	7.150	7.150					1,851				
234	2023	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1986	9/30/2033	15,538	15,538	7.150	7.150					15,538				
235		FY 2023 Subtotal:	-	-	-	399,470	394,686	-						385,138				
236	2024	Conservation	-	12/31/2013	12/31/2023	55,000	55,000	1.757	1.757					55,000				
237	2024	Conservation	-	5/31/2014	4/30/2024	15,000	15,000	1.757	1.757					15,000				
238	2024	Fish and Wildlife	-	6/30/2009	6/30/2024	20,000	20,000	4.556	4.556					20,000				
239	2024	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1986	9/30/2033	30,578	9,548	7.150	7.150					9,548				
240	2024	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1987	9/30/2033	2,801	2,801	7.150	7.150					2,801				
241	2024	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1987	9/30/2033	1,730	1,730	7.150	7.150					1,730				
242	2024	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1987	9/30/2033	14,439	14,439	7.150	7.150					14,439				
243	2024	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1988	9/30/2033	1,271	1,271	7.150	7.150					1,271				
244	2024	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1988	9/30/2033	2,294	2,294	7.150	7.150					2,294				
245	2024	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1988	9/30/2033	4,351	4,351	7.150	7.150					4,351				
246	2024	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1989	9/30/2033	1,232	1,232	7.150	7.150					1,232				
247	2024	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1989	9/30/2033	10,902	10,902	7.150	7.150					10,902				
248	2024	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1990	9/30/2033	1,588	1,588	7.150	7.150					1,588				
249	2024	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1990	9/30/2033	6,383	6,383	7.150	7.150					6,383				
250	2024	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/1985	9/30/2035	47,921	47,921	7.150	7.150					47,921				
251	2024	John Day	Corps of Engineers	9/30/1995	9/30/2035	22	22	7.150	7.150					22				
252	2024	John Day	Corps of Engineers	9/30/1995	9/30/2035	52	52	7.150	7.150					52				
253	2024	John Day	Corps of Engineers	9/30/1995	9/30/2035	121	121	7.150	7.150					121				
254	2024	Lower Monument	Corps of Engineers	9/30/1996	9/30/2036	264	264	7.150	7.150					264				
255	2024	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/1987	9/30/2037	72,536	72,536	7.150	7.150					72,536				
256	2024	Libby	Corps of Engineers	9/30/1988	9/30/2038	18,043	14,781	7.150	7.150					14,781				
257	2024	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/1988	9/30/2038	805	805	7.150	7.150					805				
258	2024	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/1990	9/30/2040	1,557	1,557	7.150	7.150					1,557				
259	2024	Little Goose	Corps of Engineers	9/30/1995	9/30/2040	17	17	7.150	7.150					17				
260	2024	Little Goose	Corps of Engineers	9/30/1995	9/30/2040	450	450	7.150	7.150					450				
261	2024	Little Goose	Corps of Engineers	9/30/1995	9/30/2040	733	733	7.150	7.150					733				
262	2024	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/1991	9/30/2041	4,411	4,411	7.150	7.150					4,411				
263	2024	Ice Harbor	Corps of Engineers	9/30/1996	9/30/2041	371	371	7.150	7.150					371				
264	2024	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/1993	9/30/2043	71,632	71,632	7.150	7.150					71,632				
265	2024	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1994	9/30/2044	5,700	5,700	7.150	7.150					5,700				
266	2024	Chief Joseph	Corps of Engineers	9/30/1994	9/30/2044	4,280	4,017	7.150	7.150					4,017				
267	2024	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/1994	9/30/2044	4,722	4,722	7.150	7.150					4,722				
268	2024	Columbia Basin 3rd Powerhouse	Bureau of Reclamation	9/30/1994	9/30/2044	12,631	12,631	7.150	7.150					12,631				

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	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
269	2024	Columbia River Fish Mitigation	Corps of Engineers	9/30/1995	9/30/2045	43,343	39,282	7.150	7.150					39,282				
270	2024	Lookout Dam	Corps of Engineers	9/30/1995	9/30/2045	80	39	7.150	7.150					39				
271	2024	Lost Creek	Corps of Engineers	9/30/1995	9/30/2045	94	94	7.150	7.150					94				
272	2024	Lower Monument	Corps of Engineers	9/30/1995	9/30/2045	41	41	7.150	7.150					41				
273	2024	McNary	Corps of Engineers	9/30/1995	9/30/2045	16	16	7.150	7.150					16				
274	2024	Dworshak	Corps of Engineers	9/30/1995	9/30/2045	1,162	1,162	7.150	7.150					988				
275	2024	John Day	Corps of Engineers	9/30/1995	9/30/2045	37	37	7.150	7.150					37				
276	2024	Lookout Dam	Corps of Engineers	9/30/1995	9/30/2045	33	33	7.150	7.150					33				
277	2024	Lower Monument	Corps of Engineers	9/30/1995	9/30/2045	99	99	7.150	7.150					99				
278	2024	Lower Monument	Corps of Engineers	9/30/1995	9/30/2045	624	624	7.150	7.150					624				
279	2024	Hungry Horse Dam	Bureau of Reclamation	9/30/1995	9/30/2045	6,190	6,190	7.150	7.150					6,190				
280	2024	Lower Monument	Corps of Engineers	9/30/1995	9/30/2045	1,122	1,122	7.150	7.150					1,122				
281	2024	John Day	Corps of Engineers	9/30/1995	9/30/2045	608	608	7.150	7.150					608				
282	2024	John Day	Corps of Engineers	9/30/1995	9/30/2045	7,653	7,653	7.150	7.150					7,653				
283		FY 2024 Subtotal:	-	-	-	474,939	446,282	-						446,108				
284	2025	Conservation	-	6/30/2014	10/31/2024	5,000	5,000	1.757	1.757					5,000				
285	2025	Conservation	-	5/31/2014	4/30/2025	3,000	3,000	1.757	1.757					3,000				
286	2025	Conservation	-	4/30/2014	6/30/2025	30,000	30,000	1.757	1.757					30,000				
287	2025	Conservation	-	7/31/2014	7/31/2025	12,000	12,000	1.757	1.757					12,000				
288	2025	Bureau Direct	-	6/30/2009	6/30/2039	25,000	25,000	5.192	5.192					25,000	261			
289	2025	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1995	9/30/2045	3,791	3,791	7.150	7.150					3,791				
290	2025	Detroit Lake/Big Cliff	Corps of Engineers	9/30/1995	9/30/2045	38	38	7.150	7.150					38				
291	2025	Albeni Falls	Corps of Engineers	9/30/1995	9/30/2045	443	443	7.150	7.150					443				
292	2025	Chief Joseph	Corps of Engineers	9/30/1995	9/30/2045	147	147	7.150	7.150					147				
293	2025	Dworshak	Corps of Engineers	9/30/1995	9/30/2045	1,162	174	7.150	7.150					174				
294	2025	Albeni Falls	Corps of Engineers	9/30/1995	9/30/2045	531	531	7.150	7.150					531				
295	2025	Chief Joseph	Corps of Engineers	9/30/1995	9/30/2045	562	562	7.150	7.150					562				
296	2025	Albeni Falls	Corps of Engineers	9/30/1995	9/30/2045	1,105	1,105	7.150	7.150					1,105				
297	2025	Bonneville Dam	Corps of Engineers	9/30/1995	9/30/2045	243	243	7.150	7.150					243				
298	2025	Chief Joseph	Corps of Engineers	9/30/1995	9/30/2045	712	712	7.150	7.150					712				
299	2025	Columbia Basin	Bureau of Reclamation	9/30/1995	9/30/2045	287	287	7.150	7.150					287				
300	2025	Bonneville Dam	Corps of Engineers	9/30/1995	9/30/2045	410	410	7.150	7.150					410				
301	2025	Chief Joseph	Corps of Engineers	9/30/1995	9/30/2045	784	784	7.150	7.150					784				
302	2025	Columbia Basin	Bureau of Reclamation	9/30/1995	9/30/2045	2,511	2,453	7.150	7.150					2,453				
303	2025	Bonneville Dam	Corps of Engineers	9/30/1995	9/30/2045	440	440	7.150	7.150					440				
304	2025	Boise	Bureau of Reclamation	9/30/1996	9/30/2046	442	442	7.150	7.150					442				
305	2025	Bonneville 2nd Powerhouse	Corps of Engineers	9/30/1996	9/30/2046	376	376	7.150	7.150					376				
306	2025	Bonneville Dam	Corps of Engineers	9/30/1996	9/30/2046	18	18	7.150	7.150					18				
307	2025	Chief Joseph	Corps of Engineers	9/30/1996	9/30/2046	3	3	7.150	7.150					3				
308	2025	Columbia River Fish Mitigation	Corps of Engineers	9/30/1996	9/30/2046	2,431	2,431	7.150	7.150					2,431				
309	2025	Dworshak	Corps of Engineers	9/30/1996	9/30/2046	3	3	7.150	7.150					3				
310	2025	Green Peter/Foster	Corps of Engineers	9/30/1996	9/30/2046	26	26	7.150	7.150					26				
311	2025	Hills Creek	Corps of Engineers	9/30/1996	9/30/2046	28	28	7.150	7.150					28				
312	2025	Hungry Horse Dam	Bureau of Reclamation	9/30/1996	9/30/2046	15	15	7.150	7.150					15				
313	2025	Little Goose	Corps of Engineers	9/30/1996	9/30/2046	10	10	7.150	7.150					10				

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	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
314	2025	Lost Creek	Corps of Engineers	9/30/1996	9/30/2046	24	24	7.150	7.150					24				
315	2025	Lower Granite	Corps of Engineers	9/30/1996	9/30/2046	9	9	7.150	7.150					9				
316	2025	Lower Monument	Corps of Engineers	9/30/1996	9/30/2046	10	10	7.150	7.150					10				
317	2025	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/1996	9/30/2046	12,085	12,085	7.150	7.150					12,085				
318	2025	Bonneville Dam	Corps of Engineers	9/30/1996	9/30/2046	18	18	7.150	7.150					18				
319	2025	Chief Joseph	Corps of Engineers	9/30/1996	9/30/2046	4	4	7.150	7.150					4				
320	2025	Dworshak	Corps of Engineers	9/30/1996	9/30/2046	4	4	7.150	7.150					4				
321	2025	Hungry Horse Dam	Bureau of Reclamation	9/30/1996	9/30/2046	2	2	7.150	7.150					2				
322	2025	Little Goose	Corps of Engineers	9/30/1996	9/30/2046	10	10	7.150	7.150					10				
323	2025	Boise	Bureau of Reclamation	9/30/1996	9/30/2046	656	656	7.150	7.150					656				
324	2025	Little Goose	Corps of Engineers	9/30/1996	9/30/2046	211	211	7.150	7.150					211				
325	2025	The Dalles	Corps of Engineers	9/30/1996	9/30/2046	1,991	1,991	7.150	7.150					1,991				
326	2025	Bonneville Dam	Corps of Engineers	9/30/1996	9/30/2046	80	80	7.150	7.150					80				
327	2025	Chief Joseph	Corps of Engineers	9/30/1996	9/30/2046	355	355	7.150	7.150					355				
328	2025	Columbia Basin	Bureau of Reclamation	9/30/1996	9/30/2046	426	426	7.150	7.150					426				
329	2025	Little Goose	Corps of Engineers	9/30/1996	9/30/2046	241	241	7.150	7.150					241				
330	2025	Lower Granite	Corps of Engineers	9/30/1996	9/30/2046	625	625	7.150	7.150					625				
331	2025	McNary	Corps of Engineers	9/30/1996	9/30/2046	619	619	7.150	7.150					619				
332	2025	Bonneville Dam	Corps of Engineers	9/30/1996	9/30/2046	109	109	7.150	7.150					109				
333	2025	Chief Joseph	Corps of Engineers	9/30/1996	9/30/2046	729	729	7.150	7.150					729				
334	2025	Columbia Basin	Bureau of Reclamation	9/30/1996	9/30/2046	368	368	7.150	7.150					368				
335	2025	Dworshak	Corps of Engineers	9/30/1996	9/30/2046	46	46	7.150	7.150					46				
336	2025	Little Goose	Corps of Engineers	9/30/1996	9/30/2046	520	520	7.150	7.150					520				
337	2025	Bonneville Dam	Corps of Engineers	9/30/1996	9/30/2046	142	142	7.150	7.150					142				
338	2025	Little Goose	Corps of Engineers	9/30/1996	9/30/2046	3,909	3,909	7.150	7.150					3,909				
339	2025	Bonneville Dam	Corps of Engineers	9/30/1996	9/30/2046	223	223	7.150	7.150					223				
340	2025	Bonneville Dam	Corps of Engineers	9/30/1996	9/30/2046	751	751	7.150	7.150					751				
341	2025	Bonneville Dam	Corps of Engineers	9/30/1996	9/30/2046	1,322	1,322	7.150	7.150					1,322				
342	2025	Albeni Falls	Corps of Engineers	9/30/1997	9/30/2047	431	431	7.150	7.150					431				
343	2025	Columbia Basin	Bureau of Reclamation	9/30/1997	9/30/2047	3,393	3,393	7.150	7.150					3,393				
344	2025	Cougar	Corps of Engineers	9/30/1997	9/30/2047	26	26	7.150	7.150					26				
345	2025	Dworshak	Corps of Engineers	9/30/1997	9/30/2047	7,588	7,588	7.150	7.150					7,588				
346	2025	Little Goose	Corps of Engineers	9/30/1997	9/30/2047	1	1	7.150	7.150					1				
347	2025	Lower Granite	Corps of Engineers	9/30/1997	9/30/2047	677	677	7.150	7.150					677				
348	2025	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/1997	9/30/2047	2,173	2,173	7.150	7.150					2,173				
349	2025	Boise	Bureau of Reclamation	9/30/1997	9/30/2047	2,266	2,266	7.150	7.150					2,266				
350	2025	Chief Joseph	Corps of Engineers	9/30/1997	9/30/2047	657	657	7.150	7.150					657				
351	2025	Hungry Horse Dam	Bureau of Reclamation	9/30/1997	9/30/2047	111	111	7.150	7.150					111				
352	2025	Ice Harbor	Corps of Engineers	9/30/1997	9/30/2047	67	67	7.150	7.150					67				
353	2025	John Day	Corps of Engineers	9/30/1997	9/30/2047	179	179	7.150	7.150					179				
354	2025	Libby	Corps of Engineers	9/30/1997	9/30/2047	660	660	7.150	7.150					660				
355	2025	Minidoka/Palisades	Bureau of Reclamation	9/30/1997	9/30/2047	50,911	50,911	7.150	7.150					50,911				
356	2025	Bonneville Dam	Corps of Engineers	9/30/1997	9/30/2047	161	161	7.150	7.150					161				
357	2025	Bonneville Dam	Corps of Engineers	9/30/1999	9/30/2049	19,368	19,368	5.375	5.375					19,368				

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	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
358	2025	Columbia River Fish Mitigation	Corps of Engineers	9/30/1999	9/30/2049	14,115	14,115	5.375	5.375					14,115				
359	2025	Dworshak	Corps of Engineers	9/30/1999	9/30/2049	630	630	5.375	5.375					630				
360	2025	Ice Harbor	Corps of Engineers	9/30/1999	9/30/2049	5,516	5,516	5.375	5.375					5,516				
361	2025	John Day	Corps of Engineers	9/30/1999	9/30/2049	3,510	3,510	5.375	5.375					3,510				
362	2025	Lower Granite	Corps of Engineers	9/30/1999	9/30/2049	856	856	5.375	5.375					856				
363	2025	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/1999	9/30/2049	7	7	5.375	5.375					7				
364	2025	Bonneville Dam	Corps of Engineers	9/30/2000	9/30/2050	24,446	24,446	6.125	6.125					24,446				
365	2025	Columbia River Fish Mitigation	Corps of Engineers	9/30/2000	9/30/2050	47,006	47,006	6.125	6.125					47,006				
366	2025	Hills Creek	Corps of Engineers	9/30/2000	9/30/2050	2,630	2,630	6.125	6.125					2,630				
367	2025	Ice Harbor	Corps of Engineers	9/30/2000	9/30/2050	548	548	6.125	6.125					548				
368	2025	John Day	Corps of Engineers	9/30/2000	9/30/2050	2,761	2,761	6.125	6.125					2,761				
369	2025	Lookout Dam	Corps of Engineers	9/30/2000	9/30/2050	5,098	5,098	6.125	6.125					5,098				
370	2025	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2000	9/30/2050	1,529	1,529	6.125	6.125					1,529				
371	2025	The Dalles	Corps of Engineers	9/30/2000	9/30/2050	2,588	2,588	6.125	6.125					2,588				
372	2025	Bonneville Dam	Corps of Engineers	9/30/2001	9/30/2051	2,530	2,530	5.875	5.875					2,530				
373	2025	Chief Joseph	Corps of Engineers	9/30/2001	9/30/2051	345	345	5.875	5.875					345				
374	2025	Columbia Basin	Bureau of Reclamation	9/30/2001	9/30/2051	69,226	69,226	5.875	5.875					69,226				
375	2025	Columbia River Fish Mitigation	Corps of Engineers	9/30/2001	9/30/2051	6,168	6,168	5.875	5.875					6,168				
376	2025	Detroit Lake/Big Cliff	Corps of Engineers	9/30/2001	9/30/2051	282	282	5.875	5.875					282				
377	2025	Green Peter/Foster	Corps of Engineers	9/30/2001	9/30/2051	200	200	5.875	5.875					200				
378	2025	Hills Creek	Corps of Engineers	9/30/2001	9/30/2051	8	8	5.875	5.875					8				
379	2025	Hungry Horse Dam	Bureau of Reclamation	9/30/2001	9/30/2051	552	552	5.875	5.875					552				
380	2025	Ice Harbor	Corps of Engineers	9/30/2001	9/30/2051	764	764	5.875	5.875					764				
381	2025	John Day	Corps of Engineers	9/30/2001	9/30/2051	619	619	5.875	5.875					619				
382	2025	Libby	Corps of Engineers	9/30/2001	9/30/2051	5,562	5,562	5.875	5.875					5,562				
383	2025	Little Goose	Corps of Engineers	9/30/2001	9/30/2051	4,608	4,608	5.875	5.875					4,608				
384	2025	Lost Creek	Corps of Engineers	9/30/2001	9/30/2051	147	147	5.875	5.875					147				
385	2025	Lower Granite	Corps of Engineers	9/30/2001	9/30/2051	2,025	2,025	5.875	5.875					2,025				
386	2025	Lower Monument	Corps of Engineers	9/30/2001	9/30/2051	3,301	3,301	5.875	5.875					3,301				
387	2025	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2001	9/30/2051	325	325	5.875	5.875					325				
388	2025	McNary	Corps of Engineers	9/30/2001	9/30/2051	1,046	1,046	5.875	5.875					1,046				
389	2025	Minidoka/Palisades	Bureau of Reclamation	9/30/2001	9/30/2051	42	42	5.875	5.875					42				
390	2025	RRP - Green Springs	Bureau of Reclamation	9/30/2001	9/30/2051	11,145	11,145	5.875	5.875					11,145				
391	2025	Yakima Roza	Bureau of Reclamation	9/30/2001	9/30/2051	15	14	5.875	5.875					14				
392	2025	Bonneville Dam	Corps of Engineers	9/30/2002	9/30/2052	448	448	5.500	5.500					448				
393	2025	Chief Joseph	Corps of Engineers	9/30/2002	9/30/2052	2	2	5.500	5.500					2				
394	2025	Columbia River Fish Mitigation	Corps of Engineers	9/30/2002	9/30/2052	8,797	8,797	5.500	5.500					8,797				
395	2025	Detroit Lake/Big Cliff	Corps of Engineers	9/30/2002	9/30/2052	18	18	5.500	5.500					18				
396	2025	Dworshak	Corps of Engineers	9/30/2002	9/30/2052	199	199	5.500	5.500					199				
397	2025	Hills Creek	Corps of Engineers	9/30/2002	9/30/2052	2	2	5.500	5.500					2				
398	2025	Ice Harbor	Corps of Engineers	9/30/2002	9/30/2052	1,014	1,014	5.500	5.500					1,014				
399	2025	Little Goose	Corps of Engineers	9/30/2002	9/30/2052	27	27	5.500	5.500					27				
400	2025	Lower Granite	Corps of Engineers	9/30/2002	9/30/2052	1,275	1,275	5.500	5.500					1,275				
401	2025	Lower Monument	Corps of Engineers	9/30/2002	9/30/2052	29	29	5.500	5.500					29				

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	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
402	2025	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2002	9/30/2052	890	890	5.500	5.500					890				
403	2025	The Dalles	Corps of Engineers	9/30/2002	9/30/2052	1,226	1,226	5.500	5.500					1,226				
404	2025	Bonneville Dam	Corps of Engineers	9/30/2003	9/30/2053	4,581	4,581	5.125	5.125					4,581				
405	2025	Columbia River Fish Mitigation	Corps of Engineers	9/30/2003	9/30/2053	68,440	68,440	5.125	5.125					68,440				
406	2025	Detroit Lake/Big Cliff	Corps of Engineers	9/30/2003	9/30/2053	223	223	5.125	5.125					223				
407	2025	Dworshak	Corps of Engineers	9/30/2003	9/30/2053	761	761	5.125	5.125					761				
408	2025	Ice Harbor	Corps of Engineers	9/30/2003	9/30/2053	50	50	5.125	5.125					50				
409	2025	Little Goose	Corps of Engineers	9/30/2003	9/30/2053	146	146	5.125	5.125					146				
410	2025	Lookout Dam	Corps of Engineers	9/30/2003	9/30/2053	135	135	5.125	5.125					135				
411	2025	Lower Granite	Corps of Engineers	9/30/2003	9/30/2053	42	42	5.125	5.125					42				
412	2025	Lower Monument	Corps of Engineers	9/30/2003	9/30/2053	22	22	5.125	5.125					22				
413	2025	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2003	9/30/2053	98	98	5.125	5.125					98				
414	2025	McNary	Corps of Engineers	9/30/2003	9/30/2053	97	97	5.125	5.125					97				
415	2025	Chief Joseph	Corps of Engineers	9/30/2003	9/30/2053	992	992	5.125	5.125					992				
416	2025	Bonneville Dam	Corps of Engineers	9/30/2004	9/30/2054	26,741	26,741	5.375	5.375					26,741				
417	2025	Columbia River Fish Mitigation	Corps of Engineers	9/30/2004	9/30/2054	60,581	60,581	5.375	5.375					60,581				
418	2025	Cougar	Corps of Engineers	9/30/2004	9/30/2054	3,622	3,622	5.375	5.375					3,622				
419	2025	Ice Harbor	Corps of Engineers	9/30/2004	9/30/2054	3,321	3,321	5.375	5.375					3,321				
420	2025	John Day	Corps of Engineers	9/30/2004	9/30/2054	2,830	2,830	5.375	5.375					2,830				
421	2025	Little Goose	Corps of Engineers	9/30/2004	9/30/2054	68	67	5.375	5.375					67				
422	2025	Lower Monument	Corps of Engineers	9/30/2004	9/30/2054	3,423	3,423	5.375	5.375					3,423				
423	2025	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2004	9/30/2054	230	230	5.375	5.375					230				
424	2025	McNary	Corps of Engineers	9/30/2004	9/30/2054	6,138	6,138	5.375	5.375					6,138				
425	2025	The Dalles	Corps of Engineers	9/30/2004	9/30/2054	182	182	5.375	5.375					182				
426	2025	The Dalles	Corps of Engineers	9/30/2005	9/30/2055	36,019	36,019	5.125	5.125					12,764				
427	2025	Yakima Chandler/Kenniwick	Bureau of Reclamation	9/30/2005	9/30/2055	833	833	5.125	5.125					833				
428		FY 2025 Subtotal:	-	-	-	659,324	658,277	-						635,023	261			
429	2026	Conservation	-	10/31/2013	10/31/2025	34,000	34,000	3.568	3.568					34,000				
430	2026	Conservation	-	1/31/2014	1/31/2026	5,000	5,000	3.621	3.621					5,000				
431	2026	Fish and Wildlife	-	1/31/2011	1/31/2026	50,000	50,000	4.440	4.440					50,000				
432	2026	Fish and Wildlife	-	2/28/2011	2/28/2026	15,000	15,000	4.398	4.398					15,000				
433	2026	Fish and Wildlife	-	6/22/2011	6/30/2026	15,000	15,000	4.205	4.205					15,000				
434	2026	Bureau Direct	-	10/30/2016	10/30/2036	16,000	16,000	5.000	5.000					16,000				
435	2026	Bureau Direct	-	11/30/2016	11/30/2036	22,000	22,000	5.000	5.000					22,000				
436	2026	Bureau Direct	-	12/31/2016	12/31/2036	20,000	20,000	5.000	5.000					20,000				
437	2026	Bureau Direct	-	1/31/2017	1/31/2037	21,000	21,000	5.000	5.000					21,000				
438	2026	Bureau Direct	-	2/28/2017	2/28/2037	18,000	18,000	5.000	5.000					18,000				
439	2026	Bureau Direct	-	3/31/2017	3/31/2037	18,000	18,000	5.000	5.000					18,000				
440	2026	Bureau Direct	-	4/30/2017	4/30/2037	25,000	25,000	5.000	5.000					25,000				
441	2026	Bureau Direct	-	5/31/2017	5/31/2037	22,000	22,000	5.000	5.000					22,000				
442	2026	Bureau Direct	-	6/30/2017	6/30/2037	27,000	27,000	5.000	5.000					27,000				
443	2026	Bureau Direct	-	7/31/2017	7/31/2037	26,000	26,000	5.000	5.000					26,000				
444	2026	Bureau Direct	-	8/31/2017	8/31/2037	26,000	26,000	5.000	5.000					26,000				
445	2026	Bureau Direct	-	9/30/2017	9/30/2037	30,000	30,000	5.000	5.000					30,000				

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	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
446	2026	Bureau Direct	-	1/31/2011	1/31/2039	35,000	35,000	5.040	5.040					34,871		129		
447	2026	Bureau Direct	-	2/28/2011	2/29/2040	50,000	50,000	4.995	4.995					48,986		532		
448	2026	Albeni Falls	Corps of Engineers	9/30/2005	9/30/2055	481	481	5.125	5.125					481				
449	2026	Boise	Bureau of Reclamation	9/30/2005	9/30/2055	903	903	5.125	5.125					903				
450	2026	Bonneville Dam	Corps of Engineers	9/30/2005	9/30/2055	19,725	19,725	5.125	5.125					19,725				
451	2026	Columbia Basin	Bureau of Reclamation	9/30/2005	9/30/2055	10,963	10,963	5.125	5.125					10,963				
452	2026	Columbia River Fish Mitigation	Corps of Engineers	9/30/2005	9/30/2055	52,039	52,039	5.125	5.125					52,039				
453	2026	Cougar	Corps of Engineers	9/30/2005	9/30/2055	8,130	8,130	5.125	5.125					8,130				
454	2026	Detroit Lake/Big Cliff	Corps of Engineers	9/30/2005	9/30/2055	1,031	1,031	5.125	5.125					1,031				
455	2026	Dworshak	Corps of Engineers	9/30/2005	9/30/2055	713	713	5.125	5.125					713				
456	2026	Hills Creek	Corps of Engineers	9/30/2005	9/30/2055	46	46	5.125	5.125					46				
457	2026	Hungry Horse Dam	Bureau of Reclamation	9/30/2005	9/30/2055	2,951	2,951	5.125	5.125					2,951				
458	2026	John Day	Corps of Engineers	9/30/2005	9/30/2055	2,828	2,827	5.125	5.125					2,827				
459	2026	Lookout Dam	Corps of Engineers	9/30/2005	9/30/2055	7,355	7,355	5.125	5.125					7,355				
460	2026	Lower Granite	Corps of Engineers	9/30/2005	9/30/2055	393	393	5.125	5.125					393				
461	2026	Lower Monument	Corps of Engineers	9/30/2005	9/30/2055	527	527	5.125	5.125					527				
462	2026	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2005	9/30/2055	4	4	5.125	5.125					4				
463	2026	McNary	Corps of Engineers	9/30/2005	9/30/2055	550	550	5.125	5.125					550				
464	2026	The Dalles	Corps of Engineers	9/30/2005	9/30/2055	36,019	23,255	5.125	5.125					23,255				
465	2026	Boise	Bureau of Reclamation	9/30/2007	9/30/2057	76	76	5.000	5.000					76				
466	2026	Bonneville Dam	Corps of Engineers	9/30/2007	9/30/2057	1,124	1,124	5.000	5.000					1,124				
467	2026	Columbia Basin	Bureau of Reclamation	9/30/2007	9/30/2057	929	929	5.000	5.000					929				
468	2026	Columbia River Fish Mitigation	Corps of Engineers	9/30/2007	9/30/2057	53,525	53,525	5.000	5.000					53,525				
469	2026	Cougar	Corps of Engineers	9/30/2007	9/30/2057	120	120	5.000	5.000					120				
470	2026	Hungry Horse Dam	Bureau of Reclamation	9/30/2007	9/30/2057	294	294	5.000	5.000					294				
471	2026	John Day	Corps of Engineers	9/30/2007	9/30/2057	233	233	5.000	5.000					233				
472	2026	Lookout Dam	Corps of Engineers	9/30/2007	9/30/2057	572	572	5.000	5.000					572				
473	2026	The Dalles	Corps of Engineers	9/30/2007	9/30/2057	140	140	5.000	5.000					140				
474		FY 2026 Subtotal:	-	-	-	676,668	663,904	-						662,761		661		
475	2027	Conservation	-	10/31/2014	10/31/2026	4,000	4,000	1.757	1.757					4,000				
476	2027	Conservation	-	11/30/2014	11/30/2026	5,000	5,000	1.757	1.757					5,000				
477	2027	Conservation	-	12/31/2014	12/31/2026	9,000	9,000	1.757	1.757					9,000				
478	2027	Fish and Wildlife	-	10/31/2013	12/31/2026	28,000	28,000	3.717	3.717					28,000				
479	2027	Conservation	-	1/31/2015	1/31/2027	5,000	5,000	1.757	1.757					5,000				
480	2027	Conservation	-	2/28/2015	2/28/2027	6,000	6,000	1.757	1.757					6,000				
481	2027	Conservation	-	3/31/2015	3/31/2027	14,000	14,000	1.757	1.757					14,000				
482	2027	Conservation	-	4/30/2015	4/30/2027	1,000	1,000	3.660	3.660					1,000				
483	2027	Fish and Wildlife	-	5/31/2014	4/30/2027	11,000	11,000	1.757	1.757					11,000				
484	2027	Conservation	-	5/31/2015	5/31/2027	8,000	8,000	1.757	1.757					8,000				
485	2027	Fish and Wildlife	-	11/30/2013	5/31/2027	5,000	5,000	1.757	1.757					5,000				
486	2027	Fish and Wildlife	-	10/31/2013	5/31/2027	11,000	11,000	3.762	3.762					11,000				
487	2027	Conservation	-	6/30/2015	6/30/2027	10,000	10,000	1.757	1.757					10,000				
488	2027	Conservation	-	7/31/2015	7/31/2027	4,000	4,000	3.660	3.660					4,000				
489	2027	Conservation	-	8/31/2015	8/31/2027	8,000	8,000	3.660	3.660					8,000				

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	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
490	2027	Conservation	-	9/30/2015	9/30/2027	18,000	18,000	3.660	3.660					18,000				
491	2027	Conservation	-	10/31/2016	10/31/2028	4,000	4,000	4.800	4.800					4,000				
492	2027	Conservation	-	11/30/2016	11/30/2028	5,000	5,000	4.800	4.800					5,000				
493	2027	Conservation	-	12/31/2016	12/31/2028	10,000	10,000	4.800	4.800					10,000				
494	2027	Conservation	-	1/31/2017	1/31/2029	5,000	5,000	4.800	4.800					5,000				
495	2027	Conservation	-	2/28/2017	2/28/2029	6,000	6,000	4.800	4.800					6,000				
496	2027	Conservation	-	3/31/2017	3/31/2029	14,000	14,000	4.800	4.800					14,000				
497	2027	Conservation	-	4/30/2017	4/30/2029	1,000	1,000	4.800	4.800					1,000				
498	2027	Conservation	-	5/31/2017	5/31/2029	9,000	9,000	4.800	4.800					9,000				
499	2027	Conservation	-	7/31/2017	7/31/2029	4,000	4,000	4.800	4.800					4,000				
500	2027	Conservation	-	6/30/2017	7/31/2029	10,000	10,000	4.800	4.800					10,000				
501	2027	Conservation	-	8/31/2017	8/31/2029	9,000	9,000	4.800	4.800					9,000				
502	2027	Conservation	-	9/30/2017	9/30/2029	19,000	19,000	4.800	4.800					19,000				
503	2027	Fish and Wildlife	-	10/31/2016	10/31/2031	3,000	3,000	4.870	4.870					3,000				
504	2027	Fish and Wildlife	-	11/30/2016	11/30/2031	2,000	2,000	4.870	4.870					2,000				
505	2027	Fish and Wildlife	-	12/31/2016	12/31/2031	3,000	3,000	4.870	4.870					3,000				
506	2027	Fish and Wildlife	-	1/31/2017	1/31/2032	2,000	2,000	4.870	4.870					2,000				
507	2027	Fish and Wildlife	-	2/28/2017	2/28/2032	1,000	1,000	4.870	4.870					1,000				
508	2027	Fish and Wildlife	-	3/31/2017	3/31/2032	2,000	2,000	4.870	4.870					2,000				
509	2027	Fish and Wildlife	-	4/30/2017	4/30/2032	1,000	1,000	4.870	4.870					1,000				
510	2027	Fish and Wildlife	-	5/31/2017	5/31/2032	2,000	2,000	4.870	4.870					2,000				
511	2027	Fish and Wildlife	-	6/30/2017	6/30/2032	2,000	2,000	4.870	4.870					2,000				
512	2027	Fish and Wildlife	-	7/31/2017	7/31/2032	3,000	3,000	4.870	4.870					3,000				
513	2027	Fish and Wildlife	-	8/31/2017	8/31/2032	2,000	2,000	4.870	4.870					2,000				
514	2027	Fish and Wildlife	-	9/30/2017	9/30/2032	7,000	7,000	4.870	4.870					7,000				
515	2027	Bureau Direct	-	10/31/2015	10/31/2035	15,000	15,000	4.570	4.570					15,000				
516	2027	Bureau Direct	-	11/30/2015	11/30/2035	19,000	19,000	4.570	4.570					19,000				
517	2027	Bureau Direct	-	12/31/2015	12/31/2035	18,000	18,000	4.570	4.570					18,000				
518	2027	Bureau Direct	-	1/31/2016	1/31/2036	18,000	18,000	4.570	4.570					18,000				
519	2027	Bureau Direct	-	2/28/2016	2/28/2036	16,000	16,000	4.570	4.570					16,000				
520	2027	Bureau Direct	-	3/31/2016	3/31/2036	16,000	16,000	4.570	4.570					16,000				
521	2027	Bureau Direct	-	4/30/2016	4/30/2036	22,000	22,000	4.570	4.570					22,000				
522	2027	Bureau Direct	-	5/31/2016	5/31/2036	19,000	19,000	4.570	4.570					19,000				
523	2027	Bureau Direct	-	6/30/2016	6/30/2036	24,000	24,000	4.570	4.570					24,000				
524	2027	Bureau Direct	-	6/22/2011	6/30/2036	30,000	30,000	4.629	4.629					29,147		853		
525	2027	Bureau Direct	-	7/31/2016	7/31/2036	23,000	23,000	4.570	4.570					23,000				
526	2027	Bureau Direct	-	8/31/2016	8/31/2036	23,000	23,000	4.570	4.570					23,000				
527	2027	Bureau Direct	-	9/30/2016	9/30/2036	27,000	27,000	4.570	4.570					27,000				
528	2027	Bureau Direct	-	6/22/2011	6/30/2038	30,000	30,000	4.700	4.700					29,097		903		
529	2027	Bureau Direct	-	2/28/2011	2/29/2040	50,000	482	4.995	4.995					478		4		
530	2027	Boise	Bureau of Reclamation	9/30/2006	9/30/2056	15	15	4.500	4.500					15				
531	2027	Bonneville Dam	Corps of Engineers	9/30/2006	9/30/2056	2,628	2,628	4.500	4.500					2,628				
532	2027	Columbia Basin	Bureau of Reclamation	9/30/2006	9/30/2056	1,987	1,987	4.500	4.500					1,987				
533	2027	Cougar	Corps of Engineers	9/30/2006	9/30/2056	109	109	4.500	4.500					109				

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534	2027	Dworshak	Corps of Engineers	9/30/2006	9/30/2056	73	73	4.500	4.500					73				
535	2027	John Day	Corps of Engineers	9/30/2006	9/30/2056	601	601	4.500	4.500					601				
536	2027	Lower Monument	Corps of Engineers	9/30/2006	9/30/2056	285	285	4.500	4.500					285				
537	2027	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2006	9/30/2056	379	379	4.500	4.500					379				
538	2027	The Dalles	Corps of Engineers	9/30/2006	9/30/2056	2,030	2,030	4.500	4.500					2,030				
539	2027	McNary	Corps of Engineers	9/30/2006	9/30/2056	4,080	4,080	4.500	4.500					4,080				
540	2027	Columbia River Fish Mitigation	Corps of Engineers	9/30/2016	9/30/2066	95,220	95,220	4.490	4.490					58,984				
541	2027	Columbia River Fish Mitigation	Corps of Engineers	9/30/2017	9/30/2067	61,932	61,932	4.710	4.710					61,932				
542		FY 2027 Subtotal:	-	-	-	792,338	742,821	-						704,824		1,761		
543	2028	Conservation	-	10/31/2015	10/31/2027	4,000	4,000	4.180	4.180					4,000				
544	2028	Conservation	-	11/30/2015	11/30/2027	5,000	5,000	4.180	4.180					5,000				
545	2028	Conservation	-	12/31/2015	12/31/2027	10,000	10,000	4.180	4.180					10,000				
546	2028	Conservation	-	1/31/2016	1/31/2028	5,000	5,000	4.180	4.180					5,000				
547	2028	Conservation	-	2/28/2016	2/28/2028	6,000	6,000	4.180	4.180					6,000				
548	2028	Conservation	-	3/31/2016	3/31/2028	14,000	14,000	4.180	4.180					14,000				
549	2028	Conservation	-	4/30/2016	4/30/2028	1,000	1,000	4.180	4.180					1,000				
550	2028	Conservation	-	5/31/2016	5/31/2028	8,000	8,000	4.180	4.180					8,000				
551	2028	Conservation	-	6/30/2016	6/30/2028	10,000	10,000	4.180	4.180					10,000				
552	2028	Conservation	-	7/31/2016	7/31/2028	4,000	4,000	4.180	4.180					4,000				
553	2028	Conservation	-	8/31/2016	8/31/2028	9,000	9,000	4.180	4.180					9,000				
554	2028	Conservation	-	9/30/2016	9/30/2028	19,000	19,000	4.180	4.180					19,000				
555	2028	Fish and Wildlife	-	1/31/2014	1/31/2029	7,000	7,000	3.896	3.896					6,980		20		
556	2028	Fish and Wildlife	-	7/31/2015	7/31/2030	6,000	6,000	3.840	3.840					6,000				
557	2028	Fish and Wildlife	-	8/31/2015	8/31/2030	4,000	4,000	3.840	3.840					4,000				
558	2028	Fish and Wildlife	-	9/30/2015	9/30/2030	12,000	12,000	3.840	3.840					12,000				
559	2028	Fish and Wildlife	-	10/31/2015	10/31/2030	6,000	6,000	4.320	4.320					6,000				
560	2028	Fish and Wildlife	-	11/30/2015	11/30/2030	3,000	3,000	4.320	4.320					3,000				
561	2028	Fish and Wildlife	-	12/31/2015	12/31/2030	5,000	5,000	4.320	4.320					5,000				
562	2028	Fish and Wildlife	-	1/31/2016	1/31/2031	4,000	4,000	4.320	4.320					4,000				
563	2028	Fish and Wildlife	-	2/28/2016	2/28/2031	2,000	2,000	4.320	4.320					2,000				
564	2028	Fish and Wildlife	-	3/31/2016	3/31/2031	3,000	3,000	4.320	4.320					3,000				
565	2028	Fish and Wildlife	-	4/30/2016	4/30/2031	2,000	2,000	4.320	4.320					2,000				
566	2028	Fish and Wildlife	-	5/31/2016	5/31/2031	3,000	3,000	4.320	4.320					3,000				
567	2028	Fish and Wildlife	-	6/30/2016	6/30/2031	4,000	4,000	4.320	4.320					4,000				
568	2028	Fish and Wildlife	-	7/31/2016	7/31/2031	6,000	6,000	4.320	4.320					6,000				
569	2028	Fish and Wildlife	-	8/31/2016	8/31/2031	4,000	4,000	4.320	4.320					4,000				
570	2028	Fish and Wildlife	-	9/30/2016	9/30/2031	12,000	12,000	4.320	4.320					12,000				
571	2028	Bureau Direct	-	10/31/2010	10/31/2034	20,000	20,000	4.211	4.211					19,204		796		
572	2028	Bureau Direct	-	8/31/2015	8/31/2035	21,000	21,000	4.130	4.130					21,000				
573	2028	Bureau Direct	-	9/30/2015	9/30/2035	21,000	21,000	4.130	4.130					21,000				
574	2028	Bureau Direct	-	8/12/2011	8/31/2037	30,000	30,000	4.208	4.208					28,254		1,746		
575	2028	Bonneville Dam	Corps of Engineers	9/30/2009	9/30/2059	2,744	2,744	4.375	4.375					2,744				
576	2028	Chief Joseph	Corps of Engineers	9/30/2009	9/30/2059	24,727	24,727	4.375	4.375					24,727				
577	2028	Columbia River Fish Mitigation	Corps of Engineers	9/30/2009	9/30/2059	103,203	103,203	4.375	4.375					103,203				

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
578	2028	Cougar	Corps of Engineers	9/30/2009	9/30/2059	121	121	4.375	4.375					121				
579	2028	Dworshak	Corps of Engineers	9/30/2009	9/30/2059	2,480	2,480	4.375	4.375					2,480				
580	2028	Ice Harbor	Corps of Engineers	9/30/2009	9/30/2059	2,615	2,615	4.375	4.375					2,615				
581	2028	Little Goose	Corps of Engineers	9/30/2009	9/30/2059	3,171	3,171	4.375	4.375					3,171				
582	2028	Lower Granite	Corps of Engineers	9/30/2009	9/30/2059	5,669	5,669	4.375	4.375					5,669				
583	2028	Lower Monument	Corps of Engineers	9/30/2009	9/30/2059	2,332	2,332	4.375	4.375					2,332				
584	2028	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2009	9/30/2059	1,540	1,540	4.375	4.375					1,540				
585	2028	Boise	Bureau of Reclamation	9/30/2009	9/30/2059	2	2	4.375	4.375					2				
586	2028	Little Goose	Corps of Engineers	9/30/2010	9/30/2060	30	30	4.250	4.250					30				
587	2028	Lower Granite	Corps of Engineers	9/30/2010	9/30/2060	1,156	1,156	4.250	4.250					1,156				
588	2028	Albeni Falls	Corps of Engineers	9/30/2010	9/30/2060	42	42	4.250	4.250					42				
589	2028	Bonneville Dam	Corps of Engineers	9/30/2010	9/30/2060	1,425	1,425	4.250	4.250					1,425				
590	2028	Columbia Basin	Bureau of Reclamation	9/30/2010	9/30/2060	877	877	4.250	4.250					877				
591	2028	Columbia River Fish Mitigation	Corps of Engineers	9/30/2010	9/30/2060	56,832	56,832	4.250	4.250					56,832				
592	2028	Cougar	Corps of Engineers	9/30/2010	9/30/2060	59	59	4.250	4.250					59				
593	2028	Hungry Horse Dam	Bureau of Reclamation	9/30/2010	9/30/2060	779	779	4.250	4.250					779				
594	2028	Ice Harbor	Corps of Engineers	9/30/2010	9/30/2060	207	207	4.250	4.250					207				
595	2028	John Day	Corps of Engineers	9/30/2010	9/30/2060	356	356	4.250	4.250					356				
596	2028	Libby	Corps of Engineers	9/30/2010	9/30/2060	40	40	4.250	4.250					40				
597	2028	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2010	9/30/2060	6	6	4.250	4.250					6				
598	2028	Hungry Horse Dam	Bureau of Reclamation	9/30/2011	9/30/2061	503	503	3.750	3.750					503				
599	2028	Columbia Basin	Bureau of Reclamation	9/30/2011	9/30/2061	1,723	1,723	3.750	3.750					1,723				
600	2028	Columbia River Fish Mitigation	Corps of Engineers	9/30/2011	9/30/2061	106,014	106,014	3.750	3.750					7,329				
601	2028	Green Peter/Foster	Corps of Engineers	9/30/2011	9/30/2061	87	87	3.750	3.750					87				
602	2028	Hills Creek	Corps of Engineers	9/30/2011	9/30/2061	12	12	3.750	3.750					12				
603	2028	Ice Harbor	Corps of Engineers	9/30/2011	9/30/2061	819	819	3.750	3.750					819				
604	2028	John Day	Corps of Engineers	9/30/2011	9/30/2061	175	175	3.750	3.750					175				
605	2028	Libby	Corps of Engineers	9/30/2011	9/30/2061	152	152	3.750	3.750					152				
606	2028	Lookout Dam	Corps of Engineers	9/30/2011	9/30/2061	17	17	3.750	3.750					17				
607	2028	Lost Creek	Corps of Engineers	9/30/2011	9/30/2061	7	7	3.750	3.750					7				
608	2028	Lower Granite	Corps of Engineers	9/30/2011	9/30/2061	8	8	3.750	3.750					8				
609	2028	McNary	Corps of Engineers	9/30/2011	9/30/2061	565	565	3.750	3.750					565				
610	2028	Columbia River Fish Mitigation	Corps of Engineers	9/30/2014	9/30/2064	78,577	78,577	3.880	3.880					78,577				
611	2028	Columbia River Fish Mitigation	Corps of Engineers	9/30/2015	9/30/2065	137,096	137,096	4.110	4.110					137,096				
612	2028	Columbia River Fish Mitigation	Corps of Engineers	9/30/2016	9/30/2066	95,220	36,236	4.490	4.490					36,236				
613		FY 2028 Subtotal:	-	-	-	901,387	842,403	-						741,156		2,562		
614	2029	Fish and Wildlife	-	10/31/2013	10/31/2028	22,000	22,000	3.880	3.880					22,000				
615	2029	Fish and Wildlife	-	4/30/2014	2/28/2029	7,000	7,000	1.757	1.757					7,000				
616	2029	Fish and Wildlife	-	8/31/2014	8/31/2029	3,000	3,000	1.757	1.757					3,000				
617	2029	Fish and Wildlife	-	9/30/2014	9/30/2029	11,000	11,000	1.757	1.757					11,000				
618	2029	Fish and Wildlife	-	1/31/2015	1/31/2030	3,000	3,000	1.757	1.757					3,000				
619	2029	Fish and Wildlife	-	2/28/2015	2/28/2030	2,000	2,000	1.757	1.757					2,000				
620	2029	Fish and Wildlife	-	3/31/2015	3/31/2030	3,000	3,000	1.757	1.757					3,000				
621	2029	Fish and Wildlife	-	4/30/2015	4/30/2030	2,000	2,000	1.757	1.757					2,000				

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	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
622	2029	Fish and Wildlife	-	5/31/2015	5/31/2030	3,000	3,000	1.757	1.757					3,000				
623	2029	Fish and Wildlife	-	6/30/2015	6/30/2030	4,000	4,000	1.757	1.757					4,000				
624	2029	Bureau Direct	-	2/27/2012	2/28/2034	55,000	55,000	1.757	1.757					48,281		6,719		
625	2029	Bureau Direct	-	6/30/2013	1/31/2039	35,000	35,000	1.757	1.757					27,833		7,167		
626	2029	Bonneville Dam	Corps of Engineers	9/30/2011	9/30/2061	10,962	10,962	3.750	3.750					10,962				
627	2029	Chief Joseph	Corps of Engineers	9/30/2011	9/30/2061	4	4	3.750	3.750					4				
628	2029	Columbia River Fish Mitigation	Corps of Engineers	9/30/2011	9/30/2061	106,014	98,685	3.750	3.750					98,685				
629	2029	Cougar	Corps of Engineers	9/30/2011	9/30/2061	282	282	3.750	3.750					282				
630	2029	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2011	9/30/2061	122	122	3.750	3.750					122				
631	2029	Cougar	Corps of Engineers	9/30/2012	9/30/2062	139	139	3.375	3.375					139				
632	2029	Hungry Horse Dam	Bureau of Reclamation	9/30/2012	9/30/2062	6	6	3.375	3.375					6				
633	2029	Minidoka/Palisades	Bureau of Reclamation	9/30/2012	9/30/2062	7	7	3.375	3.375					7				
634	2029	Green Peter/Foster	Corps of Engineers	9/30/2012	9/30/2062	28	28	3.375	3.375					28				
635	2029	Chief Joseph	Corps of Engineers	9/30/2012	9/30/2062	28	28	3.375	3.375					28				
636	2029	Columbia Basin	Bureau of Reclamation	9/30/2012	9/30/2062	25	25	3.375	3.375					25				
637	2029	Columbia River Fish Mitigation	Corps of Engineers	9/30/2012	9/30/2062	101,616	101,616	3.375	3.375					101,616				
638	2029	Hills Creek	Corps of Engineers	9/30/2012	9/30/2062	142	142	3.375	3.375					142				
639	2029	Ice Harbor	Corps of Engineers	9/30/2012	9/30/2062	115	115	3.375	3.375					115				
640	2029	John Day	Corps of Engineers	9/30/2012	9/30/2062	6,161	6,161	3.375	3.375					6,161				
641	2029	Libby	Corps of Engineers	9/30/2012	9/30/2062	16	16	3.375	3.375					16				
642	2029	Lookout Dam	Corps of Engineers	9/30/2012	9/30/2062	294	294	3.375	3.375					294				
643	2029	Lower Monument	Corps of Engineers	9/30/2012	9/30/2062	89	89	3.375	3.375					89				
644	2029	McNary	Corps of Engineers	9/30/2012	9/30/2062	12	11	3.375	3.375					11				
645	2029	RRP - Green Springs	Bureau of Reclamation	9/30/2012	9/30/2062	2	2	3.375	3.375					2				
646	2029	Replacements	-	3/31/2018	3/31/2063	229,962	229,962	5.250	5.250					229,962				
647	2029	Bonneville Dam	Corps of Engineers	9/30/2013	9/30/2063	268	268	2.875	2.875					268				
648	2029	Chief Joseph	Corps of Engineers	9/30/2013	9/30/2063	10	10	2.875	2.875					10				
649	2029	Columbia Basin	Bureau of Reclamation	9/30/2013	9/30/2063	3,124	3,124	2.875	2.875					3,124				
650	2029	Columbia River Fish Mitigation	Corps of Engineers	9/30/2013	9/30/2063	94,953	94,953	2.875	2.875					94,953				
651	2029	Cougar	Corps of Engineers	9/30/2013	9/30/2063	4,088	4,088	2.875	2.875					4,088				
652	2029	Detroit Lake/Big Cliff	Corps of Engineers	9/30/2013	9/30/2063	528	528	2.875	2.875					528				
653	2029	John Day	Corps of Engineers	9/30/2013	9/30/2063	17	17	2.875	2.875					17				
654	2029	Little Goose	Corps of Engineers	9/30/2013	9/30/2063	66	66	2.875	2.875					66				
655	2029	McNary	Corps of Engineers	9/30/2013	9/30/2063	1,000	1,000	2.875	2.875					1,000				
656	2029	RRP - Green Springs	Bureau of Reclamation	9/30/2013	9/30/2063	1	1	2.875	2.875					1				
657	2029	Replacements	-	3/31/2019	3/31/2064	229,962	229,962	5.250	5.250					121,804				
658		FY 2029 Subtotal:	-	-	-	940,041	932,712	-						810,669		13,886		
659	2030	Fish and Wildlife	-	10/31/2014	10/30/2029	6,000	6,000	1.757	1.757					6,000				
660	2030	Fish and Wildlife	-	11/30/2014	11/30/2029	3,000	3,000	1.757	1.757					3,000				
661	2030	Fish and Wildlife	-	12/31/2014	12/31/2029	5,000	5,000	1.757	1.757					5,000				
662	2030	Replacements	-	3/31/2019	3/31/2064	229,962	108,158	5.250	5.250					108,158				
663	2030	Replacements	-	3/31/2020	3/31/2065	229,962	229,962	5.250	5.250					229,962				
664	2030	Replacements	-	3/31/2021	3/31/2066	229,962	229,962	5.250	5.250					229,962				
665	2030	Replacements	-	3/31/2022	3/31/2067	229,962	229,962	5.250	5.250					200,225				
666		FY 2030 Subtotal:	-	-	-	933,848	812,044	-						782,307				

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	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
667	2031	Replacements	-	3/31/2022	3/31/2067	229,962	29,737	5.250	5.250					29,737				
668	2031	Replacements	-	3/31/2023	3/31/2068	229,962	229,962	5.250	5.250					229,962				
669	2031	Replacements	-	3/31/2024	3/31/2069	229,962	229,962	5.250	5.250					229,962				
670	2031	Replacements	-	3/31/2025	3/31/2070	229,962	229,962	5.250	5.250					229,962				
671	2031	Replacements	-	3/31/2026	3/31/2071	229,962	229,962	5.250	5.250					95,320				
672		FY 2031 Subtotal:	-	-	-	1,149,810	949,585	-						814,943				
673	2032	Replacements	-	3/31/2026	3/31/2071	229,962	134,642	5.250	5.250					134,642				
674	2032	Replacements	-	3/31/2027	3/31/2072	229,962	229,962	5.250	5.250					229,962				
675	2032	Replacements	-	3/31/2028	3/31/2073	229,962	229,962	5.250	5.250					229,962				
676	2032	Replacements	-	3/31/2029	3/31/2074	229,962	229,962	5.250	5.250					229,962				
677	2032	Replacements	-	3/31/2030	3/31/2075	229,962	229,962	5.250	5.250					88,374				
678		FY 2032 Subtotal:	-	-	-	1,149,810	1,054,490	-						912,903				
679	2033	Replacements	-	3/31/2030	3/31/2075	229,962	141,588	5.250	5.250					141,588				
680	2033	Replacements	-	3/31/2031	3/31/2076	229,962	229,962	5.250	5.250					229,962				
681	2033	Replacements	-	3/31/2032	3/31/2077	229,962	229,962	5.250	5.250					229,962				
682		FY 2033 Subtotal:	-	-	-	689,886	601,512	-						601,512				
683	2034	Replacements	-	3/31/2033	3/31/2078	229,962	229,962	5.250	5.250					229,962				
684		FY 2034 Subtotal:	-	-	-	229,962	229,962	-						229,962				
685	2035	Replacements	-	3/31/2034	3/31/2079	229,962	229,962	5.250	5.250					229,962				
686		FY 2035 Subtotal:	-	-	-	229,962	229,962	-						229,962				
687	2036	Replacements	-	3/31/2035	3/31/2080	229,962	229,962	5.250	5.250					229,962				
688		FY 2036 Subtotal:	-	-	-	229,962	229,962	-						229,962				
689	2037	Replacements	-	3/31/2036	3/31/2081	229,962	229,962	5.250	5.250					229,962				
690		FY 2037 Subtotal:	-	-	-	229,962	229,962	-						229,962				
691	2038	Replacements	-	3/31/2037	3/31/2082	229,962	229,962	5.250	5.250					229,962				
692		FY 2038 Subtotal:	-	-	-	229,962	229,962	-						229,962				
693	2039	Replacements	-	3/31/2038	3/31/2083	229,962	229,962	5.250	5.250					229,962				
694		FY 2039 Subtotal:	-	-	-	229,962	229,962	-						229,962				
695	2040	Replacements	-	3/31/2039	3/31/2084	229,962	229,962	5.250	5.250					229,962				
696		FY 2040 Subtotal:	-	-	-	229,962	229,962	-						229,962				
697	2041	Replacements	-	3/31/2040	3/31/2085	229,962	229,962	5.250	5.250					229,962				
698		FY 2041 Subtotal:	-	-	-	229,962	229,962	-						229,962				
699	2042	Replacements	-	3/31/2041	3/31/2086	229,962	229,962	5.250	5.250					229,962				
700		FY 2042 Subtotal:	-	-	-	229,962	229,962	-						229,962				
701	2043	Replacements	-	3/31/2042	3/31/2087	229,962	229,962	5.250	5.250					229,962				
702		FY 2043 Subtotal:	-	-	-	229,962	229,962	-						229,962				
703	2044	Replacements	-	3/31/2043	3/31/2088	229,962	229,962	5.250	5.250					229,962				
704		FY 2044 Subtotal:	-	-	-	229,962	229,962	-						229,962				
705	2045	Replacements	-	3/31/2044	3/31/2089	229,962	229,962	5.250	5.250					229,962				
706		FY 2045 Subtotal:	-	-	-	229,962	229,962	-						229,962				
707	2046	Replacements	-	3/31/2045	3/31/2090	229,962	229,962	5.250	5.250					229,962				
708		FY 2046 Subtotal:	-	-	-	229,962	229,962	-						229,962				
709	2047	Replacements	-	3/31/2046	3/31/2091	229,962	229,962	5.250	5.250					229,962				
710		FY 2047 Subtotal:	-	-	-	229,962	229,962	-						229,962				
711	2048	Replacements	-	3/31/2047	3/31/2092	229,962	229,962	5.250	5.250					229,962				
712		FY 2048 Subtotal:	-	-	-	229,962	229,962	-						229,962				
713	2049	Columbia River Fish Mitigation	Corps of Engineers	9/30/2006	9/30/2056	366,395	366,395	4.500	4.500					16,395				
714	2049	Replacements	-	3/31/2048	3/31/2093	229,962	229,962	5.250	5.250					229,962				
715		FY 2049 Subtotal:	-	-	-	596,357	596,357	-						246,357				

TABLE 12D:
Application of Amortization
October 1, 2013 - September 30, 2017 Cost Evaluation Period
($000s) (FY 2017)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
716	2050	Columbia River Fish Mitigation	Corps of Engineers	9/30/2006	9/30/2056	366,395	350,000	4.500	4.500					50,000				
717	2050	Replacements	-	3/31/2049	3/31/2094	229,962	229,962	5.250	5.250					229,962				
718		FY 2050 Subtotal:	-	-	-	596,357	579,962	-						279,962				
719	2051	Columbia River Fish Mitigation	Corps of Engineers	9/30/2006	9/30/2056	366,395	300,000	4.500	4.500					50,000				
720	2051	Replacements	-	3/31/2050	3/31/2095	229,962	229,962	5.250	5.250					229,962				
721		FY 2051 Subtotal:	-	-	-	596,357	529,962	-						279,962				
722	2052	Columbia River Fish Mitigation	Corps of Engineers	9/30/2006	9/30/2056	366,395	250,000	4.500	4.500					50,000				
723	2052	Replacements	-	3/31/2051	3/31/2096	229,962	229,962	5.250	5.250					229,962				
724		FY 2052 Subtotal:	-	-	-	596,357	479,962	-						279,962				
725	2053	Columbia River Fish Mitigation	Corps of Engineers	9/30/2006	9/30/2056	366,395	200,000	4.500	4.500					50,000				
726	2053	Replacements	-	3/31/2052	3/31/2097	229,962	229,962	5.250	5.250					229,962				
727		FY 2053 Subtotal:	-	-	-	596,357	429,962	-						279,962				
728	2054	Columbia River Fish Mitigation	Corps of Engineers	9/30/2006	9/30/2056	366,395	150,000	4.500	4.500					50,000				
729	2054	Replacements	-	3/31/2053	3/31/2098	229,962	229,962	5.250	5.250					229,962				
730		FY 2054 Subtotal:	-	-	-	596,357	379,962	-						279,962				
731	2055	Columbia River Fish Mitigation	Corps of Engineers	9/30/2006	9/30/2056	366,395	100,000	4.500	4.500					50,000				
732	2055	Replacements	-	3/31/2054	3/31/2099	229,962	229,962	5.250	5.250					229,962				
733		FY 2055 Subtotal:	-	-	-	596,357	329,962	-						279,962				
734	2056	Columbia River Fish Mitigation	Corps of Engineers	9/30/2006	9/30/2056	366,395	50,000	4.500	4.500					50,000				
735	2056	Replacements	-	3/31/2055	3/31/2100	229,962	229,962	5.250	5.250					229,962				
736		FY 2056 Subtotal:	-	-	-	596,357	279,962	-						279,962				
737	2057	Replacements	-	3/31/2056	3/31/2101	229,962	229,962	5.250	5.250					229,962				
738		FY 2057 Subtotal:	-	-	-	229,962	229,962	-						229,962				
739	2058	Boise	Bureau of Reclamation	9/30/2008	9/30/2058	64	64	4.875	4.875					64				
740	2058	Bonneville Dam	Corps of Engineers	9/30/2008	9/30/2058	14,609	14,609	4.875	4.875					14,609				
741	2058	Columbia River Fish Mitigation	Corps of Engineers	9/30/2008	9/30/2058	36,554	36,554	4.875	4.875					36,554				
742	2058	Dworshak	Corps of Engineers	9/30/2008	9/30/2058	10	10	4.875	4.875					10				
743	2058	Hungry Horse Dam	Bureau of Reclamation	9/30/2008	9/30/2058	76	76	4.875	4.875					76				
744	2058	Ice Harbor	Corps of Engineers	9/30/2008	9/30/2058	14	14	4.875	4.875					14				
745	2058	Libby	Corps of Engineers	9/30/2008	9/30/2058	1,567	1,567	4.875	4.875					1,567				
746	2058	Little Goose	Corps of Engineers	9/30/2008	9/30/2058	13	13	4.875	4.875					13				
747	2058	Lower Granite	Corps of Engineers	9/30/2008	9/30/2058	24	24	4.875	4.875					24				
748	2058	Lower Monument	Corps of Engineers	9/30/2008	9/30/2058	9	9	4.875	4.875					9				
749	2058	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2008	9/30/2058	74	74	4.875	4.875					74				
750	2058	McNary	Corps of Engineers	9/30/2008	9/30/2058	215	215	4.875	4.875					215				
751	2058	The Dalles	Corps of Engineers	9/30/2008	9/30/2058	1,651	1,651	4.875	4.875					1,651				
752	2058	Chief Joseph	Corps of Engineers	9/30/2008	9/30/2058	3,500	3,500	4.875	4.875					3,500				
753	2058	Columbia Basin	Bureau of Reclamation	9/30/2008	9/30/2058	835	835	4.875	4.875					835				
754	2058	Replacements	-	3/31/2057	3/31/2102	229,962	229,962	5.250	5.250					229,962				
755		FY 2058 Subtotal:	-	-	-	289,178	289,178	-						289,178				
756	2059	Albeni Falls	Corps of Engineers	9/30/2009	9/30/2059	57	57	4.375	4.375					57				
757	2059	Columbia Basin	Bureau of Reclamation	9/30/2009	9/30/2059	1,338	1,338	4.375	4.375					1,338				
758	2059	Hungry Horse Dam	Bureau of Reclamation	9/30/2009	9/30/2059	60	60	4.375	4.375					60				
759	2059	John Day	Corps of Engineers	9/30/2009	9/30/2059	1,548	1,548	4.375	4.375					1,548				
760	2059	Yakima Chandler/Kenniwick	Bureau of Reclamation	9/30/2009	9/30/2059	15	15	4.375	4.375					15				
761	2059	Replacements	-	3/31/2058	3/31/2103	229,962	229,962	5.250	5.250					229,962				
762		FY 2059 Subtotal:	-	-	-	232,980	232,980	-						232,980				
763	2060	Replacements	-	3/31/2059	3/31/2104	229,962	229,962	5.250	5.250					229,962				
764		FY 2060 Subtotal:	-	-	-	229,962	229,962	-						229,962				

TABLE 12D:
Application of Amortization
October 1, 2013 - September 30, 2017 Cost Evaluation Period
($000s) (FY 2017)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Rolled Maturity Date	Roll Rate	Principal Paid	Premium	Discount	Accrual	Reversal
765	2061	Replacements	-	3/31/2060	3/31/2105	229,962	229,962	5.250	5.250					229,962				
766		FY 2061 Subtotal:	-	-	-	229,962	229,962	-						229,962				
767	2062	Replacements	-	3/31/2061	3/31/2106	229,962	229,962	5.250	5.250					229,962				
768		FY 2062 Subtotal:	-	-	-	229,962	229,962	-						229,962				
769	2063	Replacements	-	3/31/2062	3/31/2107	229,962	229,962	5.250	5.250					229,962				
770		FY 2063 Subtotal:	-	-	-	229,962	229,962	-						229,962				
771	2064	Replacements	-	3/31/2063	3/31/2108	229,962	229,962	5.250	5.250					229,962				
772		FY 2064 Subtotal:	-	-	-	229,962	229,962	-						229,962				
773	2065	Replacements	-	3/31/2064	3/31/2109	229,962	229,962	5.250	5.250					229,962				
774		FY 2065 Subtotal:	-	-	-	229,962	229,962	-						229,962				
775	2066	Replacements	-	3/31/2065	3/31/2110	229,962	229,962	5.250	5.250					229,962				
776		FY 2066 Subtotal:	-	-	-	229,962	229,962	-						229,962				
777	2067	Replacements	-	3/31/2066	3/31/2111	229,962	229,962	5.250	5.250					229,962				
778		FY 2067 Subtotal:	-	-	-	229,962	229,962	-						229,962				
779	Grand Total					22,723,430	20,572,287	-						18,078,345	261	18,869		

TABLE 12E:
Summary of Interest
October 1, 2013 - September 30, 2017 Cost Evaluation Period
($000s) (FY 2017)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1	**Obligation Type**	**General Project**	**Specific Project**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**
2	**Appropriation**	**Bureau of Reclamation**	Boise	295	295	295	295	295	295	295	295	295	295	295	295	54	4	3	3	3	3	3	3
3			Columbia Basin	5,583	5,583	5,583	5,583	5,583	5,577	5,577	5,577	5,577	5,552	5,552	5,552	989	381	292	190	99	99	99	99
4			Columbia Basin 3rd Powerhouse	32,565	29,405	29,405	29,405	27,714	22,249	22,249	18,652	11,518	10,537	3,770	0	0	0	0	0	0	0	0	0
5			Hungry Horse Dam	832	832	832	832	832	832	832	832	832	709	709	266	224	59	59	7	6	6	6	6
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	0	0	0	0	0	0	0	0
7			RRP - Green Springs	655	655	655	655	655	655	655	655	655	655	655	655	0	0	0	0	0	0	0	0
8			Yakima Chandler/Kenniwick	43	43	43	43	43	43	43	43	43	43	43	43	1	1	1	1	1	1	1	1
9			Yakima Roza	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
10			**Bureau of Reclamation Subtotal:**	43,616	40,457	40,457	40,457	38,766	33,295	33,295	29,699	22,564	21,434	14,667	10,454	1,269	445	355	201	109	109	109	109
11		**Corps of Engineers**	Albeni Falls	208	208	208	208	208	208	208	208	208	208	208	208	29	4	4	2	2	2	2	2
12			Bonneville 2nd Powerhouse	26,226	26,226	26,226	26,226	26,226	26,226	26,226	26,226	26,226	8,158	1,881	298	0	0	0	0	0	0	0	0
13			Bonneville Dam	8,320	8,320	8,320	8,320	8,320	8,320	7,199	7,199	7,199	7,161	7,161	7,161	2,497	1,430	1,312	1,131	712	712	712	712
14			Chief Joseph	16,243	16,243	16,243	16,243	16,243	14,666	14,062	11,375	3,084	1,895	1,895	1,608	1,254	1,254	1,254	172	171	171	171	171
15			Columbia River Fish Mitigation	54,909	57,957	63,592	67,867	70,784	70,784	70,784	70,784	70,784	70,784	70,784	67,976	56,554	51,211	45,646	28,130	18,270	18,270	18,270	18,270
16			Cougar	765	765	765	765	765	765	765	765	765	765	765	765	568	146	141	133	0	0	0	0
17			Detroit Lake/Big Cliff	100	100	100	100	100	100	100	100	100	100	100	100	68	15	15	15	0	0	0	0
18			Dworshak	7,503	892	892	892	892	892	892	892	892	862	862	791	149	112	109	0	0	0	0	0
19			Green Peter/Foster	18	18	18	18	18	18	18	18	18	18	18	18	4	4	4	1	0	0	0	0
20			Hills Creek	171	171	171	171	171	171	171	171	171	171	171	171	8	5	5	5	0	0	0	0
21			Ice Harbor	2,289	2,289	2,289	2,289	809	807	807	807	807	802	802	775	158	158	158	5	1	1	1	1
22			John Day	1,648	1,648	1,648	1,648	1,648	1,648	1,648	1,648	1,648	1,648	1,648	1,040	481	325	298	276	68	68	68	68
23			Libby	16,744	12,811	12,729	5,925	2,327	1,537	1,537	1,537	1,537	1,515	1,515	458	84	84	84	77	76	76	76	76
24			Little Goose	4,410	4,410	4,410	4,410	4,410	4,410	2,033	866	862	862	862	776	143	143	143	3	1	1	1	1
25			Lookout Dam	740	740	740	740	740	740	740	740	740	740	740	735	416	11	11	10	0	0	0	0
26			Lost Creek	1,062	1,062	1,062	1,062	1,062	47	20	20	20	17	17	11	0	0	0	0	0	0	0	0
27			Lower Granite	12,441	3,679	3,679	3,679	3,679	3,679	775	775	775	650	650	650	319	299	299	1	1	1	1	1
28			Lower Monument	3,607	3,607	3,607	3,607	3,607	3,607	3,607	3,607	680	680	680	527	145	118	106	3	0	0	0	0
29			McNary	742	742	742	742	742	716	716	716	716	714	714	713	273	244	61	40	10	10	10	10
30			The Dalles	2,922	2,403	2,403	2,403	2,403	2,403	2,403	2,403	2,403	2,403	2,403	2,403	1,371	172	80	80	80	80	80	80
31			**Corps of Engineers Subtotal:**	161,067	144,291	149,843	147,315	145,154	141,744	134,712	130,857	119,636	100,154	93,876	87,184	64,521	55,736	49,729	30,084	19,394	19,394	19,394	19,394
32		**Lower Snake Fish & Wildlife**	Lower Snake Fish and Wildlife	16,525	16,525	16,525	16,525	16,525	16,525	16,525	16,525	16,525	15,848	15,848	1,292	93	93	76	8	4	4	4	4
33			**Lower Snake Fish & Wildlife Subtotal:**	16,525	16,525	16,525	16,525	16,525	16,525	16,525	16,525	16,525	15,848	15,848	1,292	93	93	76	8	4	4	4	4
34		**Appropriation Subtotal:**		221,209	201,273	206,826	204,298	200,446	191,565	184,532	177,081	158,726	137,436	124,392	98,930	65,883	56,273	50,159	30,293	19,507	19,507	19,507	19,507
35	**Treasury**	**BPA Borrowing**	(Less Interest Income)	(6,113)	(2,505)	(3,209)	(5,998)	(5,791)	(9,174)	(8,474)	(8,703)	(8,544)	(8,494)	(9,240)	(11,575)	(11,511)	(11,652)	(12,167)	(12,706)	(11,941)	(12,304)	(13,275)	(13,951)
36			Bureau Direct	26,981	28,843	32,906	44,413	55,082	53,071	48,738	42,502	39,962	39,368	38,270	37,621	30,203	14,016	3,913	788	0	0	0	0
37			Interest Accrual	5,336	5,410	7,633	10,382	10,382	9,260	7,832	7,667	7,667	7,211	7,211	6,887	3,638	713	183	0	0	0	0	0
38			Interest Accrual Reversal	(4,647)	(5,336)	(5,410)	(7,633)	(10,382)	(10,382)	(9,260)	(7,832)	(7,667)	(7,667)	(7,211)	(7,211)	(6,887)	(3,638)	(713)	(183)	0	0	0	0
39			Conservation	8,684	10,868	12,226	16,269	19,746	19,656	19,656	19,656	19,562	18,659	13,800	13,009	11,478	8,555	3,050	0	0	0	0	0
40			Interest Accrual	2,429	2,438	3,031	3,686	3,628	3,628	3,628	3,628	3,581	2,635	2,284	2,059	1,526	593	0	0	0	0	0	0
41			Interest Accrual Reversal	(1,312)	(2,429)	(2,438)	(3,031)	(3,686)	(3,628)	(3,628)	(3,628)	(3,628)	(3,581)	(2,635)	(2,284)	(2,059)	(1,526)	(593)	0	0	0	0	0
42			Construction (AS)	1,005	985	1,328	1,722	1,941	1,912	1,718	1,357	949	393	0	0	0	0	0	0	0	0	0	0
43			Interest Accrual	183	263	379	492	492	472	371	285	143	0	0	0	0	0	0	0	0	0	0	0
44			Interest Accrual Reversal	(83)	(183)	(263)	(379)	(492)	(492)	(472)	(371)	(285)	(143)	0	0	0	0	0	0	0	0	0	0
45			Fish and Wildlife	9,091	11,158	12,867	15,019	16,163	15,634	14,577	14,577	14,577	13,608	12,832	11,921	10,481	7,356	3,793	1,173	123	0	0	0
46			Interest Accrual	2,024	2,235	2,656	2,915	2,915	2,606	2,606	2,606	2,606	2,606	2,378	2,378	1,799	1,031	514	83	0	0	0	0
47			Interest Accrual Reversal	(1,117)	(2,024)	(2,235)	(2,656)	(2,915)	(2,915)	(2,606)	(2,606)	(2,606)	(2,606)	(2,606)	(2,378)	(2,378)	(1,799)	(1,031)	(514)	(83)	0	0	0
48			Replacements	0	0	0	0	6,037	18,110	30,183	42,256	54,329	66,402	78,475	90,548	102,621	114,694	126,767	129,606	112,277	82,789	49,507	21,826
49			**BPA Borrowing Subtotal:**	42,461	49,724	59,471	75,201	93,120	97,758	104,868	111,394	120,646	128,389	133,558	140,974	138,909	128,343	123,717	118,247	100,376	70,485	36,231	7,875
50		**Treasury Subtotal:**		42,461	49,724	59,471	75,201	93,120	97,758	104,868	111,394	120,646	128,389	133,558	140,974	138,909	128,343	123,717	118,247	100,376	70,485	36,231	7,875
51	**Grand Total:**			**263,670**	**250,998**	**266,296**	**279,498**	**293,566**	**289,323**	**289,401**	**288,475**	**279,372**	**265,825**	**257,949**	**239,904**	**204,792**	**184,616**	**173,876**	**148,540**	**119,882**	**89,992**	**55,738**	**27,382**

TABLE 12E:
Summary of Interest
October 1, 2013 - September 30, 2017 Cost Evaluation Period
($000s) (FY 2017)

	A	B	C	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ
1	**Obligation Type**	**General Project**	**Specific Project**	**2034**	**2035**	**2036**	**2037**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**	**2046**	**2047**	**2048**	**2049**	**2050**	**2051**	**2052**	**2053**
2	**Appropriation**	**Bureau of Reclamation**	Boise	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
3			Columbia Basin	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
4			Columbia Basin 3rd Powerhouse	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5			Hungry Horse Dam	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
6			Minidoka/Palisades	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7			RRP - Green Springs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8			Yakima Chandler/Kenniwick	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9			Yakima Roza	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10			**Bureau of Reclamation Subtotal:**	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109
11		**Corps of Engineers**	Albeni Falls	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
12			Bonneville 2nd Powerhouse	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13			Bonneville Dam	712	712	712	712	712	712	712	712	712	712	712	712	712	712	712	712	712	712	712	712
14			Chief Joseph	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171
15			Columbia River Fish Mitigation	18,270	18,270	18,270	18,270	18,270	18,270	18,270	18,270	18,270	18,270	18,270	18,270	18,270	18,270	18,270	18,270	17,532	15,282	13,032	10,782
16			Cougar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17			Detroit Lake/Big Cliff	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18			Dworshak	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19			Green Peter/Foster	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20			Hills Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21			Ice Harbor	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22			John Day	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
23			Libby	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76
24			Little Goose	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25			Lookout Dam	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26			Lost Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27			Lower Granite	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28			Lower Monument	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29			McNary	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
30			The Dalles	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
31			**Corps of Engineers Subtotal:**	19,394	19,394	19,394	19,394	19,394	19,394	19,394	19,394	19,394	19,394	19,394	19,394	19,394	19,394	19,394	19,394	18,656	16,406	14,156	11,906
32		**Lower Snake Fish & Wildlife**	Lower Snake Fish and Wildlife	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
33			**Lower Snake Fish & Wildlife Subtotal:**	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
34		**Appropriation Subtotal:**		19,507	19,507	19,507	19,507	19,507	19,507	19,507	19,507	19,507	19,507	19,507	19,507	19,507	19,507	19,507	19,507	18,769	16,519	14,269	12,019
35	**Treasury**	**BPA Borrowing**	(Less Interest Income)	(14,019)	(14,019)	(14,019)	(14,028)	(14,019)	(14,019)	(14,052)	(14,150)	(14,150)	(14,150)	(12,559)	(7,825)	(7,825)	(7,824)	(7,825)	(7,825)	(7,825)	(7,825)	(7,825)	(7,825)
36			Bureau Direct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37			Interest Accrual	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38			Interest Accrual Reversal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39			Conservation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40			Interest Accrual	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41			Interest Accrual Reversal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42			Construction (AS)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43			Interest Accrual	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44			Interest Accrual Reversal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45			Fish and Wildlife	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46			Interest Accrual	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47			Interest Accrual Reversal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48			Replacements	12,073	12,073	12,073	12,073	12,073	12,073	12,073	12,073	12,073	12,073	12,073	12,073	12,073	12,073	12,073	12,073	12,073	12,073	12,073	12,073
49			**BPA Borrowing Subtotal:**	(1,946)	(1,946)	(1,946)	(1,955)	(1,946)	(1,946)	(1,979)	(2,077)	(2,077)	(2,077)	(486)	4,248	4,248	4,249	4,248	4,248	4,248	4,248	4,248	4,248
50		**Treasury Subtotal:**		(1,946)	(1,946)	(1,946)	(1,955)	(1,946)	(1,946)	(1,979)	(2,077)	(2,077)	(2,077)	(486)	4,248	4,248	4,249	4,248	4,248	4,248	4,248	4,248	4,248
51	**Grand Total:**			**17,560**	**17,560**	**17,560**	**17,551**	**17,560**	**17,560**	**17,528**	**17,429**	**17,429**	**17,429**	**19,021**	**23,755**	**23,755**	**23,755**	**23,755**	**23,755**	**23,017**	**20,767**	**18,517**	**16,267**

TABLE 12E:
Summary of Interest
October 1, 2013 - September 30, 2017 Cost Evaluation Period
($000s) (FY 2017)

	A	B	C	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF
1	**Obligation Type**	**General Project**	**Specific Project**	**2054**	**2055**	**2056**	**2057**	**2058**	**2059**	**2060**	**2061**	**2062**	**2063**	**2064**	**2065**	**2066**	**2067**	**Total**
2	**Appropriation**	**Bureau of Reclamation**	Boise	3	3	3	3	3	0	0	0	0	0	0	0	0	0	3,689
3			Columbia Basin	99	99	99	99	99	59	0	0	0	0	0	0	0	0	71,667
4			Columbia Basin 3rd Powerhouse	0	0	0	0	0	0	0	0	0	0	0	0	0	0	237,470
5			Hungry Horse Dam	6	6	6	6	6	3	0	0	0	0	0	0	0	0	9,710
6			Minidoka/Palisades	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43,715
7			RRP - Green Springs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,859
8			Yakima Chandler/Kenniwick	1	1	1	1	1	1	0	0	0	0	0	0	0	0	543
9			Yakima Roza	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
10			**Bureau of Reclamation Subtotal:**	109	109	109	109	109	62	0	0	0	0	0	0	0	0	374,663
11		**Corps of Engineers**	Albeni Falls	2	2	2	2	2	2	0	0	0	0	0	0	0	0	2,616
12			Bonneville 2nd Powerhouse	0	0	0	0	0	0	0	0	0	0	0	0	0	0	246,370
13			Bonneville Dam	712	712	712	712	712	0	0	0	0	0	0	0	0	0	120,022
14			Chief Joseph	171	171	171	171	171	0	0	0	0	0	0	0	0	0	138,682
15			Columbia River Fish Mitigation	8,532	6,282	4,032	1,782	1,782	0	0	0	0	0	0	0	0	0	1,433,767
16			Cougar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,164
17			Detroit Lake/Big Cliff	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,310
18			Dworshak	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,543
19			Green Peter/Foster	0	0	0	0	0	0	0	0	0	0	0	0	0	0	227
20			Hills Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,078
21			Ice Harbor	1	1	1	1	1	0	0	0	0	0	0	0	0	0	16,070
22			John Day	68	68	68	68	68	68	0	0	0	0	0	0	0	0	22,576
23			Libby	76	76	76	76	76	0	0	0	0	0	0	0	0	0	62,717
24			Little Goose	1	1	1	1	1	0	0	0	0	0	0	0	0	0	33,172
25			Lookout Dam	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,327
26			Lost Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,462
27			Lower Granite	1	1	1	1	1	0	0	0	0	0	0	0	0	0	36,062
28			Lower Monument	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31,807
29			McNary	10	10	10	10	10	0	0	0	0	0	0	0	0	0	9,637
30			The Dalles	80	80	80	80	80	0	0	0	0	0	0	0	0	0	33,392
31			**Corps of Engineers Subtotal:**	9,656	7,406	5,156	2,906	2,906	70	0	0	0	0	0	0	0	0	2,233,000
32		**Lower Snake Fish & Wildlife**	Lower Snake Fish and Wildlife	4	4	4	4	4	0	0	0	0	0	0	0	0	0	182,092
33			**Lower Snake Fish & Wildlife Subtotal:**	4	4	4	4	4	0	0	0	0	0	0	0	0	0	182,092
34		**Appropriation Subtotal:**		9,769	7,519	5,269	3,019	3,019	132	0	0	0	0	0	0	0	0	2,789,755
35	**Treasury**	**BPA Borrowing**	(Less Interest Income)	(7,825)	(7,825)	(7,825)	(7,825)	(7,825)	(7,824)	(7,824)	(7,824)	(7,825)	(7,825)	(7,825)	(7,825)	(7,825)	(7,825)	(520,479)
36			Bureau Direct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	536,679
37			Interest Accrual	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97,410
38			Interest Accrual Reversal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(102,056)
39			Conservation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	214,876
40			Interest Accrual	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38,774
41			Interest Accrual Reversal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(40,087)
42			Construction (AS)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,310
43			Interest Accrual	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,081
44			Interest Accrual Reversal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(3,165)
45			Fish and Wildlife	0	0	0	0	0	0	0	0	0	0	0	0	0	0	184,950
46			Interest Accrual	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33,959
47			Interest Accrual Reversal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(35,076)
48			Replacements	12,073	12,073	12,073	12,073	12,073	12,073	12,073	12,073	12,073	12,073	12,073	12,073	12,073	12,073	1,536,904
49			**BPA Borrowing Subtotal:**	4,248	4,248	4,248	4,248	4,248	4,249	4,249	4,249	4,248	4,248	4,249	4,248	4,248	4,248	1,959,079
50		**Treasury Subtotal:**		4,248	4,248	4,248	4,248	4,248	4,249	4,249	4,249	4,248	4,248	4,249	4,248	4,248	4,248	1,959,079
51	**Grand Total:**			**14,017**	**11,767**	**9,517**	**7,267**	**7,267**	**4,381**	**4,249**	**4,249**	**4,248**	**4,248**	**4,249**	**4,248**	**4,248**	**4,248**	**4,748,835**

TABLE 12F:
Summary of Amortization
October 1, 2013 - September 30, 2017 Cost Evaluation Period
($000s) (FY 2017)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1	**Obligation Type**	**General Project**	**Specific Project**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029**	**2030**	**2031**	**2032**	**2033**
2	**Appropriation**	**Bureau of Reclamation**	**Boise**	-	-	-	-	-	-	-	-	-	-	-	3,365	979	15	2	-	-	-	-	-
3			**Columbia Basin**	-	-	-	-	72	-	-	-	360	-	-	76,152	11,891	1,987	2,600	3,149	-	-	-	-
4			**Columbia Basin 3rd Powerhouse**	44,125	-	-	23,654	76,441	-	50,295	99,784	13,715	94,645	52,730	-	-	-	-	-	-	-	-	-
5			**Hungry Horse Dam**	-	-	-	-	-	-	-	-	1,731	-	6,190	680	3,245	-	1,282	6	-	-	-	-
6			**Minidoka/Palisades**	-	-	-	-	-	-	-	-	-	-	-	50,953	-	-	-	7	-	-	-	-
7			**RRP - Green Springs**	-	-	-	-	-	-	-	-	-	-	-	11,145	-	-	-	3	-	-	-	-
8			**Yakima Chandler/Kenniwick**	-	-	-	-	-	-	-	-	-	-	-	833	-	-	-	-	-	-	-	-
9			**Yakima Roza**	-	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-	-	-	-	-
10			**Bureau of Reclamation Subtotal:**	44,125	-	-	23,654	76,513	-	50,295	99,784	15,806	94,645	58,920	143,143	16,115	2,002	3,885	3,165	-	-	-	-
11		**Corps of Engineers**	**Albeni Falls**	-	-	-	-	-	-	-	-	-	-	-	2,510	481	-	42	-	-	-	-	-
12			**Bonneville 2nd Powerhouse**	-	-	-	-	-	-	-	-	252,696	87,793	22,140	4,167	-	-	-	-	-	-	-	-
13			**Bonneville Dam**	-	-	-	-	-	15,670	-	-	540	-	-	82,030	20,849	2,628	4,169	11,230	-	-	-	-
14			**Chief Joseph**	-	-	-	-	22,061	8,451	37,579	115,961	16,625	-	4,017	5,292	-	-	24,727	42	-	-	-	-
15			**Columbia River Fish Mitigation**	-	-	-	-	-	-	-	-	-	-	39,282	207,537	105,564	120,916	419,272	295,254	-	-	-	-
16			**Cougar**	-	-	-	-	-	-	-	-	-	-	-	3,648	8,250	109	180	4,509	-	-	-	-
17			**Detroit Lake/Big Cliff**	-	-	-	-	-	-	-	-	-	-	-	561	1,031	-	-	528	-	-	-	-
18			**Dworshak**	91,942	-	-	-	-	-	-	-	427	-	988	9,405	713	73	2,480	-	-	-	-	-
19			**Green Peter/Foster**	-	-	-	-	-	-	-	-	-	-	-	226	-	-	87	28	-	-	-	-
20			**Hills Creek**	-	-	-	-	-	-	-	-	-	-	-	2,667	46	-	12	142	-	-	-	-
21			**Ice Harbor**	-	-	-	20,700	21	-	-	-	78	-	371	11,279	-	-	3,640	115	-	-	-	-
22			**John Day**	-	-	-	-	-	-	-	-	-	-	8,493	9,899	3,060	601	530	6,179	-	-	-	-
23			**Libby**	54,946	1,151	95,156	50,317	11,059	-	-	-	302	-	14,781	6,222	-	-	192	16	-	-	-	-
24			**Little Goose**	-	-	-	-	-	33,243	16,335	47	-	-	1,200	9,750	-	-	3,201	66	-	-	-	-
25			**Lookout Dam**	-	-	-	-	-	-	-	-	-	-	72	5,233	7,927	-	17	294	-	-	-	-
26			**Lost Creek**	-	-	-	-	14,201	380	-	-	31	-	94	171	-	-	7	-	-	-	-	-
27			**Lower Granite**	122,372	-	-	-	-	40,611	-	-	1,757	-	-	5,508	393	-	6,833	-	-	-	-	-
28			**Lower Monument**	-	-	-	-	-	-	-	40,925	-	-	2,150	6,786	527	285	2,332	89	-	-	-	-
29			**McNary**	-	-	-	-	351	-	-	-	30	-	16	7,900	550	4,080	565	1,011	-	-	-	-
30			**The Dalles**	7,240	-	-	-	-	-	-	-	-	-	-	18,751	23,395	2,030	-	-	-	-	-	-
31			**Corps of Engineers Subtotal:**	276,500	1,151	95,156	71,017	47,693	98,356	53,914	156,933	272,487	87,793	93,604	399,543	172,785	130,722	468,287	319,502	-	-	-	-
32		**Lower Snake Fish & Wildlife**	**Lower Snake Fish and Wildlife**	-	-	-	-	-	-	-	-	9,472	-	203,584	17,337	4	379	1,545	122	-	-	-	-
33			**Lower Snake Fish & Wildlife Subtotal:**	-	-	-	-	-	-	-	-	9,472	-	203,584	17,337	4	379	1,545	122	-	-	-	-
34		**Appropriation Subtotal:**		320,625	1,151	95,156	94,671	124,206	98,356	104,209	256,717	297,765	182,438	356,108	560,023	188,904	133,103	473,717	322,788	-	-	-	-
35	**Bond**	**BPA Borrowing**	**Bureau Direct**	77,000	-	-	-	-	201,000	211,000	97,000	19,000	25,000	-	25,000	354,857	298,721	89,458	76,114	-	-	-	-
36			Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38			**Conservation**	15,000	105,000	-	20,000	9,000	-	-	-	6,000	142,000	70,000	50,000	39,000	188,000	95,000	-	-	-	-	-
39			Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41			**Construction (AS)**	14,950	5,000	10,500	15,150	-	5,250	21,410	15,750	15,800	12,700	-	-	-	-	-	-	-	-	-	-
42			Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44			**Fish and Wildlife**	-	-	-	-	-	46,000	-	-	31,000	23,000	20,000	-	80,000	85,000	82,980	60,000	14,000	-	-	-
45			Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47			**Replacements**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	351,766	768,307	814,943	912,903	601,512
48			Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50			**BPA Borrowing Subtotal:**	106,950	110,000	10,500	35,150	9,000	252,250	232,410	112,750	71,800	202,700	90,000	75,000	473,857	571,721	267,438	487,880	782,307	814,943	912,903	601,512
51		**Make Whole Call**	**Discounts**	-	-	-	-	-	-	-	-	-	-	-	-	(661)	(1,761)	(2,562)	(13,886)	-	-	-	-
52			**Premiums**	-	-	-	-	-	-	-	-	-	-	-	261	-	-	-	-	-	-	-	-
53			**Make Whole Call Subtotal:**	-	-	-	-	-	-	-	-	-	-	-	261	(661)	(1,761)	(2,562)	(13,886)	-	-	-	-
54		**Bond Subtotal:**		106,950	110,000	10,500	35,150	9,000	252,250	232,410	112,750	71,800	202,700	90,000	75,000	474,518	573,482	270,000	501,766	782,307	814,943	912,903	601,512
55	**Irrigation**	**Irrigation Assistance**	**Irrigation Assistance**	52,547	52,108	60,954	51,391	27,564	57,225	24,598	12,232	14,391	12,971	15,217	13,751	20,939	6,196	11,275	4,065	1,996	10,658	-	4,347
56			**Irrigation Assistance Subtotal:**	52,547	52,108	60,954	51,391	27,564	57,225	24,598	12,232	14,391	12,971	15,217	13,751	20,939	6,196	11,275	4,065	1,996	10,658	-	4,347
57		**Irrigation Subtotal:**		52,547	52,108	60,954	51,391	27,564	57,225	24,598	12,232	14,391	12,971	15,217	13,751	20,939	6,196	11,275	4,065	1,996	10,658	-	4,347
58	**Grand Total:**			$480,122	$163,259	$166,610	$181,212	$160,770	$407,831	$361,217	$381,699	$383,956	$398,109	$461,324	$648,774	$684,361	$712,781	$754,993	$828,619	$784,303	$825,601	$912,903	$605,858

TABLE 12F:
Summary of Amortization
October 1, 2013 - September 30, 2017 Cost Evaluation Period
($000s) (FY 2017)

	A	B	C	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ
1	**Obligation Type**	**General Project**	**Specific Project**	**2034**	**2035**	**2036**	**2037**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**	**2046**	**2047**	**2048**	**2049**	**2050**	**2051**	**2052**	**2053**
2	**Appropriation**	**Bureau of Reclamation**	**Boise**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3			**Columbia Basin**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4			**Columbia Basin 3rd Powerhouse**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5			**Hungry Horse Dam**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6			**Minidoka/Palisades**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7			**RRP - Green Springs**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8			**Yakima Chandler/Kenniwick**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9			**Yakima Roza**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10			**Bureau of Reclamation Subtotal:**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11		**Corps of Engineers**	**Albeni Falls**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12			**Bonneville 2nd Powerhouse**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13			**Bonneville Dam**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14			**Chief Joseph**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15			**Columbia River Fish Mitigation**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16,395	50,000	50,000	50,000	50,000
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:**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16,395	50,000	50,000	50,000	50,000
32		**Lower Snake Fish & Wildlife**	**Lower Snake Fish and Wildlife**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33			**Lower Snake Fish & Wildlife Subtotal:**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34		**Appropriation Subtotal:**		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16,395	50,000	50,000	50,000	50,000
35	**Bond**	**BPA Borrowing**	**Bureau Direct**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36			Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38			**Conservation**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39			Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41			**Construction (AS)**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42			Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44			**Fish and Wildlife**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45			Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47			**Replacements**	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962
48			Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50			**BPA Borrowing Subtotal:**	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962
51		**Make Whole Call**	**Discounts**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52			**Premiums**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
53			**Make Whole Call Subtotal:**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54		**Bond Subtotal:**		229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962
55	**Irrigation**	**Irrigation Assistance**	**Irrigation Assistance**	-	7,861	28,920	16,065	-	14,229	-	-	73,659	-	-	11,727	-	-	-	-	-	-	-	-
56			**Irrigation Assistance Subtotal:**	-	7,861	28,920	16,065	-	14,229	-	-	73,659	-	-	11,727	-	-	-	-	-	-	-	-
57		**Irrigation Subtotal:**		-	7,861	28,920	16,065	-	14,229	-	-	73,659	-	-	11,727	-	-	-	-	-	-	-	-
58	**Grand Total:**			$229,962	$237,823	$258,882	$246,027	$229,962	$244,191	$229,962	$229,962	$303,621	$229,962	$229,962	$241,689	$229,962	$229,962	$229,962	$246,357	$279,962	$279,962	$279,962	$279,962

TABLE 12F:
Summary of Amortization
October 1, 2013 - September 30, 2017 Cost Evaluation Period
($000s) (FY 2017)

	A	B	C	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF
1	**Obligation Type**	**General Project**	**Specific Project**	**2054**	**2055**	**2056**	**2057**	**2058**	**2059**	**2060**	**2061**	**2062**	**2063**	**2064**	**2065**	**2066**	**2067**	**Total**
2	**Appropriation**	**Bureau of Reclamation**	**Boise**	-	-	-	-	64	-	-	-	-	-	-	-	-	-	4,425
3			**Columbia Basin**	-	-	-	-	835	1,338	-	-	-	-	-	-	-	-	98,385
4			**Columbia Basin 3rd Powerhouse**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	455,389
5			**Hungry Horse Dam**	-	-	-	-	76	60	-	-	-	-	-	-	-	-	13,271
6			**Minidoka/Palisades**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50,960
7			**RRP - Green Springs**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11,148
8			**Yakima Chandler/Kenniwick**	-	-	-	-	-	15	-	-	-	-	-	-	-	-	848
9			**Yakima Roza**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
10			**Bureau of Reclamation Subtotal:**	-	-	-	-	975	1,414	-	-	-	-	-	-	-	-	634,439
11		**Corps of Engineers**	**Albeni Falls**	-	-	-	-	-	57	-	-	-	-	-	-	-	-	3,090
12			**Bonneville 2nd Powerhouse**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	366,796
13			**Bonneville Dam**	-	-	-	-	14,609	-	-	-	-	-	-	-	-	-	151,726
14			**Chief Joseph**	-	-	-	-	3,500	-	-	-	-	-	-	-	-	-	238,256
15			**Columbia River Fish Mitigation**	50,000	50,000	50,000	-	36,554	-	-	-	-	-	-	-	-	-	1,590,774
16			**Cougar**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16,696
17			**Detroit Lake/Big Cliff**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,120
18			**Dworshak**	-	-	-	-	10	-	-	-	-	-	-	-	-	-	106,037
19			**Green Peter/Foster**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	340
20			**Hills Creek**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,867
21			**Ice Harbor**	-	-	-	-	14	-	-	-	-	-	-	-	-	-	36,219
22			**John Day**	-	-	-	-	-	1,548	-	-	-	-	-	-	-	-	30,309
23			**Libby**	-	-	-	-	1,567	-	-	-	-	-	-	-	-	-	235,708
24			**Little Goose**	-	-	-	-	13	-	-	-	-	-	-	-	-	-	63,856
25			**Lookout Dam**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13,543
26			**Lost Creek**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14,884
27			**Lower Granite**	-	-	-	-	24	-	-	-	-	-	-	-	-	-	177,498
28			**Lower Monument**	-	-	-	-	9	-	-	-	-	-	-	-	-	-	53,104
29			**McNary**	-	-	-	-	215	-	-	-	-	-	-	-	-	-	14,718
30			**The Dalles**	-	-	-	-	1,651	-	-	-	-	-	-	-	-	-	53,067
31			**Corps of Engineers Subtotal:**	50,000	50,000	50,000	-	58,167	1,605	-	-	-	-	-	-	-	-	3,171,609
32		**Lower Snake Fish & Wildlife**	**Lower Snake Fish and Wildlife**	-	-	-	-	74	-	-	-	-	-	-	-	-	-	232,518
33			**Lower Snake Fish & Wildlife Subtotal:**	-	-	-	-	74	-	-	-	-	-	-	-	-	-	232,518
34		**Appropriation Subtotal:**		50,000	50,000	50,000	-	59,216	3,018	-	-	-	-	-	-	-	-	4,038,566
35	**Bond**	**BPA Borrowing**	**Bureau Direct**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,474,151
36			Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38			**Conservation**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	739,000
39			Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41			**Construction (AS)**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	116,510
42			Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44			**Fish and Wildlife**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	441,980
45			Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47			**Replacements**	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	11,268,138
48			Principal Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49			Principal Accrual Reversal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50			**BPA Borrowing Subtotal:**	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	14,039,779
51		**Make Whole Call**	**Discounts**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(18,869)
52			**Premiums**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	261
53			**Make Whole Call Subtotal:**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(18,608)
54		**Bond Subtotal:**		229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	229,962	14,021,170
55	**Irrigation**	**Irrigation Assistance**	**Irrigation Assistance**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	606,885
56			**Irrigation Assistance Subtotal:**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	606,885
57		**Irrigation Subtotal:**		-	-	-	-	-	-	-	-	-	-	-	-	-	-	606,885
58	**Grand Total:**			$279,962	$279,962	$279,962	$229,962	$289,178	$232,980	$229,962	$229,962	$229,962	$229,962	$229,962	$229,962	$229,962	$229,962	$18,666,621

13. REPAYMENT THEORY AND OPERATION

13.1 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.

13.2 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.

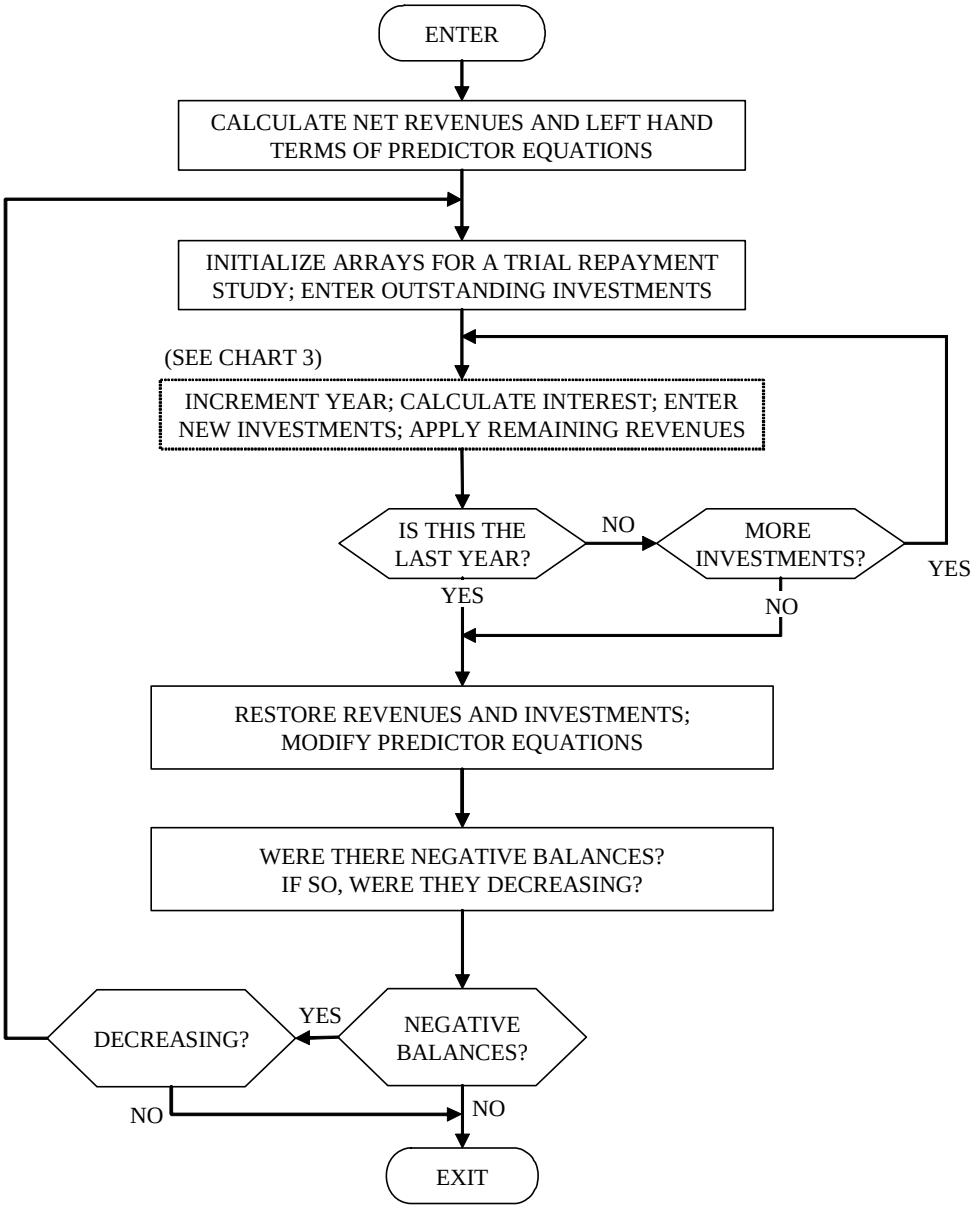
Investment equation: The payments on each investment are less than or equal to the principle of that investment (and equal to the principle of that investment after the investment is due).

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.

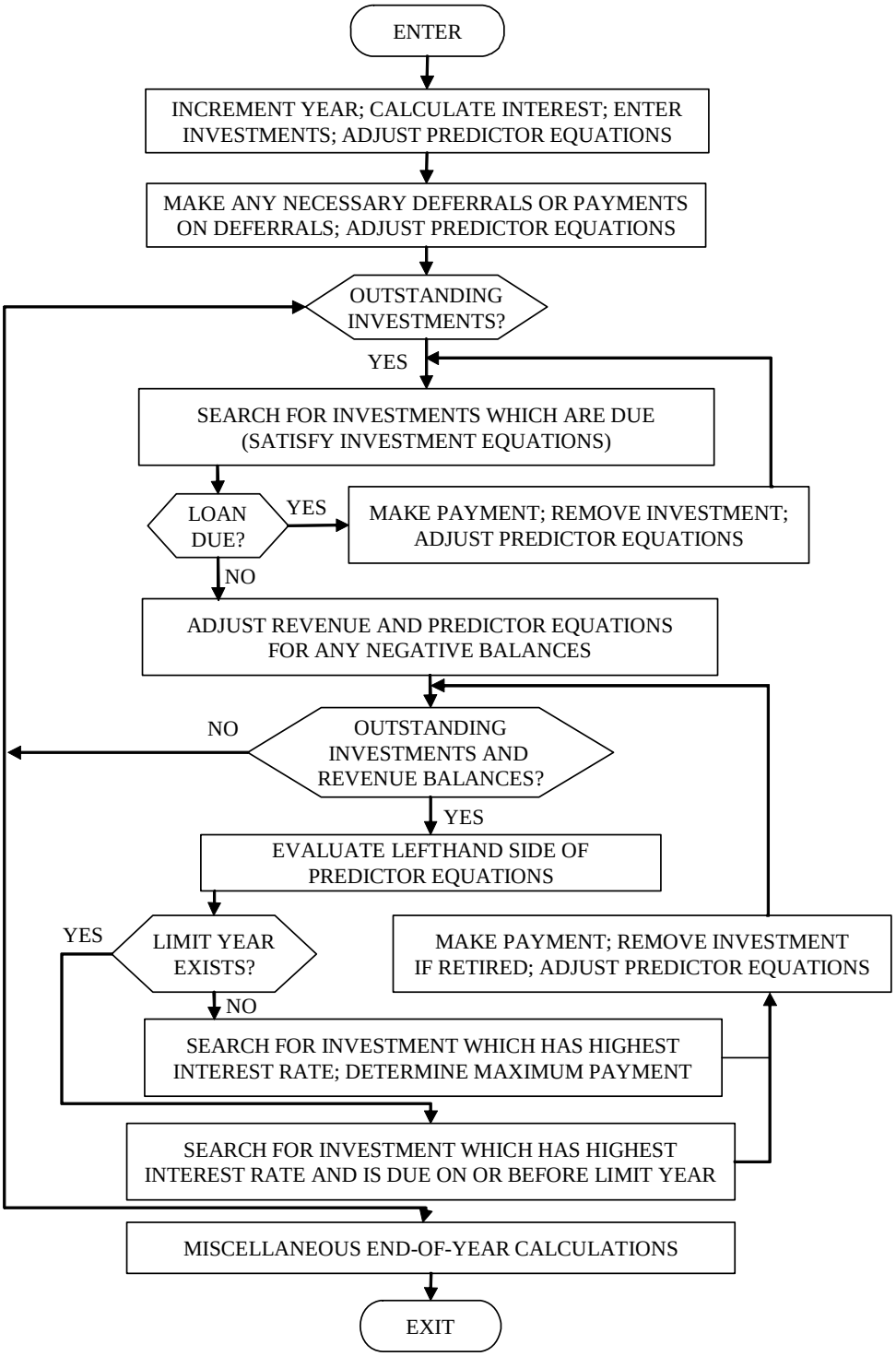
13.3 Bond Rollover Feature

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)



BONNEVILLE POWER ADMINISTRATION
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