

BP-22 Rate Proceeding

Final Proposal

Power Revenue Requirement Study Documentation

BP-22-FS-BPA-02A

July 2021



POWER REVENUE REQUIREMENT STUDY DOCUMENTATION

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COMMONLY USED ACRONYMS AND SHORT FORMS

AAC	Anticipated Accumulation of Cash
ACNR	Accumulated Calibrated Net Revenue
ACS	Ancillary and Control Area Services
AF	Advance Funding
AFUDC	Allowance for Funds Used During Construction
aMW	average megawatt(s)
ANR	Accumulated Net Revenues
ASC	Average System Cost
BAA	Balancing Authority Area
BiOp	Biological Opinion
BPA	Bonneville Power Administration
BPAP	Bonneville Power Administration Power
BPAT	Bonneville Power Administration Transmission
Bps	basis points
Btu	British thermal unit
CAISO	California Independent System Operator
CIP	Capital Improvement Plan
CIR	Capital Investment Review
CDQ	Contract Demand Quantity
CGS	Columbia Generating Station
CHWM	Contract High Water Mark
CNR	Calibrated Net Revenue
COB	California-Oregon border
COE	U.S. Army Corps of Engineers
COI	California-Oregon Intertie
Commission	Federal Energy Regulatory Commission
Corps	U.S. Army Corps of Engineers
COSA	Cost of Service Analysis
COU	consumer-owned utility
Council	Northwest Power and Conservation Council (see also "NPCC")
COVID-19	coronavirus disease 2019
CP	Coincidental Peak
CRAC	Cost Recovery Adjustment Clause
CRFM	Columbia River Fish Mitigation
CSP	Customer System Peak
CT	combustion turbine
CWIP	Construction Work in Progress
CY	calendar year (January through December)
DD	Dividend Distribution
DDC	Dividend Distribution Clause
dec	decrease, decrement, or decremental
DERBS	Dispatchable Energy Resource Balancing Service
DFS	Diurnal Flattening Service
DNR	Designated Network Resource

DOE	Department of Energy
DOI	Department of Interior
DSI	direct-service industrial customer or direct-service industry
DSO	Dispatcher Standing Order
EE	Energy Efficiency
EESC	EIM Entity Scheduling Coordinator
EIM	Energy imbalance market
EIS	Environmental Impact Statement
EN	Energy Northwest, Inc.
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
FERC	Federal Energy Regulatory Commission
FMM-IIE	Fifteen Minute Market – Instructed Imbalance Energy
FOIA	Freedom of Information Act
FORS	Forced Outage Reserve Service
FPS	Firm Power and Surplus Products and Services
FPT	Formula Power Transmission
FRP	Financial Reserves Policy
F&W	Fish & Wildlife
FY	fiscal year (October through September)
G&A	general and administrative (costs)
GARD	Generation and Reserves Dispatch (computer model)
GDP	Gross Domestic Product
GMS	Grandfathered Generation Management Service
GSP	Generation System Peak
GSR	Generation Supplied Reactive
GRSPs	General Rate Schedule Provisions
GTA	General Transfer Agreement
GWh	gigawatthour
HLH	Heavy Load Hour(s)
HOSS	Hourly Operating and Scheduling Simulator (computer model)
HYDSIM	Hydrosystem Simulator (computer model)
Hz	Hertz
IE	Eastern Intertie
IIE	Instructed Imbalance Energy
IM	Montana Intertie
inc	increase, increment, or incremental
IOU	investor-owned utility
IP	Industrial Firm Power
IPR	Integrated Program Review
IR	Integration of Resources

IRD	Irrigation Rate Discount
IRM	Irrigation Rate Mitigation
IRPL	Incremental Rate Pressure Limiter
IS	Southern Intertie
kcfs	thousand cubic feet per second
KSI	key strategic initiative
kW	kilowatt
kWh	kilowatthour
LAP	Load Aggregation Point
LDD	Low Density Discount
LGIA	Large Generator Interconnection Agreement
LLH	Light Load Hour(s)
LMP	Locational Marginal Price
LPP	Large Project Program
LT	long term
LTF	Long-term Firm
Maf	million acre-feet
Mid-C	Mid-Columbia
MMBtu	million British thermal units
MNR	Modified Net Revenue
MRNR	Minimum Required Net Revenue
MW	megawatt
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
NOB	Nevada-Oregon border
NORM	Non-Operating Risk Model (computer model)
NP-15	North of Path 15
NPCC	Northwest Power and Conservation Council
NPV	net present value
NR	New Resource Firm Power
NRFS	NR Resource Flattening Service
NRU	Northwest Requirements Utilities
NT	Network Integration
NTSA	Non-Treaty Storage Agreement
NUG	non-utility generation
NWPA	Northwest Power Act/Pacific Northwest Electric Power Planning and Conservation Act
NWPP	Northwest Power Pool

O&M	operations and maintenance
OATI	Open Access Technology International, Inc.
OATT	Open Access Transmission Tariff
OCBR	Operational Controls for Balancing Reserves
OS	Oversupply
OY	operating year (August through July)
PDCI	Pacific DC Intertie
PF	Priority Firm Power
PFp	Priority Firm Public
PFx	Priority Firm Exchange
PMA	Power Marketing Administration
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
POR	point of receipt
PPC	Public Power Council
PRSC	Participating Resource Scheduling Coordinator
PS	Power Services
PSC	power sales contract
PSW	Pacific Southwest
PTP	Point-to-Point
PUD	public or people's utility district
RAM	Rate Analysis Model (computer model)
RBC	Reliability-based control
RCD	Regional Cooperation Debt
RD	Regional Dialogue
RDC	Reserves Distribution Clause
REC	Renewable Energy Certificate
Reclamation	U.S. Bureau of Reclamation
REP	Residential Exchange Program
REPSIA	REP Settlement Implementation Agreement
RevSim	Revenue Simulation Model
RFA	Revenue Forecast Application (database)
RHWM	Rate Period High Water Mark
ROD	Record of Decision
RPSA	Residential Purchase and Sale Agreement
RR	Resource Replacement
RRS	Resource Remarketing Service
RSC	Resource Shaping Charge
RSS	Resource Support Services
RT1SC	RHWM Tier 1 System Capability
RTD-IIE	Real-Time Dispatch – Instructed Imbalance Energy
RTIEO	Real-Time Imbalance Energy Offset
SCD	Scheduling, System Control, and Dispatch Service

SCS	Secondary Crediting Service
SDD	Short Distance Discount
SILS	Southeast Idaho Load Service
Slice	Slice of the System (product)
SMCR	Settlements, Metering, and Client Relations
SP-15	South of Path 15
T1SFCO	Tier 1 System Firm Critical Output
TC	Tariff Terms and Conditions
TCMS	Transmission Curtailment Management Service
TDG	Total Dissolved Gas
TGT	Townsend-Garrison Transmission
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	Transmission Services
TSS	Transmission Scheduling Service
UAI	Unauthorized Increase
UFE	unaccounted for energy
UFT	Use of Facilities Transmission
UIC	Unauthorized Increase Charge
UIE	Uninstructed Imbalance Energy
ULS	Unanticipated Load Service
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish & Wildlife Service
VER	Variable Energy Resource
VERBS	Variable Energy Resource Balancing Service
VOR	Value of Reserves
VR1-2014	First Vintage Rate of the BP-14 rate period (PF Tier 2 rate)
VR1-2016	First Vintage Rate of the BP-16 rate period (PF Tier 2 rate)
WECC	Western Electricity Coordinating Council
WSPP	Western Systems Power Pool

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1. GENERATION REVENUE REQUIREMENTS

1.1 Introduction

This chapter documents how Bonneville Power Administration's (BPA) annual generation revenue requirements are determined. Two tables are presented for each year of the rate period. On the first table, revenue requirements 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-22-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 Columbia Generating Station (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. In 2019, Congress acted to compensate the Spokane Tribe of Indians for lands inundated by the construction of the Grand Coulee Dam. The Spokane Tribe of Indians of the Spokane Reservation Equitable Compensation Act (Public Law 116-100) directs BPA to pay an amount equal to a fixed percentage of the annual Colville Settlement Agreement payments. *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, hedging/mitigation, and the PNCA headwater benefit which refers to the costs associated with benefits BPA receives from storage projects in Canada. *Id.*

Augmentation Power Purchases (Line 7). This category includes augmentation power purchase costs reflecting the energy that BPA purchases in order to satisfy its obligation to meet the load requirements for public utilities. *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. *Id.*

Depreciation (Line 16). 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 17). Amortization is the annual capital recovery expense associated with two classes of assets. One is non-revenue-producing Federal assets, e.g. legacy energy efficiency investments and fish & wildlife investments. The other encompasses the amortization of non-Federal assets. This includes Energy Northwest's Columbia Generating Station (CGS) and terminated projects 1 and 3, the terminated Northern Wasco contract, and Lewis County's Cowlitz Falls facility. It also includes amortization and accretion expenses associated with the CGS decommissioning trust fund. *Id.*

Accretion (Line 18). Accretion is the annual reduction in the asset retirement liability for the Columbia Generation Station. *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. *Id.*

Premiums/Discounts (Line 26). When a bond repaid earlier than its maturity date, the transaction may incur a premium or discount which maybe recognized in the year of the repayment.

Non-Federal Interest (Line 27). This line recognizes the interest component of the annual credits associated with the prepay program. *Id.* It also includes the interest on non-Federal debt. *Id.* at Chapter 8.

Amortization of Non-Federal Premiums/Discounts (Line 28). This line recognizes the straight-line amortization of any premiums or discounts incurred on non-Federal bond refinancings. *Id.*

Amortization of Cost of Issuance (Line 29). This line recognizes the straight-line amortization of the cost of issuance associated with non-Federal bond refinancings. *Id.*

Allowance for Funds Used During Construction (AFUDC) (Line 30). AFUDC is a credit against interest costs on long-term debt (Line 25). 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.* at Chapter 3.

Interest Credit on Cash Reserves (Line 31). 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.

Interest Income on Decommissioning Trust (Line 32). Interest is earned on the CGS decommissioning trust. Beginning in FY 2020, BPA will begin recording this interest income on the income statement *Id.*, Chapter 5.

Other Expense and (Income)(Gains/Losses) (Line 33). Beginning in FY 2020, BPA will begin recording the realized gains and losses on the CGS decommissioning trust. *Id.*, Chapter 5.

Total Other Expense and (Income) (Line 34). This is the sum of lines 23 through 33.

Total Expenses (Line 36). Total Expenses are the sum of Total Operating Expenses (Line 19) and Total Other Expense and (Income) (Line 34).

Minimum Required Net Revenues (Line 38). 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 39). 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, as discussed in the Power and Transmission Risk Study, BP-22-E-BPA-05, § 4.2.2.2.

Planned Net Revenues, Total (Line 40). Planned Net Revenues is the sum of lines 38 and 39.

Total Revenue Requirement (Line 42). Total Revenue Requirement is the sum of Total Expenses (Line 36) and Total Planned Net Revenues (Line 40).

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 28) to be negative. The MRNR amount determined in the Statement of Cash Flows is incorporated in the Income Statement (Line 38).

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

Depreciation and Amortization (Line 5). Depreciation and Amortization are from the Income Statement (Table 1A), lines 17 and 18 respectively. They are included in computing Cash Provided By Operating Activities (Line 14) because they are non-cash expenses of the FCRPS.

Non-Cash Expenses (Line 6). This is the sum of two lines on Table 1A, Interest Income on the Decommissioning Trust (line 32) and Other Expense and (Income) (line 33). Both are credited to the trust fund and never affect the Bonneville Fund. This line also includes a portion of the non-Federal interest expense from Table 1A, line 27.

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). These revenues are associated with the credits of 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 Contribution to Decommissioning Trust (Line 9). Prior to FY 2020, contributions to the CGS decommissioning trust was included on the income statement as part of the CGS O&M component of Operating Generation Resources. Beginning with FY 2020, the contributions will no longer appear on the income statement. They will be treated as a balance sheet transaction as a cash contribution to the trust.

Cash Free Up (Line 10). This represents cash coming to Power for the repayment of debt service reassignment related bonds. These bonds will be refinanced which will free up the cash for use to repay Federal bonds.

Cash Provided By Operating Activities (Line 11). Cash Provided By Current Operations, the sum of Lines 2 through 13, is available for the year to satisfy cash requirements.

Investment in Federal Utility Plant (Including AFUDC) (Line 18). 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 Fish and Wildlife (Line 19). 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 20). Cash Used for Investment Activities is the sum of Lines 15 and 16.

Increase in Treasury Borrowings (Line 23). 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 in the fiscal year, excluding deferred borrowing. *Id.*, Chapter 7.

Repayment of Treasury Borrowings (Line 24). 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 25). Increase in Congressional appropriations transferred to BPA used for the Columbia River Fish Mitigation Project. *Id.*, Chapter 4.

Repayment of Federal Construction Appropriations (Line 26). Repayment of Capital Appropriations represents projected amortization of outstanding COE and Reclamation appropriations as determined in the generation repayment studies. *Id.*, Chapter 6.

Repayment of Non-Federal Obligations (Line 27). This represents the principal repayment of the non-Federal debt including short-term lines of credit issued in the prior year.

Customer Proceeds (Line 28). The prepay funds are a source of cash for capital investment. This line recognizes the drawdown of any prepay funds as they are used to finance capital investments. *See* Chapter 3.

Payment of Irrigation Assistance (Line 29). 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 30). Cash Provided by Borrowing and Appropriations is the sum of Lines 23 through 29. 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 32). Annual Increase (Decrease) in Cash is the sum of Lines 14, 20, and 30 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 34). PNRR reflects the amounts included in revenue requirements to meet BPA's risk mitigation objectives from Table 1A, Line 36.

Total Annual Increase (Decrease) in Cash (Line 36). Total Annual Increase (Decrease) in Cash is the sum of Lines 32 and 34. 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	B
	<u>2022</u>	<u>2023</u>
1 OPERATING EXPENSES		
2 POWER SYSTEM GENERATION RESOURCES		
3 OPERATING GENERATION RESOURCES	706,771	731,010
4 OPERATING GENERATION SETTLEMENT PAYMENTS	27,749	27,500
5 NON-OPERATING GENERATION	2,341	2,375
6 CONTRACTED POWER PURCHASES	90,690	88,229
7 AUGMENTATION POWER PURCHASES	-	-
8 EXCHANGES & SETTLEMENTS	265,288	265,315
9 RENEWABLE GENERATION	34,418	29,467
10 GENERATION CONSERVATION	121,267	121,267
11 POWER NON-GENERATION OPERATIONS	79,507	82,056
12 PS TRANSMISSION ACQUISITION AND ANCILLARY SERVICES	211,228	209,388
13 F&W/USF&W/PLANNING COUNCIL	292,450	288,627
14 GENERAL AND ADMINISTRATIVE/SHARED SERVICES	85,471	86,515
15 OTHER INCOME, EXPENSES AND ADJUSTMENTS	-	-
16 DEPRECIATION	140,949	144,155
17 AMORTIZATION	320,900	317,320
18 ACCRETION	<u>36,754</u>	<u>38,363</u>
19 TOTAL OPERATING EXPENSES	2,415,782	2,431,585
20		
21 OTHER EXPENSE AND (INCOME)		
22 INTEREST		
23 APPROPRIATED FUNDS	38,411	38,609
24 CAPITALIZATION ADJUSTMENT	(45,937)	(45,937)
25 BONDS ISSUED TO U.S. TREASURY	43,986	39,113
26 BOND PREMIUMS/DISCOUNTS	767	1,768
27 NON-FEDERAL INTEREST	236,318	228,327
28 AMORTIZATION OF NON-FEDERAL PREMIUMS/DISCOUNTS	(7,562)	(7,491)
29 AMORTIZATION OF COST OF ISSUANCE	169	169
30 ALLOWANCE FOR FUNDS USED DURING CONSTRUCTION	(11,005)	(11,469)
31 INTEREST CREDIT ON CASH RESERVES	(1,469)	(1,424)
32 INTEREST INCOME ON DECOMMISSIONING TRUST	(9,857)	(10,198)
33 OTHER INCOME (NET)	<u>(3,399)</u>	<u>(3,516)</u>
34 TOTAL OTHER EXPENSE AND (INCOME)	240,422	227,951
35		
36 TOTAL EXPENSES	2,656,204	2,659,536
37		
38 MINIMUM REQUIRED NET REVENUE 1/	67,831	104,443
39 PLANNED NET REVENUE FOR RISK	31,000	31,000
40 PLANNED NET REVENUE, TOTAL (34+35)	98,831	135,443
41		
42 TOTAL REVENUE REQUIREMENT	2,755,035	2,794,978

1/ See note on Statement of Cash Flows

Table 1B

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

	<u>A</u>	<u>B</u>
	<u>2022</u>	<u>2023</u>
1 CASH FROM OPERATING ACTIVITIES		
2 MINIMUM REQUIRED NET REVENUE 1/	67,831	104,443
3 NON-CASH ITEMS:		
4 NON-FEDERAL INTEREST	7,854	6,799
5 DEPRECIATION AND AMORTIZATION	461,849	461,474
6 ACCRETION	36,754	38,363
7 NON-CASH EXPENSES (INTEREST INCOME & GAINS/LOSSES)	64,670	59,440
8 CAPITALIZATION ADJUSTMENT	(45,937)	(45,937)
9 NON-CASH REVENUES	(30,600)	(30,600)
10 AMORTIZATION OF NON-FEDERAL PREMIUMS/DISCOUNTS	(7,562)	(7,491)
11 AMORTIZATION OF COST OF ISSUANCE	169	169
12 CASH CONTRIBUTION TO DECOMMISSIONING TRUST	(4,472)	(4,651)
13 CASH FREE UP	<u>16,510</u>	<u>16,865</u>
14 CASH PROVIDED BY OPERATING ACTIVITIES	567,066	598,873
15		
16 CASH FROM INVESTMENT ACTIVITIES		
17 INVESTMENT IN:		
18 UTILITY PLANT (INCLUDING AFUDC)	(290,258)	(296,350)
19 FISH & WILDLIFE	<u>(43,000)</u>	<u>(43,000)</u>
20 CASH USED FOR INVESTMENT ACTIVITIES	(333,258)	(339,350)
21		
22 CASH FROM BORROWING AND APPROPRIATIONS:		
23 INCREASE IN BONDS ISSUED TO U.S. TREASURY	274,090	291,140
24 REPAYMENT OF BONDS ISSUED TO U.S. TREASURY	(495,001)	(525,000)
25 INCREASE IN FEDERAL CONSTRUCTION APPROPRIATIONS	19,168	8,210
26 REPAYMENT OF FEDERAL CONSTRUCTION APPROPRIATIONS	0	0
27 REPAYMENT OF NON-FEDERAL OBLIGATIONS	(16,005)	(21,111)
28 CUSTOMER PROCEEDS	0	0
29 PAYMENT OF IRRIGATION ASSISTANCE	<u>(16,060)</u>	<u>(12,762)</u>
30 CASH PROVIDED BY BORROWING AND APPROPRIATIONS	(233,808)	(259,523)
31		
32 ANNUAL INCREASE (DECREASE) IN CASH	0	0
33		
34 PLANNED NET REVENUE FOR RISK	31,000	31,000
35		
36 TOTAL ANNUAL INCREASE (DECREASE) IN CASH	31,000	31,000

1/ Line 36 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 32) are zero.

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2. COST ANALYSES

2.1 Introduction

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

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

2.2 Annual Capital-Related Cost Components of COSA Resource Pools

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

2.3 Interbusiness Unit Embedded Costs

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

COE and Reclamation Transmission: O&M is estimated for each project based on the average of the last 3 historical years. O&M is functionalized based on the net plant at each project with transmission facilities. Depreciation is estimated as identified in Chapter 4. MRNR is allocated based on the transmission net plant investment identified in Chapter 4 and the ratio of MRNR to total Planned Net Revenues.

Table 2A

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

FY 2022	A	B	C		D	E	F
	<u>Investment Base</u>	<u>Net Interest</u>	<u>Net Revenues</u>		<u>COE/USBR</u>	<u>All Other</u>	<u>Total Generation</u>
1. GENERATION COSTS							
2. FEDERAL BASE SYSTEM				Equivalent Annual Costs	404,185	99,607	503,792
3. HYDRO		25,574	80,093	Percent	80%	20%	100%
4. FISH AND WILDLIFE	246,459	3,248	10,175				
5. TROJAN				Net Interest Expense	25,574	6,302	31,876
6. WNP #1							
7. CGS				MRNR	54,420	13,411	67,831
8. WNP #3							
9. SYSTEM AUGMENTATION				PNRR	25,673	6,327	32,000
10. BALANCING POWER PURCHASES							
11. TOTAL FEDERAL BASE SYSTEM	246,459	28,822	90,268				
12. NEW RESOURCES							
13. IDAHO FALLS							
14. COWLITZ FALLS							
15. OTHER LONG-TERM POWER PURCHASES							
16. TOTAL NEW RESOURCES							
17. RESIDENTIAL EXCHANGE							
18. CONSERVATION	195,104	2,572	8,054				
19. OTHER GENERATION COSTS							
20. BPA PROGRAMS	36,552	482	1,509				
21. WNP #3 PLANT							
22. TOTAL OTHER GENERATION COSTS	36,552	482	1,509				
23. TOTAL GENERATION COSTS	478,115	31,876	99,831				
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		31,876	99,831				

Table 2A

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

FY 2023

	A	B	C		D	E	F
	<u>Investment Base</u>	<u>Net Interest</u>	<u>Net Revenues</u>		<u>Hydro</u>	<u>All Other</u>	<u>Total Generation</u>
1. GENERATION COSTS							
2. FEDERAL BASE SYSTEM				Equivalent Annual Costs	445,359	93,174	538,533
3. HYDRO		21,327	112,837	Percent	83%	17%	100%
4. FISH AND WILDLIFE	268,316	2,611	13,814				
5. TROJAN				Net Interest Expense	21,327	4,462	25,789
6. WNP #1							
7. CGS				MRNR	86,373	18,070	104,443
8. WNP #3							
9. SYSTEM AUGMENTATION				PNRR	26,464	5,536	32,000
10. BALANCING POWER PURCHASES							
11. TOTAL FEDERAL BASE SYSTEM	268,316	23,938	126,651				
12. NEW RESOURCES							
13. IDAHO FALLS							
14. COWLITZ FALLS							
15. OTHER LONG-TERM POWER PURCHASES							
16. TOTAL NEW RESOURCES							
17. RESIDENTIAL EXCHANGE							
18. CONSERVATION	154,959	1,508	7,978				
19. OTHER GENERATION COSTS							
20. BPA PROGRAMS	35,241	343	1,814				
21. WNP #3 PLANT							
22. TOTAL OTHER GENERATION COSTS	35,241	343	1,814				
23. TOTAL GENERATION COSTS	458,516	25,789	136,443				
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		25,789	136,443				

Table 2B

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

	A	B	C	D	E	F	G
	AVG LIFE	COMP PLANT 2022	WT AV INT RATE	2022 EQ ANN COSTS	COMP PLANT 2023	WT AV INT RATE	2023 EQ ANN COSTS
1 Corps of Engineers/Bureau of Reclamat	50	10,360,211	3.02%	\$404,185	10,639,208	3.40%	\$445,359
2 BPA F&W	15	525,887	3.56%	\$45,845	542,134	3.56%	\$47,285
3 PBL General Plant	17	78,977	1.67%	5,414	84,292	1.63%	4,979
4 CONSERVATION	12	484,750	2.88%	<u>48,348</u>	484,750	2.88%	<u>40,909</u>
5 Sub-Total				99,607			93,174
	WTD LIFE	INV. BASE AS OF 2022	ANNUAL DEPR/AMORT	AVG LIFE	INV. BASE AS OF 2023	ANNUAL DEPR/AMORT	
6 OFFICE FURNITURE & FIXTURES							
7 DATA PROCESSING EQUIPMENT							
8 DATA PROCESSING SOFTWARE							
9 TOTAL GENERAL PLANT - PBL CONSERVATION	17	78,977	4,685	20	84,292	4,222	
10 LEGACY							
11 CONAUG							
12 CONSERVATION ACQUISITION	12	484,750	42,078	15	484,750	32,975	

Table 2C

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

	A	B	C	D	E	F
	Average Investment <u>2022</u>	Percent	O&M <u>2022</u>	Average Investment <u>2023</u>	Percent	O&M <u>2023</u>
1 BOISE						
2 GENERATION		100.00%	5,576		100.00%	5,602
3 COLUMBIA BASIN						
4 GENERATION	1,672,319	94.38%	115,325	1,707,363	94.49%	144,530
5 TRANSMISSION	99,615	5.62%	6,870	99,615	5.51%	8,433
6 TOTAL	1,771,934	100.00%	122,195	1,806,978	100.00%	152,963
7 GREEN SPRINGS						
8 GENERATION		100.00%	1,102		100.00%	1,107
9 HUNGRY HORSE						
10 GENERATION	170,180	98.55%	6,925	178,107	98.62%	6,961
11 TRANSMISSION	2,500	1.45%	102	2,500	1.38%	98
12 TOTAL	172,680	100.00%	7,027	180,607	100.00%	7,059
13 MINIDOKA-PALISADES						
14 GENERATION	181,571	98.33%	13,147	181,545	98.33%	13,207
15 TRANSMISSION	3,084	1.67%	223	3,084	1.67%	224
16 TOTAL	184,655	100.00%	13,370	184,629	100.00%	13,431
17 YAKIMA						
18 GENERATION		100.00%	2,999		100.00%	3,013
19 GENERATION 1/			167,074			196,420
20 TRANSMISSION			7,195			8,755
21 TOTAL USBR			174,269			205,175
1/ INCLUDES COLVILLE PAYMENT OF			22,000			22,000
22 BONNEVILLE						
23 GENERATION	1,190,585	99.77%	27,955	1,203,837	99.78%	27,563
24 TRANSMISSION	2,700	0.23%	63	2,700	0.22%	62
25 TOTAL	1,193,285	100.00%	28,018	1,206,537	100.00%	27,625
26 OTHER PROJECTS						
27 CORPS - GENERATION ONLY			231,805			224,932
28 USF&W (LSRCP)			33,000			29,000
29 GENERATION			292,760			281,495
30 TRANSMISSION			63			62
31 TOTAL CORPS			292,823			281,557

Table 2D

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

	A	B	C	D	E	F
	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>AVERAGE</u>	<u>2022</u>	<u>2023</u>
1 BOISE	5,603	5,680	5,804	5,696	5,576	5,602
2 COLUMBIA BASIN	122,478	130,345	121,608	124,810	122,195	122,752
3 GREEN SPRINGS	1,158	1,207	1,010	1,125	1,102	1,107
4 HUNGRY HORSE	7,338	6,919	7,277	7,178	7,027	7,059
5 MINIDOKA	13,064	14,324	13,581	13,656	13,370	13,431
6 YAKIMA	<u>2,964</u>	<u>3,062</u>	<u>3,163</u>	<u>3,063</u>	<u>2,999</u>	<u>3,013</u>
7 Total Reclamation	152,605	161,537	152,443	155,528	152,269	152,963
8 ALBENI FALLS	9,629	9,232	8,217	9,026	9,597	9,462
9 BONNEVILLE	24,447	29,610	24,997	26,352	28,018	27,625
10 CHIEF JOSEPH	30,731	39,190	30,082	33,334	35,442	34,945
11 COUGAR	1,506	1,425	1,472	1,467	1,560	1,538
12 DETROIT	5,433	6,616	6,457	6,169	6,559	6,467
13 DWORSHAK	14,036	14,706	12,017	13,587	14,446	14,243
14 GREEN-PETER	4,702	4,652	4,914	4,756	5,057	4,986
15 HILLS CREEK	1,158	1,390	1,229	1,259	1,339	1,320
16 ICE HARBOR	9,994	10,607	10,173	10,258	10,907	10,753
17 JOHN DAY	30,182	29,971	27,901	29,352	31,208	30,770
18 LIBBY	10,493	10,810	12,523	11,276	11,989	11,820
19 LITTLE GOOSE	17,829	11,532	11,960	13,774	14,645	14,439
20 LOOKOUT POINT	7,687	7,546	7,810	7,681	8,167	8,052
21 LOST CREEK	2,281	2,569	2,469	2,440	2,594	2,558
22 LOWER GRANITE	15,461	11,238	16,352	14,350	15,258	15,044
23 LOWER MONUMENTAL	11,862	6,197	14,352	10,803	11,487	11,325
24 MCNARY	22,453	26,177	22,700	23,777	25,280	24,926
25 THE DALLES	<u>23,807</u>	<u>27,202</u>	<u>23,120</u>	<u>24,710</u>	<u>26,272</u>	<u>25,903</u>
26 Total USACE	243,692	250,672	238,745	244,370	259,823	256,176

Table 2E

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

	A	B	C	D	E	F	G
	Life	Project	Plant- in- Service	Annual Deprec	Cummulative Depreciation		
			1999		2021	2022	2023
1	75.0	John Day	3,956	53	1,166	1,219	1,272
2	75.0	The Dalles	<u>3,753</u>	<u>50</u>	<u>1,100</u>	<u>1,150</u>	<u>1,200</u>
3			7,709	103	2,266	2,369	2,472
4			Net Plant Investment		5,443	5,340	5,237

Table 2F

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

	A	B
	<u>2022</u>	<u>2023</u>
1 Synchronous Condensers Net Plant	5,598	5,495
2 Total Corps/Bureau Average Net Plant	6,289,890	6,421,851
3 percent	0.089%	0.086%
4 Corps/Bureau Net Interest	25,574	21,327
5 Sync Cond Net Interest	23	18
6 Corps/Bureau MRNR	54,420	86,373
7 Sync Cond MRNR	48	74
8 Sync Cond Depreciation	<u>103</u>	<u>103</u>
9 Total Sync Cond Costs	174	195

Table 2G

**COE/BOR Transmission Costs
(\$000s)**

	A	B	C	D	E	F	G	H	I
	Total		Utility	Total		Utility	Annual	Annual	Annual
	<u>2022</u>	<u>Network</u>	<u>Delivery</u>	<u>2023</u>	<u>Network</u>	<u>Delivery</u>	<u>Total</u>	<u>Network</u>	<u>Delivery</u>
1 O&M	7,258	7,022	236	8,817	8,527	290	8,038	7,775	263
2 Depreciation	1,331	1,288	44	1,378	1,334	44	1,355	1,311	44
3 Interest Expense	31	30	1	24	23	1	28	27	1
4 MRNR	65	63	2	95	92	3	81	78	3
5 Total COE/BOR Trans Costs	8,685	8,403	283	10,314	9,976	338	9,502	9,191	311
6 Average Net Transmission Plant	59,085	57,166	1,919	57,808	55,931	1,877			
7 Total Hydro Projects Average Net Plant	6,289,890			6,421,851					
8 percent Transmission	0.94%			0.90%					
9 Revenue Requirement MRNR	67,831			104,443					
10 Revenue Requirement Total PNR	99,831			136,443					
11 percent MRNR	68%			77%					
12 Revenue Requirement PNRR	32,000			32,000					
13 percent PNRR	32%			23%					

Table 2H

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

		A	B	C	D	E	F	G	H
		2022	2022	2022	2022	2023	2023	2023	2021
		GROSS	DEPREC		AVG NET	GROSS	DEPREC		AVG NET
		PLANT	EXP	O&M	PLANT	PLANT	EXP	O&M	PLANT
1 Bureau of Reclamation									
2 COLUMBIA BASIN									
3	Network	96,194	1,224	6,634	53,909	96,194	1,224	8,143	52,736
4	Delivery	<u>3,425</u>	<u>44</u>	<u>236</u>	<u>1,919</u>	<u>3,425</u>	<u>44</u>	<u>290</u>	<u>1,877</u>
5	TOTAL	99,619	1,267	6,870	55,828	99,619	1,328	8,433	54,615
6 HUNGRY HORSE									
7	Network	1,962	30	102	836	1,962	33	98	826
8 MINIDOKA-PALISADES									
9	Network	3,621	34	223	777	3,621	41	224	761
10	Delivery	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
11	TOTAL	3,621	34	223	777	3,621	34	224	761
12 Corps of Engineers									
13 BONNEVILLE									
14	Network	3,426	-	63	1,644	2,700	36	62	1,608
15 TOTAL TRANSMISSION									
16	Network	105,203	1,288	7,022	57,166	104,477	1,334	8,527	55,931
17	Delivery	<u>3,425</u>	<u>44</u>	<u>236</u>	<u>1,919</u>	<u>3,425</u>	<u>44</u>	<u>290</u>	<u>1,877</u>
18	TOTAL	108,628	1,331	7,258	59,085	107,902	1,378	8,817	57,808

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-22-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.

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

Depreciation and amortization 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.

3.3 Debt-to-Asset Ratio

The debt to asset ratio is calculated using data from repayment study inputs in Chapters 8 and 9 and outputs of Chapter 11 as well as the depreciation forecasts in Chapter 4.

Table 3A

Power Services Program Spending Levels
(\$000s)

		A	B
		Rate Period	
		<u>2022</u>	<u>2023</u>
1	Power System Generation Resources		
2	Operating Generation		
3	COLUMBIA GENERATING STATION	278,643	304,748
4	BUREAU OF RECLAMATION	152,269	152,963
5	CORPS OF ENGINEERS	252,557	252,557
6	LONG-TERM CONTRACT GENERATING PROJECTS	<u>16,036</u>	<u>17,123</u>
7	Sub-Total	699,505	727,391
8	Operating Generation Settlements and Other Payments		
9	COLVILLE GENERATION SETTLEMENT	22,000	22,000
10	SPOKANE LEGISLATION PAYMENT	<u>5,749</u>	<u>5,500</u>
11	Sub-Total	27,749	27,500
12	Non-Operating Generation		
13	TROJAN DECOMMISSIONING	1,200	1,200
14	WNP-1&3 DECOMMISSIONING	<u>1,141</u>	<u>1,175</u>
15	Sub-Total	2,341	2,375
16	Gross Contracted Power Purchases (excluding bookout adjustments) <Note 1		
17	DSI MONETIZED POWER SALES	0	0
18	PNCA HEADWATER BENEFITS	3,100	3,100
19	HEDGING/MITIGATION		
20	OTHER POWER PURCHASES - (e.g. Short-Term)	43,266	38,088
21	TIER 2 PURCHASES	<u>44,324</u>	<u>47,041</u>
22	Sub-Total	90,690	88,229
23	Bookout Adjustments to Contracted Power Purchases <Note 1	0	0
24	Augmentation Power Purchases (includes IOU Load Reduc. and Buy Backs)		
25	AUGMENTATION POWER PURCHASES	-	-
26	CONSERVATION AUGMENTATION	-	-
27	Sub-Total	-	-
28	Exchanges & Settlements		
29	RESIDENTIAL EXCHANGE PROGRAM	265,288	265,315
31	OTHER SETTLEMENTS	<u>0</u>	<u>0</u>
32	Sub-Total	265,288	265,315
33	Renewable Generation		
34	RENEWABLES	<u>34,418</u>	<u>29,467</u>
36	Sub-Total	34,418	29,467
37	Generation Conservation		
38	CONSERVATION INFRASTRUCTURE	27,300	27,300
39	LEGACY	590	590
40	MARKET TRANSFORMATION	11,800	11,800
41	ENERGY EFFICIENCY DEVELOPMENT	8,000	8,000
42	LOW INCOME WEATHERIZATION & TRIBAL	6,005	6,005
43	CONSERVATION ACQUISITION	67,357	67,357
44	DR & SMART GRID	<u>215</u>	<u>215</u>
45	Sub-Total	121,267	121,267
46	Power System Generation Sub-Total	1,241,258	1,261,544

Table 3A

Power Services Program Spending Levels
(\$000s)

	A	B
	Rate Period	
	<u>2022</u>	<u>2023</u>
47		
48	Power Non-Generation Operations	
49	Power Services System Operations	
50	INFORMATION TECHNOLOGY	3,804 3,780
51	GENERATION PROJECT COORDINATION	3,947 4,035
52	SLICE IMPLEMENTATION	<u>971</u> <u>1,003</u>
53	Sub-Total	8,721 8,818
54	Power Services Scheduling	
55	OPERATIONS SCHEDULING	9,600 9,910
56	OPERATIONS PLANNING	<u>8,708</u> <u>9,006</u>
57	Sub-Total	18,308 18,917
58	Power Services Marketing and Business Support	
59	POWER R&D	2,527 2,527
60	SALES & SUPPORT	15,172 15,563
61	STRATEGY, FINANCE & RISK MGMT	3,566 3,679
62	EXECUTIVE AND ADMINISTRATIVE SERVICES	6,672 6,886
63	CONSERVATION SUPPORT	<u>7,876</u> <u>8,131</u>
64	Sub-Total	35,814 36,785
65	Power Grid Mod	2,223 2,285
66	Power Internal Support	14,441 15,251
67	Power Non-Generation Operations Sub-Total	79,507 82,056
68		
69	Power Services Transmission Acquisition and Ancillary Services	
70	PBL Transmission Acquisition and Ancillary Services	
71	POWER SERVICES TRANSMISSION & ANCILLARY SERVICES	111,351 108,036
72	3RD PARTY GTA WHEELING	81,854 83,243
73	POWER SERVICES - 3RD PARTY TRANS & ANCILLARY SVCS	3,300 3,300
74	GENERATION INTEGRATION	14,726 14,809
75	Power Srvcs Trans Acquisition and Ancillary Services Sub-Total	211,231 209,388
76		
77	Fish and Wildlife/USF&W/Planning Council/Environmental Req	
78	BPA Fish and Wildlife	
79	Fish & Wildlife	247,508 247,196
80	USF&W Lower Snake Hatcheries	33,000 29,000
81	Planning Council	<u>11,942</u> <u>12,431</u>
82	Fish and Wildlife/USF&W/Planning Council Sub-Total	292,450 288,627
83		
84	BPA Internal Support	
85	Additional Post-Retirement Contribution	18,666 19,354
86	Corporate G&A	58,057 58,349
87	F&W Corporate Support - G&A	11,720 11,783
88	Undistributed Reduction	<u>(2,971)</u> <u>(2,971)</u>
89	BPA Internal Support Sub-Total	85,471 86,515
90		

Table 3A

Power Services Program Spending Levels
(\$000s)

		A	B
		Rate Period	
		<u>2022</u>	<u>2023</u>
91	Bad Debt Expense	0	0
92	Other Income, Expenses, Adjustments		
93			
94			
95	Disaggregation of Selected Expenses From Revenue Requirement to RAM Cost Table		
96	RENEWABLES (line 34)	<u>34,418</u>	<u>29,467</u>
97	Tier 1 Augmentation Resource (i.e. Klondike III)	8,163	9,335
98	Renewable Generation (excl. Klondike III)	26,255	20,132
99			
100	POWER R&D (line 59)	<u>2,527</u>	<u>2,527</u>
101	Generation Conservation R&D	1,570	1,570
102	Other Power R&D	957	957
103			
104	POWER SERVICES TRANSMISSION & ANCILLARY SERVICES (line 71)	<u>111,351</u>	<u>108,036</u>
105	Transmission & Ancillary Services	79,323	76,008
106	Transmission & Ancillary Services (sys. oblig.)	32,028	32,028
107			
108	Corporate G&A (line 86+88)	<u>58,057</u>	<u>58,349</u>
109	Agency Svs for Power	47,493	47,880
110	Agency Svs for Energy Efficiency	10,563	10,469

Table 3B

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

	A	B
	<u>2022</u>	<u>2023</u>
1 INTEREST EXPENSE (GROSS)		
2 APPROPRIATIONS	43,986	39,113
3 BONDS ISSUED TO TREASURY	38,411	38,609
BOND PREMIUMS/DISCOUNTS	<u>0</u>	<u>0</u>
4 TOTAL INTEREST EXPENSE	82,397	77,722
5		
6 PLANNED AMORTIZATION		
7 APPROPRIATIONS	0	0
8 BONDS ISSUED TO TREASURY	<u>495,000</u>	<u>525,000</u>
9 TOTAL GENERATION AMORTIZATION	495,000	525,000
10 IRRIGATION ASSISTANCE	<u>16,060</u>	<u>12,762</u>
11 TOTAL AMORTIZATION/IRRIGATION	511,060	537,762

Table 3C
Depreciation & Amortization Summary
(\$000s)

	<u>A</u> <u>2022</u>	<u>B</u> <u>2023</u>
1 BPA (Power + CORP GP)	4,685	4,222
2 Corps 1/ 2/	106,932	109,967
3 Reclamation	<u>29,332</u>	<u>29,966</u>
4 Total Depreciation	140,949	144,155
5 Amortization of Legacy Conservation	-	-
6 Amortization of Conservation Acquisitions	42,078	32,975
7 Amortization of CRFM Intangible Investment	18,387	18,387
8 Amortization of Fish & Wildlife	<u>35,275</u>	<u>35,911</u>
9 Total Federal Amortization	95,741	87,273
10 Columbia Generating Station	149,004	153,890
11 WNP - 1	32,755	32,755
12 WNP - 3	37,637	37,637
13 Cowlitz Falls	4,108	4,108
14 Northern Wasco	1,656	1,656
16 Accretion of Asset Retirement Obligation	<u>36,754</u>	<u>38,363</u>
17 Total Non-Federal Amortization	225,160	230,046
18 Total Amortization	320,900	317,320
17 Total Depreciation & Amortization	461,849	461,474
1/ Excludes depreciation from investments paid for by BPA-TS	23	23
2/ Includes US Fish & Wildlife	3,321	3,321

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

	A	B
	<u>2022</u>	<u>2023</u>
1 Power Internal Support	14,441	15,251
2 X % Budgeted for PS Group	18%	16%
3 PS group budget	2,658	2,438
4 X % of FY21 SOY Budget for PSRF group	52%	52%
5 PSRF group	1,382	1,268
6 X % billing to Residential Exchange	0	0
7 Residential Exchange Program Support portion	415	380
8 + 12% corporate overhead	<u>50</u>	<u>46</u>
9 Total Residential Exchange Prgraom Support Costs	464	426

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

		<u>A</u>	<u>B</u>
		<u>2020</u>	<u>2021</u>
1	Terminated Nuclear Facilities	70,392	70,392
2	REP Refunds	-	-
3	Columbia River Fish Mitigation amortization	18,387	18,387
4	Conservation Measures		
5	Additions	-	-
6	Amortization	42,078	32,975
7	Direct Service Industries' benefit 1/	-	-
8	Fish and Wildlife Measures		
9	Additions	43,000	43,000
10	Amortization	35,275	35,911
11	Settlements	27,749	27,500
12	FECA 2/	-	-
13	Sponsored Conservation	-	-
14	Trojan Decommissioning/Restoration	1,200	1,200
15	Terminated Hydro Facilities	1,671	1,751
16	Capitalized Bond Premiums	-	-

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

2/ Not specifically broken out in expenses

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

	<u>A</u> <u>2020</u>	<u>B</u> <u>2021</u>
Direct Funding Projects		
1 Capital Expenditures	264,120	281,260
2 Plant-in-Service	249,948	276,178
3 SOY CWIP Balance	407,578	421,750
4 EOY CWIP Balance	<u>421,750</u>	<u>426,832</u>
5 Average CWIP Balance	414,664	424,291
6 AFUDC Rate	2.61%	2.66%
7 Total Direct Funding AFUDC	10,823	11,286
Capital Equipment		
8 Power IT	4,300	2,600
9 Corporate	2,670	4,280
10 Total Capital Equipment AFUDC	182	183
11 Total PS AFUDC	11,005	11,469

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

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

Table 3H
Agency Services G&A Allocators

A	B	C D E F				G	
		Final IPR					
Allocation	Costs included in the pool	Power	F&W	Transmission expense	Transmission capital	Comments	
1	Corporate Executive, Planning & Gov.	Regulatory affairs, executive, CAO management, strategic planning and internal audit.	40.5%	9.5%	28.5%	21.5%	A - Equal Effort
2	Finance	Accounting, budgeting, forecasting, accounts payable, payroll, financial reporting, treasury, rates support, capital management, financial liaisons	40.5%	9.5%	28.5%	21.5%	A - Equal Effort
3	Legal	General counsel	40.5%	9.5%	28.5%	21.5%	A - Equal Effort
4	IT Cross Agency Applications	Customer billing systems, enterprise performance management (EPM), reporting services, data integration	40.5%	9.5%	50.0%	0.0%	A - Equal Effort
5	Public Affairs	Internal and external communications, national relations, regional relations, tribal relations	40.5%	9.5%	50.0%	0.0%	A - Equal Effort
6	Risk Management	Enterprise risk, transaction risk and credit risk management	40.5%	9.5%	28.5%	21.5%	A - Equal Effort
7	Technology Innovation	Technology innovation administration and project management costs	40.5%	9.5%	50.0%	0.0%	A - Equal Effort
8	Metering & Billing	Power and Transmission Services customer billing and metering services	40.5%	9.5%	50.0%	0.0%	A - Equal Effort
9	Forecasting & Contract Management	Contract management and support, load forecasting and analysis	40.5%	9.5%	50.0%	0.0%	A - Equal Effort
10	BTO Portfolio Management	BTO administration and project management costs	40.5%	9.5%	50.0%	0.0%	A - Equal Effort
11	IT Corp Application Assets	IT maintenance of BES/Financials, HRMIS and a number of other IT business systems applications such as SharePoint, customer contracting and DOE hiring.	28.3%	6.7%	65.0%	0.0%	B - Extra Effort
12	Supply Chain Management & Admin	Management and administrative costs for agency purchasing & Transmission contracting and logistics	28.3%	6.7%	65.0%	0.0%	B - Extra Effort
13	Supply Chain Agency Purchasing	Purchasing services for environment, Energy Efficiency, Power, IT and Corporate	28.3%	6.7%	37.1%	28.0%	B - Extra Effort
14	BPA Safety	Field safety, construction safety, medical surveillance, corporate safety	16.2%	3.8%	45.6%	34.4%	C - Labor Hour (FTE and supplemental labor)
15	BPA Security	Physical, personnel and information security, continuity of operations	16.2%	3.8%	45.6%	34.4%	C - Labor Hour (FTE and supplemental labor)
16	IT Infrastructure Assets	Data center storage, Linux, Wintel, security, Desk top/end user computing, LAN, WAN, help desk, and phone services	16.2%	3.8%	45.6%	34.4%	C - Labor Hour (FTE and supplemental labor)
17	Human Resources	HR policy, talent acquisition, employee development, labor relations, staffing and classification, EEO	17.0%	4.0%	45.0%	34.0%	C - Labor Hour (FTE only)
18	Agency Service Awards	Corporate awards	17.0%	4.0%	79.0%	0.0%	C - Labor Hour (FTE only)
19	IT Admin & System Policy	IT leadership & planning, admin, quality control, project management, IT training	28.3%	6.7%	37.1%	28.0%	E - Blended IT
20	Workplace Services	HQ and field leases, utilities, janitorial, maintenance, space management including moves and furniture, office equipment & supplies, mail/courier, media services, motor pool, transit and parking	34.0%	8.0%	33.1%	24.9%	F - Workplace Services
21	Grid Modernization	Grid modernization project management	35.0%	0.0%	65.0%	0.0%	G - Grid Modernization

Table 3I

Debt to Asset Ratio Calculation
(\$000s)

	A	B	C	D
	Actuals			
	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
DEBT				
1 Starting federal debt		3,806,140	3,587,527	3,425,784
2 Federal debt additions		-	333,258	339,350
3 Treasury bond repayment		(350,100)	(495,001)	(525,000)
4 Appropriations repayment		(95,000)	-	-
5 Deferred Borrowing 1/	-	226,487	-	-
6 Ending federal debt	3,806,140	3,587,527	3,425,784	3,240,134
7				
8 Starting nonfederal debt		5,032,285	5,094,946	5,179,670
9 EN debt additions 2/		194,588	188,240	208,779
10 EN bond repayment		(104,825)	(75,145)	(13,020)
11 EN LOC repayment		-	-	-
12 N. Wasco repayment		(1,535)	(1,605)	(1,685)
13 Cowlitz Falls repayment		(3,830)	(4,020)	(4,220)
14 Prepay principal repayment		(21,737)	(22,746)	(23,801)
15 Ending nonfederal debt	5,032,285	5,094,946	5,179,670	5,345,722
16				
17 Total Debt	8,838,425	8,682,472	8,605,454	8,585,856
18				
19 ASSETS				
20 Starting gross federal assets		9,888,804	9,867,867	10,137,189
21 Federal plant additions		-	290,258	296,350
22 Retirements		(20,937)	(20,937)	(20,937)
23 Ending gross federal assets	9,888,804	9,867,867	10,137,189	10,412,602
24				
25 Starting accumulated fed. depreciation		(3,778,351)	(3,896,431)	(4,016,290)
26 Annual federal depreciation		(139,170)	(140,949)	(144,155)
27 Adjustments		21,090	21,090	21,090
28 Ending accumulated fed. depreciation	(3,778,351)	(3,896,431)	(4,016,290)	(4,139,355)
29				
30 Starting gross nonfederal assets		3,543,296	3,652,889	3,747,223
31 Nonfederal plant additions		109,593	94,334	118,849
32 Ending gross nonfederal assets 3/	3,543,296	3,652,889	3,747,223	3,866,071
33				
34 Accumulated nonfed amortization 4/	-	-	(153,112)	(306,224)
35 Annual nonfed amortization	-	(153,112)	(153,112)	(157,998)
36 Ending accumulated nonfederal amort.	-	(153,112)	(306,224)	(464,223)
37				
38 Sale of nonfederal assets (fuel)	-	(81,000)	(49,500)	-
39 Cumulative sale	-	(81,000)	(130,500)	(130,500)
40				
41				
42 CWIP	527,214	527,214	527,214	527,214
43 Total Assets	10,180,963	9,917,427	9,958,611	10,071,810
44				
45 Debt to Asset Ratio (Debt/Asset)	86.8%	87.5%	86.4%	85.2%

- 1/ Balance at the end of the last complete fiscal year, added in FY 2021.
- 2/ Includes lines of credit
- 3/ Actual ending nonfederal asset value is net of amortization.
- 4/ Starting in FY 2020, nonfederal amortization is calculated on a straight-line basis.

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 acquisition investments made after 2011 are amortized over 12 years. Beginning with 2016, BPA discontinued the capitalization of conservation investments and converted it into an expense program. All other conservation investments 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.

4.3 Non-Federal Amortization

Energy Northwest projects are amortized through December 31, 2043 which is the end of the license of CGS. The amortization of the CGS asset includes plant additions due to continuing capital investments. Northern Wasco and Cowlitz Falls are amortized over the remaining life of their respective debt.

Table 4A

**FCRPS Investment Base
FY 2022
(\$000s)**

	A	B	C
	BALANCE-AS-OF		AVERAGE
	<u>9/30/2021</u>	<u>9/30/2022</u>	<u>2022</u>
1 CORPS OF ENGINEERS			
2 COMPLETED PLANT			
3 HYDROELECTRIC GEN	7,918,449	8,135,585	8,027,017
4 TRANSMISSION	<u>2,700</u>	<u>2,700</u>	<u>2,700</u>
5 TOTAL COMPLETED PLANT	7,921,149	8,138,285	8,029,717
6 ACCUMULATED DEPRECIATION			
7 HYDROELECTRIC GEN	3,086,730	3,193,649	3,140,190
8 TRANSMISSION	<u>1,074</u>	<u>1,110</u>	<u>1,092</u>
9 TOTAL ACCUMULATED DEPRECIATION	3,087,804	3,194,759	3,141,282
10 NET COMPLETED PLANT			
11 HYDROELECTRIC GEN	4,831,719	4,941,935	4,886,827
12 TRANSMISSION	<u>1,626</u>	<u>1,590</u>	<u>1,608</u>
13 TOTAL NET COMPLETED PLANT	4,833,345	4,943,525	4,888,435
14 BUREAU OF RECLAMATION			
15 COMPLETED PLANT			
16 HYDROELECTRIC GEN	2,072,695	2,116,728	2,094,711
17 TRANSMISSION	<u>105,199</u>	<u>105,199</u>	<u>105,199</u>
18 TOTAL COMPLETED PLANT	2,177,894	2,221,927	2,199,910
19 ACCUMULATED DEPRECIATION			
20 HYDROELECTRIC GEN	745,033	772,962	758,997
21 TRANSMISSION	<u>38,757</u>	<u>40,159</u>	<u>39,458</u>
22 TOTAL ACCUM DEPRECIATION	783,789	813,121	798,455
23 NET COMPLETED PLANT			
24 HYDROELECTRIC GEN	1,327,663	1,343,766	1,335,714
25 TRANSMISSION	<u>66,442</u>	<u>65,040</u>	<u>65,741</u>
26 TOTAL NET COMPLETED PLANT	1,394,105	1,408,806	1,401,455
27 CONSERVATION			
28 CUMULATIVE INVESTMENT	484,750	484,750	484,750
29 ACCUM PREPAID EXPENSE	<u>361,382</u>	<u>403,460</u>	<u>382,421</u>
30 NET CONSERVATION	123,368	81,290	102,329
31 FISH AND WILDLIFE			
32 CUMULATIVE INVESTMENT	518,523	525,887	522,205
33 ACCUM PREPAID EXPENSE	<u>274,302</u>	<u>273,941</u>	<u>274,121</u>
34 NET FISH AND WILDLIFE	244,221	251,946	248,084
35 BPA PLANT (PBL)			
36 CUMULATIVE INVESTMENT	73,662	78,977	76,319
37 ACCUMULATED DEPRECIATION	<u>46,855</u>	<u>51,540</u>	<u>49,198</u>
38 NET BPA PLANT INVESTMENT	26,806	27,436	27,121
39 TOTAL NET PLANT INVESTMENT	6,621,846	6,713,003	6,667,424

Table 4B

**FCRPS Investment Base
FY 2023
(\$000s)**

	A	B	C
	BALANCE-AS-OF		AVERAGE
	<u>9/30/2022</u>	<u>9/30/2023</u>	<u>2023</u>
1 CORPS OF ENGINEERS			
2 COMPLETED PLANT			
3 HYDROELECTRIC GEN	8,135,585	8,363,763	8,249,674
4 TRANSMISSION	<u>2,700</u>	<u>2,700</u>	<u>2,700</u>
5 TOTAL COMPLETED PLANT	8,138,285	8,366,463	8,252,374
6 ACCUMULATED DEPRECIATION			
7 HYDROELECTRIC GEN	3,193,649	3,303,603	3,248,626
8 TRANSMISSION	<u>1,110</u>	<u>1,146</u>	<u>1,128</u>
9 TOTAL ACCUMULATED DEPRECIATION	3,194,759	3,304,749	3,249,754
10 NET COMPLETED PLANT			
11 HYDROELECTRIC GEN	4,941,935	5,060,160	5,001,048
12 TRANSMISSION	<u>1,590</u>	<u>1,554</u>	<u>1,572</u>
13 TOTAL NET COMPLETED PLANT	4,943,525	5,061,714	5,002,620
14 BUREAU OF RECLAMATION			
15 COMPLETED PLANT			
16 HYDROELECTRIC GEN	2,116,728	2,167,545	2,142,136
17 TRANSMISSION	<u>105,199</u>	<u>105,199</u>	<u>105,199</u>
18 TOTAL COMPLETED PLANT	2,221,927	2,272,744	2,247,335
19 ACCUMULATED DEPRECIATION			
20 HYDROELECTRIC GEN	772,962	801,525	787,243
21 TRANSMISSION	<u>40,159</u>	<u>41,562</u>	<u>40,861</u>
22 TOTAL ACCUM DEPRECIATION	813,121	843,086	828,104
23 NET COMPLETED PLANT			
24 HYDROELECTRIC GEN	1,343,766	1,366,021	1,354,893
25 TRANSMISSION	<u>65,040</u>	<u>63,637</u>	<u>64,338</u>
26 TOTAL NET COMPLETED PLANT	1,408,806	1,429,658	1,419,231
27 CONSERVATION			
28 CUMULATIVE INVESTMENT	484,750	484,750	484,750
29 ACCUM PREPAID EXPENSE	<u>403,460</u>	<u>436,436</u>	<u>419,948</u>
30 NET CONSERVATION	81,290	48,314	64,802
31 FISH AND WILDLIFE			
32 CUMULATIVE INVESTMENT	525,887	542,134	534,010
33 ACCUM PREPAID EXPENSE	<u>273,941</u>	<u>283,099</u>	<u>278,520</u>
34 NET FISH AND WILDLIFE	251,946	259,035	255,490
35 BPA PLANT (PBL)			
36 CUMULATIVE INVESTMENT	78,977	84,292	81,634
37 ACCUMULATED DEPRECIATION	<u>51,540</u>	<u>55,762</u>	<u>53,651</u>
38 NET BPA PLANT INVESTMENT	27,436	28,529	27,983
39 TOTAL NET PLANT INVESTMENT	6,713,003	6,827,251	6,770,126

Table 4C
(\$000s)

FERC ACCOUNT 391.2
DATA PROCESSING EQUIPMENT
ASL, Remaining Life, Annual Percent=20%

A	B	C
	<u>2022</u>	<u>2023</u>
1 INVEST	-	-
2 FIRST YEAR	-	-
3 FULL YEAR	-	-
4 ANNUAL DEPR	1,389	856
5 ACCUM DEPR	24,757	25,613
6 CUMUL INVEST	26,764	26,764
7 NET INVEST	2,007	1,258

Table 4D
(\$000s)

FERC ACCOUNT 391.3 DATA PROCESSING
SOFTWARE

A	B	C
	<u>2022</u>	<u>2023</u>
1 INVEST	3,600	3,600
2 FIRST YEAR	271	271
3 FULL YEAR	541	541
4 ANNUAL DEPR	2,475	2,500
5 ACCUM DEPR	18,461	20,961
6 CUMUL INVEST	28,728	32,328
7 NET INVEST	10,267	11,367

Table 4E
(\$000s)

**FERC ACCOUNT 397/398 COMMUNICATION
& MISC EQUIPMENT**

A	B <u>2022</u>	C <u>2023</u>
1 INVEST	-	-
2 FIRST YEAR	-	-
3 FULL YEAR	-	-
4 ANNUAL DEPR	30	-
5 ACCUM DEPR	5,750	5,750
6 CUMUL INVEST	11,368	11,368
7 NET INVEST	5,618	5,618

Table 4F
(\$000s)

SUMMARY - PBL GENERAL PLANT

A	B <u>2022</u>	C <u>2023</u>
1 INVEST	8,500	8,500
2 FIRST YEAR	-	-
3 FULL YEAR	5,315	5,315
4 ANNUAL DEPR	400	400
5 ACCUM DEPR	799	799
6 CUMUL INVEST	4,685	4,222
7 NET INVEST	51,540	55,762

Table 4G

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

	A	B	C	D	E	F	G	H
	<u>FY</u>	<u>INVEST</u>	<u>FIRST YEAR</u>	<u>FULL YEAR</u>	<u>ANNUAL AMORT</u>	<u>ACCUM AMORT</u>	<u>CUMUL INVEST</u>	<u>NET INVEST</u>
1	2022	43,000	1,433	2,867	35,275	273,941	525,887	251,946
2	2023	43,000	1,433	2,867	35,911	283,099	542,134	273,345

Table 4H

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

Conservation Acquisition, 12-year life (post-2011)

	A	B	C	D	E	F	G	H
	<u>FY</u>	<u>INVEST</u>	<u>FIRST YEAR</u>	<u>FULL YEAR</u>	<u>ANNUAL AMORT</u>	<u>ACCUM AMORT</u>	<u>CUMUL INVEST</u>	<u>NET INVEST</u>
1	2022				42,078	403,461	484,750	81,289
2	2023				32,975	436,436	484,750	48,314
3	2024				22,255	458,691	484,750	26,059
4	2025				16,422	475,113	484,750	9,637
5	2026				8,450	483,563	484,750	1,187
6	2027				1,132	484,695	484,750	55
7	2028				55	-	-	-

Table 4I
Bureau of Reclamation:
Investment and Depreciation
(\$000s)

	A	B	C	D	E	F	G
1							
2							
3		5-Year	INVESTMENT	2021	2021	2021	
4		Average	9/30/2020	ADDTNS	DEPR	ACCUM	INVESTMENT
5		Retirements			EXP	DEPR	9/30/2021
6	BOISE						
7	GENERATION	-	37,800	3,006	524	13,069	40,806
8	COLUMBIA BASIN						
9	GENERATION	8	1,631,838	14,659	21,856	611,069	1,646,490
10	TRANSMISSION /DELIVERY		<u>99,615</u>		<u>1,328</u>	<u>37,282</u>	<u>99,615</u>
11	TOTAL		1,731,453	14,659	23,184	648,351	1,746,105
12	GREEN SPRINGS						
13	GENERATION	-	21,118	-	282	8,447	21,118
14	HUNGRY HORSE						
15	GENERATION	4	154,355	4,865	2,090	62,299	159,216
16	TRANSMISSION /DELIVERY		<u>2,500</u>		<u>33</u>	<u>957</u>	<u>2,500</u>
17	TOTAL		156,855	4,865	2,123	63,256	21,118
18	MINIDOKA-PALISADES						
19	GENERATION	27	178,909	2,716	2,403	44,513	181,598
20	TRANSMISSION /DELIVERY		<u>3,084</u>		<u>41</u>	<u>518</u>	<u>3,084</u>
21	TOTAL		181,993	2,716	2,444	45,031	184,682
22	YAKIMA						
23	GENERATION	-	20,831	2,637	295	5,634	23,468
24	TOTAL USBR	38	2,150,049		28,853	783,789	2,037,296
25							
26	GENERATION		2,044,850		27,450	745,033	2,072,695
27	TRANSMISSION		<u>105,199</u>		<u>1,403</u>	<u>38,757</u>	<u>105,199</u>
28	TOTAL		2,150,049		28,853	783,789	2,177,894

Table 4I
Bureau of Reclamation:
Investment and Depreciation
(\$000s)

	A	H	I	J	K	L	M	N
1								
2		2022	2022	2022		2023	2023	2023
3			DEPR	ACCUM	INVESTMENT		DEPR	ACCUM
4		<u>ADDTNS</u>	<u>EXP</u>	<u>DEPR</u>	<u>9/30/2022</u>	<u>ADDTNS</u>	<u>EXP</u>	<u>DEPR</u>
5	BOISE							
6	GENERATION	4,499	574	13,643	45,305	7,874	657	14,300
7	COLUMBIA BASIN							
8	GENERATION	25,837	22,125	633,194	1,672,319	35,051	22,531	655,725
9	TRANSMISSION /DELIVERY		<u>1,328</u>	<u>38,610</u>	<u>99,615</u>		<u>1,328</u>	<u>39,938</u>
10	TOTAL	25,837	23,453	671,804	1,771,934	35,051	23,859	695,664
11	GREEN SPRINGS							
12	GENERATION	-	282	8,729	21,118		282	9,011
13	HUNGRY HORSE							
14	GENERATION	10,968	2,196	64,495	170,180	7,931	2,322	66,817
15	TRANSMISSION /DELIVERY		<u>33</u>	<u>990</u>	<u>2,500</u>		<u>33</u>	<u>1,023</u>
16	TOTAL	10,968	2,229	65,485	172,680	7,931	2,355	67,841
17	MINIDOKA-PALISADES							
18	GENERATION	-	2,421	46,934	181,571		2,421	49,355
19	TRANSMISSION /DELIVERY		<u>41</u>	<u>559</u>	<u>3,084</u>		<u>41</u>	<u>600</u>
20	TOTAL	-	2,462	47,493	184,655	-	2,462	49,955
21	YAKIMA							
22	GENERATION	2,767	331	5,965	26,235	-	350	6,315
23								
24	TOTAL USBR		29,332	813,121	2,221,927		29,966	843,086
25								
26	GENERATION		27,929	772,962	2,116,728		28,563	801,525
27	TRANSMISSION		<u>1,403</u>	<u>40,159</u>	<u>105,199</u>		<u>1,403</u>	<u>41,562</u>
28	TOTAL		29,332	813,121	2,221,927		29,966	843,086

Table 4J

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

	A	B	C	D	E	F	G	H
			5-Year Average <u>Retirements</u>	INVESTMENT <u>9/30/20</u>	2021 ADDTNS	2021 DEPR <u>EXP</u>	2021 ACCUM <u>DEPR</u>	INVESTMENT <u>9/30/21</u>
1								
2								
3								
4		BONNEVILLE						
5		GENERATION	0	1,189,304	17,378	15,973	500,913	1,206,682
6		TRANSMISSION		<u>2,700</u>		<u>36</u>	<u>1,074</u>	<u>2,700</u>
7		TOTAL		1,198,067	17,378	16,009	501,987	1,209,382
8		OTHER PROJECTS						
9		(GENERATION ONLY)						
10		ALBENI FALLS	18	84,869	4,821	1,164	29,293	89,672
11		CHIEF JOSEPH	925	884,673	16,679	11,901	362,577	900,427
12		COUGAR	16	57,984	3,738	798	19,845	61,706
13		DETROIT-BIG CLIFF	0	105,793	5,513	1,447	43,525	111,306
14		DWORSHAK	49	353,952	5,878	4,758	142,035	359,780
15		GREEN PETER-FOSTER	10	73,070	6,339	1,016	30,005	79,399
16		HILLS CREEK	25	52,508	1,530	710	18,030	54,013
17		ICE HARBOR	86	233,570	19,644	3,245	104,081	253,128
18		JOHN DAY	176	633,588	21,657	8,591	267,763	655,069
19		LIBBY	529	478,577	12,577	6,461	193,478	490,625
20		LITTLE GOOSE	26	283,938	8,302	3,841	134,429	292,213
21		LOOKOUT POINT-DEXTER	104	146,255	3,779	1,975	55,470	149,930
22		LOST CREEK	0	42,122	11	562	17,757	42,132
23		LOWER GRANITE	29	462,098	9,521	6,225	186,262	471,590
24		LOWER MONUMENTAL	11	316,016	6,159	4,255	146,990	322,165
25		MCNARY	120	572,287	41,024	7,903	240,316	613,192
26		THE DALLES	289	549,072	15,376	7,422	255,944	564,160
27		LOWER SNAKE F&W		255,102	0	3,401	63,688	255,102
28		COLUMBIA R. FISH BYPASS		<u>903,513</u>	<u>42,646</u>	<u>12,047</u>	<u>274,329</u>	<u>946,158</u>
29		TOTAL OTHER		6,488,988	225,193	87,722	2,585,817	6,711,767
30								
31		TOTAL CORPS	2,414	7,687,054	242,572	103,731	3,087,804	7,921,149
32								
33		GENERATION		7,678,291		103,695	3,086,730	7,918,449
34		TRANSMISSION		<u>2,700</u>		<u>36</u>	<u>1,074</u>	<u>2,700</u>
35		TOTAL		7,680,991		103,731	3,087,804	7,921,149
36								
37		1/ Includes USFW Plant Investment		248,694		3,316	63,492	248,694
38								
39								
40		CRFM Regulatory Asset		884,890	34,446	11,799	124,711	919,336

Table 4J

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

	A	B	I	J	K	L	M	N	O
			2022	2022	2022		2023	2023	2023
			ADDTNS	DEPR	ACCUM	INVESTMENT	ADDTNS	DEPR	ACCUM
				<u>EXP</u>	<u>DEPR</u>	<u>9/30/22</u>		<u>EXP</u>	<u>DEPR</u>
1									
2									
3									
4		BONNEVILLE							
5		GENERATION	15,587	16,193	517,106	1,222,269	21,794	16,442	533,548
6		TRANSMISSION		<u>36</u>	<u>1,110</u>	<u>2,700</u>		<u>36</u>	<u>1,146</u>
7		TOTAL	15,587	16,229	518,216	1,224,969	21,794	16,478	534,694
8		OTHER PROJECTS							
9		(GENERATION ONLY)							
10		ALBENI FALLS	2,340	1,211	30,504	91,995	671	1,231	31,735
11		CHIEF JOSEPH	29,059	12,193	374,770	928,561	36,452	12,618	387,388
12		COUGAR	875	828	20,673	62,564	962	840	21,513
13		DETROIT-BIG CLIFF	7,545	1,534	45,059	118,851	6,547	1,628	46,687
14		DWORSHAK	2,402	4,813	146,848	362,133	3,746	4,853	151,701
15		GREEN PETER-FOSTER	12,161	1,140	31,145	91,550	11,923	1,300	32,445
16		HILLS CREEK	3,277	742	18,772	57,265	4,105	791	19,563
17		ICE HARBOR	16,680	3,486	107,567	269,722	6,739	3,641	111,208
18		JOHN DAY	20,322	8,869	276,632	675,215	22,779	9,154	285,786
19		LIBBY	3,533	6,562	200,040	493,629	2,695	6,596	206,636
20		LITTLE GOOSE	8,664	3,954	138,383	300,852	11,981	4,091	142,474
21		LOOKOUT POINT-DEXTER	693	2,003	57,473	150,519	1,074	2,013	59,486
22		LOST CREEK	77	562	18,319	42,209	85	563	18,882
23		LOWER GRANITE	6,494	6,331	192,593	478,054	9,329	6,436	199,029
24		LOWER MONUMENTAL	14,228	4,390	151,380	336,383	8,084	4,539	155,919
25		MCNARY	46,834	8,487	248,803	659,906	62,719	9,216	258,019
26		THE DALLES	12,756	7,605	263,549	576,627	12,885	7,772	271,321
27		LOWER SNAKE F&W	0	3,401	67,089	255,102	0	3,401	70,490
28		COLUMBIA R. FISH BYPASS	<u>16,020</u>	<u>12,615</u>	<u>286,944</u>	<u>962,178</u>	<u>6,022</u>	<u>12,829</u>	<u>299,773</u>
29		TOTAL OTHER	203,962	90,726	2,676,543	6,913,315	208,799	93,512	2,770,055
30									
31		TOTAL CORPS	219,549	106,955	3,194,759	8,138,285	230,592	109,990	3,304,749
32									
33		GENERATION		106,919	3,193,649	8,135,585		109,954	3,303,603
34		TRANSMISSION		<u>36</u>	<u>1,110</u>	<u>2,700</u>		<u>36</u>	<u>1,146</u>
35		TOTAL		106,955	3,194,759	8,138,285		109,990	3,304,749
36									
37		1/ Includes USFW Plant Investment		3,316	66,808	248,694		3,316	70,124
38									
39									
40		CRFM Regulatory Asset	-	18,387	143,098	919,336	-	18,387	161,485

Table 4K
Amortization Expense, Columbia Generating Station
(\$000s)

A	B	C	D
	Starting balance	2022	2023
1	3,466,611	142,953	142,953
2			
3	Additions		
4	2021	4,926	4,926
5	2022	1,126	4,502
6	2023	-	1,510
7	Total	6,051	10,937
8			
9	CGS Total	149,004	153,890

Table 4L
Amortization Expense, WNP-1, WNP-3,
N. Wasco, Cowlitz Falls
(\$000s)

A	B	C	D
1	WNP-1 Starting balance	2022	2023
2	794,300	32,755	32,755
3			
4			
5	WNP-3 Starting balance	2022	2023
6	912,705	37,637	37,637
7			
8	N. Wasco Starting balance	2022	2023
9	9,935	1,656	1,656
10			
11	Cowlitz Starting balance	2022	2023
12	68,470	4,028	4,028

Table 4M
Accretion of CGS Asset Retirement Obligation (ARO)
(\$000s)

	A	B	C	D	E
	Base ARO	Base Accretion	Additional ARO	Additional Accretion	Total Accretion
1 2021	183,828	9,614	631,424	25,599	35,213
2 2022	193,442	10,117	657,023	26,637	36,754
3 2023	203,559	10,646	683,659	27,717	38,363

Notes:

Base ARO refers to the original asset retirement obligation in place before the 2018-19 study.

Additional ARO refers to the additional liability identified in the 2018-19 study.

Table 4N
Summary, Non-Federal Amortization Expense
(\$000s)

	A	B	C
	Project	2020	2021
1	CGS	149,004	153,890
2	WNP 1	32,755	32,755
3	WNP 3	37,637	37,637
4	N. Wasco	1,656	1,656
5	Cowlitz Falls	4,028	4,028
6	CGS ARO Accretion	<u>36,754</u>	<u>38,363</u>
7	Total	234,165	235,319

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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 reserves

The internal cash flows from revenue requirements are added to the ending rate period reserves for risk balances separately for the program and averaged. Reserves not for risk is assumed to be stable through the rate period. The projected interest earnings rate is multiplied by the average reserves 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 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. In the repayment study output, such as in Table 11C of this document, the interest income is identified as the "float."

5.4 Allocation of Interest Credit

The interest credit is a component in the calculation of net interest, offsetting interest accrued on outstanding Treasury bonds and appropriations. The credit is allocated between the two cost pools. The Composite cost pool receives an interest credit based on \$586 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.

5.5 CGS Decommissioning Trust

Beginning in FY 2020, BPA will begin recording interest income on the CGS Decommissioning Trust and the realized gains and losses on the value of investments in the Trust on BPA's income statement. Interest income and gains/losses are forecast using historical averages for the Trust.

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

	A	B
Calculation of Total Interest Income	<u>2022</u>	<u>2023</u>
1 Cash flow generated	31,000	31,000
2		
3 Reserves for Risk		
4 SOY Cash Balance	448,945	479,945
5 EOY Cash Balance	479,945	510,945
6 Average Cash Balance	464,445	495,445
7		
8 Interest Income Rate	0.24%	0.21%
9 Interest on BPA Fund/Investments	1,096	1,043
10		
11 Repayment Study Interest Credit	148	179
12		
13 Reserves not for Risk		
14 SOY Cash Balance	95,700	95,700
15 EOY Cash Balance	95,700	95,700
16 Average Cash Balance	95,700	95,700
17 Interest Income	226	202
18		
19 Total Interest Credit (ln 8 + 10 + 16)	1,469	1,424
20		
21		
22 Allocation between TRM Cost Pools	<u>2022</u>	<u>2023</u>
23 Reserves for Composite Cost Pool	586,596	586,596
24 Interest rate	0.24%	0.21%
25 Composite Pool interest credit (ln 22 X ln 23)	(1,384)	(1,235)
26 Total interest credit from Rev Req	(1,469)	(1,424)
27 Non-Slice Pool interest credit (ln 25 - ln 24)	(86)	(189)

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

	A	B
	<u>2022</u>	<u>2023</u>
1 Annual Cash Surplus/(Deficit)	155,610	83,547
2		
3 Reserves for Risk		
4 SOY Cash Balance	448,945	604,555
5 EOY Cash Balance	604,555	688,101
6 Average Cash Balance	526,750	646,328
7		
8 Interest Income Rate	0.24%	0.21%
9 Interest on BPA Fund/Investments	1,243	1,361
10		
11 Repayment Study Interest Income	148	179
12		
13 Reserves not for Risk		
14 SOY Cash Balance	95,700	95,700
15 EOY Cash Balance	95,700	95,700
16 Average Cash Balance	95,700	95,700
17 Interest Income	226	202
18		
19 Annual Interest Income	1,617	1,742

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

	A	B
	<u>2022</u>	<u>2023</u>
1 Annual Cash Surplus/(Deficit)	68,489	(6,948)
2		
3 Reserves for Risk		
4 SOY Cash Balance	448,945	517,434
5 EOY Cash Balance	517,434	510,486
6 Average Cash Balance	483,190	513,960
7		
8 Interest Income Rate	0.24%	0.21%
9 Interest on BPA Fund/Investments	1,140	1,082
10		
11 Repayment Study Interest Income	148	179
12		
13 Reserves not for Risk		
14 SOY Cash Balance	95,700	95,700
15 EOY Cash Balance	95,700	95,700
16 Average Cash Balance	95,700	95,700
17 Interest Income	226	202
18		
19 Annual Interest Income	1,514	1,463

Table 5D

**Interest Earnings and Realized Gains/Losses on
CGS Decommissioning Trust Fund
(\$000s)**

	A	B
	2022	2023
1 Annual Cash Contributions	4,472	4,651
2 Starting Fund Balance	<u>402,466</u>	<u>416,851</u>
3 Ending Fund Balance	406,938	421,502
4		
5 Interest Earnings Rate	2.42%	2.42%
6 Earnings on Fund	9,734	10,082
7		
8 Gains/Losses Rate	0.69%	0.69%
9 Gains/Losses on Fund	2,792	2,892

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

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:

$$[(FY_1/100) \times 0.5] + 1 = \text{Cumulative Price Deflator}_1$$

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

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

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

memorandum

DATE: 1/21/2021

REPLY TO
ATTN OF: FTR-2

SUBJECT: FY 2021 Interest Rate and Inflation Forecast

TO: See Attached "cc:" List

Please see the attached BPA interest rate and inflation forecast for the period FY 2020 through 2049.

These forecasts provide an internally consistent basis for BPA decisions regarding debt management, budget formulation, financial analyses, capital budgeting, and strategic planning efforts. The FY 2020 forecast consisted of the following tables:

- Table 1: 30 Year Borrowing Rate Comparison
- Table 2: 15 Year Borrowing Rate Comparison
- Table 3: 5 Year Borrowing Rate Comparison
- Table 4: Appropriations Borrowing Rates
- Table 5: BPA Agency Borrowing Rates
- Table 6: Third-Party Tax-Exempt Borrowing Rates
- Table 7: Third-Party Taxable Borrowing Rates
- Table 8: FERC (Bank Prime) Borrowing Rates and 3-Month London Interbank Offered (LIBOR) Borrowing Rates
- Table 9: Inflation Forecast and Comparison

Borrowing Rate Forecast Methodology

A table of US Treasury interest rates for calendar years (CY) 2020-2050 is established using:

- an average of all available data for CY 2020 from Bloomberg's Bi550 US Treasury BVAL curve and
- the 2021-2050 projections from the Global Insight's (GI) fourth-quarter November 2020 Long-Term Economic Outlook.

This table is then converted to BPA fiscal years (FY) by combining 75% of the current year's CY rate and 25% of the previous year's CY rate. For example, the value for BPA FY 2022 consists of 75% CY 2022 and 25% of CY 2021.

BPA's borrowing rate projections, tables 4 through 7, reflect a spread compared to the Treasury yield curve. The spread is calculated from historical data, not including any call features, and is then applied to the BPA FY Treasury table.

The FERC and LIBOR rates, table 8, are established by using the CY projections from GI's fourth-quarter November 2020 Long-Term Economic Outlook and then converted into BPA FY.

Inflation Forecast Methodology

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 2020. The projected change in the GDP price deflator and comparison with the FY 2020 inflation forecast is summarized in Table 9. Column A shows the projected trend in GDP inflation rates between 2021-2050 on a CY basis and in column B by BPA FY. Column C provides the cumulative price index projections. The forecast expresses FY dollar values as mid-year dollar values. Columns D and E show last year's projections while columns F and G show a comparison between the two years of projections.

If you are unsure about what interest rates apply to your analysis, consult "BPA Policy 210-1 Interest Rate" in the BPA Policy Library. To ensure that you are using the most up to date forecast, check the site below before use.

If you have questions concerning the FY 2021 Interest Rate and Inflation Forecasts please contact Bill Hendricks at wwhendricks@bpa.gov or (503) 230-5389.



Bill Hendricks
Financial Analyst
Revenue Requirement, Repayment, and Financial Strategy

Table 1

30 Year Borrowing Rate Comparison

FY 2021 Forecast of Appropriation, BPA Agency, Third-Part Taxable,
and Third-Party Tax-Exempt Borrowing Rates

BPA Fiscal Years 2021-2050

Year	A Appropriation Rate	B BPA Agency Rate	C Third-Party Tax-Exempt Rate	D Third-Party Taxable Rate
2021	1.38	2.31	2.17	2.84
2022	2.42	2.56	2.42	3.07
2023	2.62	2.80	2.65	3.29
2024	2.74	2.95	2.80	3.42
2025	2.87	3.12	2.96	3.56
2026	3.00	3.29	3.13	3.71
2027	3.13	3.45	3.29	3.85
2028	3.23	3.59	3.42	3.96
2029	3.36	3.71	3.54	4.08
2030	3.45	3.80	3.63	4.17
2031	3.51	3.86	3.69	4.23
2032	3.54	3.90	3.73	4.27
2033	3.56	3.91	3.74	4.28
2034	3.56	3.91	3.75	4.29
2035	3.56	3.92	3.75	4.29
2036	3.56	3.92	3.75	4.29
2037	3.56	3.92	3.75	4.29
2038	3.56	3.92	3.75	4.29
2039	3.56	3.92	3.75	4.29
2040	3.56	3.92	3.75	4.29
2041	3.56	3.92	3.75	4.29
2042	3.56	3.92	3.75	4.29
2043	3.56	3.92	3.75	4.29
2044	3.56	3.92	3.75	4.29
2045	3.56	3.92	3.75	4.29
2046	3.56	3.92	3.75	4.29
2047	3.56	3.92	3.75	4.29
2048	3.56	3.92	3.75	4.29
2049	3.56	3.92	3.75	4.29
2050	3.56	3.92	3.75	4.29

1/ All values represent a Bonneville Fiscal Year (October 1 - September 30).

2/ FY 2021 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 2

15 Year Borrowing Rate Comparison

FY 2021 Forecast of Appropriation, BPA Agency, Third-Part Taxable,
and Third-Party Tax-Exempt Borrowing Rates

BPA Fiscal Years 2021-2050

Year	A Appropriation Rate	B BPA Agency Rate	C Third-Party Tax-Exempt Rate	D Third-Party Taxable Rate
2021	1.00	1.58	1.43	2.13
2022	1.81	1.77	1.59	2.29
2023	1.99	1.99	1.79	2.49
2024	2.11	2.17	1.94	2.64
2025	2.27	2.38	2.12	2.82
2026	2.45	2.62	2.33	3.03
2027	2.63	2.85	2.53	3.23
2028	2.78	3.05	2.70	3.41
2029	2.95	3.22	2.87	3.58
2030	3.08	3.35	3.01	3.72
2031	3.17	3.44	3.09	3.80
2032	3.21	3.49	3.14	3.85
2033	3.24	3.51	3.16	3.87
2034	3.24	3.51	3.17	3.88
2035	3.24	3.51	3.17	3.88
2036	3.24	3.51	3.17	3.88
2037	3.24	3.51	3.17	3.88
2038	3.24	3.51	3.17	3.88
2039	3.24	3.51	3.17	3.88
2040	3.24	3.51	3.17	3.88
2041	3.24	3.51	3.17	3.88
2042	3.24	3.51	3.17	3.88
2043	3.24	3.51	3.17	3.88
2044	3.24	3.51	3.17	3.88
2045	3.24	3.51	3.17	3.88
2046	3.24	3.51	3.17	3.88
2047	3.24	3.51	3.17	3.88
2048	3.24	3.51	3.17	3.88
2049	3.24	3.52	3.17	3.88
2050	3.24	3.52	3.17	3.88

1/ All values represent a Bonneville Fiscal Year (October 1 - September 30).

2/ FY 2021 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 3

5 Year Borrowing Rate Comparison

FY 2021 Forecast of Appropriation, BPA Agency, Third-Part Taxable,
and Third-Party Tax-Exempt Borrowing Rates

BPA Fiscal Years 2021-2050

Year	A Appropriation Rate	B BPA Agency Rate	C Third-Party Tax-Exempt Rate	D Third-Party Taxable Rate
2021	0.32	0.69	0.63	1.15
2022	1.14	0.73	0.61	1.18
2023	1.22	0.88	0.71	1.32
2024	1.26	1.00	0.77	1.42
2025	1.34	1.17	0.87	1.57
2026	1.50	1.41	1.05	1.79
2027	1.73	1.72	1.31	2.09
2028	2.00	2.07	1.60	2.43
2029	2.34	2.41	1.94	2.77
2030	2.61	2.68	2.21	3.04
2031	2.79	2.86	2.39	3.22
2032	2.92	2.99	2.52	3.35
2033	2.97	3.04	2.57	3.40
2034	2.98	3.05	2.58	3.41
2035	2.98	3.05	2.58	3.41
2036	2.98	3.05	2.58	3.41
2037	2.98	3.05	2.58	3.41
2038	2.98	3.05	2.58	3.41
2039	2.98	3.05	2.58	3.41
2040	2.98	3.05	2.58	3.41
2041	2.98	3.05	2.58	3.41
2042	2.98	3.05	2.58	3.41
2043	2.98	3.05	2.58	3.41
2044	2.98	3.05	2.58	3.41
2045	2.98	3.05	2.58	3.41
2046	2.98	3.05	2.58	3.41
2047	2.98	3.05	2.58	3.41
2048	2.98	3.05	2.58	3.41
2049	2.98	3.05	2.58	3.41
2050	2.98	3.05	2.58	3.41

1/ All values represent a Bonneville Fiscal Year (October 1 - September 30).

2/ FY 2021 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 4

Appropriations Borrowing Rates

BPA Fiscal Years 2021-2050

(continued on next page)

Year	Maturity														
	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
2021	0.13	0.13	0.17	0.25	0.32	0.43	0.50	0.60	0.63	0.75	0.75	0.86	0.88	0.97	1.00
2022	0.94	1.00	1.05	1.10	1.14	1.24	1.33	1.42	1.52	1.61	1.65	1.69	1.73	1.77	1.81
2023	0.84	0.95	1.04	1.13	1.22	1.33	1.44	1.55	1.66	1.77	1.82	1.86	1.90	1.94	1.99
2024	0.74	0.87	1.00	1.13	1.26	1.39	1.51	1.64	1.77	1.90	1.94	1.98	2.02	2.07	2.11
2025	0.67	0.81	0.99	1.16	1.34	1.48	1.63	1.77	1.92	2.07	2.11	2.15	2.19	2.23	2.27
2026	0.68	0.86	1.07	1.29	1.50	1.65	1.80	1.96	2.11	2.26	2.30	2.34	2.37	2.41	2.45
2027	0.86	1.08	1.30	1.51	1.73	1.87	2.02	2.17	2.31	2.46	2.49	2.53	2.56	2.59	2.63
2028	1.20	1.43	1.62	1.81	2.00	2.12	2.25	2.37	2.50	2.62	2.65	2.68	2.71	2.75	2.78
2029	1.72	1.93	2.07	2.20	2.34	2.43	2.53	2.62	2.72	2.81	2.84	2.87	2.90	2.92	2.95
2030	2.19	2.36	2.44	2.52	2.61	2.68	2.75	2.82	2.89	2.96	2.98	3.01	3.03	3.06	3.08
2031	2.55	2.67	2.71	2.75	2.79	2.85	2.90	2.95	3.00	3.05	3.07	3.10	3.12	3.14	3.17
2032	2.80	2.89	2.90	2.91	2.92	2.96	2.99	3.03	3.07	3.11	3.13	3.15	3.17	3.19	3.21
2033	2.95	2.99	2.99	2.98	2.97	3.00	3.03	3.07	3.10	3.13	3.15	3.17	3.19	3.22	3.24
2034	2.98	3.01	3.00	2.99	2.98	3.01	3.04	3.07	3.10	3.13	3.16	3.18	3.20	3.22	3.24
2035	2.98	3.01	3.00	2.99	2.98	3.01	3.04	3.07	3.10	3.14	3.16	3.18	3.20	3.22	3.24
2036	2.98	3.01	3.00	2.99	2.98	3.01	3.04	3.07	3.10	3.14	3.16	3.18	3.20	3.22	3.24
2037	2.98	3.01	3.00	2.99	2.98	3.01	3.04	3.07	3.10	3.14	3.16	3.18	3.20	3.22	3.24
2038	2.98	3.01	3.00	2.99	2.98	3.01	3.04	3.07	3.10	3.14	3.16	3.18	3.20	3.22	3.24
2039	2.98	3.01	3.00	2.99	2.98	3.01	3.04	3.07	3.10	3.14	3.16	3.18	3.20	3.22	3.24
2040	2.98	3.01	3.00	2.99	2.98	3.01	3.04	3.07	3.10	3.14	3.16	3.18	3.20	3.22	3.24
2041	2.98	3.01	3.00	2.99	2.98	3.01	3.04	3.07	3.10	3.14	3.16	3.18	3.20	3.22	3.24
2042	2.98	3.01	3.00	2.99	2.98	3.01	3.04	3.07	3.10	3.14	3.16	3.18	3.20	3.22	3.24
2043	2.98	3.01	3.00	2.99	2.98	3.01	3.04	3.07	3.10	3.14	3.16	3.18	3.20	3.22	3.24
2044	2.98	3.01	3.00	2.99	2.98	3.01	3.04	3.07	3.10	3.14	3.16	3.18	3.20	3.22	3.24
2045	2.98	3.01	3.00	2.99	2.98	3.01	3.04	3.07	3.10	3.14	3.16	3.18	3.20	3.22	3.24
2046	2.98	3.01	3.00	2.99	2.98	3.01	3.04	3.07	3.10	3.14	3.16	3.18	3.20	3.22	3.24
2047	2.98	3.01	3.00	2.99	2.98	3.01	3.04	3.07	3.10	3.14	3.16	3.18	3.20	3.22	3.24
2048	2.98	3.01	3.00	2.99	2.98	3.01	3.04	3.07	3.10	3.14	3.16	3.18	3.20	3.22	3.24
2049	2.98	3.01	3.00	2.99	2.98	3.01	3.04	3.07	3.10	3.14	3.16	3.18	3.20	3.22	3.24
2050	2.98	3.01	3.00	2.99	2.98	3.01	3.04	3.07	3.11	3.14	3.16	3.18	3.20	3.22	3.24

1/ All values represent a Bonneville Fiscal Year (October 1 - September 30).

2/ FY 2021 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 4

Appropriations Borrowing Rates

BPA Fiscal Years 2021-2050

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
1.05	1.13	1.13	1.21	1.25	1.25	1.25	1.36	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	2021
1.85	1.89	1.93	1.97	2.01	2.05	2.10	2.14	2.18	2.22	2.26	2.30	2.34	2.38	2.42	2.42	2022
2.03	2.07	2.11	2.15	2.20	2.24	2.28	2.32	2.37	2.41	2.45	2.49	2.54	2.58	2.62	2.62	2023
2.15	2.19	2.23	2.28	2.32	2.36	2.40	2.44	2.49	2.53	2.57	2.61	2.66	2.70	2.74	2.74	2024
2.31	2.35	2.39	2.43	2.47	2.51	2.55	2.59	2.63	2.67	2.71	2.75	2.79	2.83	2.87	2.87	2025
2.49	2.52	2.56	2.60	2.63	2.67	2.71	2.74	2.78	2.82	2.86	2.89	2.93	2.97	3.00	3.00	2026
2.66	2.69	2.73	2.76	2.79	2.83	2.86	2.90	2.93	2.96	3.00	3.03	3.06	3.10	3.13	3.13	2027
2.81	2.84	2.87	2.90	2.93	2.96	2.99	3.02	3.05	3.08	3.11	3.14	3.17	3.20	3.23	3.23	2028
2.98	3.00	3.03	3.06	3.08	3.11	3.14	3.17	3.19	3.22	3.25	3.27	3.30	3.33	3.36	3.36	2029
3.11	3.13	3.16	3.18	3.20	3.23	3.25	3.28	3.30	3.33	3.35	3.38	3.40	3.42	3.45	3.45	2030
3.19	3.21	3.23	3.26	3.28	3.30	3.32	3.35	3.37	3.39	3.42	3.44	3.46	3.48	3.51	3.51	2031
3.24	3.26	3.28	3.30	3.32	3.35	3.37	3.39	3.41	3.43	3.45	3.48	3.50	3.52	3.54	3.54	2032
3.26	3.28	3.30	3.32	3.34	3.37	3.39	3.41	3.43	3.45	3.47	3.49	3.51	3.54	3.56	3.56	2033
3.26	3.28	3.31	3.33	3.35	3.37	3.39	3.41	3.43	3.45	3.48	3.50	3.52	3.54	3.56	3.56	2034
3.26	3.28	3.31	3.33	3.35	3.37	3.39	3.41	3.43	3.46	3.48	3.50	3.52	3.54	3.56	3.56	2035
3.26	3.29	3.31	3.33	3.35	3.37	3.39	3.41	3.43	3.46	3.48	3.50	3.52	3.54	3.56	3.56	2036
3.26	3.29	3.31	3.33	3.35	3.37	3.39	3.41	3.43	3.46	3.48	3.50	3.52	3.54	3.56	3.56	2037
3.26	3.28	3.31	3.33	3.35	3.37	3.39	3.41	3.43	3.46	3.48	3.50	3.52	3.54	3.56	3.56	2038
3.26	3.28	3.31	3.33	3.35	3.37	3.39	3.41	3.43	3.46	3.48	3.50	3.52	3.54	3.56	3.56	2039
3.26	3.29	3.31	3.33	3.35	3.37	3.39	3.41	3.43	3.46	3.48	3.50	3.52	3.54	3.56	3.56	2040
3.26	3.29	3.31	3.33	3.35	3.37	3.39	3.41	3.43	3.46	3.48	3.50	3.52	3.54	3.56	3.56	2041
3.26	3.29	3.31	3.33	3.35	3.37	3.39	3.41	3.43	3.46	3.48	3.50	3.52	3.54	3.56	3.56	2042
3.26	3.29	3.31	3.33	3.35	3.37	3.39	3.41	3.43	3.46	3.48	3.50	3.52	3.54	3.56	3.56	2043
3.26	3.29	3.31	3.33	3.35	3.37	3.39	3.41	3.43	3.46	3.48	3.50	3.52	3.54	3.56	3.56	2044
3.26	3.29	3.31	3.33	3.35	3.37	3.39	3.41	3.43	3.46	3.48	3.50	3.52	3.54	3.56	3.56	2045
3.26	3.29	3.31	3.33	3.35	3.37	3.39	3.41	3.43	3.46	3.48	3.50	3.52	3.54	3.56	3.56	2046
3.26	3.29	3.31	3.33	3.35	3.37	3.39	3.41	3.43	3.46	3.48	3.50	3.52	3.54	3.56	3.56	2047
3.26	3.29	3.31	3.33	3.35	3.37	3.39	3.41	3.43	3.46	3.48	3.50	3.52	3.54	3.56	3.56	2048
3.26	3.29	3.31	3.33	3.35	3.37	3.39	3.41	3.43	3.46	3.48	3.50	3.52	3.54	3.56	3.56	2049
3.26	3.29	3.31	3.33	3.35	3.37	3.39	3.41	3.43	3.46	3.48	3.50	3.52	3.54	3.56	3.56	2050

1/ All values represent a Bonneville Fiscal Year (October 1 - September 30).

2/ FY 2021 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 Agency Borrowing Rates

BPA Fiscal Years 2021-2050

(continued on next page)

Year	Maturity															
	6 Month	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
2021	0.33	0.33	0.40	0.49	0.59	0.69	0.82	0.95	1.08	1.21	1.34	1.39	1.44	1.48	1.53	1.58
2022	0.16	0.20	0.35	0.47	0.60	0.73	0.88	1.04	1.19	1.35	1.50	1.55	1.61	1.66	1.71	1.77
2023	0.16	0.23	0.42	0.57	0.73	0.88	1.05	1.22	1.39	1.56	1.72	1.78	1.83	1.89	1.94	1.99
2024	0.17	0.26	0.45	0.64	0.82	1.00	1.18	1.36	1.55	1.73	1.91	1.96	2.01	2.06	2.12	2.17
2025	0.19	0.32	0.51	0.73	0.95	1.17	1.36	1.55	1.75	1.94	2.13	2.18	2.23	2.28	2.33	2.38
2026	0.22	0.46	0.68	0.92	1.16	1.41	1.60	1.80	2.00	2.19	2.39	2.44	2.48	2.53	2.57	2.62
2027	0.46	0.77	1.02	1.25	1.48	1.72	1.90	2.09	2.27	2.46	2.64	2.68	2.72	2.76	2.81	2.85
2028	0.90	1.23	1.49	1.68	1.88	2.07	2.23	2.39	2.55	2.71	2.87	2.90	2.94	2.98	3.01	3.05
2029	1.44	1.76	1.99	2.13	2.27	2.41	2.54	2.67	2.80	2.93	3.06	3.09	3.12	3.16	3.19	3.22
2030	1.98	2.23	2.41	2.50	2.59	2.68	2.78	2.89	2.99	3.10	3.20	3.23	3.26	3.29	3.32	3.35
2031	2.39	2.58	2.72	2.77	2.82	2.86	2.95	3.04	3.12	3.21	3.30	3.32	3.35	3.38	3.41	3.44
2032	2.68	2.84	2.94	2.96	2.98	2.99	3.06	3.13	3.21	3.28	3.35	3.38	3.40	3.43	3.46	3.49
2033	2.88	2.98	3.05	3.05	3.04	3.04	3.11	3.17	3.24	3.31	3.37	3.40	3.43	3.46	3.48	3.51
2034	2.92	3.01	3.07	3.06	3.05	3.05	3.11	3.18	3.25	3.31	3.38	3.41	3.43	3.46	3.49	3.51
2035	2.92	3.01	3.07	3.06	3.05	3.05	3.12	3.18	3.25	3.31	3.38	3.41	3.43	3.46	3.49	3.51
2036	2.92	3.01	3.07	3.06	3.05	3.05	3.12	3.18	3.25	3.31	3.38	3.41	3.43	3.46	3.49	3.51
2037	2.92	3.01	3.07	3.06	3.05	3.05	3.12	3.18	3.25	3.31	3.38	3.41	3.43	3.46	3.49	3.51
2038	2.92	3.01	3.07	3.06	3.05	3.05	3.12	3.18	3.25	3.31	3.38	3.41	3.43	3.46	3.49	3.51
2039	2.92	3.01	3.07	3.06	3.05	3.05	3.12	3.18	3.25	3.31	3.38	3.41	3.43	3.46	3.49	3.51
2040	2.92	3.01	3.07	3.06	3.05	3.05	3.12	3.18	3.25	3.31	3.38	3.41	3.43	3.46	3.49	3.51
2041	2.92	3.01	3.07	3.06	3.05	3.05	3.12	3.18	3.25	3.31	3.38	3.41	3.43	3.46	3.49	3.51
2042	2.92	3.01	3.07	3.06	3.05	3.05	3.12	3.18	3.25	3.31	3.38	3.41	3.43	3.46	3.49	3.51
2043	2.92	3.01	3.07	3.06	3.05	3.05	3.12	3.18	3.25	3.31	3.38	3.41	3.43	3.46	3.49	3.51
2044	2.92	3.01	3.07	3.06	3.05	3.05	3.12	3.18	3.25	3.31	3.38	3.41	3.43	3.46	3.49	3.51
2045	2.92	3.01	3.07	3.06	3.05	3.05	3.12	3.18	3.25	3.31	3.38	3.41	3.43	3.46	3.49	3.51
2046	2.92	3.01	3.07	3.06	3.05	3.05	3.12	3.18	3.25	3.31	3.38	3.41	3.43	3.46	3.49	3.51
2047	2.92	3.01	3.07	3.06	3.05	3.05	3.12	3.18	3.25	3.31	3.38	3.41	3.43	3.46	3.49	3.51
2048	2.92	3.01	3.07	3.06	3.05	3.05	3.12	3.18	3.25	3.31	3.38	3.41	3.43	3.46	3.49	3.51
2049	2.92	3.01	3.07	3.06	3.05	3.05	3.12	3.18	3.25	3.31	3.38	3.41	3.43	3.46	3.49	3.52
2050	2.92	3.01	3.07	3.06	3.05	3.05	3.12	3.18	3.25	3.32	3.38	3.41	3.44	3.46	3.49	3.52

1/ All values represent a Bonneville Fiscal Year (October 1 - September 30).

Table 5

BPA Agency Borrowing Rates

BPA Fiscal Years 2021-2050

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
1.63	1.68	1.73	1.77	1.82	1.87	1.92	1.97	2.02	2.06	2.11	2.16	2.21	2.26	2.31	2.31	2021
1.82	1.87	1.93	1.98	2.03	2.09	2.14	2.19	2.25	2.30	2.35	2.40	2.46	2.51	2.56	2.56	2022
2.05	2.10	2.15	2.21	2.26	2.32	2.37	2.42	2.48	2.53	2.59	2.64	2.69	2.75	2.80	2.80	2023
2.22	2.27	2.33	2.38	2.43	2.48	2.54	2.59	2.64	2.69	2.74	2.80	2.85	2.90	2.95	2.95	2024
2.43	2.48	2.53	2.58	2.62	2.67	2.72	2.77	2.82	2.87	2.92	2.97	3.02	3.07	3.12	3.12	2025
2.66	2.70	2.75	2.79	2.84	2.88	2.93	2.97	3.02	3.06	3.11	3.15	3.20	3.24	3.29	3.29	2026
2.89	2.93	2.97	3.01	3.05	3.09	3.13	3.17	3.21	3.25	3.29	3.33	3.37	3.41	3.45	3.45	2027
3.08	3.12	3.16	3.19	3.23	3.26	3.30	3.34	3.37	3.41	3.44	3.48	3.52	3.55	3.59	3.59	2028
3.25	3.29	3.32	3.35	3.38	3.42	3.45	3.48	3.51	3.55	3.58	3.61	3.64	3.68	3.71	3.71	2029
3.38	3.41	3.44	3.47	3.50	3.53	3.56	3.59	3.62	3.65	3.68	3.71	3.74	3.77	3.80	3.80	2030
3.47	3.49	3.52	3.55	3.58	3.61	3.63	3.66	3.69	3.72	3.75	3.78	3.80	3.83	3.86	3.86	2031
3.51	3.54	3.57	3.60	3.62	3.65	3.68	3.70	3.73	3.76	3.79	3.81	3.84	3.87	3.90	3.90	2032
3.54	3.56	3.59	3.62	3.64	3.67	3.70	3.72	3.75	3.78	3.80	3.83	3.86	3.88	3.91	3.91	2033
3.54	3.57	3.59	3.62	3.65	3.67	3.70	3.73	3.75	3.78	3.81	3.83	3.86	3.89	3.91	3.91	2034
3.54	3.57	3.59	3.62	3.65	3.67	3.70	3.73	3.76	3.78	3.81	3.84	3.86	3.89	3.92	3.92	2035
3.54	3.57	3.59	3.62	3.65	3.68	3.70	3.73	3.76	3.78	3.81	3.84	3.86	3.89	3.92	3.92	2036
3.54	3.57	3.59	3.62	3.65	3.68	3.70	3.73	3.76	3.78	3.81	3.84	3.86	3.89	3.92	3.92	2037
3.54	3.57	3.59	3.62	3.65	3.68	3.70	3.73	3.76	3.78	3.81	3.84	3.86	3.89	3.92	3.92	2038
3.54	3.57	3.59	3.62	3.65	3.68	3.70	3.73	3.76	3.78	3.81	3.84	3.86	3.89	3.92	3.92	2039
3.54	3.57	3.59	3.62	3.65	3.68	3.70	3.73	3.76	3.78	3.81	3.84	3.86	3.89	3.92	3.92	2040
3.54	3.57	3.59	3.62	3.65	3.68	3.70	3.73	3.76	3.78	3.81	3.84	3.86	3.89	3.92	3.92	2041
3.54	3.57	3.59	3.62	3.65	3.68	3.70	3.73	3.76	3.78	3.81	3.84	3.86	3.89	3.92	3.92	2042
3.54	3.57	3.60	3.62	3.65	3.68	3.70	3.73	3.76	3.78	3.81	3.84	3.86	3.89	3.92	3.92	2043
3.54	3.57	3.60	3.62	3.65	3.68	3.70	3.73	3.76	3.78	3.81	3.84	3.86	3.89	3.92	3.92	2044
3.54	3.57	3.60	3.62	3.65	3.68	3.70	3.73	3.76	3.78	3.81	3.84	3.86	3.89	3.92	3.92	2045
3.54	3.57	3.60	3.62	3.65	3.68	3.70	3.73	3.76	3.78	3.81	3.84	3.86	3.89	3.92	3.92	2046
3.54	3.57	3.60	3.62	3.65	3.68	3.70	3.73	3.76	3.78	3.81	3.84	3.86	3.89	3.92	3.92	2047
3.54	3.57	3.60	3.62	3.65	3.68	3.70	3.73	3.76	3.78	3.81	3.84	3.86	3.89	3.92	3.92	2048
3.54	3.57	3.60	3.62	3.65	3.68	3.70	3.73	3.76	3.78	3.81	3.84	3.86	3.89	3.92	3.92	2049
3.54	3.57	3.60	3.62	3.65	3.68	3.70	3.73	3.76	3.78	3.81	3.84	3.86	3.89	3.92	3.92	2050

1/ All values represent a Bonneville Fiscal Year (October 1 - September 30).

Table 6

Third-Party Tax-Exempt Borrowing Rates

BPA Fiscal Years 2021-2050

(continued on next page)

Year	Maturity														
	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
2021	0.28	0.39	0.47	0.55	0.63	0.74	0.85	0.97	1.08	1.19	1.24	1.29	1.34	1.39	1.43
2022	0.10	0.28	0.39	0.50	0.61	0.75	0.89	1.03	1.17	1.31	1.37	1.42	1.48	1.54	1.59
2023	0.09	0.29	0.43	0.57	0.71	0.87	1.03	1.18	1.34	1.50	1.56	1.62	1.67	1.73	1.79
2024	0.07	0.26	0.43	0.60	0.77	0.95	1.12	1.30	1.47	1.65	1.70	1.76	1.82	1.88	1.94
2025	0.08	0.26	0.46	0.67	0.87	1.07	1.26	1.45	1.64	1.84	1.89	1.95	2.01	2.06	2.12
2026	0.17	0.37	0.60	0.82	1.05	1.25	1.45	1.66	1.86	2.06	2.11	2.16	2.22	2.27	2.33
2027	0.44	0.65	0.87	1.09	1.31	1.50	1.69	1.89	2.08	2.27	2.32	2.37	2.43	2.48	2.53
2028	0.85	1.06	1.24	1.42	1.60	1.77	1.94	2.12	2.29	2.46	2.51	2.56	2.60	2.65	2.70
2029	1.38	1.56	1.68	1.81	1.94	2.08	2.22	2.37	2.51	2.65	2.70	2.74	2.79	2.83	2.87
2030	1.85	1.98	2.06	2.13	2.21	2.33	2.44	2.56	2.68	2.80	2.84	2.88	2.92	2.97	3.01
2031	2.20	2.29	2.32	2.36	2.39	2.49	2.59	2.69	2.79	2.89	2.93	2.97	3.01	3.05	3.09
2032	2.46	2.51	2.51	2.52	2.52	2.60	2.69	2.77	2.86	2.94	2.98	3.02	3.06	3.10	3.14
2033	2.60	2.62	2.60	2.59	2.57	2.65	2.73	2.81	2.89	2.97	3.01	3.05	3.08	3.12	3.16
2034	2.63	2.63	2.62	2.60	2.58	2.66	2.74	2.81	2.89	2.97	3.01	3.05	3.09	3.13	3.17
2035	2.63	2.63	2.62	2.60	2.58	2.66	2.74	2.82	2.89	2.97	3.01	3.05	3.09	3.13	3.17
2036	2.63	2.63	2.61	2.60	2.58	2.66	2.74	2.82	2.89	2.97	3.01	3.05	3.09	3.13	3.17
2037	2.63	2.63	2.61	2.60	2.58	2.66	2.74	2.82	2.89	2.97	3.01	3.05	3.09	3.13	3.17
2038	2.63	2.63	2.61	2.60	2.58	2.66	2.74	2.82	2.89	2.97	3.01	3.05	3.09	3.13	3.17
2039	2.63	2.63	2.61	2.60	2.58	2.66	2.74	2.82	2.89	2.97	3.01	3.05	3.09	3.13	3.17
2040	2.63	2.63	2.61	2.60	2.58	2.66	2.74	2.82	2.89	2.97	3.01	3.05	3.09	3.13	3.17
2041	2.63	2.63	2.61	2.60	2.58	2.66	2.74	2.82	2.89	2.97	3.01	3.05	3.09	3.13	3.17
2042	2.63	2.63	2.61	2.60	2.58	2.66	2.74	2.82	2.89	2.97	3.01	3.05	3.09	3.13	3.17
2043	2.63	2.63	2.61	2.60	2.58	2.66	2.74	2.82	2.89	2.97	3.01	3.05	3.09	3.13	3.17
2044	2.63	2.63	2.61	2.60	2.58	2.66	2.74	2.82	2.89	2.97	3.01	3.05	3.09	3.13	3.17
2045	2.63	2.63	2.61	2.60	2.58	2.66	2.74	2.82	2.89	2.97	3.01	3.05	3.09	3.13	3.17
2046	2.63	2.63	2.61	2.60	2.58	2.66	2.74	2.82	2.90	2.97	3.01	3.05	3.09	3.13	3.17
2047	2.63	2.63	2.61	2.60	2.58	2.66	2.74	2.82	2.90	2.97	3.01	3.05	3.09	3.13	3.17
2048	2.63	2.63	2.61	2.60	2.58	2.66	2.74	2.82	2.90	2.97	3.01	3.05	3.09	3.13	3.17
2049	2.63	2.63	2.61	2.60	2.58	2.66	2.74	2.82	2.90	2.97	3.01	3.05	3.09	3.13	3.17
2050	2.63	2.63	2.61	2.60	2.58	2.66	2.74	2.82	2.90	2.98	3.01	3.05	3.09	3.13	3.17

1/ All values represent a Bonneville Fiscal Year (October 1 - September 30).

Table 6

Third-Party Tax-Exempt Borrowing Rates

BPA Fiscal Years 2021-2050

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
1.48	1.53	1.58	1.63	1.68	1.73	1.78	1.83	1.87	1.92	1.97	2.02	2.07	2.12	2.17	2.17	2021
1.65	1.70	1.76	1.81	1.87	1.92	1.98	2.03	2.09	2.14	2.20	2.26	2.31	2.37	2.42	2.42	2022
1.85	1.90	1.96	2.02	2.08	2.14	2.19	2.25	2.31	2.37	2.42	2.48	2.54	2.60	2.65	2.65	2023
1.99	2.05	2.11	2.17	2.22	2.28	2.34	2.40	2.46	2.51	2.57	2.63	2.69	2.74	2.80	2.80	2024
2.17	2.23	2.29	2.34	2.40	2.45	2.51	2.57	2.62	2.68	2.73	2.79	2.85	2.90	2.96	2.96	2025
2.38	2.43	2.49	2.54	2.59	2.65	2.70	2.75	2.81	2.86	2.91	2.97	3.02	3.07	3.13	3.13	2026
2.58	2.63	2.68	2.73	2.78	2.83	2.88	2.93	2.98	3.03	3.08	3.13	3.18	3.23	3.29	3.29	2027
2.75	2.80	2.84	2.89	2.94	2.99	3.04	3.08	3.13	3.18	3.23	3.27	3.32	3.37	3.42	3.42	2028
2.92	2.96	3.01	3.05	3.10	3.14	3.18	3.23	3.27	3.32	3.36	3.41	3.45	3.50	3.54	3.54	2029
3.05	3.09	3.13	3.17	3.22	3.26	3.30	3.34	3.38	3.42	3.47	3.51	3.55	3.59	3.63	3.63	2030
3.13	3.17	3.21	3.25	3.29	3.33	3.37	3.41	3.45	3.49	3.53	3.57	3.61	3.65	3.69	3.69	2031
3.18	3.22	3.26	3.30	3.33	3.37	3.41	3.45	3.49	3.53	3.57	3.61	3.65	3.69	3.73	3.73	2032
3.20	3.24	3.28	3.32	3.35	3.39	3.43	3.47	3.51	3.55	3.59	3.63	3.66	3.70	3.74	3.74	2033
3.20	3.24	3.28	3.32	3.36	3.40	3.44	3.48	3.51	3.55	3.59	3.63	3.67	3.71	3.75	3.75	2034
3.21	3.24	3.28	3.32	3.36	3.40	3.44	3.48	3.51	3.55	3.59	3.63	3.67	3.71	3.75	3.75	2035
3.21	3.24	3.28	3.32	3.36	3.40	3.44	3.48	3.51	3.55	3.59	3.63	3.67	3.71	3.75	3.75	2036
3.21	3.24	3.28	3.32	3.36	3.40	3.44	3.48	3.51	3.55	3.59	3.63	3.67	3.71	3.75	3.75	2037
3.21	3.24	3.28	3.32	3.36	3.40	3.44	3.48	3.51	3.55	3.59	3.63	3.67	3.71	3.75	3.75	2038
3.21	3.24	3.28	3.32	3.36	3.40	3.44	3.48	3.51	3.55	3.59	3.63	3.67	3.71	3.75	3.75	2039
3.21	3.24	3.28	3.32	3.36	3.40	3.44	3.48	3.51	3.55	3.59	3.63	3.67	3.71	3.75	3.75	2040
3.21	3.24	3.28	3.32	3.36	3.40	3.44	3.48	3.51	3.55	3.59	3.63	3.67	3.71	3.75	3.75	2041
3.21	3.24	3.28	3.32	3.36	3.40	3.44	3.48	3.52	3.55	3.59	3.63	3.67	3.71	3.75	3.75	2042
3.21	3.24	3.28	3.32	3.36	3.40	3.44	3.48	3.52	3.55	3.59	3.63	3.67	3.71	3.75	3.75	2043
3.21	3.24	3.28	3.32	3.36	3.40	3.44	3.48	3.52	3.55	3.59	3.63	3.67	3.71	3.75	3.75	2044
3.21	3.24	3.28	3.32	3.36	3.40	3.44	3.48	3.52	3.55	3.59	3.63	3.67	3.71	3.75	3.75	2045
3.21	3.24	3.28	3.32	3.36	3.40	3.44	3.48	3.52	3.55	3.59	3.63	3.67	3.71	3.75	3.75	2046
3.21	3.24	3.28	3.32	3.36	3.40	3.44	3.48	3.52	3.55	3.59	3.63	3.67	3.71	3.75	3.75	2047
3.21	3.24	3.28	3.32	3.36	3.40	3.44	3.48	3.52	3.55	3.59	3.63	3.67	3.71	3.75	3.75	2048
3.21	3.24	3.28	3.32	3.36	3.40	3.44	3.48	3.52	3.55	3.59	3.63	3.67	3.71	3.75	3.75	2049
3.21	3.25	3.28	3.32	3.36	3.40	3.44	3.48	3.52	3.55	3.59	3.63	3.67	3.71	3.75	3.75	2050

1/ All values represent a Bonneville Fiscal Year (October 1 - September 30).

Table 7

Third-Party Taxable Borrowing Rates

BPA Fiscal Years 2021-2050

(continued on next page)

Year	Maturity														
	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
2021	0.71	0.79	0.91	1.03	1.15	1.30	1.45	1.60	1.74	1.89	1.94	1.99	2.03	2.08	2.13
2022	0.57	0.73	0.88	1.03	1.18	1.35	1.52	1.69	1.86	2.03	2.08	2.13	2.18	2.24	2.29
2023	0.59	0.78	0.96	1.14	1.32	1.50	1.68	1.86	2.04	2.22	2.27	2.33	2.38	2.43	2.49
2024	0.61	0.80	1.01	1.22	1.42	1.61	1.80	2.00	2.19	2.38	2.43	2.48	2.53	2.59	2.64
2025	0.66	0.85	1.09	1.33	1.57	1.77	1.97	2.17	2.38	2.58	2.63	2.67	2.72	2.77	2.82
2026	0.79	1.01	1.27	1.53	1.79	2.00	2.20	2.40	2.60	2.81	2.85	2.90	2.94	2.99	3.03
2027	1.09	1.33	1.58	1.84	2.09	2.28	2.47	2.65	2.84	3.03	3.07	3.11	3.15	3.19	3.23
2028	1.54	1.79	2.00	2.21	2.43	2.59	2.75	2.91	3.07	3.23	3.26	3.30	3.34	3.37	3.41
2029	2.06	2.29	2.45	2.61	2.77	2.90	3.03	3.16	3.29	3.42	3.45	3.49	3.52	3.55	3.58
2030	2.53	2.71	2.82	2.93	3.04	3.14	3.25	3.35	3.46	3.56	3.59	3.63	3.66	3.69	3.72
2031	2.89	3.02	3.09	3.15	3.22	3.31	3.40	3.48	3.57	3.66	3.68	3.71	3.74	3.77	3.80
2032	3.14	3.24	3.28	3.31	3.35	3.42	3.49	3.57	3.64	3.71	3.74	3.77	3.79	3.82	3.85
2033	3.29	3.35	3.36	3.38	3.40	3.47	3.53	3.60	3.67	3.73	3.76	3.79	3.82	3.84	3.87
2034	3.32	3.36	3.38	3.39	3.41	3.47	3.54	3.61	3.67	3.74	3.77	3.79	3.82	3.85	3.88
2035	3.32	3.36	3.38	3.39	3.41	3.47	3.54	3.61	3.67	3.74	3.77	3.79	3.82	3.85	3.88
2036	3.32	3.36	3.38	3.39	3.41	3.47	3.54	3.61	3.67	3.74	3.77	3.79	3.82	3.85	3.88
2037	3.32	3.36	3.38	3.39	3.41	3.47	3.54	3.61	3.67	3.74	3.77	3.79	3.82	3.85	3.88
2038	3.32	3.36	3.38	3.39	3.41	3.47	3.54	3.61	3.67	3.74	3.77	3.79	3.82	3.85	3.88
2039	3.32	3.36	3.38	3.39	3.41	3.47	3.54	3.61	3.67	3.74	3.77	3.79	3.82	3.85	3.88
2040	3.32	3.36	3.38	3.39	3.41	3.47	3.54	3.61	3.67	3.74	3.77	3.79	3.82	3.85	3.88
2041	3.32	3.36	3.38	3.39	3.41	3.47	3.54	3.61	3.67	3.74	3.77	3.79	3.82	3.85	3.88
2042	3.32	3.36	3.38	3.39	3.41	3.47	3.54	3.61	3.67	3.74	3.77	3.80	3.82	3.85	3.88
2043	3.32	3.36	3.38	3.39	3.41	3.47	3.54	3.61	3.67	3.74	3.77	3.80	3.82	3.85	3.88
2044	3.32	3.36	3.38	3.39	3.41	3.47	3.54	3.61	3.67	3.74	3.77	3.80	3.82	3.85	3.88
2045	3.32	3.36	3.38	3.39	3.41	3.47	3.54	3.61	3.67	3.74	3.77	3.80	3.82	3.85	3.88
2046	3.32	3.36	3.38	3.39	3.41	3.47	3.54	3.61	3.67	3.74	3.77	3.80	3.82	3.85	3.88
2047	3.32	3.36	3.38	3.39	3.41	3.47	3.54	3.61	3.67	3.74	3.77	3.80	3.82	3.85	3.88
2048	3.32	3.36	3.38	3.39	3.41	3.47	3.54	3.61	3.67	3.74	3.77	3.80	3.82	3.85	3.88
2049	3.32	3.36	3.38	3.39	3.41	3.47	3.54	3.61	3.67	3.74	3.77	3.80	3.82	3.85	3.88
2050	3.32	3.36	3.38	3.39	3.41	3.47	3.54	3.61	3.67	3.74	3.77	3.80	3.82	3.85	3.88

1/ All values represent a Bonneville Fiscal Year (October 1 - September 30).

Table 7

Third-Party Taxable Borrowing Rates

BPA Fiscal Years 2021-2050

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
2.18	2.22	2.27	2.32	2.37	2.41	2.46	2.51	2.56	2.60	2.65	2.70	2.75	2.79	2.84	2.84	2021
2.34	2.39	2.45	2.50	2.55	2.60	2.66	2.71	2.76	2.81	2.87	2.92	2.97	3.02	3.07	3.07	2022
2.54	2.60	2.65	2.70	2.76	2.81	2.86	2.92	2.97	3.02	3.08	3.13	3.18	3.24	3.29	3.29	2023
2.69	2.74	2.79	2.85	2.90	2.95	3.00	3.05	3.11	3.16	3.21	3.26	3.31	3.37	3.42	3.42	2024
2.87	2.92	2.97	3.02	3.07	3.12	3.16	3.21	3.26	3.31	3.36	3.41	3.46	3.51	3.56	3.56	2025
3.08	3.12	3.17	3.21	3.26	3.30	3.35	3.39	3.44	3.48	3.53	3.57	3.62	3.66	3.71	3.71	2026
3.28	3.32	3.36	3.40	3.44	3.48	3.52	3.56	3.60	3.64	3.68	3.72	3.76	3.80	3.85	3.85	2027
3.45	3.48	3.52	3.56	3.59	3.63	3.67	3.70	3.74	3.78	3.81	3.85	3.89	3.92	3.96	3.96	2028
3.62	3.65	3.68	3.72	3.75	3.78	3.82	3.85	3.88	3.92	3.95	3.98	4.01	4.05	4.08	4.08	2029
3.75	3.78	3.81	3.84	3.87	3.90	3.93	3.96	3.99	4.02	4.05	4.08	4.11	4.14	4.17	4.17	2030
3.83	3.86	3.89	3.92	3.94	3.97	4.00	4.03	4.06	4.09	4.12	4.15	4.18	4.20	4.23	4.23	2031
3.88	3.90	3.93	3.96	3.99	4.02	4.04	4.07	4.10	4.13	4.16	4.18	4.21	4.24	4.27	4.27	2032
3.90	3.93	3.95	3.98	4.01	4.04	4.06	4.09	4.12	4.15	4.17	4.20	4.23	4.26	4.28	4.28	2033
3.90	3.93	3.96	3.99	4.01	4.04	4.07	4.10	4.12	4.15	4.18	4.21	4.23	4.26	4.29	4.29	2034
3.90	3.93	3.96	3.99	4.01	4.04	4.07	4.10	4.12	4.15	4.18	4.21	4.23	4.26	4.29	4.29	2035
3.90	3.93	3.96	3.99	4.01	4.04	4.07	4.10	4.12	4.15	4.18	4.21	4.23	4.26	4.29	4.29	2036
3.90	3.93	3.96	3.99	4.01	4.04	4.07	4.10	4.12	4.15	4.18	4.21	4.23	4.26	4.29	4.29	2037
3.90	3.93	3.96	3.99	4.01	4.04	4.07	4.10	4.12	4.15	4.18	4.21	4.23	4.26	4.29	4.29	2038
3.90	3.93	3.96	3.99	4.01	4.04	4.07	4.10	4.12	4.15	4.18	4.21	4.23	4.26	4.29	4.29	2039
3.90	3.93	3.96	3.99	4.01	4.04	4.07	4.10	4.12	4.15	4.18	4.21	4.23	4.26	4.29	4.29	2040
3.90	3.93	3.96	3.99	4.01	4.04	4.07	4.10	4.12	4.15	4.18	4.21	4.23	4.26	4.29	4.29	2041
3.90	3.93	3.96	3.99	4.01	4.04	4.07	4.10	4.12	4.15	4.18	4.21	4.23	4.26	4.29	4.29	2042
3.90	3.93	3.96	3.99	4.01	4.04	4.07	4.10	4.12	4.15	4.18	4.21	4.23	4.26	4.29	4.29	2043
3.90	3.93	3.96	3.99	4.01	4.04	4.07	4.10	4.12	4.15	4.18	4.21	4.23	4.26	4.29	4.29	2044
3.90	3.93	3.96	3.99	4.01	4.04	4.07	4.10	4.12	4.15	4.18	4.21	4.23	4.26	4.29	4.29	2045
3.90	3.93	3.96	3.99	4.01	4.04	4.07	4.10	4.12	4.15	4.18	4.21	4.23	4.26	4.29	4.29	2046
3.90	3.93	3.96	3.99	4.01	4.04	4.07	4.10	4.12	4.15	4.18	4.21	4.23	4.26	4.29	4.29	2047
3.90	3.93	3.96	3.99	4.01	4.04	4.07	4.10	4.12	4.15	4.18	4.21	4.23	4.26	4.29	4.29	2048
3.91	3.93	3.96	3.99	4.01	4.04	4.07	4.10	4.12	4.15	4.18	4.21	4.23	4.26	4.29	4.29	2049
3.91	3.93	3.96	3.99	4.01	4.04	4.07	4.10	4.12	4.15	4.18	4.21	4.23	4.26	4.29	4.29	2050

1/ All values represent a Bonneville Fiscal Year (October 1 - September 30).

Table 8
FERC (Bank Prime) and 3-Month LIBOR Borrowing Rates
 BPA Fiscal Years 2021-2050

Year	A FERC Rate	B 3-Month LIBOR Rate
2021	3.32	0.34
2022	3.25	0.29
2023	3.25	0.35
2024	3.25	0.39
2025	3.25	0.42
2026	3.26	0.44
2027	3.45	0.61
2028	3.81	0.93
2029	4.28	1.36
2030	4.78	1.82
2031	5.18	2.06
2032	5.46	2.10
2033	5.69	2.10
2034	5.75	2.10
2035	5.75	2.10
2036	5.75	2.10
2037	5.75	2.10
2038	5.75	2.10
2039	5.75	2.10
2040	5.75	2.10
2041	5.75	2.10
2042	5.75	2.10
2043	5.75	2.10
2044	5.75	2.10
2045	5.75	2.10
2046	5.75	2.10
2047	5.75	2.10
2048	5.75	2.10
2049	5.75	2.10
2050	5.75	2.10

1/ All values represent a Bonneville Fiscal Year (October 1 - September 30).

Table 9
Inflation Forecast and Comparison
 BPA Fiscal Years 2021-2050

Year	A 2021 Calendar Year GDP Price Deflator	B 2021 Fiscal Year GDP Price Deflator	C 2021 Fiscal Year Cumulative Price Deflator (Base Year 2020)	D 2020 Fiscal Year GDP Price Deflator	E 2020 Fiscal Year Cumulative Price Deflator (Base Year 2020)	F Change in the GDP Price Deflator (B-D)	G Change in the Cumulative Price Deflator (C-E)
2021	1.93%	1.74%	1.009	2.51%	1.025	-0.77%	-0.016
2022	2.01%	1.99%	1.029	2.55%	1.051	-0.56%	-0.022
2023	2.07%	2.06%	1.050	2.53%	1.078	-0.47%	-0.028
2024	2.09%	2.08%	1.072	2.43%	1.104	-0.35%	-0.032
2025	2.11%	2.10%	1.094	2.32%	1.130	-0.21%	-0.035
2026	2.17%	2.16%	1.118	2.25%	1.155	-0.09%	-0.037
2027	2.30%	2.27%	1.143	2.25%	1.181	0.01%	-0.038
2028	2.38%	2.36%	1.170	2.27%	1.208	0.09%	-0.038
2029	2.39%	2.39%	1.198	2.29%	1.236	0.09%	-0.038
2030	2.41%	2.40%	1.227	2.24%	1.264	0.16%	-0.037
2031	2.30%	2.33%	1.256	2.19%	1.292	0.14%	-0.036
2032	2.29%	2.29%	1.284	2.16%	1.319	0.14%	-0.035
2033	2.28%	2.28%	1.314	2.14%	1.348	0.14%	-0.034
2034	2.27%	2.27%	1.344	2.10%	1.376	0.17%	-0.033
2035	2.27%	2.27%	1.374	2.10%	1.405	0.17%	-0.031
2036	2.25%	2.25%	1.405	2.08%	1.435	0.17%	-0.030
2037	2.23%	2.23%	1.436	2.09%	1.464	0.15%	-0.028
2038	2.23%	2.23%	1.468	2.09%	1.495	0.14%	-0.027
2039	2.23%	2.23%	1.501	2.08%	1.526	0.15%	-0.025
2040	2.25%	2.25%	1.535	2.07%	1.558	0.17%	-0.023
2041	2.22%	2.23%	1.569	2.09%	1.590	0.14%	-0.021
2042	2.25%	2.24%	1.604	2.11%	1.624	0.14%	-0.019
2043	2.28%	2.27%	1.641	2.12%	1.658	0.15%	-0.017
2044	2.28%	2.28%	1.678	2.13%	1.693	0.15%	-0.015
2045	2.28%	2.28%	1.716	2.15%	1.730	0.13%	-0.013
2046	2.28%	2.28%	1.756	2.15%	1.767	0.13%	-0.011
2047	2.29%	2.29%	1.796	2.15%	1.805	0.14%	-0.009
2048	2.30%	2.30%	1.837	2.16%	1.844	0.15%	-0.007
2049	2.32%	2.31%	1.880	2.16%	1.883	0.15%	-0.004
2050	2.34%	2.34%	1.923				

1/ All values represent a Bonneville Fiscal Year (October 1 - September 30).

Except for Column A which represents a standard Calendar Year.

2/ Fiscal Year Cumulative Price Deflator escalates to midyear dollars. The first year, 2021, is determined as follows: $1.009 = (.0174 * .5) + 1$.

An example of subsequent year cumulative growth, such as in 2022, is found as: $1.029 = (1 + .0199) * 1.009$

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 Power Services: 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 used to fund investments in energy efficiency projects. No new conservation bonds have been issued since FY 2015. 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.

BPA no longer issues conservation bonds to fund the capital portion of BPA's conservation program. Instead, the program is treated as a current year expense.

Reclamation/Corps direct funding bonds have a maximum maturity of 30 years although they may be issued for shorter durations or refinanced up to a maximum maturity of 45 years. Construction bonds are given a maximum repayment period of 6 years. Conservation bonds, issued through FY 2015, have a maximum maturity of 12 years. Fish and Wildlife bonds have a maximum maturity of 15 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.

Projected bonds reflect a borrowing plant that incorporates timing differences between capital spending and the actual borrowing. BPA does not typically issue new bonds every month to finance capital spending. Instead, it uses current reserves and replenishes reserves as needed. The amount yet to be borrowed is classified as "deferred borrowing." For the purposes of the repayment modeling, all deferred borrowing is assumed to be reduced to zero by the end of the rate period.

Table 7A

**BPA Projected Generation Treasury Borrowing
FY 2021 - 2023
(\$000s)**

	A	B	C	D
FY	Description	Interest Rate	Term	Total Borrowing
3 2021	Corps of Engineers	0.33%	15 mo	82,000
4	Corps of Engineers	0.33%	13 mo	82,000
5	Corps of Engineers	0.33%	1	82,000
6	Power Agency Services	0.33%	1	2,000
7	Fish and Wildlife	0.33%	1	20,000
8	TOTAL			268,000
9				
10 2022	Bureau of Reclamation	0.16%	3 mo	49,784
11	Corps of Engineers	0.16%	5 mo	61,720
13	Corps of Engineers	0.20%	15 mo	61,720
14	Corps of Engineers	0.20%	15 mo	61,720
15	Power Agency Services	0.16%	3 mo	7,152
16	Fish and Wildlife	0.20%	15 mo	43,000
17	TOTAL			285,095
18				
19 2023	Bureau of Reclamation	0.16%	3 mo	54,060
20	Bureau of Reclamation	2.75%	29	1,039
23	Corps of Engineers	0.16%	5 mo	66,162
24	Corps of Engineers	0.16%	3 mo	66,162
26	Corps of Engineers	0.16%	3 mo	66,162
28	Corps of Engineers	2.32%	21	85,722
30	Power Agency Services	1.05%	6	7,063
32	Power Agency Services	0.73%	4	27,118
34	Fish and Wildlife	1.99%	15	43,000
36	Fish and Wildlife	1.99%	15	65,998
38	TOTAL			482,485

Table 7B

**BPA Projected Generation Appropriations
FY 2021 - 2023
(\$000s)**

	A	B	C	D
<u>FY</u>	<u>Description</u>	<u>Interest Rate</u>	<u>Term</u>	<u>Total Borrowing</u>
1 2021	Columbia River Fish Mitigation	1.38%	50	10,731
2 2022	Columbia River Fish Mitigation	2.42%	50	8,210
3 2023	Columbia River Fish Mitigation	2.62%	50	<u>8,656</u>
4	TOTAL			27,597

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8. NON-FEDERAL DEBT SERVICE

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 Table 8A are based on the amount of non-Federal debt outstanding shown in BPA fiscal year values, as it will be reflected in BPA financial statements. Table 8B shows the principal payments in the bond holder's fiscal year which is used in the debt to asset ratio calculations. 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
Non-Federal Debt Service -- BPA Fiscal Year
(\$000s)

		A	B
Interest		2022	2023
1	WNP-1	38,892	39,175
2	CGS	143,632	136,261
3	CGS Adjustments	(3,859)	(3,484)
4	CGS Expenses	<u>323</u>	<u>322</u>
6	CGS Total	140,096	133,098
7	WNP-3	46,118	46,192
8	Wasco	279	195
9	Cowlitz	<u>3,079</u>	<u>2,868</u>
10	Total	228,465	221,529
 Principal		 2022	 2023
11	WNP-1	296	-
12	CGS	59,318	14,925
15	TVA Revenue Offset	<u>(49,500)</u>	
16	CGS Total	9,818	14,925
17	WNP-3	-	-
18	Wasco	1,671	1,751
19	Cowlitz	<u>4,220</u>	<u>4,435</u>
20	Total	16,005	21,111

Table 8B
Non-Federal Principal-- Bond Holder Fiscal Year
(\$000s)

		A	B
		2022	2023
1	WNP-1	395	-
2	CGS	74,750	13,020
5	WNP-3	-	-
6	Wasco	1,605	1,685
7	Cowlitz	4,020	4,220
8	Total	80,770	18,925

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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	2021	Columbia Basin	12,660	
2		Greater Wenatchee	2,549	
3		Yakima, Kennewick	4,816	
4		Yakima, Roza	<u>2,087</u>	
5	2021 Total			22,112
6	2022	Columbia Basin	15,437	
7		Yakima, Roza	<u>623</u>	
8	2022 Total			16,060
9	2023	Columbia Basin	9,671	
10		Rogue River	<u>3,091</u>	
11	2023 Total			12,762
12	2024	Columbia Basin	7,710	
13	2024 Total			7,710
14	2025	Columbia Basin	12,314	
15		Crooked River Ext	<u>1,122</u>	
16	2025 Total			13,436
17	2026	Columbia Basin	12,772	
18		Whitestone Coulee Unit	3,810	
19		Yakima, Roza	<u>3,144</u>	
20	2026 Total			19,726
21	2027	Columbia Basin	3,890	
22		Rogue River	<u>2,194</u>	
23	2027 Total			6,084
24	2028	Columbia Basin	6,923	
25		The Dalles	<u>4,204</u>	
26	2028 Total			11,126
27	2029	Baker	4,065	
28	2029 Total			4,065
29	2030	East Greenacres-Rathdrum	1,996	
30	2030 Total			1,996
31	2031	Columbia Basin	10,433	
32	2031 Total			10,433
33	2033	Rogue River	4,347	
34	2033 Total			4,347
35	2035	Columbia Basin	7,695	
36	2035 Total			7,695

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

	A	B	C	
	Fiscal Year Due	Project	Amount	Total
37	2036	Manson Unit	16,163	
38		Tualatin	9,098	
39		Whitestone Coulee Unit	<u>3,660</u>	
40	2036 Total			28,920
41	2037	Columbia Basin	11,963	
42		East Greenacres-Rathdrum	<u>3,465</u>	
43	2037 Total			15,427
44	2039	Tualatin	13,995	
45	2039 Total			13,995
46	2041	Oroville Tonasket	73,659	
47	2041 Total			73,659
48	2045	Columbia Basin	11,479	
49	2045 Total			11,479
50				
51	Grand Total:			<u>281,033</u>

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

10. REPLACEMENTS PROJECTED AFTER THE COST EVALUATION PERIOD

10.1 Introduction

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

10.2 Methodology

The repayment study incorporates a schedule of Federal investment with the replacements that are expected to occur over the repayment period for existing generation projects. This schedule, expressed in mid-year dollars for each repayment study, FY 2022 and 2023, 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.

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 37 years.

Table 10A
Corps/Reclamation Replacements (FY 2022)
(\$000s)

	A	B	C	D
	In Service Date	Due Date	Current Principal	Interest Rate
1	2023	2068	232,590	2.560%
2	2024	2069	232,590	2.560%
3	2025	2070	232,590	2.560%
4	2026	2071	232,590	2.560%
5	2027	2072	232,590	2.560%
6	2028	2073	232,590	2.560%
7	2029	2074	232,590	2.560%
8	2030	2075	232,590	2.560%
9	2031	2076	232,590	2.560%
10	2032	2077	232,590	2.560%
11	2033	2078	232,590	2.560%
12	2034	2079	232,590	2.560%
13	2035	2080	232,590	2.560%
14	2036	2081	232,590	2.560%
15	2037	2082	232,590	2.560%
16	2038	2083	232,590	2.560%
17	2039	2084	232,590	2.560%
18	2040	2085	232,590	2.560%
19	2041	2086	232,590	2.560%
20	2042	2087	232,590	2.560%
21	2043	2088	232,590	2.560%
22	2044	2089	232,590	2.560%
23	2045	2090	232,590	2.560%
24	2046	2091	232,590	2.560%
25	2047	2092	232,590	2.560%
26	2048	2093	232,590	2.560%
27	2049	2094	232,590	2.560%
28	2050	2095	232,590	2.560%
29	2051	2096	232,590	2.560%
30	2052	2097	232,590	2.560%
31	2053	2098	232,590	2.560%
32	2054	2099	232,590	2.560%
33	2055	2100	232,590	2.560%
34	2056	2101	232,590	2.560%
35	2057	2102	232,590	2.560%
36	2058	2103	232,590	2.560%
37	2059	2104	232,590	2.560%
38	2060	2105	232,590	2.560%
39	2061	2106	232,590	2.560%
40	2062	2107	232,590	2.560%
41	2063	2108	232,590	2.560%
42	2064	2109	232,590	2.560%
43	2065	2110	232,590	2.560%
44	2066	2111	232,590	2.560%
45	2067	2112	232,590	2.560%
46	2068	2113	232,590	2.560%
47	2069	2114	232,590	2.560%
48	2070	2115	232,590	2.560%
49	2071	2116	232,590	2.560%
50	2072	2117	232,590	2.560%

Table 10B
Corps/Reclamation Replacements (FY 2023)
(\$000s)

	A	B	C	D
	In Service Date	Due Date	Current Principal	Interest Rate
1	2024	2069	252,839	2.800%
2	2025	2070	252,839	2.800%
3	2026	2071	252,839	2.800%
4	2027	2072	252,839	2.800%
5	2028	2073	252,839	2.800%
6	2029	2074	252,839	2.800%
7	2030	2075	252,839	2.800%
8	2031	2076	252,839	2.800%
9	2032	2077	252,839	2.800%
10	2033	2078	252,839	2.800%
11	2034	2079	252,839	2.800%
12	2035	2080	252,839	2.800%
13	2036	2081	252,839	2.800%
14	2037	2082	252,839	2.800%
15	2038	2083	252,839	2.800%
16	2039	2084	252,839	2.800%
17	2040	2085	252,839	2.800%
18	2041	2086	252,839	2.800%
19	2042	2087	252,839	2.800%
20	2043	2088	252,839	2.800%
21	2044	2089	252,839	2.800%
22	2045	2090	252,839	2.800%
23	2046	2091	252,839	2.800%
24	2047	2092	252,839	2.800%
25	2048	2093	252,839	2.800%
26	2049	2094	252,839	2.800%
27	2050	2095	252,839	2.800%
28	2051	2096	252,839	2.800%
29	2052	2097	252,839	2.800%
30	2053	2098	252,839	2.800%
31	2054	2099	252,839	2.800%
32	2055	2100	252,839	2.800%
33	2056	2101	252,839	2.800%
34	2057	2102	252,839	2.800%
35	2058	2103	252,839	2.800%
36	2059	2104	252,839	2.800%
37	2060	2105	252,839	2.800%
38	2061	2106	252,839	2.800%
39	2062	2107	252,839	2.800%
40	2063	2108	252,839	2.800%
41	2064	2109	252,839	2.800%
42	2065	2110	252,839	2.800%
43	2066	2111	252,839	2.800%
44	2067	2112	252,839	2.800%
45	2068	2113	252,839	2.800%
46	2069	2114	252,839	2.800%
47	2070	2115	252,839	2.800%
48	2071	2116	252,839	2.800%
49	2072	2117	252,839	2.800%
50	2073	2118	252,839	2.800%

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

	A	B
	Fiscal Year	Total Debt Service
1	2045	489,037
2	2046	489,035
3	2047	489,037
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	489,036
12	2056	489,034
13	2057	489,034
14	2058	489,035
15	2059	489,038
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	489,037
24	2068	489,035
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	489,035
33	2077	489,034
34	2078	489,034
35	2079	482,331
36	2080	462,225
37	2081	462,225
38	2082	462,225
39	2083	462,225
40	2084	462,225
41	2085	462,225
42	2086	462,225
43	2087	462,225
44	2088	462,225
45	2089	462,225
46	2090	462,225
47	2091	462,225
48	2092	462,225
49	2093	462,225
50	2094	346,669

11. REPAYMENT STUDY DATA, FY 2022 STUDY

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

	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%	1,105	0		
48	Albeni Falls	09/1995	09/2045	7.150%	443	0		
49	Albeni Falls	09/1995	09/2045	7.150%	531	0		
50	Albeni Falls	09/1996	09/2016	7.290%	130	0		
51	Albeni Falls	09/1997	09/2047	7.150%	431	0		
52	Albeni Falls	09/2005	09/2055	5.125%	481	0		
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		

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

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
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		
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		

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

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
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	0		
137	Boise	09/1996	09/2046	7.150%	656	0		
138	Boise	09/1997	09/2047	6.950%	9	0		
139	Boise	09/1997	09/2047	7.150%	2,266	0		
140	Boise	09/2005	09/2055	5.125%	903	0		
141	Boise	09/2006	09/2056	4.500%	15	0		
142	Boise	09/2007	09/2057	5.000%	76	0		
143	Boise	09/2008	09/2058	4.875%	64	0		
144	Boise	09/2009	09/2059	4.375%	2	2		
145	Boise	09/2015	09/2065	3.250%	0	0		
146	Boise	09/2016	09/2066	3.000%	118	118		
147	Boise	09/2018	09/2068	2.750%				
148	Bonneville 2nd Powerhouse	09/1981	09/2031	7.150%	40,964	0		
149	Bonneville 2nd Powerhouse	09/1981	09/2031	7.150%	455	0		
150	Bonneville 2nd Powerhouse	09/1982	09/2032	7.150%	203,535	0		
151	Bonneville 2nd Powerhouse	09/1982	09/2032	7.150%	2,264	0		
152	Bonneville 2nd Powerhouse	09/1983	09/2033	7.150%	62,409	0		
153	Bonneville 2nd Powerhouse	09/1983	09/2033	7.150%	694	0		
154	Bonneville 2nd Powerhouse	09/1985	09/2033	7.150%	9,138	0		
155	Bonneville 2nd Powerhouse	09/1986	09/2033	7.150%	30,578	0		
156	Bonneville 2nd Powerhouse	09/1987	09/2033	7.150%	2,801	0		
157	Bonneville 2nd Powerhouse	09/1988	09/2033	7.150%	1,271	0		
158	Bonneville 2nd Powerhouse	09/1989	09/2033	7.150%	1,232	0		
159	Bonneville 2nd Powerhouse	09/1990	09/2033	7.150%	1,588	0		
160	Bonneville 2nd Powerhouse	09/1991	09/2033	8.750%	3,998	0		
161	Bonneville 2nd Powerhouse	09/1991	09/2033	8.750%	26	0		
162	Bonneville 2nd Powerhouse	09/1992	09/2033	8.500%	2,446	0		
163	Bonneville 2nd Powerhouse	09/1993	09/2033	7.875%	3,668	0		
164	Bonneville 2nd Powerhouse	09/1994	09/2044	7.150%	5,700	0		
165	Bonneville 2nd Powerhouse	09/1995	09/2045	7.150%	3,791	0		
166	Bonneville 2nd Powerhouse	09/1996	09/2046	7.150%	376	0		
167	Bonneville Dam	09/1938	09/1988	2.500%	11,726	0		
168	Bonneville Dam	09/1938	09/1988	2.500%	130	0		
169	Bonneville Dam	09/1941	09/1991	2.500%	17,589	0		
170	Bonneville Dam	09/1941	09/1991	2.500%	196	0		
171	Bonneville Dam	09/1942	09/1992	2.500%	5,863	0		
172	Bonneville Dam	09/1942	09/1992	2.500%	65	0		
173	Bonneville Dam	09/1943	09/1993	2.500%	17,589	0		
174	Bonneville Dam	09/1943	09/1993	2.500%	196	0		
175	Bonneville Dam	09/1944	09/1994	2.500%	5,860	0		
176	Bonneville Dam	09/1944	09/1994	2.500%	65	0		
177	Bonneville Dam	09/1945	09/1994	2.500%	82	0		
178	Bonneville Dam	09/1945	09/1994	2.500%	1	0		
179	Bonneville Dam	09/1946	09/1994	2.500%	81	0		
180	Bonneville Dam	09/1946	09/1994	2.500%	1	0		
181	Bonneville Dam	09/1947	09/1994	2.500%	82	0		
182	Bonneville Dam	09/1947	09/1994	2.500%	1	0		
183	Bonneville Dam	09/1948	09/1994	2.500%	81	0		

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

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
184	Bonneville Dam	09/1948	09/1994	2.500%	1	0	
185	Bonneville Dam	09/1949	09/1994	2.500%	82	0	
186	Bonneville Dam	09/1949	09/1994	2.500%	1	0	
187	Bonneville Dam	09/1950	09/1994	2.500%	81	0	
188	Bonneville Dam	09/1950	09/1994	2.500%	11	0	
189	Bonneville Dam	09/1951	09/1994	2.500%	81	0	
190	Bonneville Dam	09/1951	09/1994	2.500%	11	0	
191	Bonneville Dam	09/1952	09/1994	2.500%	82	0	
192	Bonneville Dam	09/1952	09/1994	2.500%	1	0	
193	Bonneville Dam	09/1953	09/1994	2.500%	81	0	
194	Bonneville Dam	09/1953	09/1994	2.500%	1	0	
195	Bonneville Dam	09/1954	09/1994	2.500%	82	0	
196	Bonneville Dam	09/1954	09/1994	2.500%	1	0	
197	Bonneville Dam	09/1955	09/1994	2.500%	81	0	
198	Bonneville Dam	09/1955	09/1994	2.500%	1	0	
199	Bonneville Dam	09/1956	09/1994	2.500%	81	0	
200	Bonneville Dam	09/1956	09/1994	2.500%	1	0	
201	Bonneville Dam	09/1957	09/1994	2.500%	82	0	
202	Bonneville Dam	09/1957	09/1994	2.500%	1	0	
203	Bonneville Dam	09/1958	09/1994	2.500%	81	0	
204	Bonneville Dam	09/1958	09/1994	2.500%	1	0	
205	Bonneville Dam	09/1959	09/1994	2.500%	82	0	
206	Bonneville Dam	09/1959	09/1994	2.500%	1	0	
207	Bonneville Dam	09/1960	09/1994	2.500%	81	0	
208	Bonneville Dam	09/1960	09/1994	2.500%	1	0	
209	Bonneville Dam	09/1961	09/1994	2.500%	81	0	
210	Bonneville Dam	09/1961	09/1994	2.500%	1	0	
211	Bonneville Dam	09/1962	09/1994	2.500%	82	0	
212	Bonneville Dam	09/1962	09/1994	2.500%	1	0	
213	Bonneville Dam	09/1963	09/1994	2.500%	81	0	
214	Bonneville Dam	09/1963	09/1994	2.500%	1	0	
215	Bonneville Dam	09/1964	09/1994	2.500%	82	0	
216	Bonneville Dam	09/1964	09/1994	2.500%	1	0	
217	Bonneville Dam	09/1965	09/1994	2.500%	81	0	
218	Bonneville Dam	09/1965	09/1994	2.500%	1	0	
219	Bonneville Dam	09/1966	09/1994	2.500%	81	0	
220	Bonneville Dam	09/1966	09/1994	2.500%	1	0	
221	Bonneville Dam	09/1967	09/1994	2.500%	82	0	
222	Bonneville Dam	09/1967	09/1994	2.500%	1	0	
223	Bonneville Dam	09/1968	09/1994	2.500%	81	0	
224	Bonneville Dam	09/1968	09/1994	2.500%	1	0	
225	Bonneville Dam	09/1969	09/1994	2.500%	82	0	
226	Bonneville Dam	09/1969	09/1994	2.500%	1	0	
227	Bonneville Dam	09/1970	09/1994	2.500%	81	0	
228	Bonneville Dam	09/1970	09/1994	2.500%	1	0	
229	Bonneville Dam	09/1971	09/1994	2.500%	81	0	
230	Bonneville Dam	09/1971	09/1994	2.500%	1	0	
231	Bonneville Dam	09/1972	09/1994	2.500%	82	0	
232	Bonneville Dam	09/1972	09/1994	2.500%	1	0	
233	Bonneville Dam	09/1973	09/1994	2.500%	81	0	
234	Bonneville Dam	09/1973	09/1994	2.500%	1	0	
235	Bonneville Dam	09/1974	09/1994	2.500%	82	0	
236	Bonneville Dam	09/1974	09/1994	2.500%	1	0	
237	Bonneville Dam	09/1975	09/1994	2.500%	81	0	
238	Bonneville Dam	09/1975	09/1994	2.500%	1	0	
239	Bonneville Dam	09/1976	09/1994	2.500%	81	0	
240	Bonneville Dam	09/1976	09/1994	2.500%	1	0	
241	Bonneville Dam	09/1977	09/1994	2.500%	82	0	
242	Bonneville Dam	09/1977	09/1994	2.500%	1	0	
243	Bonneville Dam	09/1977	09/2027	7.150%	15,670	0	
244	Bonneville Dam	09/1978	09/1994	2.500%	81	0	

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

	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
245	Bonneville Dam	09/1978	09/1994	2.500%	1	0		
246	Bonneville Dam	09/1979	09/1994	2.500%	82	0		
247	Bonneville Dam	09/1979	09/1994	2.500%	1	0		
248	Bonneville Dam	09/1980	09/1994	2.500%	81	0		
249	Bonneville Dam	09/1980	09/1994	2.500%	1	0		
250	Bonneville Dam	09/1981	09/1994	2.500%	81	0		
251	Bonneville Dam	09/1981	09/1994	2.500%	1	0		
252	Bonneville Dam	09/1982	09/1994	2.500%	82	0		
253	Bonneville Dam	09/1982	09/1994	2.500%	2	0		
254	Bonneville Dam	09/1983	09/1994	2.500%	81	0		
255	Bonneville Dam	09/1983	09/1994	2.500%	1	0		
256	Bonneville Dam	09/1984	09/1994	10.750%	873	0		
257	Bonneville Dam	09/1984	09/1994	10.750%	10	0		
258	Bonneville Dam	09/1985	09/1994	2.500%	119	0		
259	Bonneville Dam	09/1986	09/1994	2.500%	555	0		
260	Bonneville Dam	09/1986	09/1994	11.375%	454	0		
261	Bonneville Dam	09/1987	09/1994	2.500%	260	0		
262	Bonneville Dam	09/1987	09/1994	8.875%	26	0		
263	Bonneville Dam	09/1988	09/1994	8.500%	4,199	0		
264	Bonneville Dam	09/1988	09/1994	8.500%	10	0		
265	Bonneville Dam	09/1989	09/1994	9.250%	877	0		
266	Bonneville Dam	09/1990	09/1994	8.875%	519	0		
267	Bonneville Dam	09/1990	09/1994	8.875%	651	0		
268	Bonneville Dam	09/1991	09/1994	8.750%	35	0		
269	Bonneville Dam	09/1991	09/1994	8.750%	3,193	0		
270	Bonneville Dam	09/1992	09/1994	8.500%	99	0		
271	Bonneville Dam	09/1992	09/1994	8.500%	25	0		
272	Bonneville Dam	09/1993	09/2018	7.880%	5,011	0		
273	Bonneville Dam	09/1994	09/2029	7.125%	536	0		
274	Bonneville Dam	09/1995	09/2000	7.330%	8	0		
275	Bonneville Dam	09/1995	09/2010	7.090%	25	0		
276	Bonneville Dam	09/1995	09/2020	7.250%	20	0		
277	Bonneville Dam	09/1995	09/2020	7.250%	22	0		
278	Bonneville Dam	09/1995	09/2030	7.860%	53	0		
279	Bonneville Dam	09/1995	09/2035	7.860%	98	0		
280	Bonneville Dam	09/1995	09/2045	7.150%	243	0		
281	Bonneville Dam	09/1995	09/2045	7.150%	410	0		
282	Bonneville Dam	09/1995	09/2045	7.150%	440	0		
283	Bonneville Dam	09/1995	09/2045	7.860%	374	0		
284	Bonneville Dam	09/1996	09/2016	7.290%	834	0		
285	Bonneville Dam	09/1996	09/2031	7.150%	22	0		
286	Bonneville Dam	09/1996	09/2046	7.150%	18	0		
287	Bonneville Dam	09/1996	09/2046	7.150%	18	0		
288	Bonneville Dam	09/1996	09/2046	7.150%	80	0		
289	Bonneville Dam	09/1996	09/2046	7.150%	109	0		
290	Bonneville Dam	09/1996	09/2046	7.150%	142	0		
291	Bonneville Dam	09/1996	09/2046	7.150%	223	0		
292	Bonneville Dam	09/1996	09/2046	7.150%	751	0		
293	Bonneville Dam	09/1996	09/2046	7.150%	1,322	0		
294	Bonneville Dam	09/1997	09/2022	7.230%	122	0		
295	Bonneville Dam	09/1997	09/2032	7.150%	518	0		
296	Bonneville Dam	09/1997	09/2047	7.150%	161	0		
297	Bonneville Dam	09/1999	09/2049	5.375%	19,368	0		
298	Bonneville Dam	09/2000	09/2050	6.125%	24,446	0		
299	Bonneville Dam	09/2001	09/2051	5.875%	2,530	0		
300	Bonneville Dam	09/2002	09/2052	5.500%	448	0		
301	Bonneville Dam	09/2003	09/2053	5.125%	4,581	0		
302	Bonneville Dam	09/2004	09/2054	5.375%	26,741	0		
303	Bonneville Dam	09/2005	09/2055	5.125%	19,725	0		
304	Bonneville Dam	09/2006	09/2056	4.500%	2,628	0		
305	Bonneville Dam	09/2007	09/2057	5.000%	1,124	0		

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

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
306	Bonneville Dam	09/2008	09/2058	4.875%	14,609	0	
307	Bonneville Dam	09/2009	09/2059	4.375%	2,744	2,744	
308	Bonneville Dam	09/2010	09/2060	4.250%	1,425	1,425	
309	Bonneville Dam	09/2011	09/2061	3.750%	10,962	10,962	
310	Bonneville Dam	09/2013	09/2063	2.875%	268	268	
311	Bonneville Dam	09/2014	09/2064	3.875%			
312	Bonneville Dam	09/2015	09/2065	3.250%	102	102	
313	Bonneville Dam	09/2019	09/2069	3.125%	703	736	
314	Chief Joseph	09/1955	09/2005	6.910%	29,164	0	
315	Chief Joseph	09/1956	09/2006	6.950%	13,643	0	
316	Chief Joseph	09/1957	09/2007	6.980%	39,586	0	
317	Chief Joseph	09/1958	09/2008	7.020%	31,901	0	
318	Chief Joseph	09/1959	09/2008	7.020%	223	0	
319	Chief Joseph	09/1960	09/2008	7.020%	223	0	
320	Chief Joseph	09/1961	09/2008	7.020%	223	0	
321	Chief Joseph	09/1962	09/2008	7.020%	223	0	
322	Chief Joseph	09/1963	09/2008	7.020%	224	0	
323	Chief Joseph	09/1964	09/2008	7.020%	223	0	
324	Chief Joseph	09/1965	09/2008	7.020%	223	0	
325	Chief Joseph	09/1966	09/2008	7.020%	223	0	
326	Chief Joseph	09/1967	09/2008	7.020%	223	0	
327	Chief Joseph	09/1968	09/2008	7.020%	224	0	
328	Chief Joseph	09/1969	09/2008	7.020%	223	0	
329	Chief Joseph	09/1970	09/2008	7.020%	223	0	
330	Chief Joseph	09/1971	09/2008	7.020%	223	0	
331	Chief Joseph	09/1972	09/2008	7.020%	223	0	
332	Chief Joseph	09/1973	09/2008	7.020%	224	0	
333	Chief Joseph	09/1974	09/2008	7.020%	223	0	
334	Chief Joseph	09/1975	09/2008	7.020%	223	0	
335	Chief Joseph	09/1976	09/2008	7.020%	223	0	
336	Chief Joseph	09/1977	09/2008	7.020%	223	0	
337	Chief Joseph	09/1977	09/2027	7.150%	30,512	0	
338	Chief Joseph	09/1978	09/2008	7.020%	224	0	
339	Chief Joseph	09/1978	09/2028	7.150%	75,669	0	
340	Chief Joseph	09/1979	09/2008	7.020%	223	0	
341	Chief Joseph	09/1979	09/2029	7.150%	60,079	0	
342	Chief Joseph	09/1980	09/2008	7.020%	223	0	
343	Chief Joseph	09/1981	09/2008	7.020%	223	0	
344	Chief Joseph	09/1982	09/2008	7.020%	223	0	
345	Chief Joseph	09/1983	09/2008	7.020%	224	0	
346	Chief Joseph	09/1984	09/2008	10.750%	909	0	
347	Chief Joseph	09/1985	09/2008	7.020%	46	0	
348	Chief Joseph	09/1985	09/2029	7.150%	16,372	0	
349	Chief Joseph	09/1986	09/2029	7.150%	5,363	0	
350	Chief Joseph	09/1987	09/2008	8.875%	104	0	
351	Chief Joseph	09/1987	09/2029	7.150%	3,036	0	
352	Chief Joseph	09/1988	09/2029	7.150%	2,722	0	
353	Chief Joseph	09/1989	09/2008	9.250%	327	0	
354	Chief Joseph	09/1989	09/2029	7.150%	2,227	0	
355	Chief Joseph	09/1990	09/2008	8.875%	1,024	0	
356	Chief Joseph	09/1990	09/2029	7.150%	4,505	0	
357	Chief Joseph	09/1991	09/2008	8.750%	34	0	
358	Chief Joseph	09/1991	09/2008	8.750%	293	0	
359	Chief Joseph	09/1991	09/2029	8.750%	3,840	0	
360	Chief Joseph	09/1992	09/2008	8.500%	142	0	
361	Chief Joseph	09/1992	09/2008	8.500%	717	0	
362	Chief Joseph	09/1992	09/2029	8.500%	2,032	0	
363	Chief Joseph	09/1993	09/2008	7.875%	42	0	
364	Chief Joseph	09/1993	09/2008	7.875%	794	0	
365	Chief Joseph	09/1993	09/2029	7.875%	1,360	0	
366	Chief Joseph	09/1994	09/2029	7.125%	129	0	

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

	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
367	Chief Joseph	09/1994	09/2029	7.125%	65	0		
368	Chief Joseph	09/1994	09/2044	7.150%	4,280	0		
369	Chief Joseph	09/1995	09/2010	7.090%	15	0		
370	Chief Joseph	09/1995	09/2045	7.150%	147	0		
371	Chief Joseph	09/1995	09/2045	7.150%	562	0		
372	Chief Joseph	09/1995	09/2045	7.150%	712	0		
373	Chief Joseph	09/1995	09/2045	7.150%	784	0		
374	Chief Joseph	09/1996	09/2031	7.150%	27	0		
375	Chief Joseph	09/1996	09/2046	7.150%	3	0		
376	Chief Joseph	09/1996	09/2046	7.150%	4	0		
377	Chief Joseph	09/1996	09/2046	7.150%	355	0		
378	Chief Joseph	09/1996	09/2046	7.150%	729	0		
379	Chief Joseph	09/1997	09/2032	7.150%	166	0		
380	Chief Joseph	09/1997	09/2047	7.150%	657	0		
381	Chief Joseph	09/2001	09/2051	5.875%	345	0		
382	Chief Joseph	09/2002	09/2052	5.500%	2	0		
383	Chief Joseph	09/2003	09/2053	5.125%	992	0		
384	Chief Joseph	09/2008	09/2058	4.875%	3,500	0		
385	Chief Joseph	09/2009	09/2059	4.375%	24,727	24,727		
386	Chief Joseph	09/2011	09/2061	3.750%	4	4		
387	Chief Joseph	09/2012	09/2062	3.375%	28	28		
388	Chief Joseph	09/2013	09/2063	2.875%	10	10		
389	Columbia Basin	09/1941	09/1991	3.000%	10,919	0		
390	Columbia Basin	09/1941	09/1991	3.000%	1,505	0		
391	Columbia Basin	09/1942	09/1992	3.000%	16,165	0		
392	Columbia Basin	09/1942	09/1992	3.000%	3,011	0		
393	Columbia Basin	09/1943	09/1993	3.000%	8,083	0		
394	Columbia Basin	09/1943	09/1993	3.000%	1,505	0		
395	Columbia Basin	09/1944	09/1994	3.000%	16,165	0		
396	Columbia Basin	09/1944	09/1994	3.000%	3,011	0		
397	Columbia Basin	09/1948	09/1998	3.000%	24,247	0		
398	Columbia Basin	09/1948	09/1998	3.000%	4,516	0		
399	Columbia Basin	09/1949	09/1999	3.000%	24,247	0		
400	Columbia Basin	09/1949	09/1999	3.000%	4,516	0		
401	Columbia Basin	09/1950	09/2000	3.000%	16,165	0		
402	Columbia Basin	09/1950	09/2000	3.000%	3,011	0		
403	Columbia Basin	09/1951	09/2001	6.710%	28,255	0		
404	Columbia Basin	09/1951	09/2001	6.710%	5,790	0		
405	Columbia Basin	09/1952	09/2001	6.710%	258	0		
406	Columbia Basin	09/1952	09/2001	6.710%	48	0		
407	Columbia Basin	09/1953	09/2001	6.710%	258	0		
408	Columbia Basin	09/1953	09/2001	6.710%	48	0		
409	Columbia Basin	09/1954	09/2001	6.710%	258	0		
410	Columbia Basin	09/1954	09/2001	6.710%	48	0		
411	Columbia Basin	09/1955	09/2001	6.710%	258	0		
412	Columbia Basin	09/1955	09/2001	6.710%	48	0		
413	Columbia Basin	09/1956	09/2001	6.710%	259	0		
414	Columbia Basin	09/1956	09/2001	6.710%	48	0		
415	Columbia Basin	09/1957	09/2001	6.710%	258	0		
416	Columbia Basin	09/1957	09/2001	6.710%	48	0		
417	Columbia Basin	09/1958	09/2001	6.710%	258	0		
418	Columbia Basin	09/1958	09/2001	6.710%	48	0		
419	Columbia Basin	09/1959	09/2001	6.710%	258	0		
420	Columbia Basin	09/1959	09/2001	6.710%	48	0		
421	Columbia Basin	09/1960	09/2001	6.710%	258	0		
422	Columbia Basin	09/1960	09/2001	6.710%	48	0		
423	Columbia Basin	09/1961	09/2001	6.710%	259	0		
424	Columbia Basin	09/1961	09/2001	6.710%	48	0		
425	Columbia Basin	09/1962	09/2001	6.710%	258	0		
426	Columbia Basin	09/1962	09/2001	6.710%	48	0		
427	Columbia Basin	09/1963	09/2001	6.710%	258	0		

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

	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
428	Columbia Basin	09/1963	09/2001	6.710%	48	0		
429	Columbia Basin	09/1964	09/2001	6.710%	258	0		
430	Columbia Basin	09/1964	09/2001	6.710%	48	0		
431	Columbia Basin	09/1965	09/2001	6.710%	258	0		
432	Columbia Basin	09/1965	09/2001	6.710%	48	0		
433	Columbia Basin	09/1966	09/2001	6.710%	259	0		
434	Columbia Basin	09/1966	09/2001	6.710%	48	0		
435	Columbia Basin	09/1967	09/2001	6.710%	258	0		
436	Columbia Basin	09/1967	09/2001	6.710%	48	0		
437	Columbia Basin	09/1967	09/2017	7.290%	758	0		
438	Columbia Basin	09/1968	09/2001	6.710%	258	0		
439	Columbia Basin	09/1968	09/2001	6.710%	48	0		
440	Columbia Basin	09/1969	09/2001	6.710%	258	0		
441	Columbia Basin	09/1969	09/2001	6.710%	48	0		
442	Columbia Basin	09/1970	09/2001	6.710%	258	0		
443	Columbia Basin	09/1970	09/2001	6.710%	48	0		
444	Columbia Basin	09/1971	09/2001	6.710%	259	0		
445	Columbia Basin	09/1971	09/2001	6.710%	48	0		
446	Columbia Basin	09/1972	09/2001	6.710%	258	0		
447	Columbia Basin	09/1972	09/2001	6.710%	48	0		
448	Columbia Basin	09/1973	09/2001	6.710%	258	0		
449	Columbia Basin	09/1973	09/2001	6.710%	48	0		
450	Columbia Basin	09/1974	09/2001	6.710%	258	0		
451	Columbia Basin	09/1974	09/2001	6.710%	48	0		
452	Columbia Basin	09/1975	09/2001	6.710%	258	0		
453	Columbia Basin	09/1975	09/2001	6.710%	48	0		
454	Columbia Basin	09/1976	09/2001	6.710%	259	0		
455	Columbia Basin	09/1976	09/2001	6.710%	48	0		
456	Columbia Basin	09/1977	09/2001	6.710%	258	0		
457	Columbia Basin	09/1977	09/2001	6.710%	48	0		
458	Columbia Basin	09/1978	09/2001	6.710%	258	0		
459	Columbia Basin	09/1978	09/2001	6.710%	48	0		
460	Columbia Basin	09/1979	09/2001	6.710%	258	0		
461	Columbia Basin	09/1979	09/2001	6.710%	48	0		
462	Columbia Basin	09/1980	09/2001	6.710%	258	0		
463	Columbia Basin	09/1980	09/2001	6.710%	48	0		
464	Columbia Basin	09/1981	09/2001	6.710%	259	0		
465	Columbia Basin	09/1981	09/2001	6.710%	48	0		
466	Columbia Basin	09/1982	09/2001	6.710%	258	0		
467	Columbia Basin	09/1982	09/2001	6.710%	48	0		
468	Columbia Basin	09/1983	09/2001	6.710%	258	0		
469	Columbia Basin	09/1983	09/2001	6.710%	48	0		
470	Columbia Basin	09/1984	09/2001	10.750%	7,815	0		
471	Columbia Basin	09/1984	09/2001	10.750%	1,455	0		
472	Columbia Basin	09/1985	09/2001	6.710%	236	0		
473	Columbia Basin	09/1985	09/2001	6.710%	11	0		
474	Columbia Basin	09/1985	09/2001	12.375%	7,338	0		
475	Columbia Basin	09/1985	09/2001	12.375%	362	0		
476	Columbia Basin	09/1986	09/2001	6.710%	127	0		
477	Columbia Basin	09/1987	09/2001	6.710%	13	0		
478	Columbia Basin	09/1988	09/2001	8.500%	184	0		
479	Columbia Basin	09/1988	09/2001	8.500%	2	0		
480	Columbia Basin	09/1989	09/2001	9.250%	1,166	0		
481	Columbia Basin	09/1990	09/2001	8.875%	928	0		
482	Columbia Basin	09/1991	09/2001	8.750%	177	0		
483	Columbia Basin	09/1991	09/2001	8.750%	1,661	0		
484	Columbia Basin	09/1992	09/2001	8.500%	445	0		
485	Columbia Basin	09/1992	09/2001	8.500%	652	0		
486	Columbia Basin	09/1993	09/2001	6.710%	792	0		
487	Columbia Basin	09/1995	09/2000	6.620%	25	0		
488	Columbia Basin	09/1995	09/2020	7.250%	206	0		

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

	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
489	Columbia Basin	09/1995	09/2030	7.150%	25	0		
490	Columbia Basin	09/1995	09/2030	7.860%	20	0		
491	Columbia Basin	09/1995	09/2030	7.860%	270	0		
492	Columbia Basin	09/1995	09/2030	7.860%	321	0		
493	Columbia Basin	09/1995	09/2030	7.860%	323	0		
494	Columbia Basin	09/1995	09/2045	7.150%	287	0		
495	Columbia Basin	09/1995	09/2045	7.150%	2,511	0		
496	Columbia Basin	09/1995	09/2045	7.860%	450	0		
497	Columbia Basin	09/1995	09/2045	7.860%	450	0		
498	Columbia Basin	09/1996	09/2026	7.150%	72	0		
499	Columbia Basin	09/1996	09/2031	7.150%	109	0		
500	Columbia Basin	09/1996	09/2031	7.150%	251	0		
501	Columbia Basin	09/1996	09/2046	7.150%	426	0		
502	Columbia Basin	09/1996	09/2046	7.150%	368	0		
503	Columbia Basin	09/1997	09/2047	7.150%	3,393	0		
504	Columbia Basin	09/2001	09/2051	5.875%	69,226	0		
505	Columbia Basin	09/2005	09/2055	5.125%	10,963	0		
506	Columbia Basin	09/2006	09/2056	4.500%	1,987	0		
507	Columbia Basin	09/2007	09/2057	5.000%	929	0		
508	Columbia Basin	09/2008	09/2058	4.875%	835	0		
509	Columbia Basin	09/2009	09/2059	4.375%	1,338	1,338		
510	Columbia Basin	09/2010	09/2060	4.250%	877	877		
511	Columbia Basin	09/2011	09/2061	3.750%	1,723	1,723		
512	Columbia Basin	09/2012	09/2062	3.375%	11	11		
513	Columbia Basin	09/2013	09/2063	2.875%	3,078	3,078		
514	Columbia Basin	09/2014	09/2064	3.875%	0	0		
515	Columbia Basin	09/2015	09/2065	3.250%	0	0		
516	Columbia Basin	09/2017	09/2067	2.375%	2,865	2,865		
517	Columbia Basin	09/2018	09/2068	2.750%	17	17		
518	Columbia Basin	09/2019	09/2069	3.125%	4,130	4,221		
519	Columbia Basin	09/2020	09/2070	2.125%	202	202		
520	Columbia Basin 3rd Powerhouse	09/1975	09/2025	7.160%	47,328	0		
521	Columbia Basin 3rd Powerhouse	09/1975	09/2025	7.160%	8,702	0		
522	Columbia Basin 3rd Powerhouse	09/1976	09/2026	7.150%	41,330	0		
523	Columbia Basin 3rd Powerhouse	09/1976	09/2026	7.150%	8,037	0		
524	Columbia Basin 3rd Powerhouse	09/1977	09/2027	7.150%	42,764	0		
525	Columbia Basin 3rd Powerhouse	09/1977	09/2027	7.150%	7,964	0		
526	Columbia Basin 3rd Powerhouse	09/1978	09/2028	7.150%	42,399	0		
527	Columbia Basin 3rd Powerhouse	09/1978	09/2028	7.150%	7,896	0		
528	Columbia Basin 3rd Powerhouse	09/1979	09/2029	7.150%	84,118	0		
529	Columbia Basin 3rd Powerhouse	09/1979	09/2029	7.150%	15,666	0		
530	Columbia Basin 3rd Powerhouse	09/1983	09/2033	7.150%	712	0		
531	Columbia Basin 3rd Powerhouse	09/1983	09/2033	7.150%	13,003	0		
532	Columbia Basin 3rd Powerhouse	09/1984	09/2033	7.150%	16,965	0		
533	Columbia Basin 3rd Powerhouse	09/1984	09/2033	7.150%	13,192	0		
534	Columbia Basin 3rd Powerhouse	09/1984	09/2033	7.150%	3,160	0		
535	Columbia Basin 3rd Powerhouse	09/1985	09/2033	7.150%	2,060	0		
536	Columbia Basin 3rd Powerhouse	09/1985	09/2033	7.150%	41,772	0		
537	Columbia Basin 3rd Powerhouse	09/1985	09/2033	7.150%	107	0		
538	Columbia Basin 3rd Powerhouse	09/1986	09/2033	7.150%	1,851	0		
539	Columbia Basin 3rd Powerhouse	09/1986	09/2033	7.150%	15,538	0		
540	Columbia Basin 3rd Powerhouse	09/1987	09/2033	7.150%	1,730	0		
541	Columbia Basin 3rd Powerhouse	09/1987	09/2033	7.150%	14,439	0		
542	Columbia Basin 3rd Powerhouse	09/1988	09/2033	7.150%	2,294	0		
543	Columbia Basin 3rd Powerhouse	09/1988	09/2033	7.150%	4,351	0		
544	Columbia Basin 3rd Powerhouse	09/1989	09/2033	7.150%	10,902	0		
545	Columbia Basin 3rd Powerhouse	09/1990	09/2033	7.150%	6,383	0		
546	Columbia Basin 3rd Powerhouse	09/1994	09/2044	7.150%	12,631	0		
547	Columbia River Fish Mitigation	09/1991	09/2041	8.500%	3,969	0		
548	Columbia River Fish Mitigation	09/1992	09/2042	8.500%	874	0		
549	Columbia River Fish Mitigation	09/1993	09/2043	8.500%	85,846	0		

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

	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
550	Columbia River Fish Mitigation	09/1994	09/2044	8.500%	39,454	0		
551	Columbia River Fish Mitigation	09/1995	09/2045	7.150%	43,343	0		
552	Columbia River Fish Mitigation	09/1996	09/2046	7.150%	2,431	0		
553	Columbia River Fish Mitigation	09/1999	09/2049	5.375%	14,115	0		
554	Columbia River Fish Mitigation	09/2000	09/2050	6.125%	47,006	0		
555	Columbia River Fish Mitigation	09/2001	09/2051	5.875%	6,168	0		
556	Columbia River Fish Mitigation	09/2002	09/2052	5.500%	8,797	0		
557	Columbia River Fish Mitigation	09/2003	09/2053	5.125%	68,440	0		
558	Columbia River Fish Mitigation	09/2004	09/2054	5.375%	60,581	0		
559	Columbia River Fish Mitigation	09/2005	09/2055	5.125%	52,039	0		
560	Columbia River Fish Mitigation	09/2006	09/2056	4.500%	366,395	142,720		
561	Columbia River Fish Mitigation	09/2007	09/2057	5.000%	53,525	0		
562	Columbia River Fish Mitigation	09/2008	09/2058	4.875%	36,554	0		
563	Columbia River Fish Mitigation	09/2009	09/2059	4.375%	103,203	103,203		
564	Columbia River Fish Mitigation	09/2010	09/2060	4.250%	56,832	56,832		
565	Columbia River Fish Mitigation	09/2011	09/2061	3.750%	106,014	106,014		
566	Columbia River Fish Mitigation	09/2012	09/2062	3.375%	101,616	101,616		
567	Columbia River Fish Mitigation	09/2013	09/2063	2.875%	95,274	95,274		
568	Columbia River Fish Mitigation	09/2014	09/2064	3.875%	110,071	110,071		
569	Columbia River Fish Mitigation	09/2015	09/2065	3.250%	64,291	64,291		
570	Columbia River Fish Mitigation	09/2016	09/2066	3.000%	30,066	30,066		
571	Columbia River Fish Mitigation	09/2017	09/2067	2.375%	57,719	57,719		
572	Columbia River Fish Mitigation	09/2018	09/2068	2.750%	48,446	48,446		
573	Columbia River Fish Mitigation	09/2019	09/2069	3.125%	49,505	48,042		
574	Columbia River Fish Mitigation	09/2020	09/2070	2.125%	82,394	82,394		
575	Cougar	09/1964	09/2014	7.230%	10,414	0		
576	Cougar	09/1965	09/2014	7.230%	20	0		
577	Cougar	09/1966	09/2014	7.230%	20	0		
578	Cougar	09/1967	09/2014	7.230%	20	0		
579	Cougar	09/1968	09/2014	7.230%	20	0		
580	Cougar	09/1969	09/2014	7.230%	20	0		
581	Cougar	09/1970	09/2014	7.230%	20	0		
582	Cougar	09/1971	09/2014	7.230%	20	0		
583	Cougar	09/1972	09/2014	7.230%	20	0		
584	Cougar	09/1973	09/2014	7.230%	20	0		
585	Cougar	09/1974	09/2014	7.230%	19	0		
586	Cougar	09/1975	09/2014	7.230%	20	0		
587	Cougar	09/1976	09/2014	7.230%	20	0		
588	Cougar	09/1977	09/2014	7.230%	20	0		
589	Cougar	09/1978	09/2014	7.230%	20	0		
590	Cougar	09/1979	09/2014	7.230%	20	0		
591	Cougar	09/1980	09/2014	7.230%	20	0		
592	Cougar	09/1981	09/2014	7.230%	20	0		
593	Cougar	09/1982	09/2014	7.230%	20	0		
594	Cougar	09/1983	09/2014	7.230%	20	0		
595	Cougar	09/1984	09/2014	10.750%	1	0		
596	Cougar	09/1985	09/2014	7.230%	1	0		
597	Cougar	09/1986	09/2014	7.230%	104	0		
598	Cougar	09/1986	09/2014	11.375%	55	0		
599	Cougar	09/1987	09/2014	7.230%	45	0		
600	Cougar	09/1988	09/2014	8.500%	2	0		
601	Cougar	09/1989	09/2014	9.250%	6	0		
602	Cougar	09/1990	09/2014	8.875%	10	0		
603	Cougar	09/1991	09/2014	8.750%	1,015	0		
604	Cougar	09/1991	09/2014	8.750%	1	0		
605	Cougar	09/1992	09/2014	8.500%	2	0		
606	Cougar	09/1993	09/2014	7.875%	539	0		
607	Cougar	09/1994	09/2019	7.125%	31	0		
608	Cougar	09/1995	09/2000	7.330%	3	0		
609	Cougar	09/1997	09/2047	7.150%	26	0		
610	Cougar	09/2004	09/2054	5.375%	3,622	0		

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

	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
611	Cougar	09/2005	09/2055	5.125%	8,130	0		
612	Cougar	09/2006	09/2056	4.500%	109	0		
613	Cougar	09/2007	09/2057	5.000%	120	0		
614	Cougar	09/2009	09/2059	4.375%	121	121		
615	Cougar	09/2010	09/2060	4.250%	59	59		
616	Cougar	09/2011	09/2061	3.750%	282	282		
617	Cougar	09/2012	09/2062	3.375%	139	139		
618	Cougar	09/2013	09/2063	2.875%	4,088	4,088		
619	Cougar	09/2014	09/2064	3.875%	12	12		
620	Cougar	09/2016	09/2066	3.000%	2	2		
621	Cougar	09/2017	09/2067	2.375%	2	2		
622	Cougar	09/2020	09/2070	2.125%	267	267		
623	Detroit Lake/Big Cliff	09/1953	09/2003	6.840%	12,533	0		
624	Detroit Lake/Big Cliff	09/1954	09/2004	6.880%	20,162	0		
625	Detroit Lake/Big Cliff	09/1955	09/2004	6.880%	18	0		
626	Detroit Lake/Big Cliff	09/1956	09/2004	6.880%	19	0		
627	Detroit Lake/Big Cliff	09/1957	09/2004	6.880%	18	0		
628	Detroit Lake/Big Cliff	09/1958	09/2004	6.880%	19	0		
629	Detroit Lake/Big Cliff	09/1959	09/2004	6.880%	18	0		
630	Detroit Lake/Big Cliff	09/1960	09/2004	6.880%	19	0		
631	Detroit Lake/Big Cliff	09/1961	09/2004	6.880%	18	0		
632	Detroit Lake/Big Cliff	09/1962	09/2004	6.880%	19	0		
633	Detroit Lake/Big Cliff	09/1963	09/2004	6.880%	18	0		
634	Detroit Lake/Big Cliff	09/1964	09/2004	6.880%	19	0		
635	Detroit Lake/Big Cliff	09/1965	09/2004	6.880%	18	0		
636	Detroit Lake/Big Cliff	09/1966	09/2004	6.880%	19	0		
637	Detroit Lake/Big Cliff	09/1967	09/2004	6.880%	18	0		
638	Detroit Lake/Big Cliff	09/1968	09/2004	6.880%	19	0		
639	Detroit Lake/Big Cliff	09/1969	09/2004	6.880%	18	0		
640	Detroit Lake/Big Cliff	09/1970	09/2004	6.880%	19	0		
641	Detroit Lake/Big Cliff	09/1971	09/2004	6.880%	18	0		
642	Detroit Lake/Big Cliff	09/1972	09/2004	6.880%	19	0		
643	Detroit Lake/Big Cliff	09/1973	09/2004	6.880%	18	0		
644	Detroit Lake/Big Cliff	09/1974	09/2004	6.880%	19	0		
645	Detroit Lake/Big Cliff	09/1975	09/2004	6.880%	18	0		
646	Detroit Lake/Big Cliff	09/1976	09/2004	6.880%	19	0		
647	Detroit Lake/Big Cliff	09/1977	09/2004	6.880%	18	0		
648	Detroit Lake/Big Cliff	09/1978	09/2004	6.880%	19	0		
649	Detroit Lake/Big Cliff	09/1979	09/2004	6.880%	18	0		
650	Detroit Lake/Big Cliff	09/1980	09/2004	6.880%	19	0		
651	Detroit Lake/Big Cliff	09/1981	09/2004	6.880%	18	0		
652	Detroit Lake/Big Cliff	09/1982	09/2004	6.880%	19	0		
653	Detroit Lake/Big Cliff	09/1983	09/2004	6.880%	18	0		
654	Detroit Lake/Big Cliff	09/1984	09/2004	10.750%	21	0		
655	Detroit Lake/Big Cliff	09/1985	09/2004	6.880%	6	0		
656	Detroit Lake/Big Cliff	09/1986	09/2004	11.375%	38	0		
657	Detroit Lake/Big Cliff	09/1987	09/2004	6.880%	3	0		
658	Detroit Lake/Big Cliff	09/1987	09/2004	8.875%	233	0		
659	Detroit Lake/Big Cliff	09/1988	09/2004	8.500%	68	0		
660	Detroit Lake/Big Cliff	09/1989	09/2004	9.250%	26	0		
661	Detroit Lake/Big Cliff	09/1990	09/2004	8.875%	115	0		
662	Detroit Lake/Big Cliff	09/1991	09/2004	8.750%	9	0		
663	Detroit Lake/Big Cliff	09/1991	09/2004	8.750%	20	0		
664	Detroit Lake/Big Cliff	09/1992	09/2004	8.500%	8	0		
665	Detroit Lake/Big Cliff	09/1993	09/2004	7.875%	211	0		
666	Detroit Lake/Big Cliff	09/1994	09/1999	7.125%	7	0		
667	Detroit Lake/Big Cliff	09/1995	09/2000	7.330%	13	0		
668	Detroit Lake/Big Cliff	09/1995	09/2045	7.150%	38	0		
669	Detroit Lake/Big Cliff	09/1996	09/2006	6.950%	24	0		
670	Detroit Lake/Big Cliff	09/2001	09/2051	5.875%	282	0		
671	Detroit Lake/Big Cliff	09/2002	09/2052	5.500%	18	0		

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

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
672	Detroit Lake/Big Cliff	09/2003	09/2053	5.125%	223	0	
673	Detroit Lake/Big Cliff	09/2005	09/2055	5.125%	1,031	0	
674	Detroit Lake/Big Cliff	09/2013	09/2063	2.875%	528	528	
675	Detroit Lake/Big Cliff	09/2014	09/2064	3.875%	18	18	
676	Detroit Lake/Big Cliff	09/2016	09/2066	3.000%	31	31	
677	Detroit Lake/Big Cliff	09/2019	09/2069	3.125%	2	2	
678	Dworshak	09/1973	09/2023	7.190%	138,443	0	
679	Dworshak	09/1973	09/2023	7.190%	836	0	
680	Dworshak	09/1974	09/2023	7.190%	515	0	
681	Dworshak	09/1974	09/2023	7.190%	3	0	
682	Dworshak	09/1975	09/2023	7.190%	518	0	
683	Dworshak	09/1975	09/2023	7.190%	3	0	
684	Dworshak	09/1976	09/2023	7.190%	518	0	
685	Dworshak	09/1976	09/2023	7.190%	3	0	
686	Dworshak	09/1977	09/2023	7.190%	518	0	
687	Dworshak	09/1977	09/2023	7.190%	3	0	
688	Dworshak	09/1978	09/2023	7.190%	518	0	
689	Dworshak	09/1978	09/2023	7.190%	3	0	
690	Dworshak	09/1979	09/2023	7.190%	518	0	
691	Dworshak	09/1979	09/2023	7.190%	3	0	
692	Dworshak	09/1980	09/2023	7.190%	518	0	
693	Dworshak	09/1980	09/2023	7.190%	3	0	
694	Dworshak	09/1981	09/2023	7.190%	518	0	
695	Dworshak	09/1981	09/2023	7.190%	3	0	
696	Dworshak	09/1982	09/2023	7.190%	518	0	
697	Dworshak	09/1982	09/2023	7.190%	3	0	
698	Dworshak	09/1983	09/2023	7.190%	523	0	
699	Dworshak	09/1983	09/2023	7.190%	3	0	
700	Dworshak	09/1984	09/2023	10.750%	2,499	0	
701	Dworshak	09/1984	09/2023	10.750%	15	0	
702	Dworshak	09/1985	09/2023	7.190%	1,141	0	
703	Dworshak	09/1986	09/2023	7.190%	197	0	
704	Dworshak	09/1987	09/2023	7.190%	36	0	
705	Dworshak	09/1987	09/2023	8.875%	65	0	
706	Dworshak	09/1988	09/2023	8.500%	61	0	
707	Dworshak	09/1989	09/2023	9.250%	63	0	
708	Dworshak	09/1990	09/2023	8.875%	245	0	
709	Dworshak	09/1990	09/2023	8.875%	24	0	
710	Dworshak	09/1991	09/2023	8.750%	224	0	
711	Dworshak	09/1992	09/2023	2.625%	4	0	
712	Dworshak	09/1992	09/2023	8.500%	28	0	
713	Dworshak	09/1992	09/2023	8.500%	24	0	
714	Dworshak	09/1993	09/2023	7.875%	41	0	
715	Dworshak	09/1993	09/2023	7.875%	1,872	0	
716	Dworshak	09/1994	09/2029	7.125%	1,351	0	
717	Dworshak	09/1994	09/2029	7.125%	964	0	
718	Dworshak	09/1995	09/2020	7.930%	55	0	
719	Dworshak	09/1995	09/2030	7.150%	218	0	
720	Dworshak	09/1995	09/2045	7.150%	1,162	0	
721	Dworshak	09/1996	09/2011	7.130%	107	0	
722	Dworshak	09/1996	09/2021	7.230%	26	0	
723	Dworshak	09/1996	09/2021	7.230%	184	0	
724	Dworshak	09/1996	09/2031	7.150%	6	0	
725	Dworshak	09/1996	09/2031	7.150%	203	0	
726	Dworshak	09/1996	09/2046	7.150%	3	0	
727	Dworshak	09/1996	09/2046	7.150%	4	0	
728	Dworshak	09/1996	09/2046	7.150%	46	0	
729	Dworshak	09/1997	09/2047	7.150%	7,588	0	
730	Dworshak	09/1999	09/2049	5.375%	630	0	
731	Dworshak	09/2002	09/2052	5.500%	199	0	
732	Dworshak	09/2003	09/2053	5.125%	761	0	

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

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
733	Dworshak	09/2005	09/2055	5.125%	713	0	
734	Dworshak	09/2006	09/2056	4.500%	73	73	
735	Dworshak	09/2008	09/2058	4.875%	10	0	
736	Dworshak	09/2009	09/2059	4.375%	2,307	2,307	
737	Dworshak	09/2014	09/2064	3.875%	50	0	
738	Dworshak	09/2020	09/2070	2.125%	29	29	
739	Green Peter/Foster	09/1967	09/2017	7.290%	24,445	0	
740	Green Peter/Foster	09/1968	09/2018	7.280%	12,180	0	
741	Green Peter/Foster	09/1969	09/2018	7.280%	39	0	
742	Green Peter/Foster	09/1970	09/2018	7.280%	40	0	
743	Green Peter/Foster	09/1971	09/2018	7.280%	39	0	
744	Green Peter/Foster	09/1972	09/2018	7.280%	39	0	
745	Green Peter/Foster	09/1973	09/2018	7.280%	39	0	
746	Green Peter/Foster	09/1974	09/2018	7.280%	39	0	
747	Green Peter/Foster	09/1975	09/2018	7.280%	39	0	
748	Green Peter/Foster	09/1976	09/2018	7.280%	39	0	
749	Green Peter/Foster	09/1977	09/2018	7.280%	39	0	
750	Green Peter/Foster	09/1978	09/2018	7.280%	39	0	
751	Green Peter/Foster	09/1979	09/2018	7.280%	39	0	
752	Green Peter/Foster	09/1980	09/2018	7.280%	40	0	
753	Green Peter/Foster	09/1981	09/2018	7.280%	39	0	
754	Green Peter/Foster	09/1982	09/2018	7.280%	39	0	
755	Green Peter/Foster	09/1983	09/2018	7.280%	39	0	
756	Green Peter/Foster	09/1984	09/2018	10.750%	15	0	
757	Green Peter/Foster	09/1985	09/2018	7.280%	16	0	
758	Green Peter/Foster	09/1986	09/2018	7.280%	3	0	
759	Green Peter/Foster	09/1986	09/2018	11.375%	3	0	
760	Green Peter/Foster	09/1987	09/2018	7.280%	1	0	
761	Green Peter/Foster	09/1987	09/2018	8.875%	2	0	
762	Green Peter/Foster	09/1988	09/2018	8.500%	13	0	
763	Green Peter/Foster	09/1989	09/2018	9.250%	24	0	
764	Green Peter/Foster	09/1990	09/2018	8.875%	5	0	
765	Green Peter/Foster	09/1991	09/2018	8.750%	48	0	
766	Green Peter/Foster	09/1992	09/2018	8.500%	2	0	
767	Green Peter/Foster	09/1993	09/2018	7.875%	41	0	
768	Green Peter/Foster	09/1994	09/1999	7.125%	6	0	
769	Green Peter/Foster	09/1995	09/2000	7.330%	4	0	
770	Green Peter/Foster	09/1995	09/2020	7.250%	11	0	
771	Green Peter/Foster	09/1995	09/2020	7.250%	24	0	
772	Green Peter/Foster	09/1996	09/2046	7.150%	26	0	
773	Green Peter/Foster	09/2001	09/2051	5.875%	200	0	
774	Green Peter/Foster	09/2011	09/2061	3.750%	87	87	
775	Green Peter/Foster	09/2012	09/2062	3.375%	28	28	
776	Green Peter/Foster	09/2014	09/2064	3.875%	385	385	
777	Green Peter/Foster	09/2015	09/2065	3.250%	68	68	
778	Green Peter/Foster	09/2016	09/2066	3.000%	70	70	
779	Green Peter/Foster	09/2019	09/2069	3.125%	10	10	
780	Green Peter/Foster	09/2020	09/2070	2.125%	1	1	
781	Hills Creek	09/1962	09/2012	7.160%	10,353	0	
782	Hills Creek	09/1963	09/2012	7.160%	12	0	
783	Hills Creek	09/1964	09/2012	7.160%	13	0	
784	Hills Creek	09/1965	09/2012	7.160%	13	0	
785	Hills Creek	09/1966	09/2012	7.160%	13	0	
786	Hills Creek	09/1967	09/2012	7.160%	13	0	
787	Hills Creek	09/1968	09/2012	7.160%	13	0	
788	Hills Creek	09/1969	09/2012	7.160%	13	0	
789	Hills Creek	09/1970	09/2012	7.160%	13	0	
790	Hills Creek	09/1971	09/2012	7.160%	13	0	
791	Hills Creek	09/1972	09/2012	7.160%	13	0	
792	Hills Creek	09/1973	09/2012	7.160%	13	0	
793	Hills Creek	09/1974	09/2012	7.160%	13	0	

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

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
794	Hills Creek	09/1975	09/2012	7.160%	13	0	
795	Hills Creek	09/1976	09/2012	7.160%	13	0	
796	Hills Creek	09/1977	09/2012	7.160%	13	0	
797	Hills Creek	09/1978	09/2012	7.160%	13	0	
798	Hills Creek	09/1979	09/2012	7.160%	13	0	
799	Hills Creek	09/1980	09/2012	7.160%	13	0	
800	Hills Creek	09/1981	09/2012	7.160%	13	0	
801	Hills Creek	09/1982	09/2012	7.160%	13	0	
802	Hills Creek	09/1983	09/2012	7.160%	13	0	
803	Hills Creek	09/1984	09/2012	10.750%	52	0	
804	Hills Creek	09/1985	09/2012	7.160%	6	0	
805	Hills Creek	09/1987	09/2012	8.875%	3	0	
806	Hills Creek	09/1988	09/2012	8.500%	3	0	
807	Hills Creek	09/1990	09/2012	8.875%	3	0	
808	Hills Creek	09/1991	09/2012	8.750%	17	0	
809	Hills Creek	09/1992	09/2012	8.500%	1	0	
810	Hills Creek	09/1993	09/2012	7.875%	13	0	
811	Hills Creek	09/1996	09/2046	7.150%	28	0	
812	Hills Creek	09/2000	09/2050	6.125%	2,630	0	
813	Hills Creek	09/2001	09/2051	5.875%	8	0	
814	Hills Creek	09/2002	09/2052	5.500%	2	0	
815	Hills Creek	09/2005	09/2055	5.125%	46	0	
816	Hills Creek	09/2011	09/2061	3.750%	12	12	
817	Hills Creek	09/2012	09/2062	3.375%	142	142	
818	Hungry Horse Dam	09/1953	09/2003	6.840%	75,076	0	
819	Hungry Horse Dam	09/1953	09/2003	6.840%	2,126	0	
820	Hungry Horse Dam	09/1954	09/2003	6.840%	17	0	
821	Hungry Horse Dam	09/1954	09/2003	6.840%	1	0	
822	Hungry Horse Dam	09/1955	09/2003	6.840%	17	0	
823	Hungry Horse Dam	09/1955	09/2003	6.840%	1	0	
824	Hungry Horse Dam	09/1956	09/2003	6.840%	17	0	
825	Hungry Horse Dam	09/1956	09/2003	6.840%	1	0	
826	Hungry Horse Dam	09/1957	09/2003	6.840%	18	0	
827	Hungry Horse Dam	09/1957	09/2003	6.840%	1	0	
828	Hungry Horse Dam	09/1958	09/2003	6.840%	18	0	
829	Hungry Horse Dam	09/1958	09/2003	6.840%	1	0	
830	Hungry Horse Dam	09/1959	09/2003	6.840%	18	0	
831	Hungry Horse Dam	09/1959	09/2003	6.840%	1	0	
832	Hungry Horse Dam	09/1960	09/2003	6.840%	18	0	
833	Hungry Horse Dam	09/1960	09/2003	6.840%	1	0	
834	Hungry Horse Dam	09/1961	09/2003	6.840%	18	0	
835	Hungry Horse Dam	09/1961	09/2003	6.840%	1	0	
836	Hungry Horse Dam	09/1962	09/2003	6.840%	18	0	
837	Hungry Horse Dam	09/1962	09/2003	6.840%	1	0	
838	Hungry Horse Dam	09/1963	09/2003	6.840%	18	0	
839	Hungry Horse Dam	09/1963	09/2003	6.840%	1	0	
840	Hungry Horse Dam	09/1964	09/2003	6.840%	17	0	
841	Hungry Horse Dam	09/1964	09/2003	6.840%	1	0	
842	Hungry Horse Dam	09/1965	09/2003	6.840%	17	0	
843	Hungry Horse Dam	09/1965	09/2003	6.840%	1	0	
844	Hungry Horse Dam	09/1966	09/2003	6.840%	17	0	
845	Hungry Horse Dam	09/1966	09/2003	6.840%	1	0	
846	Hungry Horse Dam	09/1967	09/2003	6.840%	18	0	
847	Hungry Horse Dam	09/1967	09/2003	6.840%	1	0	
848	Hungry Horse Dam	09/1968	09/2003	6.840%	18	0	
849	Hungry Horse Dam	09/1968	09/2003	6.840%	1	0	
850	Hungry Horse Dam	09/1969	09/2003	6.840%	18	0	
851	Hungry Horse Dam	09/1969	09/2003	6.840%	1	0	
852	Hungry Horse Dam	09/1970	09/2003	6.840%	18	0	
853	Hungry Horse Dam	09/1970	09/2003	6.840%	1	0	
854	Hungry Horse Dam	09/1971	09/2003	6.840%	18	0	

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

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
855	Hungry Horse Dam	09/1971	09/2003	6.840%	1	0		
856	Hungry Horse Dam	09/1972	09/2003	6.840%	18	0		
857	Hungry Horse Dam	09/1972	09/2003	6.840%	1	0		
858	Hungry Horse Dam	09/1973	09/2003	6.840%	18	0		
859	Hungry Horse Dam	09/1973	09/2003	6.840%	1	0		
860	Hungry Horse Dam	09/1974	09/2003	6.840%	17	0		
861	Hungry Horse Dam	09/1974	09/2003	6.840%	1	0		
862	Hungry Horse Dam	09/1975	09/2003	6.840%	17	0		
863	Hungry Horse Dam	09/1975	09/2003	6.840%	1	0		
864	Hungry Horse Dam	09/1976	09/2003	6.840%	10	0		
865	Hungry Horse Dam	09/1976	09/2003	6.840%	1	0		
866	Hungry Horse Dam	09/1977	09/2003	6.840%	18	0		
867	Hungry Horse Dam	09/1977	09/2003	6.840%	1	0		
868	Hungry Horse Dam	09/1978	09/2003	6.840%	18	0		
869	Hungry Horse Dam	09/1978	09/2003	6.840%	1	0		
870	Hungry Horse Dam	09/1979	09/2003	6.840%	18	0		
871	Hungry Horse Dam	09/1979	09/2003	6.840%	1	0		
872	Hungry Horse Dam	09/1980	09/2003	6.840%	18	0		
873	Hungry Horse Dam	09/1980	09/2003	6.840%	1	0		
874	Hungry Horse Dam	09/1981	09/2003	6.840%	22	0		
875	Hungry Horse Dam	09/1981	09/2003	6.840%	1	0		
876	Hungry Horse Dam	09/1982	09/2003	6.840%	1	0		
877	Hungry Horse Dam	09/1983	09/2003	6.840%	12	0		
878	Hungry Horse Dam	09/1983	09/2003	6.840%	1	0		
879	Hungry Horse Dam	09/1984	09/2003	10.750%	32	0		
880	Hungry Horse Dam	09/1984	09/2003	10.750%	1	0		
881	Hungry Horse Dam	09/1985	09/2003	12.375%	36	0		
882	Hungry Horse Dam	09/1985	09/2003	12.375%	37	0		
883	Hungry Horse Dam	09/1989	09/2003	9.250%	101	0		
884	Hungry Horse Dam	09/1990	09/2003	8.875%	58	0		
885	Hungry Horse Dam	09/1991	09/2003	8.750%	19	0		
886	Hungry Horse Dam	09/1992	09/2003	8.500%	9	0		
887	Hungry Horse Dam	09/1993	09/2003	7.875%	4,136	0		
888	Hungry Horse Dam	09/1993	09/2003	7.875%	2	0		
889	Hungry Horse Dam	09/1994	09/2019	7.125%	56	0		
890	Hungry Horse Dam	09/1995	09/2000	6.620%	156	0		
891	Hungry Horse Dam	09/1995	09/2000	6.620%	84	0		
892	Hungry Horse Dam	09/1995	09/2020	7.930%	450	0		
893	Hungry Horse Dam	09/1995	09/2030	7.150%	536	0		
894	Hungry Horse Dam	09/1995	09/2030	7.150%	1,198	0		
895	Hungry Horse Dam	09/1995	09/2045	7.150%	6,190	0		
896	Hungry Horse Dam	09/1995	09/2045	7.860%	14,354	0		
897	Hungry Horse Dam	09/1996	09/2046	7.150%	15	0		
898	Hungry Horse Dam	09/1996	09/2046	7.150%	2	0		
899	Hungry Horse Dam	09/1997	09/2007	6.950%	154	0		
900	Hungry Horse Dam	09/1997	09/2047	7.150%	111	0		
901	Hungry Horse Dam	09/2001	09/2051	5.875%	552	0		
902	Hungry Horse Dam	09/2005	09/2055	5.125%	2,951	0		
903	Hungry Horse Dam	09/2007	09/2057	5.000%	294	0		
904	Hungry Horse Dam	09/2008	09/2058	4.875%	76	0		
905	Hungry Horse Dam	09/2009	09/2059	4.375%	60	60		
906	Hungry Horse Dam	09/2010	09/2060	4.250%	779	779		
907	Hungry Horse Dam	09/2011	09/2061	3.750%	17	496		
908	Hungry Horse Dam	09/2012	09/2062	3.375%	0	0		
909	Hungry Horse Dam	09/2014	09/2064	3.875%	0	0		
910	Hungry Horse Dam	09/2015	09/2065	3.250%	0	0		
911	Ice Harbor	09/1962	09/2012	7.160%	59,699	0		
912	Ice Harbor	09/1962	09/2012	7.160%	664	0		
913	Ice Harbor	09/1963	09/2012	7.160%	46	0		
914	Ice Harbor	09/1963	09/2012	7.160%	1	0		
915	Ice Harbor	09/1964	09/2012	7.160%	46	0		

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

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
916	Ice Harbor	09/1964	09/2012	7.160%	1	0	
917	Ice Harbor	09/1965	09/2012	7.160%	46	0	
918	Ice Harbor	09/1965	09/2012	7.160%	1	0	
919	Ice Harbor	09/1966	09/2012	7.160%	46	0	
920	Ice Harbor	09/1966	09/2012	7.160%	1	0	
921	Ice Harbor	09/1967	09/2012	7.160%	46	0	
922	Ice Harbor	09/1967	09/2012	7.160%	1	0	
923	Ice Harbor	09/1968	09/2012	7.160%	46	0	
924	Ice Harbor	09/1968	09/2012	7.160%	1	0	
925	Ice Harbor	09/1969	09/2012	7.160%	46	0	
926	Ice Harbor	09/1969	09/2012	7.160%	1	0	
927	Ice Harbor	09/1970	09/2012	7.160%	46	0	
928	Ice Harbor	09/1970	09/2012	7.160%	1	0	
929	Ice Harbor	09/1971	09/2012	7.160%	46	0	
930	Ice Harbor	09/1971	09/2012	7.160%	1	0	
931	Ice Harbor	09/1972	09/2012	7.160%	46	0	
932	Ice Harbor	09/1972	09/2012	7.160%	1	0	
933	Ice Harbor	09/1973	09/2012	7.160%	46	0	
934	Ice Harbor	09/1973	09/2012	7.160%	1	0	
935	Ice Harbor	09/1974	09/2012	7.160%	46	0	
936	Ice Harbor	09/1974	09/2012	7.160%	1	0	
937	Ice Harbor	09/1975	09/2012	7.160%	46	0	
938	Ice Harbor	09/1975	09/2012	7.160%	1	0	
939	Ice Harbor	09/1976	09/2012	7.160%	46	0	
940	Ice Harbor	09/1976	09/2012	7.160%	1	0	
941	Ice Harbor	09/1976	09/2026	7.150%	20,472	0	
942	Ice Harbor	09/1976	09/2026	7.150%	228	0	
943	Ice Harbor	09/1977	09/2012	7.160%	46	0	
944	Ice Harbor	09/1977	09/2012	7.160%	1	0	
945	Ice Harbor	09/1978	09/2012	7.160%	46	0	
946	Ice Harbor	09/1978	09/2012	7.160%	1	0	
947	Ice Harbor	09/1979	09/2012	7.160%	46	0	
948	Ice Harbor	09/1979	09/2012	7.160%	1	0	
949	Ice Harbor	09/1980	09/2012	7.160%	46	0	
950	Ice Harbor	09/1980	09/2012	7.160%	1	0	
951	Ice Harbor	09/1981	09/2012	7.160%	46	0	
952	Ice Harbor	09/1981	09/2012	7.160%	1	0	
953	Ice Harbor	09/1982	09/2012	7.160%	46	0	
954	Ice Harbor	09/1982	09/2012	7.160%	1	0	
955	Ice Harbor	09/1983	09/2012	7.160%	46	0	
956	Ice Harbor	09/1983	09/2012	7.160%	1	0	
957	Ice Harbor	09/1985	09/2012	7.160%	41	0	
958	Ice Harbor	09/1985	09/2026	7.150%	21	0	
959	Ice Harbor	09/1986	09/2012	7.160%	137	0	
960	Ice Harbor	09/1987	09/2012	7.160%	3	0	
961	Ice Harbor	09/1987	09/2012	8.875%	71	0	
962	Ice Harbor	09/1987	09/2012	8.875%	1	0	
963	Ice Harbor	09/1988	09/2012	8.500%	8	0	
964	Ice Harbor	09/1988	09/2012	8.500%	57	0	
965	Ice Harbor	09/1989	09/2012	9.250%	51	0	
966	Ice Harbor	09/1990	09/2012	8.875%	427	0	
967	Ice Harbor	09/1991	09/2012	8.750%	348	0	
968	Ice Harbor	09/1992	09/2012	8.500%	177	0	
969	Ice Harbor	09/1993	09/2012	7.875%	3,192	0	
970	Ice Harbor	09/1993	09/2012	7.875%	1,645	0	
971	Ice Harbor	09/1994	09/2029	7.125%	328	0	
972	Ice Harbor	09/1994	09/2029	7.125%	520	0	
973	Ice Harbor	09/1995	09/2000	7.330%	2	0	
974	Ice Harbor	09/1995	09/2019	7.270%	84	0	
975	Ice Harbor	09/1995	09/2019	7.270%	171	0	
976	Ice Harbor	09/1995	09/2019	7.270%	849	0	

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

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
977	Ice Harbor	09/1996	09/2031	7.150%	78	0	
978	Ice Harbor	09/1996	09/2041	7.150%	371	0	
979	Ice Harbor	09/1997	09/2022	7.230%	66	0	
980	Ice Harbor	09/1997	09/2047	7.150%	67	0	
981	Ice Harbor	09/1999	09/2049	5.375%	5,516	0	
982	Ice Harbor	09/2000	09/2050	6.125%	548	0	
983	Ice Harbor	09/2001	09/2051	5.875%	764	0	
984	Ice Harbor	09/2002	09/2052	5.500%	1,014	0	
985	Ice Harbor	09/2003	09/2053	5.125%	50	0	
986	Ice Harbor	09/2004	09/2054	5.375%	3,321	0	
987	Ice Harbor	09/2008	09/2058	4.875%	14	0	
988	Ice Harbor	09/2009	09/2059	4.375%	2,615	2,615	
989	Ice Harbor	09/2010	09/2060	4.250%	207	207	
990	Ice Harbor	09/2011	09/2061	3.750%	819	819	
991	Ice Harbor	09/2012	09/2062	3.375%	115	115	
992	Ice Harbor	09/2015	09/2065	3.250%	3,175	3,175	
993	Ice Harbor	09/2016	09/2066	3.000%	558	558	
994	Ice Harbor	09/2019	09/2069	3.125%	630	630	
995	John Day	09/1968	09/2018	7.280%	27,254	0	
996	John Day	09/1969	09/2019	7.270%	96,104	0	
997	John Day	09/1970	09/2020	7.250%	23,656	0	
998	John Day	09/1971	09/2021	7.230%	34,974	0	
999	John Day	09/1972	09/2022	7.210%	11,502	0	
1000	John Day	09/1984	09/2022	10.750%	3,677	0	
1001	John Day	09/1985	09/2022	7.210%	6,490	0	
1002	John Day	09/1985	09/2022	12.375%	1,209	0	
1003	John Day	09/1986	09/2022	7.210%	3,227	0	
1004	John Day	09/1986	09/2022	11.375%	713	0	
1005	John Day	09/1987	09/2022	7.210%	706	0	
1006	John Day	09/1987	09/2022	8.875%	4,353	0	
1007	John Day	09/1988	09/2022	8.500%	332	0	
1008	John Day	09/1988	09/2022	8.500%	199	0	
1009	John Day	09/1989	09/2022	7.210%	30	0	
1010	John Day	09/1989	09/2022	9.250%	377	0	
1011	John Day	09/1990	09/2022	7.210%	37	0	
1012	John Day	09/1990	09/2022	8.875%	543	0	
1013	John Day	09/1991	09/2022	8.750%	13,218	0	
1014	John Day	09/1991	09/2022	8.750%	144	0	
1015	John Day	09/1992	09/2022	7.210%	19	0	
1016	John Day	09/1992	09/2022	8.500%	95	0	
1017	John Day	09/1993	09/2022	7.875%	7,810	0	
1018	John Day	09/1993	09/2022	7.875%	9,585	0	
1019	John Day	09/1994	09/2019	7.125%	14	0	
1020	John Day	09/1994	09/2029	7.125%	1,252	0	
1021	John Day	09/1995	09/2000	7.330%	2	0	
1022	John Day	09/1995	09/2000	7.330%	9	0	
1023	John Day	09/1995	09/2020	7.250%	79	0	
1024	John Day	09/1995	09/2035	7.150%	22	0	
1025	John Day	09/1995	09/2035	7.150%	52	0	
1026	John Day	09/1995	09/2035	7.150%	121	0	
1027	John Day	09/1995	09/2045	7.150%	37	0	
1028	John Day	09/1995	09/2045	7.150%	608	0	
1029	John Day	09/1995	09/2045	7.150%	7,653	0	
1030	John Day	09/1996	09/2011	7.130%	237	0	
1031	John Day	09/1996	09/2016	7.290%	1,072	0	
1032	John Day	09/1997	09/2022	7.230%	133	0	
1033	John Day	09/1997	09/2047	7.150%	179	0	
1034	John Day	09/1999	09/2049	5.375%	3,510	0	
1035	John Day	09/2000	09/2050	6.125%	2,761	0	
1036	John Day	09/2001	09/2051	5.875%	619	0	
1037	John Day	09/2004	09/2054	5.375%	2,830	0	

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

	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
1038	John Day	09/2005	09/2055	5.125%	2,827	0		
1039	John Day	09/2006	09/2056	4.500%	601	601		
1040	John Day	09/2007	09/2057	5.000%	233	0		
1041	John Day	09/2009	09/2059	4.375%	1,548	1,548		
1042	John Day	09/2010	09/2060	4.250%	356	356		
1043	John Day	09/2011	09/2061	3.750%	175	175		
1044	John Day	09/2012	09/2062	3.375%	6,161	6,050		
1045	John Day	09/2013	09/2063	2.875%	17	0		
1046	John Day	09/2015	09/2065	3.250%	163	0		
1047	Libby	09/1975	09/2025	7.160%	54,644	0		
1048	Libby	09/1976	09/2026	7.150%	153,432	0		
1049	Libby	09/1977	09/2026	7.150%	1,465	0		
1050	Libby	09/1978	09/2026	7.150%	1,465	0		
1051	Libby	09/1979	09/2026	7.150%	1,465	0		
1052	Libby	09/1980	09/2026	7.150%	1,465	0		
1053	Libby	09/1981	09/2026	7.150%	1,465	0		
1054	Libby	09/1982	09/2026	7.150%	1,465	0		
1055	Libby	09/1983	09/2026	7.150%	1,465	0		
1056	Libby	09/1984	09/2026	10.750%	104	0		
1057	Libby	09/1985	09/2026	7.150%	518	0		
1058	Libby	09/1986	09/2026	7.150%	283	0		
1059	Libby	09/1987	09/2026	7.150%	2	0		
1060	Libby	09/1988	09/2026	8.505%	35	0		
1061	Libby	09/1988	09/2038	7.150%	18,043	0		
1062	Libby	09/1989	09/2026	7.150%	1	0		
1063	Libby	09/1989	09/2026	9.250%	131	0		
1064	Libby	09/1990	09/2026	8.875%	11	0		
1065	Libby	09/1991	09/2026	8.750%	134	0		
1066	Libby	09/1992	09/2026	8.500%	100	0		
1067	Libby	09/1992	09/2026	8.500%	70	0		
1068	Libby	09/1993	09/2026	7.875%	600	0		
1069	Libby	09/1994	09/2029	7.125%	215	0		
1070	Libby	09/1994	09/2029	7.150%	286	0		
1071	Libby	09/1995	09/2030	7.150%	15	0		
1072	Libby	09/1995	09/2030	7.150%	41	0		
1073	Libby	09/1995	09/2030	7.150%	94	0		
1074	Libby	09/1997	09/2022	7.230%	432	0		
1075	Libby	09/1997	09/2047	7.150%	660	0		
1076	Libby	09/2001	09/2051	5.875%	5,562	0		
1077	Libby	09/2008	09/2058	4.875%	1,567	0		
1078	Libby	09/2010	09/2060	4.250%	40	40		
1079	Libby	09/2011	09/2061	3.750%	152	152		
1080	Libby	09/2012	09/2062	3.375%	16	16		
1081	Libby	09/2018	09/2068	2.750%	282	282		
1082	Libby	09/2020	09/2070	2.125%	5	5		
1083	Little Goose	09/1970	09/2020	7.250%	22,326	0		
1084	Little Goose	09/1971	09/2021	7.230%	42,962	0		
1085	Little Goose	09/1972	09/2021	7.230%	28	0		
1086	Little Goose	09/1973	09/2021	7.230%	29	0		
1087	Little Goose	09/1974	09/2021	7.230%	28	0		
1088	Little Goose	09/1975	09/2021	7.230%	29	0		
1089	Little Goose	09/1976	09/2021	7.230%	28	0		
1090	Little Goose	09/1977	09/2021	7.230%	29	0		
1091	Little Goose	09/1978	09/2021	7.230%	28	0		
1092	Little Goose	09/1978	09/2028	7.150%	49,578	0		
1093	Little Goose	09/1979	09/2021	7.230%	29	0		
1094	Little Goose	09/1980	09/2021	7.230%	28	0		
1095	Little Goose	09/1981	09/2021	7.230%	29	0		
1096	Little Goose	09/1982	09/2021	7.230%	28	0		
1097	Little Goose	09/1983	09/2021	7.230%	29	0		
1098	Little Goose	09/1984	09/2021	10.750%	201	0		

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

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
1099	Little Goose	09/1985	09/2021	7.230%	174	0	
1100	Little Goose	09/1985	09/2028	7.150%	47	0	
1101	Little Goose	09/1986	09/2021	7.230%	239	0	
1102	Little Goose	09/1987	09/2021	7.230%	6	0	
1103	Little Goose	09/1987	09/2021	8.875%	72	0	
1104	Little Goose	09/1988	09/2021	8.500%	12	0	
1105	Little Goose	09/1988	09/2021	8.500%	68	0	
1106	Little Goose	09/1989	09/2021	9.250%	77	0	
1107	Little Goose	09/1990	09/2021	8.875%	408	0	
1108	Little Goose	09/1990	09/2021	8.875%	21	0	
1109	Little Goose	09/1991	09/2021	8.750%	266	0	
1110	Little Goose	09/1992	09/2021	8.500%	66	0	
1111	Little Goose	09/1992	09/2021	8.500%	27	0	
1112	Little Goose	09/1993	09/2021	7.875%	276	0	
1113	Little Goose	09/1993	09/2021	7.875%	3,359	0	
1114	Little Goose	09/1994	09/2019	7.125%	37	0	
1115	Little Goose	09/1994	09/2029	7.125%	2,044	0	
1116	Little Goose	09/1995	09/2040	7.150%	17	0	
1117	Little Goose	09/1995	09/2040	7.150%	450	0	
1118	Little Goose	09/1995	09/2040	7.150%	733	0	
1119	Little Goose	09/1996	09/2046	7.150%	10	0	
1120	Little Goose	09/1996	09/2046	7.150%	10	0	
1121	Little Goose	09/1996	09/2046	7.150%	211	0	
1122	Little Goose	09/1996	09/2046	7.150%	241	0	
1123	Little Goose	09/1996	09/2046	7.150%	520	0	
1124	Little Goose	09/1996	09/2046	7.150%	3,909	0	
1125	Little Goose	09/1997	09/2047	7.150%	1	0	
1126	Little Goose	09/2001	09/2051	5.875%	4,608	0	
1127	Little Goose	09/2002	09/2052	5.500%	27	0	
1128	Little Goose	09/2003	09/2053	5.125%	146	0	
1129	Little Goose	09/2004	09/2054	5.375%	67	0	
1130	Little Goose	09/2008	09/2058	4.875%	13	0	
1131	Little Goose	09/2009	09/2059	4.375%	3,171	3,171	
1132	Little Goose	09/2010	09/2060	4.250%	30	30	
1133	Little Goose	09/2013	09/2063	2.875%	66	66	
1134	Little Goose	09/2018	09/2068	2.750%	2,707	2,707	
1135	Little Goose	09/2020	09/2070	2.125%	5,504	5,504	
1136	Lookout Dam	09/1955	09/2005	6.910%	34,290	0	
1137	Lookout Dam	09/1956	09/2005	6.910%	52	0	
1138	Lookout Dam	09/1957	09/2005	6.910%	51	0	
1139	Lookout Dam	09/1958	09/2005	6.910%	51	0	
1140	Lookout Dam	09/1959	09/2005	6.910%	51	0	
1141	Lookout Dam	09/1960	09/2005	6.910%	51	0	
1142	Lookout Dam	09/1961	09/2005	6.910%	52	0	
1143	Lookout Dam	09/1962	09/2005	6.910%	51	0	
1144	Lookout Dam	09/1963	09/2005	6.910%	51	0	
1145	Lookout Dam	09/1964	09/2005	6.910%	51	0	
1146	Lookout Dam	09/1965	09/2005	6.910%	51	0	
1147	Lookout Dam	09/1966	09/2005	6.910%	51	0	
1148	Lookout Dam	09/1967	09/2005	6.910%	52	0	
1149	Lookout Dam	09/1968	09/2005	6.910%	51	0	
1150	Lookout Dam	09/1969	09/2005	6.910%	51	0	
1151	Lookout Dam	09/1970	09/2005	6.910%	51	0	
1152	Lookout Dam	09/1971	09/2005	6.910%	51	0	
1153	Lookout Dam	09/1972	09/2005	6.910%	51	0	
1154	Lookout Dam	09/1973	09/2005	6.910%	52	0	
1155	Lookout Dam	09/1974	09/2005	6.910%	51	0	
1156	Lookout Dam	09/1975	09/2005	6.910%	51	0	
1157	Lookout Dam	09/1976	09/2005	6.910%	51	0	
1158	Lookout Dam	09/1977	09/2005	6.910%	51	0	
1159	Lookout Dam	09/1978	09/2005	6.910%	51	0	

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

	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
1160	Lookout Dam	09/1979	09/2005	6.910%	52	0		
1161	Lookout Dam	09/1980	09/2005	6.910%	51	0		
1162	Lookout Dam	09/1981	09/2005	6.910%	51	0		
1163	Lookout Dam	09/1982	09/2005	6.910%	51	0		
1164	Lookout Dam	09/1983	09/2005	6.910%	51	0		
1165	Lookout Dam	09/1984	09/2005	10.750%	185	0		
1166	Lookout Dam	09/1985	09/2005	6.910%	52	0		
1167	Lookout Dam	09/1986	09/2005	6.910%	42	0		
1168	Lookout Dam	09/1987	09/2005	6.910%	9	0		
1169	Lookout Dam	09/1987	09/2005	8.875%	12	0		
1170	Lookout Dam	09/1988	09/2005	8.500%	46	0		
1171	Lookout Dam	09/1988	09/2005	8.500%	17	0		
1172	Lookout Dam	09/1989	09/2005	9.250%	23	0		
1173	Lookout Dam	09/1990	09/2005	8.875%	147	0		
1174	Lookout Dam	09/1990	09/2005	8.875%	4	0		
1175	Lookout Dam	09/1991	09/2005	8.750%	6	0		
1176	Lookout Dam	09/1991	09/2005	8.750%	50	0		
1177	Lookout Dam	09/1992	09/2005	8.500%	181	0		
1178	Lookout Dam	09/1992	09/2005	8.500%	4	0		
1179	Lookout Dam	09/1993	09/2005	7.875%	18	0		
1180	Lookout Dam	09/1993	09/2005	7.875%	189	0		
1181	Lookout Dam	09/1994	09/2019	7.125%	73	0		
1182	Lookout Dam	09/1995	09/2045	7.150%	80	0		
1183	Lookout Dam	09/1995	09/2045	7.150%	33	0		
1184	Lookout Dam	09/1995	09/2045	7.860%	9	0		
1185	Lookout Dam	09/1995	09/2045	7.860%	15	0		
1186	Lookout Dam	09/1995	09/2045	7.860%	31	0		
1187	Lookout Dam	09/1995	09/2045	7.860%	157	0		
1188	Lookout Dam	09/2000	09/2050	6.125%	5,098	0		
1189	Lookout Dam	09/2003	09/2053	5.125%	135	0		
1190	Lookout Dam	09/2005	09/2055	5.125%	7,355	0		
1191	Lookout Dam	09/2007	09/2057	5.000%	572	0		
1192	Lookout Dam	09/2011	09/2061	3.750%	17	17		
1193	Lookout Dam	09/2012	09/2062	3.375%	294	294		
1194	Lost Creek	09/1977	09/2027	7.150%	14,293	0		
1195	Lost Creek	09/1978	09/2027	7.150%	58	0		
1196	Lost Creek	09/1979	09/2027	7.150%	60	0		
1197	Lost Creek	09/1980	09/2027	7.150%	60	0		
1198	Lost Creek	09/1981	09/2027	7.150%	60	0		
1199	Lost Creek	09/1982	09/2027	7.150%	60	0		
1200	Lost Creek	09/1983	09/2027	7.150%	60	0		
1201	Lost Creek	09/1984	09/2027	10.750%	243	0		
1202	Lost Creek	09/1985	09/2027	7.150%	12	0		
1203	Lost Creek	09/1986	09/2027	7.150%	6	0		
1204	Lost Creek	09/1986	09/2027	11.375%	5	0		
1205	Lost Creek	09/1987	09/2027	7.150%	4	0		
1206	Lost Creek	09/1987	09/2027	8.875%	3	0		
1207	Lost Creek	09/1988	09/2027	8.500%	7	0		
1208	Lost Creek	09/1989	09/2027	9.250%	9	0		
1209	Lost Creek	09/1990	09/2027	8.875%	1	0		
1210	Lost Creek	09/1991	09/2027	8.750%	31	0		
1211	Lost Creek	09/1992	09/2027	8.500%	1	0		
1212	Lost Creek	09/1992	09/2027	8.500%	1	0		
1213	Lost Creek	09/1993	09/2027	7.875%	1	0		
1214	Lost Creek	09/1993	09/2027	7.875%	14	0		
1215	Lost Creek	09/1995	09/2000	7.330%	4	0		
1216	Lost Creek	09/1995	09/2045	7.150%	94	0		
1217	Lost Creek	09/1996	09/2031	7.150%	31	0		
1218	Lost Creek	09/1996	09/2046	7.150%	24	0		
1219	Lost Creek	09/2001	09/2051	5.875%	147	0		
1220	Lost Creek	09/2011	09/2061	3.750%	7	7		

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

	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
1221	Lower Granite	09/1975	09/2025	7.160%	119,237	0		
1222	Lower Granite	09/1976	09/2025	7.160%	510	0		
1223	Lower Granite	09/1977	09/2025	7.160%	510	0		
1224	Lower Granite	09/1978	09/2025	7.160%	510	0		
1225	Lower Granite	09/1978	09/2028	7.150%	40,611	0		
1226	Lower Granite	09/1979	09/2025	7.160%	510	0		
1227	Lower Granite	09/1980	09/2025	7.160%	510	0		
1228	Lower Granite	09/1981	09/2025	7.160%	510	0		
1229	Lower Granite	09/1982	09/2025	7.160%	510	0		
1230	Lower Granite	09/1983	09/2025	7.160%	510	0		
1231	Lower Granite	09/1984	09/2025	10.750%	311	0		
1232	Lower Granite	09/1985	09/2025	7.160%	328	0		
1233	Lower Granite	09/1986	09/2025	7.160%	215	0		
1234	Lower Granite	09/1986	09/2025	11.375%	4	0		
1235	Lower Granite	09/1987	09/2025	7.160%	8	0		
1236	Lower Granite	09/1987	09/2025	8.875%	60	0		
1237	Lower Granite	09/1988	09/2025	8.500%	22	0		
1238	Lower Granite	09/1988	09/2025	8.500%	95	0		
1239	Lower Granite	09/1989	09/2025	9.250%	112	0		
1240	Lower Granite	09/1990	09/2025	8.875%	392	0		
1241	Lower Granite	09/1991	09/2025	8.750%	281	0		
1242	Lower Granite	09/1991	09/2025	8.750%	6	0		
1243	Lower Granite	09/1992	09/2025	8.500%	83	0		
1244	Lower Granite	09/1992	09/2025	8.500%	121	0		
1245	Lower Granite	09/1993	09/2025	7.875%	26	0		
1246	Lower Granite	09/1993	09/2025	7.875%	3,272	0		
1247	Lower Granite	09/1994	09/2019	7.125%	38	0		
1248	Lower Granite	09/1994	09/2029	7.150%	3,543	0		
1249	Lower Granite	09/1995	09/2017	7.290%	77	0		
1250	Lower Granite	09/1995	09/2017	7.290%	388	0		
1251	Lower Granite	09/1995	09/2017	7.290%	458	0		
1252	Lower Granite	09/1995	09/2025	7.160%	96	0		
1253	Lower Granite	09/1996	09/2011	7.130%	255	0		
1254	Lower Granite	09/1996	09/2031	7.150%	206	0		
1255	Lower Granite	09/1996	09/2046	7.150%	9	0		
1256	Lower Granite	09/1996	09/2046	7.150%	625	0		
1257	Lower Granite	09/1997	09/2047	7.150%	677	0		
1258	Lower Granite	09/1999	09/2049	5.375%	856	0		
1259	Lower Granite	09/2001	09/2051	5.875%	2,025	0		
1260	Lower Granite	09/2002	09/2052	5.500%	1,275	0		
1261	Lower Granite	09/2003	09/2053	5.125%	42	0		
1262	Lower Granite	09/2005	09/2055	5.125%	393	0		
1263	Lower Granite	09/2008	09/2058	4.875%	24	0		
1264	Lower Granite	09/2009	09/2059	4.375%	5,669	5,669		
1265	Lower Granite	09/2010	09/2060	4.250%	1,156	1,156		
1266	Lower Granite	09/2011	09/2061	3.750%	8	8		
1267	Lower Granite	09/2014	09/2064	3.875%	2,644	2,644		
1268	Lower Granite	09/2015	09/2065	3.250%	1,597	1,597		
1269	Lower Granite	09/2016	09/2066	3.000%	1,878	1,878		
1270	Lower Granite	09/2020	09/2070	2.125%	18,822	18,822		
1271	Lower Monument	09/1969	09/2019	7.270%	26,974	0		
1272	Lower Monument	09/1970	09/2020	7.250%	51,218	0		
1273	Lower Monument	09/1971	09/2020	7.250%	214	0		
1274	Lower Monument	09/1972	09/2020	7.250%	214	0		
1275	Lower Monument	09/1973	09/2020	7.250%	214	0		
1276	Lower Monument	09/1974	09/2020	7.250%	214	0		
1277	Lower Monument	09/1975	09/2020	7.250%	214	0		
1278	Lower Monument	09/1976	09/2020	7.250%	214	0		
1279	Lower Monument	09/1977	09/2020	7.250%	214	0		
1280	Lower Monument	09/1978	09/2020	7.250%	214	0		
1281	Lower Monument	09/1979	09/2020	7.250%	214	0		

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

	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
1282	Lower Monument	09/1979	09/2029	7.150%	40,669	0		
1283	Lower Monument	09/1980	09/2020	7.250%	214	0		
1284	Lower Monument	09/1981	09/2020	7.250%	214	0		
1285	Lower Monument	09/1982	09/2020	7.250%	214	0		
1286	Lower Monument	09/1983	09/2020	7.250%	214	0		
1287	Lower Monument	09/1985	09/2020	7.250%	8	0		
1288	Lower Monument	09/1985	09/2029	7.150%	256	0		
1289	Lower Monument	09/1986	09/2020	7.250%	132	0		
1290	Lower Monument	09/1987	09/2020	7.250%	3	0		
1291	Lower Monument	09/1987	09/2020	8.875%	50	0		
1292	Lower Monument	09/1988	09/2020	8.500%	1	0		
1293	Lower Monument	09/1988	09/2020	8.500%	58	0		
1294	Lower Monument	09/1989	09/2020	9.250%	93	0		
1295	Lower Monument	09/1990	09/2020	8.875%	358	0		
1296	Lower Monument	09/1991	09/2020	8.750%	594	0		
1297	Lower Monument	09/1992	09/2020	8.500%	4,484	0		
1298	Lower Monument	09/1993	09/2020	7.875%	24	0		
1299	Lower Monument	09/1993	09/2020	7.875%	2,175	0		
1300	Lower Monument	09/1994	09/2019	7.125%	107	0		
1301	Lower Monument	09/1994	09/2029	7.125%	2,167	0		
1302	Lower Monument	09/1995	09/2000	7.330%	6	0		
1303	Lower Monument	09/1995	09/2045	7.150%	41	0		
1304	Lower Monument	09/1995	09/2045	7.150%	99	0		
1305	Lower Monument	09/1995	09/2045	7.150%	624	0		
1306	Lower Monument	09/1995	09/2045	7.150%	1,122	0		
1307	Lower Monument	09/1996	09/2016	7.290%	668	0		
1308	Lower Monument	09/1996	09/2021	7.230%	37	0		
1309	Lower Monument	09/1996	09/2021	7.230%	51	0		
1310	Lower Monument	09/1996	09/2036	7.150%	264	0		
1311	Lower Monument	09/1996	09/2046	7.150%	10	0		
1312	Lower Monument	09/2001	09/2051	5.875%	3,301	0		
1313	Lower Monument	09/2002	09/2052	5.500%	29	0		
1314	Lower Monument	09/2003	09/2053	5.125%	22	0		
1315	Lower Monument	09/2004	09/2054	5.375%	3,423	0		
1316	Lower Monument	09/2005	09/2055	5.125%	527	0		
1317	Lower Monument	09/2006	09/2056	4.500%	285	285		
1318	Lower Monument	09/2008	09/2058	4.875%	9	0		
1319	Lower Monument	09/2009	09/2059	4.375%	2,332	2,332		
1320	Lower Monument	09/2012	09/2062	3.375%	89	89		
1321	Lower Monument	09/2014	09/2064	3.875%	1,430	1,430		
1322	Lower Monument	09/2016	09/2066	3.000%	155	155		
1323	Lower Monument	09/2017	09/2067	2.375%	942	942		
1324	Lower Snake Fish and Wildlife	09/1983	09/2033	7.150%	30,488	0		
1325	Lower Snake Fish and Wildlife	09/1985	09/2035	7.150%	47,921	0		
1326	Lower Snake Fish and Wildlife	09/1987	09/2037	7.150%	72,536	0		
1327	Lower Snake Fish and Wildlife	09/1988	09/2038	7.150%	805	0		
1328	Lower Snake Fish and Wildlife	09/1990	09/2040	7.150%	1,557	0		
1329	Lower Snake Fish and Wildlife	09/1991	09/2041	7.150%	4,411	0		
1330	Lower Snake Fish and Wildlife	09/1993	09/2043	7.150%	71,632	0		
1331	Lower Snake Fish and Wildlife	09/1994	09/2044	7.150%	4,722	0		
1332	Lower Snake Fish and Wildlife	09/1996	09/2046	7.150%	12,085	0		
1333	Lower Snake Fish and Wildlife	09/1997	09/2047	7.150%	2,173	0		
1334	Lower Snake Fish and Wildlife	09/1999	09/2049	5.375%	7	0		
1335	Lower Snake Fish and Wildlife	09/2000	09/2050	6.125%	1,529	0		
1336	Lower Snake Fish and Wildlife	09/2001	09/2051	5.875%	325	0		
1337	Lower Snake Fish and Wildlife	09/2002	09/2052	5.500%	890	0		
1338	Lower Snake Fish and Wildlife	09/2003	09/2053	5.125%	98	0		
1339	Lower Snake Fish and Wildlife	09/2004	09/2054	5.375%	230	0		
1340	Lower Snake Fish and Wildlife	09/2005	09/2055	5.125%	4	0		
1341	Lower Snake Fish and Wildlife	09/2006	09/2056	4.500%	379	379		
1342	Lower Snake Fish and Wildlife	09/2008	09/2058	4.875%	74	0		

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

	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
1343	Lower Snake Fish and Wildlife	09/2009	09/2059	4.375%	1,540	1,540		
1344	Lower Snake Fish and Wildlife	09/2010	09/2060	4.250%	6	6		
1345	Lower Snake Fish and Wildlife	09/2011	09/2061	3.750%	122	122		
1346	Lower Snake Fish and Wildlife	09/2014	09/2064	3.875%	222	222		
1347	Lower Snake Fish and Wildlife	09/2016	09/2066	3.000%	1,256	1,256		
1348	Lower Snake Fish and Wildlife	09/2018	09/2068	2.750%	1,608	1,608		
1349	Lower Snake Fish and Wildlife	09/2020	09/2070	2.125%	295	295		
1350	McNary	09/1954	09/2004	6.880%	80,256	0		
1351	McNary	09/1955	09/2005	6.910%	53,493	0		
1352	McNary	09/1956	09/2006	6.950%	38,748	0		
1353	McNary	09/1957	09/2007	6.980%	24,985	0		
1354	McNary	09/1958	09/2007	6.980%	468	0		
1355	McNary	09/1959	09/2007	6.980%	468	0		
1356	McNary	09/1960	09/2007	6.980%	468	0		
1357	McNary	09/1961	09/2007	6.980%	468	0		
1358	McNary	09/1962	09/2007	6.980%	467	0		
1359	McNary	09/1963	09/2007	6.980%	468	0		
1360	McNary	09/1964	09/2007	6.980%	468	0		
1361	McNary	09/1965	09/2007	6.980%	468	0		
1362	McNary	09/1966	09/2007	6.980%	468	0		
1363	McNary	09/1967	09/2007	6.980%	467	0		
1364	McNary	09/1968	09/2007	6.980%	468	0		
1365	McNary	09/1969	09/2007	6.980%	468	0		
1366	McNary	09/1970	09/2007	6.980%	468	0		
1367	McNary	09/1971	09/2007	6.980%	468	0		
1368	McNary	09/1972	09/2007	6.980%	468	0		
1369	McNary	09/1973	09/2007	6.980%	467	0		
1370	McNary	09/1974	09/2007	6.980%	468	0		
1371	McNary	09/1975	09/2007	6.980%	468	0		
1372	McNary	09/1976	09/2007	6.980%	468	0		
1373	McNary	09/1977	09/2007	6.980%	467	0		
1374	McNary	09/1978	09/2007	6.980%	468	0		
1375	McNary	09/1979	09/2007	6.980%	468	0		
1376	McNary	09/1980	09/2007	6.980%	468	0		
1377	McNary	09/1981	09/2007	6.980%	468	0		
1378	McNary	09/1982	09/2007	6.980%	467	0		
1379	McNary	09/1983	09/2007	6.980%	468	0		
1380	McNary	09/1985	09/2007	6.980%	557	0		
1381	McNary	09/1986	09/2007	6.980%	454	0		
1382	McNary	09/1987	09/2007	6.980%	24	0		
1383	McNary	09/1995	09/2010	7.090%	509	0		
1384	McNary	09/1995	09/2045	7.150%	16	0		
1385	McNary	09/1996	09/2006	6.950%	778	0		
1386	McNary	09/1996	09/2011	7.130%	3	0		
1387	McNary	09/1996	09/2026	7.150%	74	0		
1388	McNary	09/1996	09/2026	7.150%	277	0		
1389	McNary	09/1996	09/2046	7.150%	619	0		
1390	McNary	09/1997	09/2032	7.150%	30	0		
1391	McNary	09/2001	09/2051	5.875%	1,046	0		
1392	McNary	09/2003	09/2053	5.125%	97	0		
1393	McNary	09/2004	09/2054	5.375%	6,138	0		
1394	McNary	09/2005	09/2055	5.125%	550	0		
1395	McNary	09/2006	09/2056	4.500%	4,080	4,080		
1396	McNary	09/2008	09/2058	4.875%	215	0		
1397	McNary	09/2011	09/2061	3.750%	565	565		
1398	McNary	09/2012	09/2062	3.375%	11	11		
1399	McNary	09/2013	09/2063	2.875%	1,000	1,000		
1400	McNary	09/2014	09/2064	3.875%	759	759		
1401	McNary	09/2017	09/2067	2.375%	239	239		
1402	McNary	09/2019	09/2069	3.125%	479	479		
1403	Minidoka/Palisades	09/1909	09/1959	3.000%	854	0		

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

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
1404	Minidoka/Palisades	09/1909	09/1959	3.000%	226	0	
1405	Minidoka/Palisades	09/1910	09/1960	3.000%	1,709	0	
1406	Minidoka/Palisades	09/1910	09/1960	3.000%	451	0	
1407	Minidoka/Palisades	09/1911	09/1961	3.000%	1,709	0	
1408	Minidoka/Palisades	09/1911	09/1961	3.000%	451	0	
1409	Minidoka/Palisades	09/1927	09/1977	3.000%	854	0	
1410	Minidoka/Palisades	09/1927	09/1977	3.000%	226	0	
1411	Minidoka/Palisades	09/1942	09/1992	3.000%	854	0	
1412	Minidoka/Palisades	09/1942	09/1992	3.000%	226	0	
1413	Minidoka/Palisades	09/1957	09/2007	3.000%	2,561	0	
1414	Minidoka/Palisades	09/1957	09/2007	3.000%	677	0	
1415	Minidoka/Palisades	09/1958	09/2008	3.000%	854	0	
1416	Minidoka/Palisades	09/1958	09/2008	3.000%	226	0	
1417	Minidoka/Palisades	09/1959	09/2008	3.000%	108	0	
1418	Minidoka/Palisades	09/1959	09/2008	3.000%	28	0	
1419	Minidoka/Palisades	09/1960	09/2008	3.000%	108	0	
1420	Minidoka/Palisades	09/1960	09/2008	3.000%	29	0	
1421	Minidoka/Palisades	09/1961	09/2008	3.000%	108	0	
1422	Minidoka/Palisades	09/1961	09/2008	3.000%	29	0	
1423	Minidoka/Palisades	09/1962	09/2008	3.000%	108	0	
1424	Minidoka/Palisades	09/1962	09/2008	3.000%	28	0	
1425	Minidoka/Palisades	09/1963	09/2008	3.000%	108	0	
1426	Minidoka/Palisades	09/1963	09/2008	3.000%	29	0	
1427	Minidoka/Palisades	09/1964	09/2008	3.000%	108	0	
1428	Minidoka/Palisades	09/1964	09/2008	3.000%	28	0	
1429	Minidoka/Palisades	09/1965	09/2008	3.000%	108	0	
1430	Minidoka/Palisades	09/1965	09/2008	3.000%	29	0	
1431	Minidoka/Palisades	09/1966	09/2008	3.000%	108	0	
1432	Minidoka/Palisades	09/1966	09/2008	3.000%	29	0	
1433	Minidoka/Palisades	09/1967	09/2008	3.000%	108	0	
1434	Minidoka/Palisades	09/1967	09/2008	3.000%	28	0	
1435	Minidoka/Palisades	09/1968	09/2008	3.000%	108	0	
1436	Minidoka/Palisades	09/1968	09/2008	3.000%	29	0	
1437	Minidoka/Palisades	09/1969	09/2008	3.000%	3	0	
1438	Minidoka/Palisades	09/1969	09/2008	3.000%	28	0	
1439	Minidoka/Palisades	09/1970	09/2008	3.000%	108	0	
1440	Minidoka/Palisades	09/1970	09/2008	3.000%	29	0	
1441	Minidoka/Palisades	09/1971	09/2008	3.000%	108	0	
1442	Minidoka/Palisades	09/1971	09/2008	3.000%	29	0	
1443	Minidoka/Palisades	09/1972	09/2008	3.000%	108	0	
1444	Minidoka/Palisades	09/1972	09/2008	3.000%	28	0	
1445	Minidoka/Palisades	09/1973	09/2008	3.000%	108	0	
1446	Minidoka/Palisades	09/1973	09/2008	3.000%	29	0	
1447	Minidoka/Palisades	09/1974	09/2008	3.000%	108	0	
1448	Minidoka/Palisades	09/1974	09/2008	3.000%	28	0	
1449	Minidoka/Palisades	09/1975	09/2008	3.000%	108	0	
1450	Minidoka/Palisades	09/1975	09/2008	3.000%	29	0	
1451	Minidoka/Palisades	09/1976	09/2008	3.000%	108	0	
1452	Minidoka/Palisades	09/1976	09/2008	3.000%	29	0	
1453	Minidoka/Palisades	09/1977	09/2008	7.020%	83	0	
1454	Minidoka/Palisades	09/1977	09/2008	7.020%	28	0	
1455	Minidoka/Palisades	09/1978	09/2008	7.020%	75	0	
1456	Minidoka/Palisades	09/1978	09/2008	7.020%	20	0	
1457	Minidoka/Palisades	09/1979	09/2008	7.020%	75	0	
1458	Minidoka/Palisades	09/1979	09/2008	7.020%	19	0	
1459	Minidoka/Palisades	09/1980	09/2008	7.020%	75	0	
1460	Minidoka/Palisades	09/1980	09/2008	7.020%	20	0	
1461	Minidoka/Palisades	09/1981	09/2008	7.020%	75	0	
1462	Minidoka/Palisades	09/1981	09/2008	7.020%	20	0	
1463	Minidoka/Palisades	09/1982	09/2008	7.020%	75	0	
1464	Minidoka/Palisades	09/1982	09/2008	7.020%	19	0	

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

	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
1465	Minidoka/Palisades	09/1983	09/2008	7.020%	65	0		
1466	Minidoka/Palisades	09/1983	09/2008	7.020%	20	0		
1467	Minidoka/Palisades	09/1984	09/2008	10.075%	44	0		
1468	Minidoka/Palisades	09/1984	09/2008	10.075%	11	0		
1469	Minidoka/Palisades	09/1985	09/2008	7.020%	21	0		
1470	Minidoka/Palisades	09/1986	09/2008	7.020%	21	0		
1471	Minidoka/Palisades	09/1986	09/2008	11.375%	48	0		
1472	Minidoka/Palisades	09/1987	09/2008	7.020%	16	0		
1473	Minidoka/Palisades	09/1988	09/2008	8.500%	31	0		
1474	Minidoka/Palisades	09/1989	09/2008	9.250%	20	0		
1475	Minidoka/Palisades	09/1990	09/2008	8.875%	33	0		
1476	Minidoka/Palisades	09/1991	09/2008	8.750%	62	0		
1477	Minidoka/Palisades	09/1991	09/2008	8.750%	11	0		
1478	Minidoka/Palisades	09/1991	09/2008	8.750%	32	0		
1479	Minidoka/Palisades	09/1992	09/2008	8.500%	6	0		
1480	Minidoka/Palisades	09/1994	09/2029	7.125%	351	0		
1481	Minidoka/Palisades	09/1995	09/2000	7.330%	6	0		
1482	Minidoka/Palisades	09/1995	09/2010	7.890%	40	0		
1483	Minidoka/Palisades	09/1996	09/2011	7.130%	54	0		
1484	Minidoka/Palisades	09/1997	09/2007	6.950%	66	0		
1485	Minidoka/Palisades	09/1997	09/2047	7.150%	50,911	0		
1486	Minidoka/Palisades	09/2001	09/2051	5.875%	42	0		
1487	Minidoka/Palisades	09/2012	09/2062	3.375%	7	7		
1488	Minidoka/Palisades	09/2015	09/2065	3.250%	19,237	19,237		
1489	Minidoka/Palisades	09/2016	09/2066	3.000%	206	206		
1490	Minidoka/Palisades	09/2017	09/2067	2.375%	127	127		
1491	Minidoka/Palisades	09/2018	09/2068	2.750%	145	145		
1492	Minidoka/Palisades	09/2019	09/2069	3.125%				
1493	RRP - Green Springs	09/2001	09/2051	5.875%	11,145	0		
1494	RRP - Green Springs	09/2012	09/2062	3.375%	2	2		
1495	RRP - Green Springs	09/2013	09/2063	2.875%				
1496	RRP - Green Springs	09/2019	09/2069	3.125%	14	16		
1497	RRP - Green Springs	09/2020	09/2070	2.125%	64	64		
1498	The Dalles	09/1957	09/2007	2.500%	15,908	0		
1499	The Dalles	09/1958	09/2008	7.020%	45,837	0		
1500	The Dalles	09/1959	09/2009	7.060%	40,415	0		
1501	The Dalles	09/1960	09/2010	7.090%	39,179	0		
1502	The Dalles	09/1961	09/2011	7.130%	9,492	0		
1503	The Dalles	09/1962	09/2011	7.130%	56	0		
1504	The Dalles	09/1963	09/2011	7.130%	57	0		
1505	The Dalles	09/1964	09/2011	7.130%	57	0		
1506	The Dalles	09/1965	09/2011	7.130%	56	0		
1507	The Dalles	09/1966	09/2011	7.130%	57	0		
1508	The Dalles	09/1967	09/2011	7.130%	57	0		
1509	The Dalles	09/1968	09/2011	7.130%	56	0		
1510	The Dalles	09/1969	09/2011	7.130%	57	0		
1511	The Dalles	09/1970	09/2011	7.130%	57	0		
1512	The Dalles	09/1971	09/2011	7.130%	56	0		
1513	The Dalles	09/1972	09/2011	7.130%	57	0		
1514	The Dalles	09/1973	09/2011	7.130%	57	0		
1515	The Dalles	09/1973	09/2023	7.190%	21,983	0		
1516	The Dalles	09/1974	09/2011	7.130%	56	0		
1517	The Dalles	09/1974	09/2024	7.170%	7,268	0		
1518	The Dalles	09/1975	09/2011	7.130%	57	0		
1519	The Dalles	09/1976	09/2011	7.130%	57	0		
1520	The Dalles	09/1977	09/2011	7.130%	56	0		
1521	The Dalles	09/1978	09/2011	7.130%	57	0		
1522	The Dalles	09/1979	09/2011	7.130%	57	0		
1523	The Dalles	09/1980	09/2011	7.130%	56	0		
1524	The Dalles	09/1981	09/2011	7.130%	57	0		
1525	The Dalles	09/1982	09/2011	7.130%	57	0		

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

	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
1526	The Dalles	09/1983	09/2011	7.130%	56	0		
1527	The Dalles	09/1984	09/2011	10.750%	961	0		
1528	The Dalles	09/1985	09/2011	7.130%	95	0		
1529	The Dalles	09/1985	09/2011	12.375%	280	0		
1530	The Dalles	09/1986	09/2011	7.130%	95	0		
1531	The Dalles	09/1986	09/2011	11.375%	4	0		
1532	The Dalles	09/1987	09/2011	7.130%	1,417	0		
1533	The Dalles	09/1987	09/2011	8.875%	81	0		
1534	The Dalles	09/1988	09/2011	8.500%	685	0		
1535	The Dalles	09/1988	09/2011	8.500%	1	0		
1536	The Dalles	09/1989	09/2011	9.250%	898	0		
1537	The Dalles	09/1990	09/2011	8.875%	319	0		
1538	The Dalles	09/1990	09/2011	8.875%	745	0		
1539	The Dalles	09/1991	09/2011	8.750%	89	0		
1540	The Dalles	09/1991	09/2011	8.750%	2,452	0		
1541	The Dalles	09/1992	09/2011	8.500%	57	0		
1542	The Dalles	09/1992	09/2011	8.500%	130	0		
1543	The Dalles	09/1993	09/2011	7.875%	2,028	0		
1544	The Dalles	09/1993	09/2011	7.875%	2,929	0		
1545	The Dalles	09/1994	09/2029	7.125%	1,425	0		
1546	The Dalles	09/1996	09/2008	7.020%	196	0		
1547	The Dalles	09/1996	09/2011	7.130%	457	0		
1548	The Dalles	09/1996	09/2046	7.150%	1,991	0		
1549	The Dalles	09/2000	09/2050	6.125%	2,588	0		
1550	The Dalles	09/2002	09/2052	5.500%	1,226	0		
1551	The Dalles	09/2004	09/2054	5.375%	182	0		
1552	The Dalles	09/2005	09/2055	5.125%	36,019	0		
1553	The Dalles	09/2006	09/2056	4.500%	2,030	2,030		
1554	The Dalles	09/2007	09/2057	5.000%	140	0		
1555	The Dalles	09/2008	09/2058	4.875%	1,651	0		
1556	The Dalles	09/2015	09/2065	3.250%	302	302		
1557	The Dalles	09/2016	09/2066	3.000%	4	4		
1558	The Dalles	09/2017	09/2067	2.375%	10	10		
1559	The Dalles	09/2018	09/2068	2.750%	15	15		
1560	The Dalles	09/2019	09/2069	3.125%	129	158		
1561	Yakima Chandler/Kenniwick	09/1956	09/2022	7.210%	1,068	0		
1562	Yakima Chandler/Kenniwick	09/1956	09/2022	7.210%	481	0		
1563	Yakima Chandler/Kenniwick	09/1959	09/2022	7.210%	1	0		
1564	Yakima Chandler/Kenniwick	09/1960	09/2022	7.210%	1	0		
1565	Yakima Chandler/Kenniwick	09/1961	09/2022	7.210%	1	0		
1566	Yakima Chandler/Kenniwick	09/1984	09/2022	10.750%	10	0		
1567	Yakima Chandler/Kenniwick	09/1984	09/2022	10.750%	35	0		
1568	Yakima Chandler/Kenniwick	09/1985	09/2022	12.375%	357	0		
1569	Yakima Chandler/Kenniwick	09/1986	09/2022	7.210%	439	0		
1570	Yakima Chandler/Kenniwick	09/1986	09/2022	11.375%	7	0		
1571	Yakima Chandler/Kenniwick	09/1987	09/2022	8.875%	126	0		
1572	Yakima Chandler/Kenniwick	09/1989	09/2022	9.250%	18	0		
1573	Yakima Chandler/Kenniwick	09/1990	09/2022	8.875%	40	0		
1574	Yakima Chandler/Kenniwick	09/1991	09/2022	8.750%	109	0		
1575	Yakima Chandler/Kenniwick	09/2005	09/2055	5.125%	833	0		
1576	Yakima Chandler/Kenniwick	09/2009	09/2059	4.375%	15	15		
1577	Yakima Chandler/Kenniwick	09/2018	09/2068	2.750%	49	49		
1578	Yakima Roza	09/1958	09/2008	7.020%	1,194	0		
1579	Yakima Roza	09/1958	09/2008	7.020%	383	0		
1580	Yakima Roza	09/1984	09/2008	10.750%	17	0		
1581	Yakima Roza	09/1984	09/2008	10.750%	5	0		
1582	Yakima Roza	09/1985	09/2008	7.020%	69	0		
1583	Yakima Roza	09/1985	09/2008	12.375%	5	0		
1584	Yakima Roza	09/1986	09/2008	7.020%	6	0		
1585	Yakima Roza	09/1987	09/2008	7.020%	2	0		
1586	Yakima Roza	09/1987	09/2008	8.875%	9	0		

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

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	
1587	Yakima Roza	09/2001	09/2051	5.875%	15	0		
1588	Bureau Direct	05/1995	05/2015	7.500%	35,000	0		
1589	Bureau Direct	05/1997	05/2000	6.500%	50,000	0		
1590	Bureau Direct	04/1998	05/2008	6.000%	25,000	0		
1591	Bureau Direct	09/1999	09/2004	6.400%	20,000	0		
1592	Bureau Direct	04/2000	04/2003	6.850%	40,000	0		
1593	Bureau Direct	09/2000	09/2005	6.700%	20,000	0		
1594	Bureau Direct	06/2001	06/2004	4.750%	50,000	0		
1595	Bureau Direct	03/2002	03/2005	4.600%	30,000	0		
1596	Bureau Direct	09/2002	09/2006	3.050%	20,000	0		
1597	Bureau Direct	12/2002	12/2006	3.050%	40,000	0		
1598	Bureau Direct	04/2003	04/2006	2.400%	40,000	0		
1599	Bureau Direct	04/2003	04/2006	2.400%	25,000	0		
1600	Bureau Direct	07/2003	07/2006	2.300%	30,000	0		
1601	Bureau Direct	09/2003	09/2006	2.500%	25,000	0		
1602	Bureau Direct	01/2004	01/2007	2.500%	25,000	0		
1603	Bureau Direct	04/2004	04/2007	2.950%	35,000	0		
1604	Bureau Direct	07/2004	07/2007	3.450%	25,000	0		
1605	Bureau Direct	09/2004	09/2007	3.100%	30,000	0		
1606	Bureau Direct	11/2004	11/2007	3.500%	20,000	0		
1607	Bureau Direct	01/2005	01/2008	3.600%	20,000	0		
1608	Bureau Direct	06/2005	06/2008	3.950%	30,000	0		
1609	Bureau Direct	09/2005	09/2008	4.250%	25,000	0		
1610	Bureau Direct	03/2006	03/2009	5.050%	25,000	0		
1611	Bureau Direct	07/2006	07/2009	5.350%	45,000	0		
1612	Bureau Direct	09/2006	09/2009	4.950%	15,000	0		
1613	Bureau Direct	01/2007	01/2010	5.100%	35,000	0		
1614	Bureau Direct	03/2007	03/2010	4.800%	30,000	0		
1615	Bureau Direct	06/2007	06/2010	5.350%	30,000	0		
1616	Bureau Direct	01/2008	01/2011	2.850%	35,000	0		
1617	Bureau Direct	01/2008	01/2011	2.850%	20,000	0		
1618	Bureau Direct	05/2008	05/2011	3.358%	35,000	0		
1619	Bureau Direct	05/2008	05/2011	3.358%	25,000	0		
1620	Bureau Direct	06/2008	06/2012	3.974%	30,000	0		
1621	Bureau Direct	07/2008	07/2012	3.913%	35,000	0		
1622	Bureau Direct	09/2008	09/2012	3.444%	35,000	0		
1623	Bureau Direct	01/2009	01/2021	3.999%	25,000	0		
1624	Bureau Direct	04/2009	04/2023	4.391%	25,000	25,000	04/2033	1.723%
1625	Bureau Direct	06/2009	06/2039	5.192%	25,000	25,000		
1626	Bureau Direct	09/2009	09/2019	3.699%	25,000	0		
1627	Bureau Direct	10/2009	10/2018	3.719%	24,000	0		
1628	Bureau Direct	10/2009	10/2019	3.842%	20,000	0		
1629	Bureau Direct	11/2009	11/2019	3.637%	7,000	0		
1630	Bureau Direct	12/2009	12/2019	4.194%	13,000	0		
1631	Bureau Direct	01/2010	01/2019	3.714%	10,000	0		
1632	Bureau Direct	02/2010	02/2019	0.165%	10,000	0		
1633	Bureau Direct	03/2010	03/2020	4.083%	30,000	0		
1634	Bureau Direct	04/2010	04/2020	3.973%	18,000	0		
1635	Bureau Direct	05/2010	05/2020	3.574%	15,000	0		
1636	Bureau Direct	06/2010	06/2020	3.243%	10,000	0		
1637	Bureau Direct	06/2010	06/2020	3.243%	30,000	0		
1638	Bureau Direct	07/2010	07/2020	3.118%	17,000	0		
1639	Bureau Direct	08/2010	08/2020	0.165%	5,000	0		
1640	Bureau Direct	09/2010	09/2021	2.883%	22,000	22,000		
1641	Bureau Direct	10/2010	10/2034	4.211%	20,000	20,000		
1642	Bureau Direct	01/2011	09/2011	0.244%	20,000	0		
1643	Bureau Direct	01/2011	09/2011	0.244%	35,000	0		
1644	Bureau Direct	01/2011	01/2039	5.040%	35,000	35,000		
1645	Bureau Direct	02/2011	02/2040	4.995%	50,000	50,000		
1646	Bureau Direct	05/2011	09/2011	0.076%	35,000	0		
1647	Bureau Direct	05/2011	09/2011	0.076%	25,000	0		

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

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
1648	Bureau Direct	06/2011	06/2036	4.629%	30,000	30,000	
1649	Bureau Direct	06/2011	06/2038	4.700%	30,000	30,000	
1650	Bureau Direct	08/2011	08/2037	4.208%	30,000	30,000	
1651	Bureau Direct	09/2011	07/2041	3.825%	30,000	0	
1652	Bureau Direct	12/2011	12/2038	3.880%	35,000	0	
1653	Bureau Direct	01/2012	01/2038	3.893%	15,000	0	
1654	Bureau Direct	02/2012	02/2034	0.148%	55,000	55,000	
1655	Bureau Direct	06/2012	06/2041	3.666%	50,000	0	
1656	Bureau Direct	06/2012	09/2012	0.119%	30,000	0	
1657	Bureau Direct	08/2012	07/2042	3.834%	44,000	0	
1658	Bureau Direct	09/2012	09/2013	0.174%	35,000	0	
1659	Bureau Direct	09/2012	09/2042	3.668%	25,000	0	
1660	Bureau Direct	01/2013	01/2043	6.194%	70,000	0	
1661	Bureau Direct	02/2013	02/2043	5.993%	18,000	0	
1662	Bureau Direct	03/2013	03/2043	5.958%	15,000	0	
1663	Bureau Direct	04/2013	04/2043	5.633%	15,000	0	
1664	Bureau Direct	05/2013	05/2043	6.192%	18,000	0	
1665	Bureau Direct	06/2013	01/2039	1.580%	35,000	0	
1666	Bureau Direct	06/2013	06/2043	6.938%	21,000	0	
1667	Bureau Direct	07/2013	07/2034	7.164%	25,000	0	
1668	Bureau Direct	08/2013	08/2034	7.413%	15,000	0	
1669	Bureau Direct	11/2013	09/2014	0.140%	77,000	0	
1670	Bureau Direct	11/2013	09/2020	2.473%	51,000	0	
1671	Bureau Direct	11/2013	09/2021	2.812%	50,000	50,000	
1672	Bureau Direct	11/2013	09/2022	3.125%	19,000	19,000	
1673	Bureau Direct	01/2014	12/2018	1.943%	43,000	0	
1674	Bureau Direct	01/2014	12/2018	1.943%	38,000	0	
1675	Bureau Direct	01/2014	12/2018	1.943%	21,000	0	
1676	Bureau Direct	01/2014	12/2018	1.943%	26,000	0	
1677	Bureau Direct	01/2014	12/2018	1.943%	14,000	0	
1678	Bureau Direct	09/2014	05/2032	1.669%	16,000	0	
1679	Bureau Direct	09/2014	05/2032	1.669%	10,000	0	
1680	Bureau Direct	09/2014	06/2033	1.630%	11,000	0	
1681	Bureau Direct	09/2014	06/2033	1.630%	12,000	0	
1682	Bureau Direct	09/2014	07/2033	1.580%	15,000	0	
1683	Bureau Direct	09/2015	09/2033	3.134%	10,000	10,000	
1684	Bureau Direct	04/2016	04/2031	2.661%	17,000	17,000	
1685	Bureau Direct	07/2016	07/2030	2.145%	12,000	12,000	
1686	Bureau Direct	08/2018	01/2048	1.580%	13,000	0	
1687	Bureau Direct	08/2018	02/2048	0.148%	5,000	5,000	
1688	Bureau Direct	08/2018	03/2048	1.896%	26,000	0	
1689	Bureau Direct	08/2018	06/2048	1.630%	16,000	0	
1690	Bureau Direct	09/2018	02/2048	0.148%	29,000	29,000	
1691	Bureau Direct	10/2018	09/2019	2.653%	24,000	0	
1692	Bureau Direct	12/2018	09/2019	2.568%	13,000	0	
1693	Bureau Direct	12/2018	09/2019	2.568%	14,000	0	
1694	Bureau Direct	12/2018	09/2019	2.568%	21,000	0	
1695	Bureau Direct	12/2018	09/2019	2.568%	38,000	0	
1696	Bureau Direct	12/2018	09/2029	3.100%	13,000	13,000	
1697	Bureau Direct	12/2018	09/2029	3.100%	43,000	43,000	
1698	Bureau Direct	01/2019	09/2019	2.521%	10,000	0	
1699	Bureau Direct	08/2019	08/2021	0.119%	20,000	20,000	
1700	Bureau Direct	10/2019	09/2021	0.112%	20,000	20,000	09/2030 1.208%
1701	Bureau Direct	11/2019	09/2020	0.302%	7,000	0	
1702	Bureau Direct	12/2019	09/2020	0.302%	13,000	0	
1703	Bureau Direct	03/2020	09/2020	0.326%	30,000	0	
1704	Bureau Direct	03/2020	06/2046	2.083%	26,000	26,000	
1705	Bureau Direct	04/2020	09/2020	0.240%	18,000	0	
1706	Bureau Direct	04/2020	04/2045	1.760%	30,000	30,000	
1707	Bureau Direct	05/2020	09/2020	0.179%	15,000	0	
1708	Bureau Direct	05/2020	05/2032	1.188%	16,000	16,000	

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

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
1709	Bureau Direct	05/2020	05/2032	1.188%	10,000	10,000	
1710	Bureau Direct	05/2020	05/2043	1.869%	24,000	24,000	
1711	Bureau Direct	06/2020	09/2020	0.148%	30,000	0	
1712	Bureau Direct	06/2020	06/2033	1.238%	11,000	11,000	
1713	Bureau Direct	06/2020	06/2033	1.238%	12,000	12,000	
1714	Bureau Direct	06/2020	06/2049	1.812%	10,000	10,000	
1715	Bureau Direct	06/2020	06/2049	1.812%	16,000	16,000	
1716	Bureau Direct	07/2020	07/2033	1.157%	15,000	15,000	
1717	Bureau Direct	07/2020	01/2041	1.457%	35,000	35,000	
1718	Bureau Direct	07/2020	01/2046	1.640%	13,000	13,000	
1719	Bureau Direct	07/2020	07/2049	1.680%	17,000	17,000	
1720	Bureau Direct	09/2020	09/2021	0.112%	51,000	51,000	
1721	Bureau Direct	09/2020	09/2021	0.112%	30,000	30,000	
1722	Bureau Direct	09/2020	09/2021	0.112%	5,000	5,000	
1723	Conservation	09/1983	09/2003	12.200%	140,000	0	
1724	Conservation	09/1984	09/2004	13.050%	150,000	0	
1725	Conservation	09/1985	09/1990	10.150%	50,000	0	
1726	Conservation	03/1986	03/1991	7.800%	50,000	0	
1727	Conservation	03/1986	03/1996	8.150%	50,000	0	
1728	Conservation	04/1987	04/2007	9.300%	75,000	0	
1729	Conservation	06/1987	06/1992	8.350%	50,000	0	
1730	Conservation	04/1988	04/2008	9.900%	90,000	0	
1731	Conservation	07/1989	07/2009	8.550%	40,000	0	
1732	Conservation	09/1989	09/1995	8.600%	66,000	0	
1733	Conservation	09/1989	09/2002	8.650%	66,000	0	
1734	Conservation	07/1992	07/1997	5.800%	80,200	0	
1735	Conservation	07/1992	07/2007	7.140%	100,000	0	
1736	Conservation	10/1992	10/2012	8.050%	50,000	0	
1737	Conservation	02/1993	02/2013	7.400%	50,000	0	
1738	Conservation	08/1993	08/2013	6.750%	40,000	0	
1739	Conservation	01/1994	01/2014	6.750%	50,000	0	
1740	Conservation	05/1994	05/1998	7.100%	50,000	0	
1741	Conservation	05/1995	05/2015	7.500%	85,000	0	
1742	Conservation	01/1996	01/2011	6.700%	30,000	0	
1743	Conservation	11/1996	11/2016	7.200%	40,000	0	
1744	Conservation	05/1998	05/2009	6.000%	37,700	0	
1745	Conservation	09/1998	09/2008	5.300%	104,300	0	
1746	Conservation	09/1998	09/2013	5.600%	52,800	0	
1747	Conservation	07/2000	07/2003	6.950%	32,000	0	
1748	Conservation	06/2002	06/2005	3.750%	40,000	0	
1749	Conservation	01/2004	01/2008	2.950%	30,000	0	
1750	Conservation	03/2006	03/2009	5.050%	20,000	0	
1751	Conservation	06/2007	06/2010	5.350%	20,000	0	
1752	Conservation	09/2008	09/2013	3.701%	10,000	0	
1753	Conservation	09/2009	09/2014	2.746%	15,000	0	
1754	Conservation	01/2010	01/2015	2.609%	15,000	0	
1755	Conservation	04/2010	04/2015	2.677%	20,000	0	
1756	Conservation	08/2010	08/2015	1.619%	15,000	0	
1757	Conservation	09/2010	09/2015	1.534%	10,000	0	
1758	Conservation	01/2011	01/2023	4.046%	40,000	40,000	
1759	Conservation	04/2011	04/2023	3.932%	35,000	35,000	
1760	Conservation	08/2011	08/2023	3.206%	40,000	0	
1761	Conservation	10/2011	08/2012	0.204%	55,000	0	
1762	Conservation	12/2011	12/2037	0.189%	55,000	0	
1763	Conservation	05/2012	09/2015	0.676%	30,000	0	
1764	Conservation	06/2012	09/2015	0.671%	15,000	0	
1765	Conservation	08/2012	08/2024	2.788%	15,000	0	
1766	Conservation	11/2012	11/2016	0.630%	20,000	0	
1767	Conservation	01/2013	01/2018	1.107%	9,000	0	
1768	Conservation	03/2013	03/2025	4.992%	10,000	0	
1769	Conservation	04/2013	04/2025	4.553%	12,000	0	

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

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
1770	Conservation	08/2013	08/2025	6.973%	5,000	0	
1771	Conservation	10/2013	10/2025	3.568%	34,000	1,000	
1772	Conservation	11/2013	09/2023	3.375%	27,000	27,000	
1773	Conservation	12/2013	12/2021	3.142%	6,000	6,000	
1774	Conservation	12/2013	12/2023	0.191%	55,000	55,000	
1775	Conservation	01/2014	01/2026	3.621%	5,000	5,000	
1776	Conservation	04/2014	06/2025	0.191%	30,000	30,000	
1777	Conservation	05/2014	04/2024	0.230%	15,000	15,000	
1778	Conservation	05/2014	04/2025	0.230%	3,000	3,000	
1779	Conservation	06/2014	10/2024	0.230%	5,000	5,000	
1780	Conservation	07/2014	07/2025	0.176%	12,000	12,000	
1781	Conservation	08/2014	09/2025	0.128%	4,000	4,000	
1782	Conservation	10/2014	12/2024	0.191%	10,000	10,000	
1783	Conservation	11/2014	03/2027	1.896%	6,000	0	
1784	Conservation	12/2014	12/2023	2.403%	7,000	7,000	
1785	Conservation	01/2015	09/2015	0.204%	15,000	0	
1786	Conservation	01/2015	01/2024	1.908%	7,000	0	
1787	Conservation	02/2015	02/2024	2.251%	8,000	0	
1788	Conservation	03/2015	03/2025	2.295%	5,000	0	
1789	Conservation	04/2015	04/2024	2.269%	5,000	5,000	
1790	Conservation	05/2015	05/2021	1.898%	5,000	5,000	
1791	Conservation	07/2015	07/2021	2.067%	14,000	14,000	
1792	Conservation	08/2015	08/2022	2.233%	6,000	6,000	
1793	Conservation	09/2015	09/2022	2.062%	4,000	4,000	
1794	Conservation	10/2015	10/2027	0.230%	25,000	25,000	
1795	Conservation	11/2016	04/2017	0.684%	20,000	0	
1796	Conservation	04/2017	01/2018	1.051%	20,000	0	
1797	Conservation	01/2018	09/2022	2.513%	9,000	9,000	
1798	Conservation	01/2018	09/2022	2.513%	20,000	20,000	
1799	Conservation	03/2020	03/2027	0.964%	6,000	6,000	
1800	Construction (AS)	10/1992	10/2032	8.350%	38	0	
1801	Construction (AS)	07/1995	07/2025	7.700%	67	0	
1802	Construction (AS)	01/1996	01/2003	5.900%	5,622	0	
1803	Construction (AS)	01/1997	01/2004	6.800%	7,400	0	
1804	Construction (AS)	08/1998	08/2008	5.750%	3,181	0	
1805	Construction (AS)	02/1999	02/2014	5.900%	950	0	
1806	Construction (AS)	07/2000	07/2004	7.000%	10,948	0	
1807	Construction (AS)	01/2001	01/2010	6.050%	68	0	
1808	Construction (AS)	03/2002	03/2005	4.600%	1,990	0	
1809	Construction (AS)	10/2002	10/2005	3.000%	45,062	0	
1810	Construction (AS)	01/2004	01/2007	2.500%	13,357	0	
1811	Construction (AS)	11/2004	11/2008	3.750%	7,990	0	
1812	Construction (AS)	09/2006	09/2010	4.950%	9,681	0	
1813	Construction (AS)	01/2008	01/2012	3.200%	10,000	0	
1814	Construction (AS)	09/2008	09/2012	3.444%	10,000	0	
1815	Construction (AS)	09/2009	09/2014	2.746%	14,000	0	
1816	Construction (AS)	02/2010	02/2015	0.165%	7,500	0	
1817	Construction (AS)	08/2010	08/2015	1.619%	5,000	0	
1818	Construction (AS)	06/2011	06/2016	1.957%	7,000	0	
1819	Construction (AS)	08/2011	08/2016	1.423%	3,500	0	
1820	Construction (AS)	01/2012	09/2012	0.146%	10,000	0	
1821	Construction (AS)	06/2012	09/2015	0.671%	7,700	0	
1822	Construction (AS)	11/2012	11/2018	1.109%	5,250	0	
1823	Construction (AS)	04/2013	04/2017	0.622%	2,450	0	
1824	Construction (AS)	06/2013	06/2017	1.271%	3,000	0	
1825	Construction (AS)	08/2013	08/2017	1.494%	2,000	0	
1826	Construction (AS)	10/2013	10/2019	2.039%	4,200	0	
1827	Construction (AS)	10/2013	10/2019	2.039%	5,000	0	
1828	Construction (AS)	01/2014	01/2020	2.183%	1,750	0	
1829	Construction (AS)	01/2014	01/2020	2.183%	2,000	0	
1830	Construction (AS)	02/2014	09/2014	0.117%	950	0	

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

	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
1831	Construction (AS)	04/2014	03/2020	1.896%	1,400	0		
1832	Construction (AS)	04/2014	03/2020	1.896%	2,000	0		
1833	Construction (AS)	05/2014	04/2020	1.681%	700	0		
1834	Construction (AS)	07/2014	07/2020	1.580%	1,050	0		
1835	Construction (AS)	11/2014	11/2020	1.809%	2,100	0		
1836	Construction (AS)	12/2014	12/2020	1.922%	1,050	0		
1837	Construction (AS)	02/2015	02/2021	1.761%	1,750	0		
1838	Construction (AS)	05/2015	05/2021	1.898%	2,100	2,100		
1839	Construction (AS)	09/2015	09/2017	0.744%	7,700	0		
1840	Construction (AS)	10/2015	10/2021	1.942%	2,800	2,800		
1841	Construction (AS)	02/2016	02/2022	0.148%	3,000	3,000		
1842	Construction (AS)	06/2016	09/2016	0.436%	7,000	0		
1843	Construction (AS)	04/2017	01/2018	1.051%	2,450	0		
1844	Construction (AS)	06/2017	01/2018	1.179%	3,000	0		
1845	Construction (AS)	08/2017	01/2018	1.138%	2,000	0		
1846	Construction (AS)	09/2017	01/2018	1.181%	7,700	0		
1847	Construction (AS)	09/2018	12/2023	3.064%	4,200	4,200		
1848	Construction (AS)	08/2019	08/2021	0.119%	2,000	2,000		
1849	Construction (AS)	10/2019	09/2020	0.302%	4,200	0		
1850	Construction (AS)	10/2019	09/2020	0.302%	5,000	0		
1851	Construction (AS)	11/2019	02/2021	0.119%	4,000	0		
1852	Construction (AS)	01/2020	09/2020	0.302%	1,750	0		
1853	Construction (AS)	01/2020	09/2020	0.302%	2,000	0		
1854	Construction (AS)	03/2020	09/2020	0.326%	1,400	0		
1855	Construction (AS)	03/2020	09/2020	0.326%	2,000	0		
1856	Construction (AS)	04/2020	09/2020	0.240%	700	0		
1857	Corps	09/2015	09/2033	3.134%	4,000	4,000		
1858	Corps	02/2016	02/2045	0.148%	3,000	3,000		
1859	Corps	04/2016	04/2031	2.661%	53,000	53,000		
1860	Corps	05/2016	05/2030	2.599%	15,000	15,000		
1861	Corps	07/2016	07/2030	2.145%	25,000	25,000		
1862	Corps	08/2018	02/2048	0.148%	7,000	7,000		
1863	Corps	08/2018	03/2048	1.896%	24,000	0		
1864	Corps	08/2018	05/2048	1.669%	21,000	0		
1865	Corps	08/2018	06/2048	1.630%	24,000	0		
1866	Corps	08/2018	07/2048	1.580%	32,000	0		
1867	Corps	08/2018	10/2048	1.681%	27,000	0		
1868	Corps	08/2018	11/2048	1.669%	25,000	0		
1869	Corps	09/2018	01/2048	1.580%	2,000	0		
1870	Corps	09/2018	03/2048	1.896%	54,200	0		
1871	Corps	09/2018	07/2048	1.580%	64,000	0		
1872	Corps	09/2018	08/2048	0.148%	17,000	17,000		
1873	Corps	08/2019	08/2021	0.119%	21,000	21,000		
1874	Corps	11/2019	07/2021	0.138%	34,000	34,000		
1875	Corps	11/2019	09/2021	0.112%	40,000	40,000		
1876	Corps	03/2020	09/2047	2.103%	24,000	24,000		
1877	Corps	03/2020	09/2048	2.116%	54,200	54,200		
1878	Corps	04/2020	04/2028	0.945%	27,000	27,000		
1879	Corps	04/2020	04/2044	1.744%	40,000	40,000		
1880	Corps	04/2020	04/2050	1.827%	50,000	50,000		
1881	Corps	05/2020	05/2048	1.953%	21,000	21,000		
1882	Corps	05/2020	11/2048	1.957%	25,000	25,000		
1883	Corps	06/2020	06/2049	1.812%	24,000	24,000		
1884	Corps	07/2020	01/2046	1.640%	2,000	2,000		
1885	Corps	07/2020	07/2046	1.651%	32,000	32,000		
1886	Corps	07/2020	07/2047	1.667%	64,000	64,000		
1887	Fish and Wildlife	05/1989	05/1999	8.950%	25,000	0		
1888	Fish and Wildlife	05/1991	05/1996	7.950%	50,000	0		
1889	Fish and Wildlife	02/1993	02/2008	6.950%	20,000	0		
1890	Fish and Wildlife	09/1994	09/1999	7.650%	20,000	0		
1891	Fish and Wildlife	08/1995	08/2010	7.200%	35,000	0		

**TABLE 11A:
HISTORICAL INVESTMENTS
FY 2022
(\$000s)**

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
1892	Fish and Wildlife	01/1998	01/2013	6.100%	60,000	0	
1893	Fish and Wildlife	09/1999	09/2003	6.300%	20,000	0	
1894	Fish and Wildlife	01/2001	01/2005	5.650%	25,000	0	
1895	Fish and Wildlife	09/2003	09/2007	3.100%	20,000	0	
1896	Fish and Wildlife	09/2005	09/2008	4.250%	20,000	0	
1897	Fish and Wildlife	09/2006	09/2010	4.950%	20,000	0	
1898	Fish and Wildlife	06/2007	06/2010	5.350%	30,000	0	
1899	Fish and Wildlife	09/2007	09/2011	4.700%	20,000	0	
1900	Fish and Wildlife	09/2008	09/2012	3.444%	20,000	0	
1901	Fish and Wildlife	06/2009	06/2024	4.556%	20,000	20,000	
1902	Fish and Wildlife	12/2009	12/2018	4.069%	26,000	0	
1903	Fish and Wildlife	08/2010	08/2019	2.646%	20,000	0	
1904	Fish and Wildlife	01/2011	01/2026	4.440%	50,000	50,000	
1905	Fish and Wildlife	02/2011	02/2026	4.398%	15,000	15,000	
1906	Fish and Wildlife	06/2011	06/2026	4.205%	15,000	15,000	
1907	Fish and Wildlife	01/2012	01/2038	3.893%	30,000	0	
1908	Fish and Wildlife	05/2012	05/2029	0.140%	5,000	0	
1909	Fish and Wildlife	06/2012	06/2041	3.666%	11,000	0	
1910	Fish and Wildlife	08/2012	08/2027	3.090%	11,000	0	
1911	Fish and Wildlife	11/2012	11/2027	5.046%	25,000	0	
1912	Fish and Wildlife	01/2013	09/2013	0.149%	60,000	0	
1913	Fish and Wildlife	03/2013	03/2028	5.445%	10,000	0	
1914	Fish and Wildlife	04/2013	04/2028	5.042%	6,000	0	
1915	Fish and Wildlife	06/2013	06/2028	6.607%	8,000	0	
1916	Fish and Wildlife	08/2013	08/2028	7.249%	5,000	0	
1917	Fish and Wildlife	10/2013	12/2026	3.717%	28,000	28,000	
1918	Fish and Wildlife	10/2013	05/2027	3.762%	11,000	11,000	
1919	Fish and Wildlife	10/2013	10/2028	3.880%	22,000	22,000	
1920	Fish and Wildlife	11/2013	09/2022	3.125%	31,000	31,000	
1921	Fish and Wildlife	11/2013	09/2023	3.375%	23,000	23,000	09/2025
1922	Fish and Wildlife	11/2013	05/2027	0.205%	5,000	5,000	0.417%
1923	Fish and Wildlife	01/2014	01/2029	3.896%	7,000	7,000	
1924	Fish and Wildlife	04/2014	02/2029	0.148%	7,000	7,000	
1925	Fish and Wildlife	05/2014	04/2027	0.230%	11,000	11,000	
1926	Fish and Wildlife	08/2014	07/2029	0.176%	5,000	5,000	
1927	Fish and Wildlife	10/2014	01/2029	0.176%	15,000	15,000	
1928	Fish and Wildlife	11/2014	03/2030	1.896%	8,000	0	
1929	Fish and Wildlife	01/2015	01/2024	1.908%	5,000	0	
1930	Fish and Wildlife	03/2015	03/2028	2.511%	3,000	3,000	
1931	Fish and Wildlife	10/2015	02/2031	0.148%	4,000	4,000	
1932	Fish and Wildlife	10/2015	03/2031	0.128%	5,000	5,000	
1933	Fish and Wildlife	02/2016	02/2031	0.148%	4,000	4,000	
1934	Fish and Wildlife	09/2018	02/2048	2.476%	18,000	0	
1935	Fish and Wildlife	12/2018	09/2019	2.568%	26,000	0	
1936	Fish and Wildlife	08/2019	02/2021	0.119%	18,000	0	
1937	Fish and Wildlife	08/2019	08/2021	0.119%	4,000	4,000	
1938	Fish and Wildlife	11/2019	04/2021	0.138%	20,000	20,000	
1939	Fish and Wildlife	11/2019	08/2021	0.119%	27,000	27,000	
1940	Fish and Wildlife	03/2020	03/2030	1.274%	8,000	8,000	
1941	Technology (G)	01/2015	01/2021	1.469%	35,000	0	
1942	Technology (G)	10/2015	07/2022	0.176%	6,000	6,000	
1943	Technology (G)	08/2019	08/2021	0.119%	3,000	3,000	
1944	Totals:				14,219,491	3,388,738	

**TABLE 11B:
PROJECTED INVESTMENTS
FY 2022
(\$000s)**

	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	05/2022	09/2022	0.160%	49,784		
2	Columbia River Fish Mitigation	09/2021	09/2071	1.375%	10,731		
3	Columbia River Fish Mitigation	09/2022	09/2072	2.420%	8,210		
4	Construction (AS)	08/2021	09/2022	0.330%	2,000		
5	Construction (AS)	05/2022	09/2022	0.160%	7,152		
6	Corps	06/2021	09/2022	0.330%	82,000		
7	Corps	07/2021	09/2022	0.330%	82,000		
8	Corps	08/2021	09/2022	0.330%	82,000		
9	Corps	04/2022	09/2022	0.160%	61,720		
10	Corps	05/2022	09/2023	0.200%	61,720		
11	Corps	06/2022	09/2023	0.200%	61,720		
12	Fish and Wildlife	08/2021	09/2022	0.330%	20,000		
13	Fish and Wildlife	05/2022	09/2023	0.200%	43,000		
14	Totals:				572,036		

**TABLE 11C:
INTEREST CALCULATION SUMMARY
FY 2022
(\$000s)**

	A	B	D	E	F	G	H	I	J
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
1	2021	Albeni Falls	Historical	99	4.322%	4	-	-	4
2	2021	Boise	Historical	121	3.026%	4	-	-	4
3	2021	Bonneville Dam	Historical	16,237	3.854%	626	-	-	626
4	2021	Chief Joseph	Historical	24,769	4.373%	1,083	-	-	1,083
5	2021	Columbia Basin	Historical	14,332	3.168%	454	-	-	454
6	2021	Columbia River Fish Mitigation	Historical	1,046,689	3.507%	36,709	-	-	36,709
7	2021	Cougar	Historical	4,971	2.953%	147	-	-	147
8	2021	Detroit Lake/Big Cliff	Historical	578	2.913%	17	-	-	17
9	2021	Dworshak	Historical	2,409	4.352%	105	-	-	105
10	2021	Green Peter/Foster	Historical	648	3.663%	24	-	-	24
11	2021	Hills Creek	Historical	154	3.404%	5	-	-	5
12	2021	Hungry Horse Dam	Historical	1,336	4.070%	54	-	-	54
13	2021	Ice Harbor	Historical	8,118	3.663%	297	-	-	297
14	2021	John Day	Historical	8,728	3.673%	321	-	-	321
15	2021	Libby	Historical	494	3.193%	16	-	-	16
16	2021	Little Goose	Historical	11,478	2.904%	333	-	-	333
17	2021	Lookout Dam	Historical	311	3.396%	11	-	-	11
18	2021	Lost Creek	Historical	7	3.748%	-	-	-	-
19	2021	Lower Granite	Historical	31,775	2.858%	908	-	-	908
20	2021	Lower Monument	Historical	5,235	3.827%	200	-	-	200
21	2021	Lower Snake Fish and Wildlife	Historical	5,428	3.427%	186	-	-	186
22	2021	McNary	Historical	7,132	3.981%	284	-	-	284
23	2021	Minidoka/Palispades	Historical	19,722	3.238%	639	-	-	639
24	2021	RRP - Green Springs	Historical	83	2.360%	2	-	-	2
25	2021	The Dalles	Historical	2,519	4.243%	107	-	-	107
26	2021	Yakima Chandler/Kennewick	Historical	65	3.135%	2	-	-	2
27	2021	Bureau Direct	Historical	881,000	2.366%	20,847	-	133	20,980
28	2021	Conservation	Historical	349,000	1.805%	6,298	-	(80)	6,218
29	2021	Construction (AS)	Historical	14,100	1.629%	230	-	(14)	216
30	2021	Construction (AS)	New	2,000	-	-	-	1	1
31	2021	Corps	Historical	582,200	1.563%	9,098	-	(10)	9,089
32	2021	Corps	New	246,000	-	-	-	135	135
33	2021	Fish and Wildlife	Historical	340,000	2.672%	9,084	-	(12)	9,072
34	2021	Fish and Wildlife	New	20,000	-	-	-	6	6
35	2021	Technology (G)	Historical	9,000	0.157%	14	-	(0)	14
36	2021	Float	Historical	-	-	(255)	-	-	(255)
37	FY 2021	Subtotal:		3,656,738		87,854	-	159	88,013
38	2022	Albeni Falls	Historical	99	4.322%	4	-	-	4
39	2022	Boise	Historical	121	3.026%	4	-	-	4
40	2022	Bonneville Dam	Historical	16,237	3.854%	626	-	-	626
41	2022	Chief Joseph	Historical	24,769	4.373%	1,083	-	-	1,083
42	2022	Columbia Basin	Historical	14,332	3.168%	454	-	-	454
43	2022	Columbia River Fish Mitigation	Historical	962,420	3.385%	32,582	-	-	32,582
44	2022	Cougar	Historical	4,971	2.953%	147	-	-	147
45	2022	Detroit Lake/Big Cliff	Historical	578	2.913%	17	-	-	17
46	2022	Dworshak	Historical	2,409	4.351%	105	-	-	105
47	2022	Green Peter/Foster	Historical	648	3.663%	24	-	-	24
48	2022	Hills Creek	Historical	154	3.404%	5	-	-	5
49	2022	Hungry Horse Dam	Historical	1,336	4.070%	54	-	-	54
50	2022	Ice Harbor	Historical	8,118	3.663%	297	-	-	297
51	2022	John Day	Historical	8,728	3.673%	321	-	-	321
52	2022	Libby	Historical	494	3.192%	16	-	-	16
53	2022	Little Goose	Historical	11,478	2.904%	333	-	-	333
54	2022	Lookout Dam	Historical	311	3.396%	11	-	-	11
55	2022	Lost Creek	Historical	7	3.748%	-	-	-	-
56	2022	Lower Granite	Historical	31,775	2.858%	908	-	-	908
57	2022	Lower Monument	Historical	5,235	3.827%	200	-	-	200
58	2022	Lower Snake Fish and Wildlife	Historical	5,428	3.427%	186	-	-	186
59	2022	McNary	Historical	7,132	3.981%	284	-	-	284
60	2022	Minidoka/Palispades	Historical	19,722	3.238%	639	-	-	639
61	2022	RRP - Green Springs	Historical	83	2.360%	2	-	-	2
62	2022	The Dalles	Historical	2,519	4.243%	107	-	-	107
63	2022	Yakima Chandler/Kennewick	Historical	65	3.135%	2	-	-	2
64	2022	Bureau Direct	Historical	703,000	2.709%	19,041	-	(20)	19,021
65	2022	Bureau Direct	New	49,784	0.053%	27	-	-	27
66	2022	Conservation	Historical	330,000	1.763%	5,819	-	(58)	5,761
67	2022	Construction (AS)	Historical	12,000	1.377%	165	-	(23)	142
68	2022	Construction (AS)	New	7,152	0.053%	4	-	-	4
69	2022	Corps	Historical	733,200	1.354%	9,928	-	(135)	9,793
70	2022	Corps	New	185,159	0.022%	41	-	72	113
71	2022	Fish and Wildlife	Historical	309,000	2.943%	9,094	-	(6)	9,088
72	2022	Fish and Wildlife	New	43,000	-	-	-	29	29

**TABLE 11C:
INTEREST CALCULATION SUMMARY
FY 2022
(\$000s)**

	A	B	D	E	F	G	H	I	J
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
73	2022	Technology (G)	Historical	6,000	0.176%	11	-	(2)	9
74	2022	Float	Historical	-	-	(149)	-	-	(149)
75	FY 2022	Subtotal:		3,507,463		82,391	-	(143)	82,248
76	2023	Albeni Falls	Historical	99	4.322%	4	-	-	4
77	2023	Boise	Historical	121	3.026%	4	-	-	4
78	2023	Bonneville Dam	Historical	16,237	3.854%	626	-	-	626
79	2023	Chief Joseph	Historical	24,769	4.373%	1,083	-	-	1,083
80	2023	Columbia Basin	Historical	14,332	3.168%	454	-	-	454
81	2023	Columbia River Fish Mitigation	Historical	970,630	3.377%	32,780	-	-	32,780
82	2023	Cougar	Historical	4,971	2.953%	147	-	-	147
83	2023	Detroit Lake/Big Cliff	Historical	578	2.913%	17	-	-	17
84	2023	Dworshak	Historical	2,409	4.351%	105	-	-	105
85	2023	Green Peter/Foster	Historical	648	3.663%	24	-	-	24
86	2023	Hills Creek	Historical	154	3.404%	5	-	-	5
87	2023	Hungry Horse Dam	Historical	1,336	4.070%	54	-	-	54
88	2023	Ice Harbor	Historical	8,118	3.663%	297	-	-	297
89	2023	John Day	Historical	8,728	3.673%	321	-	-	321
90	2023	Libby	Historical	494	3.192%	16	-	-	16
91	2023	Little Goose	Historical	11,478	2.904%	333	-	-	333
92	2023	Lookout Dam	Historical	311	3.396%	11	-	-	11
93	2023	Lost Creek	Historical	7	3.748%	-	-	-	-
94	2023	Lower Granite	Historical	31,775	2.858%	908	-	-	908
95	2023	Lower Monument	Historical	5,235	3.827%	200	-	-	200
96	2023	Lower Snake Fish and Wildlife	Historical	5,428	3.427%	186	-	-	186
97	2023	McNary	Historical	7,132	3.981%	284	-	-	284
98	2023	Minidoka/Palisades	Historical	19,722	3.238%	639	-	-	639
99	2023	RRP - Green Springs	Historical	83	2.360%	2	-	-	2
100	2023	The Dalles	Historical	2,519	4.243%	107	-	-	107
101	2023	Yakima Chandler/Kennewick	Historical	65	3.135%	2	-	-	2
102	2023	Bureau Direct	Historical	682,455	2.474%	16,887	-	(869)	16,018
103	2023	Conservation	Historical	285,000	1.393%	3,971	-	(838)	3,133
104	2023	Construction (AS)	Historical	4,200	3.064%	129	-	-	129
105	2023	Corps	Historical	610,640	1.523%	9,301	-	(72)	9,228
106	2023	Fish and Wildlife	Historical	301,000	2.714%	8,168	-	(29)	8,139
107	2023	Replacements	New	232,590	1.280%	2,977	-	-	2,977
108	2023	Float	Historical	-	-	(106)	-	-	(106)
109	FY 2023	Subtotal:		3,253,263		79,936	-	(1,808)	78,128
110	2024	Albeni Falls	Historical	99	4.322%	4	-	-	4
111	2024	Boise	Historical	121	3.026%	4	-	-	4
112	2024	Bonneville Dam	Historical	16,237	3.854%	626	-	-	626
113	2024	Chief Joseph	Historical	24,769	4.373%	1,083	-	-	1,083
114	2024	Columbia Basin	Historical	14,332	3.168%	454	-	-	454
115	2024	Columbia River Fish Mitigation	Historical	970,630	3.377%	32,780	-	-	32,780
116	2024	Cougar	Historical	4,971	2.953%	147	-	-	147
117	2024	Detroit Lake/Big Cliff	Historical	578	2.913%	17	-	-	17
118	2024	Dworshak	Historical	2,409	4.351%	105	-	-	105
119	2024	Green Peter/Foster	Historical	648	3.663%	24	-	-	24
120	2024	Hills Creek	Historical	154	3.404%	5	-	-	5
121	2024	Hungry Horse Dam	Historical	1,336	4.070%	54	-	-	54
122	2024	Ice Harbor	Historical	8,118	3.663%	297	-	-	297
123	2024	John Day	Historical	8,728	3.673%	321	-	-	321
124	2024	Libby	Historical	494	3.192%	16	-	-	16
125	2024	Little Goose	Historical	11,478	2.904%	333	-	-	333
126	2024	Lookout Dam	Historical	311	3.396%	11	-	-	11
127	2024	Lost Creek	Historical	7	3.748%	-	-	-	-
128	2024	Lower Granite	Historical	31,775	2.858%	908	-	-	908
129	2024	Lower Monument	Historical	5,235	3.827%	200	-	-	200
130	2024	Lower Snake Fish and Wildlife	Historical	5,428	3.427%	186	-	-	186
131	2024	McNary	Historical	7,132	3.981%	284	-	-	284
132	2024	Minidoka/Palisades	Historical	19,722	3.238%	639	-	-	639
133	2024	RRP - Green Springs	Historical	83	2.360%	2	-	-	2
134	2024	The Dalles	Historical	2,519	4.243%	107	-	-	107
135	2024	Yakima Chandler/Kennewick	Historical	65	3.135%	2	-	-	2
136	2024	Bureau Direct	Historical	624,421	2.361%	14,740	-	-	14,740
137	2024	Conservation	Historical	183,000	0.403%	738	-	(130)	608
138	2024	Construction (AS)	Historical	4,200	1.532%	64	-	(32)	32
139	2024	Corps	Historical	487,200	1.844%	8,982	-	-	8,982
140	2024	Fish and Wildlife	Historical	258,000	2.858%	7,373	-	(228)	7,145
141	2024	Replacements	Historical	232,590	2.560%	5,954	-	-	5,954
142	2024	Replacements	New	232,590	1.280%	2,977	-	-	2,977
143	2024	Float	Historical	-	-	(43)	-	-	(43)
144	FY 2024	Subtotal:		3,159,379		79,393	-	(390)	79,004

**TABLE 11C:
INTEREST CALCULATION SUMMARY
FY 2022
(\$000s)**

	A	B	D	E	F	G	H	I	J
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
145	2025	Albeni Falls	Historical	99	4.322%	4	-	-	4
146	2025	Boise	Historical	121	3.026%	4	-	-	4
147	2025	Bonneville Dam	Historical	16,237	3.854%	626	-	-	626
148	2025	Chief Joseph	Historical	24,769	4.373%	1,083	-	-	1,083
149	2025	Columbia Basin	Historical	14,332	3.168%	454	-	-	454
150	2025	Columbia River Fish Mitigation	Historical	970,630	3.377%	32,780	-	-	32,780
151	2025	Cougar	Historical	4,971	2.953%	147	-	-	147
152	2025	Detroit Lake/Big Cliff	Historical	578	2.913%	17	-	-	17
153	2025	Dworshak	Historical	2,409	4.351%	105	-	-	105
154	2025	Green Peter/Foster	Historical	648	3.663%	24	-	-	24
155	2025	Hills Creek	Historical	154	3.404%	5	-	-	5
156	2025	Hungry Horse Dam	Historical	1,336	4.070%	54	-	-	54
157	2025	Ice Harbor	Historical	8,118	3.663%	297	-	-	297
158	2025	John Day	Historical	8,728	3.673%	321	-	-	321
159	2025	Libby	Historical	494	3.192%	16	-	-	16
160	2025	Little Goose	Historical	11,478	2.904%	333	-	-	333
161	2025	Lookout Dam	Historical	311	3.396%	11	-	-	11
162	2025	Lost Creek	Historical	7	3.748%	-	-	-	-
163	2025	Lower Granite	Historical	31,775	2.858%	908	-	-	908
164	2025	Lower Monument	Historical	5,235	3.827%	200	-	-	200
165	2025	Lower Snake Fish and Wildlife	Historical	5,428	3.427%	186	-	-	186
166	2025	McNary	Historical	7,132	3.981%	284	-	-	284
167	2025	Minidoka/Palisades	Historical	19,722	3.238%	639	-	-	639
168	2025	RRP - Green Springs	Historical	83	2.360%	2	-	-	2
169	2025	The Dalles	Historical	2,519	4.243%	107	-	-	107
170	2025	Yakima Chandler/Kennewick	Historical	65	3.135%	2	-	-	2
171	2025	Bureau Direct	Historical	624,421	2.332%	14,560	-	(32)	14,528
172	2025	Conservation	Historical	101,000	0.433%	438	-	(30)	408
173	2025	Corps	Historical	487,200	1.844%	8,982	-	-	8,982
174	2025	Fish and Wildlife	Historical	238,000	2.715%	6,462	-	-	6,462
175	2025	Replacements	Historical	465,180	2.560%	11,909	-	-	11,909
176	2025	Replacements	New	232,590	1.280%	2,977	-	-	2,977
177	2025	Float	Historical	-	-	(43)	-	-	(43)
178	FY 2025	Subtotal:		3,285,769		83,893	-	(62)	83,831
179	2026	Albeni Falls	Historical	99	4.322%	4	-	-	4
180	2026	Boise	Historical	121	3.026%	4	-	-	4
181	2026	Bonneville Dam	Historical	16,237	3.854%	626	-	-	626
182	2026	Chief Joseph	Historical	24,769	4.373%	1,083	-	-	1,083
183	2026	Columbia Basin	Historical	14,332	3.168%	454	-	-	454
184	2026	Columbia River Fish Mitigation	Historical	970,630	3.377%	32,780	-	-	32,780
185	2026	Cougar	Historical	4,971	2.953%	147	-	-	147
186	2026	Detroit Lake/Big Cliff	Historical	578	2.913%	17	-	-	17
187	2026	Dworshak	Historical	2,409	4.351%	105	-	-	105
188	2026	Green Peter/Foster	Historical	648	3.663%	24	-	-	24
189	2026	Hills Creek	Historical	154	3.404%	5	-	-	5
190	2026	Hungry Horse Dam	Historical	1,336	4.070%	54	-	-	54
191	2026	Ice Harbor	Historical	8,118	3.663%	297	-	-	297
192	2026	John Day	Historical	8,728	3.673%	321	-	-	321
193	2026	Libby	Historical	494	3.192%	16	-	-	16
194	2026	Little Goose	Historical	11,478	2.904%	333	-	-	333
195	2026	Lookout Dam	Historical	311	3.396%	11	-	-	11
196	2026	Lost Creek	Historical	7	3.748%	-	-	-	-
197	2026	Lower Granite	Historical	31,775	2.858%	908	-	-	908
198	2026	Lower Monument	Historical	5,235	3.827%	200	-	-	200
199	2026	Lower Snake Fish and Wildlife	Historical	5,428	3.427%	186	-	-	186
200	2026	McNary	Historical	7,132	3.981%	284	-	-	284
201	2026	Minidoka/Palisades	Historical	19,722	3.238%	639	-	-	639
202	2026	RRP - Green Springs	Historical	83	2.360%	2	-	-	2
203	2026	The Dalles	Historical	2,519	4.243%	107	-	-	107
204	2026	Yakima Chandler/Kennewick	Historical	65	3.135%	2	-	-	2
205	2026	Bureau Direct	Historical	617,234	2.284%	14,096	-	(48)	14,047
206	2026	Conservation	Historical	37,000	0.605%	224	-	(45)	179
207	2026	Corps	Historical	487,200	1.844%	8,982	-	-	8,982
208	2026	Fish and Wildlife	Historical	215,000	2.291%	4,926	-	(580)	4,346
209	2026	Replacements	Historical	697,770	2.560%	17,863	-	-	17,863
210	2026	Replacements	New	232,590	1.280%	2,977	-	-	2,977
211	2026	Float	Historical	-	-	(46)	-	-	(46)
212	FY 2026	Subtotal:		3,424,173		87,630	-	(673)	86,957
213	2027	Albeni Falls	Historical	99	4.322%	4	-	-	4
214	2027	Boise	Historical	121	3.026%	4	-	-	4
215	2027	Bonneville Dam	Historical	16,237	3.854%	626	-	-	626
216	2027	Chief Joseph	Historical	24,769	4.373%	1,083	-	-	1,083

**TABLE 11C:
INTEREST CALCULATION SUMMARY
FY 2022
(\$000s)**

	A	B	D	E	F	G	H	I	J
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
217	2027	Columbia Basin	Historical	14,332	3.168%	454	-	-	454
218	2027	Columbia River Fish Mitigation	Historical	970,630	3.377%	32,780	-	-	32,780
219	2027	Cougar	Historical	4,971	2.953%	147	-	-	147
220	2027	Detroit Lake/Big Cliff	Historical	578	2.913%	17	-	-	17
221	2027	Dworshak	Historical	2,409	4.351%	105	-	-	105
222	2027	Green Peter/Foster	Historical	648	3.663%	24	-	-	24
223	2027	Hills Creek	Historical	154	3.404%	5	-	-	5
224	2027	Hungry Horse Dam	Historical	1,336	4.070%	54	-	-	54
225	2027	Ice Harbor	Historical	8,118	3.663%	297	-	-	297
226	2027	John Day	Historical	8,728	3.673%	321	-	-	321
227	2027	Libby	Historical	494	3.192%	16	-	-	16
228	2027	Little Goose	Historical	11,478	2.904%	333	-	-	333
229	2027	Lookout Dam	Historical	311	3.396%	11	-	-	11
230	2027	Lost Creek	Historical	7	3.748%	-	-	-	-
231	2027	Lower Granite	Historical	31,775	2.858%	908	-	-	908
232	2027	Lower Monument	Historical	5,235	3.827%	200	-	-	200
233	2027	Lower Snake Fish and Wildlife	Historical	5,428	3.427%	186	-	-	186
234	2027	McNary	Historical	7,132	3.981%	284	-	-	284
235	2027	Minidoka/Palisades	Historical	19,722	3.238%	639	-	-	639
236	2027	RRP - Green Springs	Historical	83	2.360%	2	-	-	2
237	2027	The Dalles	Historical	2,519	4.243%	107	-	-	107
238	2027	Yakima Chandler/Kenniwick	Historical	65	3.135%	2	-	-	2
239	2027	Bureau Direct	Historical	605,797	2.101%	12,725	-	(281)	12,444
240	2027	Conservation	Historical	31,000	0.279%	86	-	-	86
241	2027	Corps	Historical	487,200	1.844%	8,982	-	-	8,982
242	2027	Fish and Wildlife	Historical	135,000	1.731%	2,337	-	(413)	1,924
243	2027	Replacements	Historical	930,360	2.560%	23,817	-	-	23,817
244	2027	Replacements	New	232,590	1.280%	2,977	-	-	2,977
245	2027	Float	Historical	-	-	(47)	-	-	(47)
246	FY 2027	Subtotal:		3,559,325		89,487	-	(693)	88,793
247	2028	Albeni Falls	Historical	99	4.322%	4	-	-	4
248	2028	Boise	Historical	121	3.026%	4	-	-	4
249	2028	Bonneville Dam	Historical	16,237	3.854%	626	-	-	626
250	2028	Chief Joseph	Historical	24,769	4.373%	1,083	-	-	1,083
251	2028	Columbia Basin	Historical	14,332	3.168%	454	-	-	454
252	2028	Columbia River Fish Mitigation	Historical	970,630	3.377%	32,780	-	-	32,780
253	2028	Cougar	Historical	4,971	2.953%	147	-	-	147
254	2028	Detroit Lake/Big Cliff	Historical	578	2.913%	17	-	-	17
255	2028	Dworshak	Historical	2,409	4.351%	105	-	-	105
256	2028	Green Peter/Foster	Historical	648	3.663%	24	-	-	24
257	2028	Hills Creek	Historical	154	3.404%	5	-	-	5
258	2028	Hungry Horse Dam	Historical	1,336	4.070%	54	-	-	54
259	2028	Ice Harbor	Historical	8,118	3.663%	297	-	-	297
260	2028	John Day	Historical	8,728	3.673%	321	-	-	321
261	2028	Libby	Historical	494	3.192%	16	-	-	16
262	2028	Little Goose	Historical	11,478	2.904%	333	-	-	333
263	2028	Lookout Dam	Historical	311	3.396%	11	-	-	11
264	2028	Lost Creek	Historical	7	3.748%	-	-	-	-
265	2028	Lower Granite	Historical	31,775	2.858%	908	-	-	908
266	2028	Lower Monument	Historical	5,235	3.827%	200	-	-	200
267	2028	Lower Snake Fish and Wildlife	Historical	5,428	3.427%	186	-	-	186
268	2028	McNary	Historical	7,132	3.981%	284	-	-	284
269	2028	Minidoka/Palisades	Historical	19,722	3.238%	639	-	-	639
270	2028	RRP - Green Springs	Historical	83	2.360%	2	-	-	2
271	2028	The Dalles	Historical	2,519	4.243%	107	-	-	107
272	2028	Yakima Chandler/Kenniwick	Historical	65	3.135%	2	-	-	2
273	2028	Bureau Direct	Historical	561,546	1.876%	10,536	-	(553)	9,982
274	2028	Conservation	Historical	25,000	0.115%	29	-	(24)	5
275	2028	Corps	Historical	487,200	1.844%	8,982	-	(106)	8,876
276	2028	Fish and Wildlife	Historical	80,000	1.662%	1,330	-	-	1,330
277	2028	Replacements	Historical	1,162,950	2.560%	29,772	-	-	29,772
278	2028	Replacements	New	232,590	1.280%	2,977	-	-	2,977
279	2028	Float	Historical	-	-	(48)	-	-	(48)
280	FY 2028	Subtotal:		3,686,664		92,185	-	(683)	91,502
281	2029	Albeni Falls	Historical	99	4.322%	4	-	-	4
282	2029	Boise	Historical	121	3.026%	4	-	-	4
283	2029	Bonneville Dam	Historical	16,237	3.854%	626	-	-	626
284	2029	Chief Joseph	Historical	24,769	4.373%	1,083	-	-	1,083
285	2029	Columbia Basin	Historical	14,332	3.168%	454	-	-	454
286	2029	Columbia River Fish Mitigation	Historical	970,630	3.377%	32,780	-	-	32,780
287	2029	Cougar	Historical	4,971	2.953%	147	-	-	147
288	2029	Detroit Lake/Big Cliff	Historical	578	2.913%	17	-	-	17

**TABLE 11C:
INTEREST CALCULATION SUMMARY
FY 2022
(\$000s)**

	A	B	D	E	F	G	H	I	J
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
289	2029	Dworshak	Historical	2,409	4.351%	105	-	-	105
290	2029	Green Peter/Foster	Historical	648	3.663%	24	-	-	24
291	2029	Hills Creek	Historical	154	3.404%	5	-	-	5
292	2029	Hungry Horse Dam	Historical	1,336	4.070%	54	-	-	54
293	2029	Ice Harbor	Historical	8,118	3.663%	297	-	-	297
294	2029	John Day	Historical	8,728	3.673%	321	-	-	321
295	2029	Libby	Historical	494	3.192%	16	-	-	16
296	2029	Little Goose	Historical	11,478	2.904%	333	-	-	333
297	2029	Lookout Dam	Historical	311	3.396%	11	-	-	11
298	2029	Lost Creek	Historical	7	3.748%	-	-	-	-
299	2029	Lower Granite	Historical	31,775	2.858%	908	-	-	908
300	2029	Lower Monument	Historical	5,235	3.827%	200	-	-	200
301	2029	Lower Snake Fish and Wildlife	Historical	5,428	3.427%	186	-	-	186
302	2029	McNary	Historical	4,469	3.672%	164	-	-	164
303	2029	Minidoka/Palisades	Historical	19,722	3.238%	639	-	-	639
304	2029	RRP - Green Springs	Historical	83	2.360%	2	-	-	2
305	2029	The Dalles	Historical	489	3.174%	16	-	-	16
306	2029	Yakima Chandler/Kenniwick	Historical	65	3.135%	2	-	-	2
307	2029	Bureau Direct	Historical	514,000	1.712%	8,798	-	(456)	8,342
308	2029	Corps	Historical	460,200	1.896%	8,727	-	-	8,727
309	2029	Fish and Wildlife	Historical	77,000	0.923%	710	-	(406)	305
310	2029	Replacements	Historical	1,395,540	2.560%	35,726	-	-	35,726
311	2029	Replacements	New	232,590	1.280%	2,977	-	-	2,977
312	2029	Float	Historical	-	-	(128)	-	-	(128)
313	FY 2029	Subtotal:		3,812,015		95,208		(862)	94,345
314	2030	Boise	Historical	118	2.999%	4	-	-	4
315	2030	Bonneville Dam	Historical	12,068	3.688%	445	-	-	445
316	2030	Chief Joseph	Historical	42	3.281%	1	-	-	1
317	2030	Columbia Basin	Historical	12,117	2.956%	358	-	-	358
318	2030	Columbia River Fish Mitigation	Historical	758,115	3.102%	23,518	-	-	23,518
319	2030	Cougar	Historical	4,791	2.901%	139	-	-	139
320	2030	Detroit Lake/Big Cliff	Historical	560	2.883%	16	-	-	16
321	2030	Dworshak	Historical	29	2.122%	1	-	-	1
322	2030	Green Peter/Foster	Historical	263	3.354%	9	-	-	9
323	2030	Hills Creek	Historical	154	3.404%	5	-	-	5
324	2030	Hungry Horse Dam	Historical	496	3.750%	19	-	-	19
325	2030	Ice Harbor	Historical	5,296	3.289%	174	-	-	174
326	2030	John Day	Historical	6,224	3.386%	211	-	-	211
327	2030	Libby	Historical	454	3.099%	14	-	-	14
328	2030	Little Goose	Historical	8,277	2.335%	193	-	-	193
329	2030	Lookout Dam	Historical	311	3.396%	11	-	-	11
330	2030	Lost Creek	Historical	7	3.748%	-	-	-	-
331	2030	Lower Granite	Historical	22,306	2.280%	509	-	-	509
332	2030	Lower Monument	Historical	1,187	2.532%	30	-	-	30
333	2030	Lower Snake Fish and Wildlife	Historical	3,503	2.893%	101	-	-	101
334	2030	McNary	Historical	2,294	3.093%	71	-	-	71
335	2030	Minidoka/Palisades	Historical	19,722	3.238%	639	-	-	639
336	2030	RRP - Green Springs	Historical	83	2.360%	2	-	-	2
337	2030	The Dalles	Historical	489	3.174%	16	-	-	16
338	2030	Yakima Chandler/Kenniwick	Historical	49	2.751%	1	-	-	1
339	2030	Bureau Direct	Historical	408,000	1.371%	5,592	-	(42)	5,550
340	2030	Corps	Historical	460,200	1.896%	8,727	-	(219)	8,508
341	2030	Fish and Wildlife	Historical	21,000	0.329%	69	-	-	69
342	2030	Replacements	Historical	1,628,130	2.560%	41,680	-	-	41,680
343	2030	Replacements	New	232,590	1.280%	2,977	-	-	2,977
344	2030	Float	Historical	-	-	(105)	-	-	(105)
345	FY 2030	Subtotal:		3,608,877		85,426		(262)	85,164
346	2031	Boise	Historical	118	1.500%	2	-	-	2
347	2031	Bonneville Dam	Historical	1,105	3.076%	34	-	-	34
348	2031	Chief Joseph	Historical	10	2.876%	-	-	-	-
349	2031	Columbia Basin	Historical	10,383	2.824%	293	-	-	293
350	2031	Columbia River Fish Mitigation	Historical	498,891	2.775%	13,845	-	-	13,845
351	2031	Cougar	Historical	4,359	2.829%	123	-	-	123
352	2031	Detroit Lake/Big Cliff	Historical	560	2.878%	16	-	-	16
353	2031	Dworshak	Historical	29	2.122%	1	-	-	1
354	2031	Green Peter/Foster	Historical	148	3.017%	4	-	-	4
355	2031	Ice Harbor	Historical	4,363	3.200%	140	-	-	140
356	2031	Libby	Historical	287	2.739%	8	-	-	8
357	2031	Little Goose	Historical	8,277	2.335%	193	-	-	193
358	2031	Lower Granite	Historical	22,297	2.279%	508	-	-	508
359	2031	Lower Monument	Historical	1,098	2.463%	27	-	-	27
360	2031	Lower Snake Fish and Wildlife	Historical	3,160	2.791%	88	-	-	88

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INTEREST CALCULATION SUMMARY
FY 2022
(\$000s)**

	A	B	D	E	F	G	H	I	J
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
361	2031	McNary	Historical	1,717	2.875%	49	-	-	49
362	2031	Minidoka/Palisades	Historical	19,715	3.238%	638	-	-	638
363	2031	RRP - Green Springs	Historical	81	2.332%	2	-	-	2
364	2031	The Dalles	Historical	489	3.174%	16	-	-	16
365	2031	Yakima Chandler/Kenniwick	Historical	49	2.751%	1	-	-	1
366	2031	Bureau Direct	Historical	376,000	1.313%	4,936	-	(188)	4,749
367	2031	Corps	Historical	420,200	1.841%	7,738	-	(585)	7,153
368	2031	Fish and Wildlife	Historical	13,000	0.070%	9	-	(1)	8
369	2031	Replacements	Historical	1,860,720	2.560%	47,634	-	-	47,634
370	2031	Replacements	New	232,590	1.280%	2,977	-	-	2,977
371	2031	Float	Historical	-	-	(103)	-	-	(103)
372	FY 2031	Subtotal:		3,479,648		79,182	-	(774)	78,408
373	2032	Boise	Historical	-	-	-	-	-	-
374	2032	Bonneville Dam	Historical	268	2.875%	8	-	-	8
375	2032	Chief Joseph	Historical	10	2.876%	-	-	-	-
376	2032	Columbia Basin	Historical	3,084	2.291%	71	-	-	71
377	2032	Columbia River Fish Mitigation	Historical	284,176	2.157%	6,129	-	-	6,129
378	2032	Cougar	Historical	4,357	2.764%	120	-	-	120
379	2032	Dworshak	Historical	29	1.061%	-	-	-	-
380	2032	Green Peter/Foster	Historical	1	1.078%	-	-	-	-
381	2032	Libby	Historical	287	2.722%	8	-	-	8
382	2032	Little Goose	Historical	8,210	1.619%	133	-	-	133
383	2032	Lower Granite	Historical	18,822	1.063%	200	-	-	200
384	2032	Lower Monument	Historical	942	2.375%	22	-	-	22
385	2032	Lower Snake Fish and Wildlife	Historical	1,903	2.488%	47	-	-	47
386	2032	McNary	Historical	239	2.375%	6	-	-	6
387	2032	Minidoka/Palisades	Historical	272	2.576%	7	-	-	7
388	2032	RRP - Green Springs	Historical	64	1.062%	1	-	-	1
389	2032	The Dalles	Historical	25	2.600%	1	-	-	1
390	2032	Yakima Chandler/Kenniwick	Historical	49	2.751%	1	-	-	1
391	2032	Bureau Direct	Historical	349,000	1.240%	4,327	-	(103)	4,224
392	2032	Corps	Historical	354,337	1.591%	5,637	-	-	5,637
393	2032	Replacements	Historical	2,093,310	2.560%	53,589	-	-	53,589
394	2032	Replacements	New	232,590	1.280%	2,977	-	-	2,977
395	2032	Float	Historical	-	-	(107)	-	-	(107)
396	FY 2032	Subtotal:		3,351,977		73,177	-	(103)	73,073
397	2033	Columbia River Fish Mitigation	Historical	10,731	1.375%	148	-	-	148
398	2033	Bureau Direct	Historical	301,982	1.064%	3,213	-	(1,000)	2,213
399	2033	Corps	Historical	258,809	1.460%	3,780	-	(1,347)	2,432
400	2033	Replacements	Historical	2,325,900	2.560%	59,543	-	-	59,543
401	2033	Replacements	New	232,590	1.280%	2,977	-	-	2,977
402	2033	Float	Historical	-	-	(114)	-	-	(114)
403	FY 2033	Subtotal:		3,130,012		69,547	-	(2,347)	67,200
404	2034	Columbia River Fish Mitigation	Historical	10,731	1.375%	148	-	-	148
405	2034	Bureau Direct	Historical	105,219	0.257%	271	-	(79)	192
406	2034	Corps	Historical	19,716	0.101%	20	-	(3)	16
407	2034	Replacements	Historical	2,558,490	2.420%	61,906	-	-	61,906
408	2034	Replacements	New	232,590	1.280%	2,977	-	-	2,977
409	2034	Float	Historical	-	-	(112)	-	-	(112)
410	FY 2034	Subtotal:		2,926,746		65,210	-	(82)	65,128
411	2035	Corps	Historical	-	-	-	-	-	-
412	2035	Replacements	Historical	2,510,535	2.326%	58,403	-	-	58,403
413	2035	Replacements	New	232,590	1.280%	2,977	-	-	2,977
414	2035	Float	Historical	-	-	(124)	-	-	(124)
415	FY 2035	Subtotal:		2,743,125		61,257	-	-	61,257
416	2036	Replacements	Historical	2,284,827	2.301%	52,575	-	-	52,575
417	2036	Replacements	New	232,590	1.280%	2,977	-	-	2,977
418	2036	Float	Historical	-	-	(129)	-	-	(129)
419	FY 2036	Subtotal:		2,517,417		55,423	-	-	55,423
420	2037	Replacements	Historical	2,055,164	2.251%	46,268	-	-	46,268
421	2037	Replacements	New	232,590	1.280%	2,977	-	-	2,977
422	2037	Float	Historical	-	-	(133)	-	-	(133)
423	FY 2037	Subtotal:		2,287,754		49,112	-	-	49,112
424	2038	Replacements	Historical	1,792,115	2.178%	39,038	-	-	39,038
425	2038	Replacements	New	232,590	1.280%	2,977	-	-	2,977
426	2038	Float	Historical	-	-	(138)	-	-	(138)
427	FY 2038	Subtotal:		2,024,705		41,877	-	-	41,877
428	2039	Replacements	Historical	1,490,354	2.087%	31,097	-	-	31,097
429	2039	Replacements	New	232,590	1.280%	2,977	-	-	2,977
430	2039	Float	Historical	-	-	(145)	-	-	(145)
431	FY 2039	Subtotal:		1,722,944		33,930	-	-	33,930
432	2040	Replacements	Historical	1,171,725	1.927%	22,580	-	-	22,580

**TABLE 11C:
INTEREST CALCULATION SUMMARY
FY 2022
(\$000s)**

	A	B	D	E	F	G	H	I	J
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
433	2040	Replacements	New	232,590	1.280%	2,977	-	-	2,977
434	2040	Float	Historical	-	-	(147)	-	-	(147)
435	FY 2040	Subtotal:		1,404,315		25,410	-	-	25,410
436	2041	Replacements	Historical	824,962	1.764%	14,548	-	-	14,548
437	2041	Replacements	New	232,590	1.280%	2,977	-	-	2,977
438	2041	Float	Historical	-	-	(148)	-	-	(148)
439	FY 2041	Subtotal:		1,057,552		17,377	-	-	17,377
440	2042	Replacements	Historical	544,217	1.280%	6,966	-	-	6,966
441	2042	Replacements	New	232,590	1.280%	2,977	-	-	2,977
442	2042	Float	Historical	-	-	(153)	-	-	(153)
443	FY 2042	Subtotal:		776,807		9,790	-	-	9,790
444	2043	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977
445	2043	Replacements	New	232,590	1.280%	2,977	-	-	2,977
446	2043	Float	Historical	-	-	(181)	-	-	(181)
447	FY 2043	Subtotal:		465,180		5,773	-	-	5,773
448	2044	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977
449	2044	Replacements	New	232,590	1.280%	2,977	-	-	2,977
450	2044	Float	Historical	-	-	(153)	-	-	(153)
451	FY 2044	Subtotal:		465,180		5,801	-	-	5,801
452	2045	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977
453	2045	Replacements	New	232,590	1.280%	2,977	-	-	2,977
454	2045	Float	Historical	-	-	(69)	-	-	(69)
455	FY 2045	Subtotal:		465,180		5,886	-	-	5,886
456	2046	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977
457	2046	Replacements	New	232,590	1.280%	2,977	-	-	2,977
458	2046	Float	Historical	-	-	(69)	-	-	(69)
459	FY 2046	Subtotal:		465,180		5,886	-	-	5,886
460	2047	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977
461	2047	Replacements	New	232,590	1.280%	2,977	-	-	2,977
462	2047	Float	Historical	-	-	(69)	-	-	(69)
463	FY 2047	Subtotal:		465,180		5,886	-	-	5,886
464	2048	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977
465	2048	Replacements	New	232,590	1.280%	2,977	-	-	2,977
466	2048	Float	Historical	-	-	(69)	-	-	(69)
467	FY 2048	Subtotal:		465,180		5,886	-	-	5,886
468	2049	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977
469	2049	Replacements	New	232,590	1.280%	2,977	-	-	2,977
470	2049	Float	Historical	-	-	(69)	-	-	(69)
471	FY 2049	Subtotal:		465,180		5,886	-	-	5,886
472	2050	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977
473	2050	Replacements	New	232,590	1.280%	2,977	-	-	2,977
474	2050	Float	Historical	-	-	(69)	-	-	(69)
475	FY 2050	Subtotal:		465,180		5,886	-	-	5,886
476	2051	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977
477	2051	Replacements	New	232,590	1.280%	2,977	-	-	2,977
478	2051	Float	Historical	-	-	(69)	-	-	(69)
479	FY 2051	Subtotal:		465,180		5,886	-	-	5,886
480	2052	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977
481	2052	Replacements	New	232,590	1.280%	2,977	-	-	2,977
482	2052	Float	Historical	-	-	(69)	-	-	(69)
483	FY 2052	Subtotal:		465,180		5,886	-	-	5,886
484	2053	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977
485	2053	Replacements	New	232,590	1.280%	2,977	-	-	2,977
486	2053	Float	Historical	-	-	(69)	-	-	(69)
487	FY 2053	Subtotal:		465,180		5,886	-	-	5,886
488	2054	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977
489	2054	Replacements	New	232,590	1.280%	2,977	-	-	2,977
490	2054	Float	Historical	-	-	(69)	-	-	(69)
491	FY 2054	Subtotal:		465,180		5,886	-	-	5,886
492	2055	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977
493	2055	Replacements	New	232,590	1.280%	2,977	-	-	2,977
494	2055	Float	Historical	-	-	(69)	-	-	(69)
495	FY 2055	Subtotal:		465,180		5,886	-	-	5,886
496	2056	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977
497	2056	Replacements	New	232,590	1.280%	2,977	-	-	2,977
498	2056	Float	Historical	-	-	(69)	-	-	(69)
499	FY 2056	Subtotal:		465,180		5,886	-	-	5,886
500	2057	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977
501	2057	Replacements	New	232,590	1.280%	2,977	-	-	2,977
502	2057	Float	Historical	-	-	(69)	-	-	(69)
503	FY 2057	Subtotal:		465,180		5,886	-	-	5,886
504	2058	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977

**TABLE 11C:
INTEREST CALCULATION SUMMARY
FY 2022
(\$000s)**

	A	B	D	E	F	G	H	I	J
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
505	2058	Replacements	New	232,590	1.280%	2,977	-	-	2,977
506	2058	Float	Historical	-	-	(69)	-	-	(69)
507	FY 2058	Subtotal:		465,180		5,886	-	-	5,886
508	2059	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977
509	2059	Replacements	New	232,590	1.280%	2,977	-	-	2,977
510	2059	Float	Historical	-	-	(69)	-	-	(69)
511	FY 2059	Subtotal:		465,180		5,886	-	-	5,886
512	2060	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977
513	2060	Replacements	New	232,590	1.280%	2,977	-	-	2,977
514	2060	Float	Historical	-	-	(69)	-	-	(69)
515	FY 2060	Subtotal:		465,180		5,886	-	-	5,886
516	2061	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977
517	2061	Replacements	New	232,590	1.280%	2,977	-	-	2,977
518	2061	Float	Historical	-	-	(69)	-	-	(69)
519	FY 2061	Subtotal:		465,180		5,886	-	-	5,886
520	2062	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977
521	2062	Replacements	New	232,590	1.280%	2,977	-	-	2,977
522	2062	Float	Historical	-	-	(69)	-	-	(69)
523	FY 2062	Subtotal:		465,180		5,886	-	-	5,886
524	2063	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977
525	2063	Replacements	New	232,590	1.280%	2,977	-	-	2,977
526	2063	Float	Historical	-	-	(69)	-	-	(69)
527	FY 2063	Subtotal:		465,180		5,886	-	-	5,886
528	2064	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977
529	2064	Replacements	New	232,590	1.280%	2,977	-	-	2,977
530	2064	Float	Historical	-	-	(69)	-	-	(69)
531	FY 2064	Subtotal:		465,180		5,886	-	-	5,886
532	2065	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977
533	2065	Replacements	New	232,590	1.280%	2,977	-	-	2,977
534	2065	Float	Historical	-	-	(69)	-	-	(69)
535	FY 2065	Subtotal:		465,180		5,886	-	-	5,886
536	2066	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977
537	2066	Replacements	New	232,590	1.280%	2,977	-	-	2,977
538	2066	Float	Historical	-	-	(69)	-	-	(69)
539	FY 2066	Subtotal:		465,180		5,886	-	-	5,886
540	2067	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977
541	2067	Replacements	New	232,590	1.280%	2,977	-	-	2,977
542	2067	Float	Historical	-	-	(69)	-	-	(69)
543	FY 2067	Subtotal:		465,180		5,886	-	-	5,886
544	2068	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977
545	2068	Replacements	New	232,590	1.280%	2,977	-	-	2,977
546	2068	Float	Historical	-	-	(69)	-	-	(69)
547	FY 2068	Subtotal:		465,180		5,886	-	-	5,886
548	2069	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977
549	2069	Replacements	New	232,590	1.280%	2,977	-	-	2,977
550	2069	Float	Historical	-	-	(69)	-	-	(69)
551	FY 2069	Subtotal:		465,180		5,886	-	-	5,886
552	2070	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977
553	2070	Replacements	New	232,590	1.280%	2,977	-	-	2,977
554	2070	Float	Historical	-	-	(69)	-	-	(69)
555	FY 2070	Subtotal:		465,180		5,886	-	-	5,886
556	2071	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977
557	2071	Replacements	New	232,590	1.280%	2,977	-	-	2,977
558	2071	Float	Historical	-	-	(69)	-	-	(69)
559	FY 2071	Subtotal:		465,180		5,886	-	-	5,886
560	2072	Replacements	Historical	232,590	1.280%	2,977	-	-	2,977
561	2072	Replacements	New	232,590	1.280%	2,977	-	-	2,977
562	2072	Float	Historical	-	-	(69)	-	-	(69)
563	FY 2072	Subtotal:		465,180		5,886	-	-	5,886
564	Grand Total:			\$76,332,069		\$1,621,068	-	(\$8,724)	\$1,612,344

**TABLE 11D:
APPLICATION OF AMORTIZATION
FY 2022
(\$000s)**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Maturity Date	Roll Rate	Principal Paid	Premium	Discount
1	2021	Fish and Wildlife	-	11/30/2019	4/30/2021	20,000	20,000	0.138%	0.138%					20,000		
2	2021	Construction (AS)	-	5/31/2015	5/31/2021	2,100	2,100	1.898%	1.898%					2,100		
3	2021	Conservation	-	5/31/2015	5/31/2021	5,000	5,000	1.898%	1.898%					5,000		
4	2021	Corps	-	11/30/2019	7/31/2021	34,000	34,000	0.138%	0.138%					34,000		
5	2021	Conservation	-	7/31/2015	7/31/2021	14,000	14,000	2.067%	2.067%					14,000		
6	2021	Construction (AS)	-	8/31/2019	8/31/2021	2,000	2,000	0.119%	0.119%					2,000		
7	2021	Bureau Direct	-	8/31/2019	8/31/2021	20,000	20,000	0.119%	0.119%					20,000		
8	2021	Corps	-	8/31/2019	8/31/2021	21,000	21,000	0.119%	0.119%					21,000		
9	2021	Fish and Wildlife	-	8/31/2019	8/31/2021	4,000	4,000	0.119%	0.119%					4,000		
10	2021	Technology (G)	-	8/31/2019	8/31/2021	3,000	3,000	0.119%	0.119%					3,000		
11	2021	Fish and Wildlife	-	11/30/2019	8/31/2021	27,000	27,000	0.119%	0.119%					27,000		
12	2021	Corps	-	11/30/2019	9/30/2021	40,000	40,000	0.112%	0.112%					40,000		
13	2021	Bureau Direct	-	11/20/2013	9/30/2021	50,000	50,000	2.812%	2.812%					50,000		
14	2021	Bureau Direct	-	9/30/2020	9/30/2021	51,000	51,000	0.112%	0.112%					51,000		
15	2021	Bureau Direct	-	9/30/2020	9/30/2021	30,000	30,000	0.112%	0.112%					30,000		
16	2021	Bureau Direct	-	9/30/2020	9/30/2021	5,000	5,000	0.112%	0.112%					5,000		
17	2021	Bureau Direct	-	9/30/2010	9/30/2021	22,000	22,000	2.883%	2.883%					22,000		
18	2021	Columbia River Fish Mitigation	Corps of Engineers	9/30/2006	9/30/2056	366,395	142,720	4.500%	4.500%					95,000		
19		FY 2021 Subtotal:	-	-	-	716,495	492,820	-	-					445,100		
20	2022	Construction (AS)	-	10/31/2015	10/31/2021	2,800	2,800	1.942%	1.942%					2,800		
21	2022	Conservation	-	12/31/2013	12/31/2021	6,000	6,000	3.142%	3.142%					6,000		
22	2022	Construction (AS)	-	2/29/2016	2/28/2022	3,000	3,000	0.148%	0.148%					3,000		
23	2022	Technology (G)	-	10/31/2015	7/31/2022	6,000	6,000	0.176%	0.176%					6,000		
24	2022	Conservation	-	8/31/2015	8/31/2022	6,000	6,000	2.233%	2.233%					6,000		
25	2022	Conservation	-	1/31/2018	9/30/2022	9,000	9,000	2.513%	2.513%					9,000		
26	2022	Conservation	-	1/31/2018	9/30/2022	20,000	20,000	2.513%	2.513%					20,000		
27	2022	Bureau Direct	-	11/20/2013	9/30/2022	19,000	19,000	3.125%	3.125%					19,000		
28	2022	Fish and Wildlife	-	11/20/2013	9/30/2022	31,000	31,000	3.125%	3.125%					31,000		
29	2022	Conservation	-	9/30/2015	9/30/2022	4,000	4,000	2.062%	2.062%					4,000		
30	2022	Construction (AS)	-	8/31/2021	9/30/2022	-	2,000	0.330%	0.330%					2,000		
31	2022	Corps	-	6/30/2021	9/30/2022	-	82,000	0.330%	0.330%					82,000		
32	2022	Corps	-	7/31/2021	9/30/2022	-	82,000	0.330%	0.330%					82,000		
33	2022	Fish and Wildlife	-	8/31/2021	9/30/2022	-	20,000	0.330%	0.330%					20,000		
34	2022	Corps	-	8/31/2021	9/30/2022	-	82,000	0.330%	0.330%					82,000		
35	2022	Construction (AS)	-	5/31/2022	9/30/2022	-	7,152	0.160%	0.160%					7,152		
36	2022	Corps	-	4/30/2022	9/30/2022	-	61,720	0.160%	0.160%					61,720		
37	2022	Bureau Direct	-	5/31/2022	9/30/2022	-	49,784	0.160%	0.160%					49,784		
38	2022	Bureau Direct	-	6/30/2009	6/30/2039	25,000	25,000	5.192%	5.192%					1,545	767	
39		FY 2022 Subtotal:	-	-	-	131,800	518,455	-	-					495,000	767	
40	2023	Conservation	-	1/31/2011	1/31/2023	40,000	40,000	4.046%	4.046%					40,000		
41	2023	Conservation	-	4/30/2011	4/30/2023	35,000	35,000	3.932%	3.932%					35,000		
42	2023	Conservation	-	11/20/2013	9/30/2023	27,000	27,000	3.375%	3.375%					27,000		
43	2023	Fish and Wildlife	-	5/31/2022	9/30/2023	-	43,000	0.200%	0.200%					43,000		
44	2023	Corps	-	5/31/2022	9/30/2023	-	61,720	0.200%	0.200%					61,720		
45	2023	Corps	-	6/30/2022	9/30/2023	-	61,720	0.200%	0.200%					61,720		
46	2023	Bureau Direct	-	1/31/2011	1/31/2039	35,000	35,000	5.040%	5.040%					34,579	14,543	
47	2023	Bureau Direct	-	6/30/2009	6/30/2039	25,000	23,455	5.192%	5.192%					23,455	10,626	
48	2023	The Dalles	Corps of Engineers	9/30/2006	9/30/2056	2,030	2,030	4.500%	4.500%							
49		FY 2023 Subtotal:	-	-	-	164,030	328,925	-	-					326,474	25,169	
50	2024	Construction (AS)	-	9/28/2018	12/31/2023	4,200	4,200	3.064%	3.064%					4,200		

**TABLE 11D:
APPLICATION OF AMORTIZATION
FY 2022
(\$000s)**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Maturity Date	Roll Rate	Principal Paid	Premium	Discount
51	2024	Conservation	-	12/31/2013	12/31/2023	55,000	55,000	0.191%	0.191%					55,000		
52	2024	Conservation	-	12/31/2014	12/31/2023	7,000	7,000	2.403%	2.403%					7,000		
53	2024	Conservation	-	4/30/2015	4/30/2024	5,000	5,000	2.269%	2.269%					5,000		
54	2024	Conservation	-	5/31/2014	4/30/2024	15,000	15,000	0.230%	0.230%					15,000		
55	2024	Fish and Wildlife	-	6/30/2009	6/30/2024	20,000	20,000	4.556%	4.556%					20,000		
56		FY 2024 Subtotal:	-	-	-	106,200	106,200	-	-					106,200		
57	2025	Fish and Wildlife	-	11/20/2013	9/30/2023	23,000	23,000	3.375%	0.417%	Global	9/30/2023	9/30/2025	0.417%	23,000		
58	2025	Conservation	-	6/30/2014	10/31/2024	5,000	5,000	0.230%	0.230%					5,000		
59	2025	Conservation	-	10/31/2014	12/31/2024	10,000	10,000	0.191%	0.191%					10,000		
60	2025	Conservation	-	5/31/2014	4/30/2025	3,000	3,000	0.230%	0.230%					3,000		
61	2025	Conservation	-	4/30/2014	6/30/2025	30,000	30,000	0.191%	0.191%					30,000		
62	2025	Conservation	-	7/31/2014	7/31/2025	12,000	12,000	0.176%	0.176%					12,000		
63	2025	Conservation	-	8/31/2014	9/30/2025	4,000	4,000	0.128%	0.128%					4,000		
64	2025	Bureau Direct	-	1/31/2011	1/31/2039	35,000	421	5.040%	5.040%					421	140	
65	2025	Bureau Direct	-	2/28/2011	2/28/2040	50,000	50,000	4.995%	4.995%					6,766	2,286	
66	2025	The Dalles	Corps of Engineers	9/30/2006	9/30/2056	2,030	2,030	4.500%	4.500%							
67		FY 2025 Subtotal:	-	-	-	174,030	139,451	-	-					94,186	2,426	
68	2026	Conservation	-	10/31/2013	10/31/2025	34,000	1,000	3.568%	3.568%					1,000		
69	2026	Conservation	-	1/31/2014	1/31/2026	5,000	5,000	3.621%	3.621%					5,000		
70	2026	Fish and Wildlife	-	1/31/2011	1/31/2026	50,000	50,000	4.440%	4.440%					50,000		
71	2026	Fish and Wildlife	-	2/28/2011	2/28/2026	15,000	15,000	4.398%	4.398%					15,000		
72	2026	Fish and Wildlife	-	6/22/2011	6/30/2026	15,000	15,000	4.205%	4.205%					15,000		
73	2026	Bureau Direct	-	2/28/2011	2/28/2040	50,000	43,234	4.995%	4.995%					11,438	3,331	
74		FY 2026 Subtotal:	-	-	-	169,000	129,234	-	-					97,438	3,331	
75	2027	Fish and Wildlife	-	10/31/2013	12/31/2026	28,000	28,000	3.717%	3.717%					28,000		
76	2027	Conservation	-	3/31/2020	3/31/2027	6,000	6,000	0.964%	0.964%					6,000		
77	2027	Fish and Wildlife	-	5/31/2014	4/30/2027	11,000	11,000	0.230%	0.230%					11,000		
78	2027	Fish and Wildlife	-	11/30/2013	5/31/2027	5,000	5,000	0.205%	0.205%					5,000		
79	2027	Fish and Wildlife	-	10/31/2013	5/31/2027	11,000	11,000	3.762%	3.762%					11,000		
80	2027	Bureau Direct	-	6/22/2011	6/30/2038	30,000	30,000	4.700%	4.700%					12,454	2,544	
81	2027	Bureau Direct	-	2/28/2011	2/28/2040	50,000	31,797	4.995%	4.995%					31,797	7,882	
82		FY 2027 Subtotal:	-	-	-	141,000	122,797	-	-					105,251	10,426	
83	2028	Conservation	-	10/31/2015	10/31/2027	25,000	25,000	0.230%	0.230%					25,000		
84	2028	Fish and Wildlife	-	3/31/2015	3/31/2028	3,000	3,000	2.511%	2.511%					3,000		
85	2028	Corps	-	4/30/2020	4/30/2028	27,000	27,000	0.945%	0.945%					27,000		
86	2028	Bureau Direct	-	6/22/2011	6/30/2036	30,000	30,000	4.629%	4.629%					30,000	4,825	
87	2028	Bureau Direct	-	6/22/2011	6/30/2038	30,000	17,546	4.700%	4.700%					17,546	2,972	
88	2028	The Dalles	Corps of Engineers	9/30/2006	9/30/2056	2,030	2,030	4.500%	4.500%					2,030		
89	2028	McNary	Corps of Engineers	9/30/2006	9/30/2056	4,080	4,080	4.500%	4.500%					2,663		
90		FY 2028 Subtotal:	-	-	-	121,110	108,656	-	-					107,239	7,797	

**TABLE 11D:
APPLICATION OF AMORTIZATION
FY 2022
(\$000s)**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Maturity Date	Roll Rate	Principal Paid	Premium	Discount
91	2029	Fish and Wildlife	-	10/31/2013	10/31/2028	22,000	22,000	3.880%	3.880%					22,000		
92	2029	Fish and Wildlife	-	1/31/2014	1/31/2029	7,000	7,000	3.896%	3.896%					7,000		
93	2029	Fish and Wildlife	-	10/31/2014	1/31/2029	15,000	15,000	0.176%	0.176%					15,000		
94	2029	Fish and Wildlife	-	4/30/2014	2/28/2029	7,000	7,000	0.148%	0.148%					7,000		
95	2029	Fish and Wildlife	-	8/31/2014	7/31/2029	5,000	5,000	0.176%	0.176%					5,000		
96	2029	Bureau Direct	-	12/31/2018	9/30/2029	13,000	13,000	3.100%	3.100%					13,000		
97	2029	Bureau Direct	-	12/31/2018	9/30/2029	43,000	43,000	3.100%	3.100%					43,000		
98	2029	Bureau Direct	-	10/31/2010	10/31/2034	20,000	20,000	4.211%	4.211%					20,000	1,718	
99	2029	Bureau Direct	-	8/12/2011	8/31/2037	30,000	30,000	4.208%	4.208%					30,000	3,194	
100	2029	Columbia River Fish Mitigation	Corps of Engineers	9/30/2006	9/30/2056	366,395	47,720	4.500%	4.500%					47,720		
101	2029	Dworshak	Corps of Engineers	9/30/2006	9/30/2056	73	73	4.500%	4.500%					73		
102	2029	John Day	Corps of Engineers	9/30/2006	9/30/2056	601	601	4.500%	4.500%					601		
103	2029	Lower Monument	Corps of Engineers	9/30/2006	9/30/2056	285	285	4.500%	4.500%					285		
104	2029	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2006	9/30/2056	379	379	4.500%	4.500%					379		
105	2029	McNary	Corps of Engineers	9/30/2006	9/30/2056	4,080	1,417	4.500%	4.500%					1,417		
106	2029	Boise	Bureau of Reclamation	9/30/2009	9/30/2059	2	2	4.375%	4.375%					2		
107	2029	Albeni Falls	Corps of Engineers	9/30/2009	9/30/2059	57	57	4.375%	4.375%					57		
108	2029	Bonneville Dam	Corps of Engineers	9/30/2009	9/30/2059	2,744	2,744	4.375%	4.375%					2,744		
109	2029	Chief Joseph	Corps of Engineers	9/30/2009	9/30/2059	24,727	24,727	4.375%	4.375%					24,727		
110	2029	Columbia Basin	Bureau of Reclamation	9/30/2009	9/30/2059	1,338	1,338	4.375%	4.375%					1,338		
111	2029	Columbia River Fish Mitigation	Corps of Engineers	9/30/2009	9/30/2059	103,203	103,203	4.375%	4.375%					103,203		
112	2029	Cougar	Corps of Engineers	9/30/2009	9/30/2059	121	121	4.375%	4.375%					121		
113	2029	Dworshak	Corps of Engineers	9/30/2009	9/30/2059	2,307	2,307	4.375%	4.375%					2,307		
114	2029	Hungry Horse Dam	Bureau of Reclamation	9/30/2009	9/30/2059	60	60	4.375%	4.375%					60		
115	2029	Ice Harbor	Corps of Engineers	9/30/2009	9/30/2059	2,615	2,615	4.375%	4.375%					2,615		
116	2029	John Day	Corps of Engineers	9/30/2009	9/30/2059	1,548	1,548	4.375%	4.375%					1,548		
117	2029	Little Goose	Corps of Engineers	9/30/2009	9/30/2059	3,171	3,171	4.375%	4.375%					3,171		
118	2029	Lower Granite	Corps of Engineers	9/30/2009	9/30/2059	5,669	5,669	4.375%	4.375%					5,669		
119	2029	Lower Monument	Corps of Engineers	9/30/2009	9/30/2059	2,332	2,332	4.375%	4.375%					2,332		
120	2029	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		
121	2029	Yakima Chandler/Kenniwick	Bureau of Reclamation	9/30/2009	9/30/2059	15	15	4.375%	4.375%					15		
122	2029	Little Goose	Corps of Engineers	9/30/2010	9/30/2060	30	30	4.250%	4.250%					30		
123	2029	Lower Granite	Corps of Engineers	9/30/2010	9/30/2060	1,156	1,156	4.250%	4.250%					1,156		
124	2029	Albeni Falls	Corps of Engineers	9/30/2010	9/30/2060	42	42	4.250%	4.250%					42		
125	2029	Bonneville Dam	Corps of Engineers	9/30/2010	9/30/2060	1,425	1,425	4.250%	4.250%					1,425		
126	2029	Columbia Basin	Bureau of Reclamation	9/30/2010	9/30/2060	877	877	4.250%	4.250%					877		
127	2029	Columbia River Fish Mitigation	Corps of Engineers	9/30/2010	9/30/2060	56,832	56,832	4.250%	4.250%					56,832		
128	2029	Cougar	Corps of Engineers	9/30/2010	9/30/2060	59	59	4.250%	4.250%					59		
129	2029	Hungry Horse Dam	Bureau of Reclamation	9/30/2010	9/30/2060	779	779	4.250%	4.250%					779		
130	2029	Ice Harbor	Corps of Engineers	9/30/2010	9/30/2060	207	207	4.250%	4.250%					207		
131	2029	John Day	Corps of Engineers	9/30/2010	9/30/2060	356	356	4.250%	4.250%					356		
132	2029	Libby	Corps of Engineers	9/30/2010	9/30/2060	40	40	4.250%	4.250%					40		
133	2029	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2010	9/30/2060	6	6	4.250%	4.250%					6		
134	2029	Columbia River Fish Mitigation	Corps of Engineers	9/30/2014	9/30/2064	110,071	110,071	3.875%	3.875%					4,759		
135	2029	Detroit Lake/Big Cliff	Corps of Engineers	9/30/2014	9/30/2064	18	18	3.875%	3.875%					18		
136	2029	Green Peter/Foster	Corps of Engineers	9/30/2014	9/30/2064	385	385	3.875%	3.875%					385		
137	2029	Lower Granite	Corps of Engineers	9/30/2014	9/30/2064	2,644	2,644	3.875%	3.875%					2,644		
138	2029	Lower Monument	Corps of Engineers	9/30/2014	9/30/2064	1,430	1,430	3.875%	3.875%					1,430		
139	2029	McNary	Corps of Engineers	9/30/2014	9/30/2064	759	759	3.875%	3.875%					759		
140		FY 2029 Subtotal:	-	-	-	862,378	541,040	-	-					435,729	4,912	

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APPLICATION OF AMORTIZATION
FY 2022
(\$000s)**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Maturity Date	Roll Rate	Principal Paid	Premium	Discount
141	2030	Bureau Direct	-	10/31/2019	9/30/2021	20,000	20,000	0.112%	1.208%	Global	9/30/2021	9/30/2030	1.208%	20,000		
142	2030	Fish and Wildlife	-	3/31/2020	3/31/2030	8,000	8,000	1.274%	1.274%					8,000		
143	2030	Corps	-	5/31/2016	5/31/2030	15,000	15,000	2.599%	2.599%					15,000		
144	2030	Bureau Direct	-	7/31/2016	7/31/2030	12,000	12,000	2.145%	2.145%					12,000		
145	2030	Corps	-	7/31/2016	7/31/2030	25,000	25,000	2.145%	2.145%					25,000		
146	2030	Hungry Horse Dam	Bureau of Reclamation	9/30/2011	9/30/2061	17	496	3.750%	3.750%					496		
147	2030	Bonneville Dam	Corps of Engineers	9/30/2011	9/30/2061	10,962	10,962	3.750%	3.750%					10,962		
148	2030	Chief Joseph	Corps of Engineers	9/30/2011	9/30/2061	4	4	3.750%	3.750%					4		
149	2030	Columbia Basin	Bureau of Reclamation	9/30/2011	9/30/2061	1,723	1,723	3.750%	3.750%					1,723		
150	2030	Columbia River Fish Mitigation	Corps of Engineers	9/30/2011	9/30/2061	106,014	106,014	3.750%	3.750%					106,014		
151	2030	Cougar	Corps of Engineers	9/30/2011	9/30/2061	282	282	3.750%	3.750%					282		
152	2030	Green Peter/Foster	Corps of Engineers	9/30/2011	9/30/2061	87	87	3.750%	3.750%					87		
153	2030	Hills Creek	Corps of Engineers	9/30/2011	9/30/2061	12	12	3.750%	3.750%					12		
154	2030	Ice Harbor	Corps of Engineers	9/30/2011	9/30/2061	819	819	3.750%	3.750%					819		
155	2030	John Day	Corps of Engineers	9/30/2011	9/30/2061	175	175	3.750%	3.750%					175		
156	2030	Libby	Corps of Engineers	9/30/2011	9/30/2061	152	152	3.750%	3.750%					152		
157	2030	Lookout Dam	Corps of Engineers	9/30/2011	9/30/2061	17	17	3.750%	3.750%					17		
158	2030	Lost Creek	Corps of Engineers	9/30/2011	9/30/2061	7	7	3.750%	3.750%					7		
159	2030	Lower Granite	Corps of Engineers	9/30/2011	9/30/2061	8	8	3.750%	3.750%					8		
160	2030	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2011	9/30/2061	122	122	3.750%	3.750%					122		
161	2030	McNary	Corps of Engineers	9/30/2011	9/30/2061	565	565	3.750%	3.750%					565		
162	2030	Cougar	Corps of Engineers	9/30/2012	9/30/2062	139	139	3.375%	3.375%					139		
163	2030	Minidoka/Palisades	Bureau of Reclamation	9/30/2012	9/30/2062	7	7	3.375%	3.375%					7		
164	2030	Green Peter/Foster	Corps of Engineers	9/30/2012	9/30/2062	28	28	3.375%	3.375%					28		
165	2030	Chief Joseph	Corps of Engineers	9/30/2012	9/30/2062	28	28	3.375%	3.375%					28		
166	2030	Columbia Basin	Bureau of Reclamation	9/30/2012	9/30/2062	11	11	3.375%	3.375%					11		
167	2030	Columbia River Fish Mitigation	Corps of Engineers	9/30/2012	9/30/2062	101,616	101,616	3.375%	3.375%					47,898		
168	2030	Hills Creek	Corps of Engineers	9/30/2012	9/30/2062	142	142	3.375%	3.375%					142		
169	2030	Ice Harbor	Corps of Engineers	9/30/2012	9/30/2062	115	115	3.375%	3.375%					115		
170	2030	John Day	Corps of Engineers	9/30/2012	9/30/2062	6,161	6,050	3.375%	3.375%					6,050		
171	2030	Libby	Corps of Engineers	9/30/2012	9/30/2062	16	16	3.375%	3.375%					16		
172	2030	Lookout Dam	Corps of Engineers	9/30/2012	9/30/2062	294	294	3.375%	3.375%					294		
173	2030	Lower Monument	Corps of Engineers	9/30/2012	9/30/2062	89	89	3.375%	3.375%					89		
174	2030	McNary	Corps of Engineers	9/30/2012	9/30/2062	12	11	3.375%	3.375%					11		
175	2030	RRP - Green Springs	Bureau of Reclamation	9/30/2012	9/30/2062	2	2	3.375%	3.375%					2		
176	2030	Cougar	Corps of Engineers	9/30/2014	9/30/2064	12	12	3.875%	3.875%					12		
177	2030	Bonneville Dam	Corps of Engineers	9/30/2014	9/30/2064			3.875%	3.875%							
178	2030	Columbia River Fish Mitigation	Corps of Engineers	9/30/2014	9/30/2064	110,071	105,312	3.875%	3.875%					105,312		
179	2030	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2014	9/30/2064	222	222	3.875%	3.875%					222		
180		FY 2030 Subtotal:	-	-	-	419,928	415,536	-	-					361,819		
181	2031	Fish and Wildlife	-	2/29/2016	2/28/2031	4,000	4,000	0.148%	0.148%					4,000		
182	2031	Fish and Wildlife	-	10/31/2015	2/28/2031	4,000	4,000	0.148%	0.148%					4,000		
183	2031	Fish and Wildlife	-	10/31/2015	3/31/2031	5,000	5,000	0.128%	0.128%					5,000		
184	2031	Corps	-	4/30/2016	4/30/2031	53,000	53,000	2.661%	2.661%					53,000		

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FY 2022
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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Maturity Date	Roll Rate	Principal Paid	Premium	Discount
185	2031	Bureau Direct	-	4/30/2016	4/30/2031	17,000	17,000	2.661%	2.661%					17,000		
186	2031	Bureau Direct	-	9/30/2015	9/30/2033	10,000	10,000	3.134%	3.134%					10,000	99	
187	2031	Corps	-	9/30/2015	9/30/2033	4,000	4,000	3.134%	3.134%					4,000	40	
188	2031	Columbia River Fish Mitigation	Corps of Engineers	9/30/2012	9/30/2062	101,616	53,717	3.375%	3.375%					53,717		
189	2031	Columbia Basin	Bureau of Reclamation	9/30/2013	9/30/2063	3,078	3,078	2.875%	2.875%					3,078		
190	2031	Columbia River Fish Mitigation	Corps of Engineers	9/30/2013	9/30/2063	95,274	95,274	2.875%	2.875%					18,599		
191	2031	Detroit Lake/Big Cliff	Corps of Engineers	9/30/2013	9/30/2063	528	528	2.875%	2.875%					528		
192	2031	Little Goose	Corps of Engineers	9/30/2013	9/30/2063	66	66	2.875%	2.875%					66		
193	2031	McNary	Corps of Engineers	9/30/2013	9/30/2063	1,000	1,000	2.875%	2.875%					1,000		
194	2031	RRP - Green Springs	Bureau of Reclamation	9/30/2013	9/30/2063			2.875%	2.875%							
195	2031	Bonneville Dam	Corps of Engineers	9/30/2015	9/30/2065	102	102	3.250%	3.250%					102		
196	2031	Columbia River Fish Mitigation	Corps of Engineers	9/30/2015	9/30/2065	64,291	64,291	3.250%	3.250%					64,291		
197	2031	Green Peter/Foster	Corps of Engineers	9/30/2015	9/30/2065	68	68	3.250%	3.250%					68		
198	2031	Ice Harbor	Corps of Engineers	9/30/2015	9/30/2065	3,175	3,175	3.250%	3.250%					3,175		
199	2031	Lower Granite	Corps of Engineers	9/30/2015	9/30/2065	1,597	1,597	3.250%	3.250%					1,597		
200	2031	Minidoka/Palisades	Bureau of Reclamation	9/30/2015	9/30/2065	19,237	19,237	3.250%	3.250%					19,237		
201	2031	The Dalles	Corps of Engineers	9/30/2015	9/30/2065	302	302	3.250%	3.250%					302		
202	2031	Boise	Bureau of Reclamation	9/30/2016	9/30/2066	118	118	3.000%	3.000%					118		
203	2031	Columbia River Fish Mitigation	Corps of Engineers	9/30/2016	9/30/2066	30,066	30,066	3.000%	3.000%					30,066		
204	2031	Cougar	Corps of Engineers	9/30/2016	9/30/2066	2	2	3.000%	3.000%					2		
205	2031	Detroit Lake/Big Cliff	Corps of Engineers	9/30/2016	9/30/2066	31	31	3.000%	3.000%					31		
206	2031	Green Peter/Foster	Corps of Engineers	9/30/2016	9/30/2066	70	70	3.000%	3.000%					70		
207	2031	Ice Harbor	Corps of Engineers	9/30/2016	9/30/2066	558	558	3.000%	3.000%					558		
208	2031	Lower Granite	Corps of Engineers	9/30/2016	9/30/2066	1,878	1,878	3.000%	3.000%					1,878		
209	2031	Lower Monument	Corps of Engineers	9/30/2016	9/30/2066	155	155	3.000%	3.000%					155		
210	2031	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2016	9/30/2066	1,256	1,256	3.000%	3.000%					1,256		
211	2031	Minidoka/Palisades	Bureau of Reclamation	9/30/2016	9/30/2066	206	206	3.000%	3.000%					206		
212	2031	The Dalles	Corps of Engineers	9/30/2016	9/30/2066	4	4	3.000%	3.000%					4		
213	2031	Bonneville Dam	Corps of Engineers	9/30/2019	9/30/2069	703	736	3.125%	3.125%					736		
214	2031	Columbia Basin	Bureau of Reclamation	9/30/2019	9/30/2069	4,130	4,221	3.125%	3.125%					4,221		
215	2031	Columbia River Fish Mitigation	Corps of Engineers	9/30/2019	9/30/2069	49,505	48,042	3.125%	3.125%					48,042		
216	2031	Detroit Lake/Big Cliff	Corps of Engineers	9/30/2019	9/30/2069	2	2	3.125%	3.125%					2		
217	2031	Green Peter/Foster	Corps of Engineers	9/30/2019	9/30/2069	10	10	3.125%	3.125%					10		
218	2031	Ice Harbor	Corps of Engineers	9/30/2019	9/30/2069	630	630	3.125%	3.125%					630		
219	2031	McNary	Corps of Engineers	9/30/2019	9/30/2069	479	479	3.125%	3.125%					479		
220	2031	Minidoka/Palisades	Bureau of Reclamation	9/30/2019	9/30/2069			3.125%	3.125%							
221	2031	RRP - Green Springs	Bureau of Reclamation	9/30/2019	9/30/2069	14	16	3.125%	3.125%					16		
222	2031	The Dalles	Corps of Engineers	9/30/2019	9/30/2069	129	158	3.125%	3.125%					158		
223		FY 2031 Subtotal:	-	-	-	477,279	428,073	-	-					351,398	139	
224	2032	Bureau Direct	-	5/31/2020	5/31/2032	16,000	16,000	1.188%	1.188%					16,000		
225	2032	Bureau Direct	-	5/31/2020	5/31/2032	10,000	10,000	1.188%	1.188%					10,000		
226	2032	Corps	-	3/31/2020	9/30/2047	24,000	24,000	2.103%	2.103%					4,450		741
227	2032	Corps	-	3/31/2020	9/30/2048	54,200	54,200	2.116%	2.116%					46,078		8,122
228	2032	Bonneville Dam	Corps of Engineers	9/30/2013	9/30/2063	268	268	2.875%	2.875%					268		
229	2032	Chief Joseph	Corps of Engineers	9/30/2013	9/30/2063	10	10	2.875%	2.875%					10		
230	2032	Columbia River Fish Mitigation	Corps of Engineers	9/30/2013	9/30/2063	95,274	76,675	2.875%	2.875%					76,675		
231	2032	Cougar	Corps of Engineers	9/30/2013	9/30/2063	4,088	4,088	2.875%	2.875%					4,088		
232	2032	Columbia Basin	Bureau of Reclamation	9/30/2017	9/30/2067	2,865	2,865	2.375%	2.375%					2,865		
233	2032	Cougar	Corps of Engineers	9/30/2017	9/30/2067	2	2	2.375%	2.375%					2		
234	2032	Columbia River Fish Mitigation	Corps of Engineers	9/30/2017	9/30/2067	57,719	57,719	2.375%	2.375%					57,719		

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(\$000s)**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Maturity Date	Roll Rate	Principal Paid	Premium	Discount
235	2032	Lower Monument	Corps of Engineers	9/30/2017	9/30/2067	942	942	2.375%	2.375%					942		
236	2032	McNary	Corps of Engineers	9/30/2017	9/30/2067	239	239	2.375%	2.375%					239		
237	2032	Minidoka/Palisades	Bureau of Reclamation	9/30/2017	9/30/2067	127	127	2.375%	2.375%					127		
238	2032	The Dalles	Corps of Engineers	9/30/2017	9/30/2067	10	10	2.375%	2.375%					10		
239	2032	Boise	Bureau of Reclamation	9/30/2018	9/30/2068			2.750%	2.750%							
240	2032	Columbia Basin	Bureau of Reclamation	9/30/2018	9/30/2068	17	17	2.750%	2.750%					17		
241	2032	Columbia River Fish Mitigation	Corps of Engineers	9/30/2018	9/30/2068	48,446	48,446	2.750%	2.750%					48,446		
242	2032	Libby	Corps of Engineers	9/30/2018	9/30/2068	282	282	2.750%	2.750%					282		
243	2032	Little Goose	Corps of Engineers	9/30/2018	9/30/2068	2,707	2,707	2.750%	2.750%					2,707		
244	2032	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2018	9/30/2068	1,608	1,608	2.750%	2.750%					1,608		
245	2032	Minidoka/Palisades	Bureau of Reclamation	9/30/2018	9/30/2068	145	145	2.750%	2.750%					145		
246	2032	The Dalles	Corps of Engineers	9/30/2018	9/30/2068	15	15	2.750%	2.750%					15		
247	2032	Yakima Chandler/Kenniwick	Bureau of Reclamation	9/30/2018	9/30/2068	49	49	2.750%	2.750%					49		
248	2032	Columbia Basin	Bureau of Reclamation	9/30/2020	9/30/2070	202	202	2.125%	2.125%					202		
249	2032	Columbia River Fish Mitigation	Corps of Engineers	9/30/2020	9/30/2070	82,394	82,394	2.125%	2.125%					82,394		
250	2032	Cougar	Corps of Engineers	9/30/2020	9/30/2070	267	267	2.125%	2.125%					267		
251	2032	Dworshak	Corps of Engineers	9/30/2020	9/30/2070	29	29	2.125%	2.125%					29		
252	2032	Green Peter/Foster	Corps of Engineers	9/30/2020	9/30/2070	1	1	2.125%	2.125%					1		
253	2032	Libby	Corps of Engineers	9/30/2020	9/30/2070	5	5	2.125%	2.125%					5		
254	2032	Little Goose	Corps of Engineers	9/30/2020	9/30/2070	5,504	5,504	2.125%	2.125%					5,504		
255	2032	Lower Granite	Corps of Engineers	9/30/2020	9/30/2070	18,822	18,822	2.125%	2.125%					18,822		
256	2032	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2020	9/30/2070	295	295	2.125%	2.125%					295		
257	2032	RRP - Green Springs	Bureau of Reclamation	9/30/2020	9/30/2070	64	64	2.125%	2.125%					64		
258	2032	Columbia River Fish Mitigation	Corps of Engineers	9/30/2022	9/30/2072	-	8,210	2.420%	2.419%					8,210		
259		FY 2032 Subtotal:	-	-	-	426,598	416,209	-	-					388,537		8,863
260	2033	Bureau Direct	-	4/30/2009	4/30/2023	25,000	25,000	4.391%	1.723%	Global	4/30/2023	4/30/2033	1.723%	25,000		
261	2033	Bureau Direct	-	6/30/2020	6/30/2033	11,000	11,000	1.238%	1.238%					11,000		
262	2033	Bureau Direct	-	6/30/2020	6/30/2033	12,000	12,000	1.238%	1.238%					12,000		
263	2033	Bureau Direct	-	7/31/2020	7/31/2033	15,000	15,000	1.157%	1.157%					15,000		
264	2033	Bureau Direct	-	7/31/2020	1/31/2041	35,000	35,000	1.457%	1.457%					6,066		761
265	2033	Bureau Direct	-	5/31/2020	5/31/2043	24,000	24,000	1.869%	1.869%					21,277		2,723
266	2033	Corps	-	4/30/2020	4/30/2044	40,000	40,000	1.744%	1.744%					34,713		5,287
267	2033	Bureau Direct	-	4/30/2020	4/30/2045	30,000	30,000	1.760%	1.760%					25,763		4,237
268	2033	Corps	-	7/31/2020	1/31/2046	2,000	2,000	1.640%	1.640%					1,679		321
269	2033	Bureau Direct	-	7/31/2020	1/31/2046	13,000	13,000	1.640%	1.640%					10,917		2,083
270	2033	Bureau Direct	-	3/31/2020	6/30/2046	26,000	26,000	2.083%	2.083%					22,637		3,363
271	2033	Corps	-	7/31/2020	7/31/2046	32,000	32,000	1.651%	1.651%					26,771		5,229
272	2033	Corps	-	7/31/2020	7/31/2047	64,000	64,000	1.667%	1.667%					53,001		10,999
273	2033	Corps	-	3/31/2020	9/30/2047	24,000	18,808	2.103%	2.103%					16,246		2,562
274	2033	Corps	-	5/31/2020	5/31/2048	21,000	21,000	1.953%	1.953%					17,763		3,237
275	2033	Corps	-	5/31/2020	11/30/2048	25,000	25,000	1.957%	1.957%					21,017		3,983
276	2033	Corps	-	6/30/2020	6/30/2049	24,000	24,000	1.812%	1.812%					19,723		4,277
277	2033	Bureau Direct	-	6/30/2020	6/30/2049	10,000	10,000	1.812%	1.812%					8,218		1,782
278	2033	Bureau Direct	-	6/30/2020	6/30/2049	16,000	16,000	1.812%	1.812%					13,149		2,851
279	2033	Bureau Direct	-	7/31/2020	7/31/2049	17,000	17,000	1.680%	1.680%					13,783		3,217
280	2033	Corps	-	4/30/2020	4/30/2050	50,000	50,000	1.827%	1.827%					40,895		9,105
281		FY 2033 Subtotal:	-	-	-	516,000	510,808	-	-					416,619		66,017
282	2034	Bureau Direct	-	2/27/2012	2/28/2034	55,000	55,000	0.148%	0.148%					55,000		
283	2034	Bureau Direct	-	7/31/2020	1/31/2041	35,000	28,172	1.457%	1.457%					25,431		2,741
284	2034	Corps	-	2/29/2016	2/28/2045	3,000	3,000	0.148%	0.148%					2,308		692
285	2034	Bureau Direct	-	7/31/2020	1/31/2046	13,000		1.640%	1.640%							
286	2034	Bureau Direct	-	9/28/2018	2/28/2048	29,000	29,000	0.148%	0.148%					21,143		7,857
287	2034	Bureau Direct	-	8/31/2018	2/28/2048	5,000	5,000	0.148%	0.148%					3,645		1,355

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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	Maturity Date	Roll Rate	Principal Paid	Premium	Discount
288	2034	Corps	-	8/31/2018	2/28/2048	7,000	7,000	0.148%	0.148%					5,103		1,897
289	2034	Corps	-	9/28/2018	8/31/2048	17,000	17,000	0.148%	0.148%					12,304		4,696
290	2034	Replacements	-	3/31/2023	3/31/2068	232,590	232,590	2.560%	2.560%					232,590		
291	2034	Replacements	-	3/31/2024	3/31/2069	232,590	232,590	2.560%	2.560%					47,955		
292	2034	Columbia River Fish Mitigation	Corps of Engineers	9/30/2021	9/30/2071	-	10,731	1.375%	1.375%					10,731		
293		FY 2034 Subtotal:	-	-	-	629,180	620,083	-	-					416,211		19,238
294	2035	Corps	-	8/31/2018	2/28/2048	7,000		0.148%	0.148%							
295	2035	Replacements	-	3/31/2024	3/31/2069	232,590	184,635	2.560%	2.560%					184,635		
296	2035	Replacements	-	3/31/2025	3/31/2070	232,590	232,590	2.560%	2.560%					232,590		
297	2035	Replacements	-	3/31/2026	3/31/2071	232,590	232,590	2.560%	2.560%					41,073		
298		FY 2035 Subtotal:	-	-	-	704,770	649,815	-	-					458,298		
299	2036	Replacements	-	3/31/2026	3/31/2071	232,590	191,517	2.560%	2.560%					191,517		
300	2036	Replacements	-	3/31/2027	3/31/2072	232,590	232,590	2.560%	2.560%					232,590		
301	2036	Replacements	-	3/31/2028	3/31/2073	232,590	232,590	2.560%	2.560%					38,146		
302		FY 2036 Subtotal:	-	-	-	697,770	656,697	-	-					462,254		
303	2037	Replacements	-	3/31/2028	3/31/2073	232,590	194,444	2.560%	2.560%					194,444		
304	2037	Replacements	-	3/31/2029	3/31/2074	232,590	232,590	2.560%	2.560%					232,590		
305	2037	Replacements	-	3/31/2030	3/31/2075	232,590	232,590	2.560%	2.560%					68,605		
306		FY 2037 Subtotal:	-	-	-	697,770	659,624	-	-					495,638		
307	2038	Replacements	-	3/31/2030	3/31/2075	232,590	163,985	2.560%	2.560%					163,985		
308	2038	Replacements	-	3/31/2031	3/31/2076	232,590	232,590	2.560%	2.560%					232,590		
309	2038	Replacements	-	3/31/2032	3/31/2077	232,590	232,590	2.560%	2.560%					137,776		
310		FY 2038 Subtotal:	-	-	-	697,770	629,165	-	-					534,351		
311	2039	Replacements	-	3/31/2032	3/31/2077	232,590	94,814	2.560%	2.560%					94,814		
312	2039	Replacements	-	3/31/2033	3/31/2078	232,590	232,590	2.560%	2.560%					232,590		
313	2039	Replacements	-	3/31/2034	3/31/2079	232,590	232,590	2.560%	2.560%					223,816		
314		FY 2039 Subtotal:	-	-	-	697,770	559,994	-	-					551,220		
315	2040	Replacements	-	3/31/2034	3/31/2079	232,590	8,774	2.560%	2.560%					8,774		
316	2040	Replacements	-	3/31/2035	3/31/2080	232,590	232,590	2.560%	2.560%					232,590		
317	2040	Replacements	-	3/31/2036	3/31/2081	232,590	232,590	2.560%	2.560%					232,590		
318	2040	Replacements	-	3/31/2037	3/31/2082	232,590	232,590	2.560%	2.560%					105,398		
319		FY 2040 Subtotal:	-	-	-	930,360	706,545	-	-					579,353		
320	2041	Replacements	-	3/31/2037	3/31/2082	232,590	127,192	2.560%	2.560%					127,192		
321	2041	Replacements	-	3/31/2038	3/31/2083	232,590	232,590	2.560%	2.560%					232,590		
322	2041	Replacements	-	3/31/2039	3/31/2084	232,590	232,590	2.560%	2.560%					153,553		
323		FY 2041 Subtotal:	-	-	-	697,770	592,372	-	-					513,335		
324	2042	Replacements	-	3/31/2039	3/31/2084	232,590	79,037	2.560%	2.560%					79,037		
325	2042	Replacements	-	3/31/2040	3/31/2085	232,590	232,590	2.560%	2.560%					232,590		
326	2042	Replacements	-	3/31/2041	3/31/2086	232,590	232,590	2.560%	2.560%					232,590		
327		FY 2042 Subtotal:	-	-	-	697,770	544,217	-	-					544,217		
328	2043	Replacements	-	3/31/2042	3/31/2087	232,590	232,590	2.560%	2.560%					232,590		
329		FY 2043 Subtotal:	-	-	-	232,590	232,590	-	-					232,590		
330	2044	Replacements	-	3/31/2043	3/31/2088	232,590	232,590	2.560%	2.560%					232,590		
331		FY 2044 Subtotal:	-	-	-	232,590	232,590	-	-					232,590		
332	2045	Replacements	-	3/31/2044	3/31/2089	232,590	232,590	2.560%	2.560%					232,590		

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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	Maturity Date	Roll Rate	Principal Paid	Premium	Discount
333		FY 2045 Subtotal:	-	-	-	232,590	232,590	-						232,590		
334	2046	Replacements	-	3/31/2045	3/31/2090	232,590	232,590	2.560%	2.560%					232,590		
335		FY 2046 Subtotal:	-	-	-	232,590	232,590	-						232,590		
336	2047	Replacements	-	3/31/2046	3/31/2091	232,590	232,590	2.560%	2.560%					232,590		
337		FY 2047 Subtotal:	-	-	-	232,590	232,590	-						232,590		
338	2048	Replacements	-	3/31/2047	3/31/2092	232,590	232,590	2.560%	2.560%					232,590		
339		FY 2048 Subtotal:	-	-	-	232,590	232,590	-						232,590		
340	2049	Replacements	-	3/31/2048	3/31/2093	232,590	232,590	2.560%	2.560%					232,590		
341		FY 2049 Subtotal:	-	-	-	232,590	232,590	-						232,590		
342	2050	Replacements	-	3/31/2049	3/31/2094	232,590	232,590	2.560%	2.560%					232,590		
343		FY 2050 Subtotal:	-	-	-	232,590	232,590	-						232,590		
344	2051	Replacements	-	3/31/2050	3/31/2095	232,590	232,590	2.560%	2.560%					232,590		
345		FY 2051 Subtotal:	-	-	-	232,590	232,590	-						232,590		
346	2052	Replacements	-	3/31/2051	3/31/2096	232,590	232,590	2.560%	2.560%					232,590		
347		FY 2052 Subtotal:	-	-	-	232,590	232,590	-						232,590		
348	2053	Replacements	-	3/31/2052	3/31/2097	232,590	232,590	2.560%	2.560%					232,590		
349		FY 2053 Subtotal:	-	-	-	232,590	232,590	-						232,590		
350	2054	Replacements	-	3/31/2053	3/31/2098	232,590	232,590	2.560%	2.560%					232,590		
351		FY 2054 Subtotal:	-	-	-	232,590	232,590	-						232,590		
352	2055	Replacements	-	3/31/2054	3/31/2099	232,590	232,590	2.560%	2.560%					232,590		
353		FY 2055 Subtotal:	-	-	-	232,590	232,590	-						232,590		
354	2056	Replacements	-	3/31/2055	3/31/2100	232,590	232,590	2.560%	2.560%					232,590		
355		FY 2056 Subtotal:	-	-	-	232,590	232,590	-						232,590		
356	2057	Replacements	-	3/31/2056	3/31/2101	232,590	232,590	2.560%	2.560%					232,590		
357		FY 2057 Subtotal:	-	-	-	232,590	232,590	-						232,590		
358	2058	Replacements	-	3/31/2057	3/31/2102	232,590	232,590	2.560%	2.560%					232,590		
359		FY 2058 Subtotal:	-	-	-	232,590	232,590	-						232,590		
360	2059	Replacements	-	3/31/2058	3/31/2103	232,590	232,590	2.560%	2.560%					232,590		
361		FY 2059 Subtotal:	-	-	-	232,590	232,590	-						232,590		
362	2060	Replacements	-	3/31/2059	3/31/2104	232,590	232,590	2.560%	2.560%					232,590		
363		FY 2060 Subtotal:	-	-	-	232,590	232,590	-						232,590		
364	2061	Replacements	-	3/31/2060	3/31/2105	232,590	232,590	2.560%	2.560%					232,590		
365		FY 2061 Subtotal:	-	-	-	232,590	232,590	-						232,590		
366	2062	Replacements	-	3/31/2061	3/31/2106	232,590	232,590	2.560%	2.560%					232,590		
367		FY 2062 Subtotal:	-	-	-	232,590	232,590	-						232,590		
368	2063	Replacements	-	3/31/2062	3/31/2107	232,590	232,590	2.560%	2.560%					232,590		
369		FY 2063 Subtotal:	-	-	-	232,590	232,590	-						232,590		
370	2064	Replacements	-	3/31/2063	3/31/2108	232,590	232,590	2.560%	2.560%					232,590		
371		FY 2064 Subtotal:	-	-	-	232,590	232,590	-						232,590		
372	2065	Replacements	-	3/31/2064	3/31/2109	232,590	232,590	2.560%	2.560%					232,590		
373		FY 2065 Subtotal:	-	-	-	232,590	232,590	-						232,590		
374	2066	Replacements	-	3/31/2065	3/31/2110	232,590	232,590	2.560%	2.560%					232,590		
375		FY 2066 Subtotal:	-	-	-	232,590	232,590	-						232,590		
376	2067	Replacements	-	3/31/2066	3/31/2111	232,590	232,590	2.560%	2.560%					232,590		
377		FY 2067 Subtotal:	-	-	-	232,590	232,590	-						232,590		
378	2068	Replacements	-	3/31/2067	3/31/2112	232,590	232,590	2.560%	2.560%					232,590		
379		FY 2068 Subtotal:	-	-	-	232,590	232,590	-						232,590		
380	2069	Replacements	-	3/31/2068	3/31/2113	232,590	232,590	2.560%	2.560%					232,590		
381		FY 2069 Subtotal:	-	-	-	232,590	232,590	-						232,590		
382	2070	Replacements	-	3/31/2069	3/31/2114	232,590	232,590	2.560%	2.560%					232,590		
383		FY 2070 Subtotal:	-	-	-	232,590	232,590	-						232,590		
384	2071	Replacements	-	3/31/2070	3/31/2115	232,590	232,590	2.560%	2.560%					232,590		
385		FY 2071 Subtotal:	-	-	-	232,590	232,590	-						232,590		

**TABLE 11D:
APPLICATION OF AMORTIZATION
FY 2022
(\$000s)**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Maturity Date	Roll Rate	Principal Paid	Premium	Discount
386	2072	Replacements	-	3/31/2071	3/31/2116	232,590	232,590	2.560%	2.560%					232,590		
387		FY 2072 Subtotal:	-	-	-	232,590	232,590	-						232,590		
388		Grand Total				\$17,854,478	\$16,854,417	-						\$15,263,565	\$54,967	\$94,118

**TABLE 11E:
SUMMARY OF INTEREST
FY 2022
(\$000s)**

Obligation Type	General Project	Specific Project	2021	2022	2023	2024	2025	2026	2027		
Appropriation	Bureau of Reclamation	Boise	4	4	4	4	4	4	4		
		Columbia Basin	454	454	454	454	454	454	454		
		Hungry Horse Dam	54	54	54	54	54	54	54		
		Minidoka/Palisades	639	639	639	639	639	639	639		
		RRP - Green Springs	2	2	2	2	2	2	2		
		Yakima Chandler/Kenniwick	2	2	2	2	2	2	2		
		Bureau of Reclamation Subtotal:	1,155	1,155	1,155	1,155	1,155	1,155	1,155	1,155	
	Corps of Engineers	Albeni Falls	4	4	4	4	4	4	4		
		Bonneville Dam	626	626	626	626	626	626	626		
		Chief Joseph	1,083	1,083	1,083	1,083	1,083	1,083	1,083		
		Columbia River Fish Mitigation	36,709	32,582	32,780	32,780	32,780	32,780	32,780		
		Cougar	147	147	147	147	147	147	147		
		Detroit Lake/Big Cliff	17	17	17	17	17	17	17		
		Dworshak	105	105	105	105	105	105	105		
		Green Peter/Foster	24	24	24	24	24	24	24		
		Hills Creek	5	5	5	5	5	5	5		
		Ice Harbor	297	297	297	297	297	297	297		
		John Day	321	321	321	321	321	321	321		
		Libby	16	16	16	16	16	16	16		
		Little Goose	333	333	333	333	333	333	333		
		Lookout Dam	11	11	11	11	11	11	11		
		Lost Creek									
		Lower Granite	908	908	908	908	908	908	908		
		Lower Monument	200	200	200	200	200	200	200		
		McNary	284	284	284	284	284	284	284		
		The Dalles	107	107	107	107	107	107	107		
		Corps of Engineers Subtotal:	41,197	37,069	37,268	37,268	37,268	37,268	37,268	37,268	
	Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	186	186	186	186	186	186	186		
		Lower Snake Fish & Wildlife Subtotal:	186	186	186	186	186	186	186		
	Appropriation Subtotal:			42,538	38,410	38,609	38,609	38,609	38,609	38,609	
	Treasury	BPA Borrowing	(Less Interest Income)	(255)	(149)	(106)	(43)	(43)	(46)	(47)	
			Bureau Direct	20,847	19,068	16,887	14,740	14,560	14,096	12,725	
			Interest Accrual	3,672	3,652	2,783	2,783	2,751	2,703	2,422	
			Interest Accrual Reversal	(3,538)	(3,672)	(3,652)	(2,783)	(2,783)	(2,751)	(2,703)	
			Conservation	6,298	5,819	3,971	738	438	224	86	
			Interest Accrual	1,125	1,067	228	99	69	24	24	
			Interest Accrual Reversal	(1,205)	(1,125)	(1,067)	(228)	(99)	(69)	(24)	
			Construction (AS)	230	169	129	64	-	-	-	
			Interest Accrual	56	32	32	-	-	-	-	
			Interest Accrual Reversal	(69)	(56)	(32)	(32)	-	-	-	
			Corps	9,098	9,969	9,301	8,982	8,982	8,982	8,982	
			Interest Accrual	2,396	2,333	2,261	2,261	2,261	2,261	2,261	
			Interest Accrual Reversal	(2,271)	(2,396)	(2,333)	(2,261)	(2,261)	(2,261)	(2,261)	
			Fish and Wildlife	9,084	9,094	8,168	7,373	6,462	4,926	2,337	
			Interest Accrual	1,633	1,656	1,627	1,399	1,399	820	407	
			Interest Accrual Reversal	(1,640)	(1,633)	(1,656)	(1,627)	(1,399)	(1,399)	(820)	
			Technology (G)	14	11	-	-	-	-	-	
			Interest Accrual	2	-	-	-	-	-	-	
			Interest Accrual Reversal	(2)	(2)	-	-	-	-	-	
			BPA Borrowing Subtotal:	45,475	43,837	36,542	31,463	30,336	27,509	23,390	
			Federal Generation Replacements	Replacements	-	-	2,977	8,931	14,886	20,840	26,794
Federal Generation Replacements Subtotal:				-	-	2,977	8,931	14,886	20,840	26,794	
Treasury Subtotal:			45,475	43,837	39,519	40,395	45,222	48,349	50,185		
Grand Total:			\$88,013	\$82,248	\$78,128	\$79,004	\$83,831	\$86,957	\$88,793		

**TABLE 11E:
SUMMARY OF INTEREST
FY 2022
(\$000s)**

Obligation Type	General Project	Specific Project	2028	2029	2030	2031	2032	
Appropriation	Bureau of Reclamation	Boise	4	4	4	2	-	
		Columbia Basin	454	454	358	293	71	
		Hungry Horse Dam	54	54	19	-	-	
		Minidoka/Palisades	639	639	639	638	7	
		RRP - Green Springs	2	2	2	2	1	
		Yakima Chandler/Kenniwick	2	2	1	1	1	
		Bureau of Reclamation Subtotal:	1,155	1,155	1,022	937	80	
	Corps of Engineers	Albeni Falls	4	4	-	-	-	
		Bonneville Dam	626	626	445	34	8	
		Chief Joseph	1,083	1,083	1	-	-	
		Columbia River Fish Mitigation	32,780	32,780	23,518	13,845	6,129	
		Cougar	147	147	139	123	120	
		Detroit Lake/Big Cliff	17	17	16	16	-	
		Dworshak	105	105	1	1	-	
		Green Peter/Foster	24	24	9	4	-	
		Hills Creek	5	5	5	-	-	
		Ice Harbor	297	297	174	140	-	
		John Day	321	321	211	-	-	
		Libby	16	16	14	8	8	
		Little Goose	333	333	193	193	133	
		Lookout Dam	11	11	11	-	-	
		Lost Creek	-	-	-	-	-	
		Lower Granite	908	908	509	508	200	
		Lower Monument	200	200	30	27	22	
		McNary	284	164	71	49	6	
		The Dalles	107	16	16	16	1	
	Corps of Engineers Subtotal:	37,268	37,057	25,362	14,965	6,627		
Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	186	186	101	88	47		
	Lower Snake Fish & Wildlife Subtotal:	186	186	101	88	47		
Appropriation Subtotal:			38,609	38,398	26,486	15,990	6,754	
Treasury	BPA Borrowing	(Less Interest Income)	(48)	(128)	(105)	(103)	(107)	
		Bureau Direct	10,536	8,798	5,592	4,936	4,327	
		Interest Accrual	1,869	1,412	1,370	1,182	1,079	
		Interest Accrual Reversal	(2,422)	(1,869)	(1,412)	(1,370)	(1,182)	
		Conservation	29	-	-	-	-	
		Interest Accrual	-	-	-	-	-	
		Interest Accrual Reversal	(24)	-	-	-	-	
		Construction (AS)	-	-	-	-	-	
		Interest Accrual	-	-	-	-	-	
		Interest Accrual Reversal	-	-	-	-	-	
		Corps	8,982	8,727	8,727	7,738	5,637	
		Interest Accrual	2,155	2,155	1,936	1,351	1,351	
		Interest Accrual Reversal	(2,261)	(2,155)	(2,155)	(1,936)	(1,351)	
		Fish and Wildlife	1,330	710	69	9	-	
		Interest Accrual	407	1	1	-	-	
		Interest Accrual Reversal	(407)	(407)	(1)	(1)	-	
		Technology (G)	-	-	-	-	-	
		Interest Accrual	-	-	-	-	-	
		Interest Accrual Reversal	-	-	-	-	-	
		BPA Borrowing Subtotal:	20,145	17,245	14,021	11,807	9,753	
		Federal Generation Replacements	Replacements	32,749	38,703	44,657	50,612	56,566
			Federal Generation Replacements Subtotal:	32,749	38,703	44,657	50,612	56,566
		Treasury Subtotal:			52,894	55,948	58,678	62,418
Grand Total:			\$91,502	\$94,345	\$85,164	\$78,408	\$73,073	

**TABLE 11E:
SUMMARY OF INTEREST
FY 2022
(\$000s)**

Obligation Type	General Project	Specific Project	2033	2034	2035	2036	2037	2038	2039
Appropriation	Bureau of Reclamation	Boise	-	-	-	-	-	-	-
		Columbia Basin	-	-	-	-	-	-	-
		Hungry Horse Dam	-	-	-	-	-	-	-
		Minidoka/Palisades	-	-	-	-	-	-	-
		RRP - Green Springs	-	-	-	-	-	-	-
		Yakima Chandler/Kenniwick	-	-	-	-	-	-	-
		Bureau of Reclamation Subtotal:	-	-	-	-	-	-	-
	Corps of Engineers	Albeni Falls	-	-	-	-	-	-	-
		Bonneville Dam	-	-	-	-	-	-	-
		Chief Joseph	-	-	-	-	-	-	-
		Columbia River Fish Mitigation	148	148	-	-	-	-	-
		Cougar	-	-	-	-	-	-	-
		Detroit Lake/Big Cliff	-	-	-	-	-	-	-
		Dworshak	-	-	-	-	-	-	-
		Green Peter/Foster	-	-	-	-	-	-	-
		Hills Creek	-	-	-	-	-	-	-
		Ice Harbor	-	-	-	-	-	-	-
		John Day	-	-	-	-	-	-	-
		Libby	-	-	-	-	-	-	-
		Little Goose	-	-	-	-	-	-	-
		Lookout Dam	-	-	-	-	-	-	-
		Lost Creek	-	-	-	-	-	-	-
		Lower Granite	-	-	-	-	-	-	-
	Lower Monument	-	-	-	-	-	-	-	
	McNary	-	-	-	-	-	-	-	
	The Dalles	-	-	-	-	-	-	-	
		Corps of Engineers Subtotal:	148	148	-	-	-	-	-
Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	-	-	-	-	-	-	-	
	Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-	-	
	Appropriation Subtotal:	148	148	-	-	-	-	-	
Treasury	BPA Borrowing	(Less Interest Income)	(114)	(112)	(124)	(129)	(133)	(138)	(145)
		Bureau Direct	3,213	271	-	-	-	-	-
		Interest Accrual	79	-	-	-	-	-	-
		Interest Accrual Reversal	(1,079)	(79)	-	-	-	-	-
		Conservation	-	-	-	-	-	-	-
		Interest Accrual	-	-	-	-	-	-	-
		Interest Accrual Reversal	-	-	-	-	-	-	-
		Construction (AS)	-	-	-	-	-	-	-
		Interest Accrual	-	-	-	-	-	-	-
		Interest Accrual Reversal	-	-	-	-	-	-	-
		Corps	3,780	20	-	-	-	-	-
		Interest Accrual	3	-	-	-	-	-	-
		Interest Accrual Reversal	(1,351)	(3)	-	-	-	-	-
		Fish and Wildlife	-	-	-	-	-	-	-
		Interest Accrual	-	-	-	-	-	-	-
		Interest Accrual Reversal	-	-	-	-	-	-	-
		Technology (G)	-	-	-	-	-	-	-
	Interest Accrual	-	-	-	-	-	-	-	
	Interest Accrual Reversal	-	-	-	-	-	-	-	
		BPA Borrowing Subtotal:	4,532	97	(124)	(129)	(133)	(138)	(145)
	Federal Generation Replacements	Replacements	62,520	64,884	61,381	55,552	49,245	42,016	34,075
		Federal Generation Replacements Subtotal:	62,520	64,884	61,381	55,552	49,245	42,016	34,075
		Treasury Subtotal:	67,052	64,980	61,257	55,423	49,112	41,877	33,930
Grand Total:		\$67,200	\$65,128	\$61,257	\$55,423	\$49,112	\$41,877	\$33,930	

**TABLE 11E:
SUMMARY OF INTEREST
FY 2022
(\$000s)**

Obligation Type	General Project	Specific Project	2040	2041	2042	2043	2044	2045	2046	
Appropriation	Bureau of Reclamation	Boise	-	-	-	-	-	-	-	
		Columbia Basin	-	-	-	-	-	-	-	
		Hungry Horse Dam	-	-	-	-	-	-	-	
		Minidoka/Palisades	-	-	-	-	-	-	-	
		RRP - Green Springs	-	-	-	-	-	-	-	
		Yakima Chandler/Kenniwick	-	-	-	-	-	-	-	
		Bureau of Reclamation Subtotal:	-	-	-	-	-	-	-	
	Corps of Engineers	Albeni Falls	-	-	-	-	-	-	-	
		Bonneville Dam	-	-	-	-	-	-	-	
		Chief Joseph	-	-	-	-	-	-	-	
		Columbia River Fish Mitigation	-	-	-	-	-	-	-	
		Cougar	-	-	-	-	-	-	-	
		Detroit Lake/Big Cliff	-	-	-	-	-	-	-	
		Dworshak	-	-	-	-	-	-	-	
		Green Peter/Foster	-	-	-	-	-	-	-	
		Hills Creek	-	-	-	-	-	-	-	
		Ice Harbor	-	-	-	-	-	-	-	
		John Day	-	-	-	-	-	-	-	
		Libby	-	-	-	-	-	-	-	
		Little Goose	-	-	-	-	-	-	-	
		Lookout Dam	-	-	-	-	-	-	-	
		Lost Creek	-	-	-	-	-	-	-	
		Lower Granite	-	-	-	-	-	-	-	
	Lower Monument	-	-	-	-	-	-	-		
	McNary	-	-	-	-	-	-	-		
	The Dalles	-	-	-	-	-	-	-		
		Corps of Engineers Subtotal:	-	-	-	-	-	-		
	Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	-	-	-	-	-	-	-	
		Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-		
		Appropriation Subtotal:	-	-	-	-	-	-		
	Treasury	BPA Borrowing	(Less Interest Income)	(147)	(148)	(153)	(181)	(153)	(69)	(69)
			Bureau Direct	-	-	-	-	-	-	-
Interest Accrual			-	-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	-	
Conservation			-	-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	-	
Construction (AS)			-	-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	-	
Corps			-	-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	-	
Fish and Wildlife			-	-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	-	
Technology (G)			-	-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	-	
			BPA Borrowing Subtotal:	(147)	(148)	(153)	(181)	(153)	(69)	(69)
Federal Generation Replacements			Replacements	25,558	17,525	9,943	5,954	5,954	5,954	5,954
			Federal Generation Replacements Subtotal:	25,558	17,525	9,943	5,954	5,954	5,954	5,954
			Treasury Subtotal:	25,410	17,377	9,790	5,773	5,801	5,886	5,886
Grand Total:		25,410	17,377	9,790	5,773	5,801	5,886	5,886		

**TABLE 11E:
SUMMARY OF INTEREST
FY 2022
(\$000s)**

Obligation Type	General Project	Specific Project	2047	2048	2049	2050	2051	2052	2053
Appropriation	Bureau of Reclamation	Boise	-	-	-	-	-	-	-
		Columbia Basin	-	-	-	-	-	-	-
		Hungry Horse Dam	-	-	-	-	-	-	-
		Minidoka/Palisades	-	-	-	-	-	-	-
		RRP - Green Springs	-	-	-	-	-	-	-
		Yakima Chandler/Kenniwick	-	-	-	-	-	-	-
		Bureau of Reclamation Subtotal:	-	-	-	-	-	-	-
	Corps of Engineers	Albeni Falls	-	-	-	-	-	-	-
		Bonneville Dam	-	-	-	-	-	-	-
		Chief Joseph	-	-	-	-	-	-	-
		Columbia River Fish Mitigation	-	-	-	-	-	-	-
		Cougar	-	-	-	-	-	-	-
		Detroit Lake/Big Cliff	-	-	-	-	-	-	-
		Dworshak	-	-	-	-	-	-	-
		Green Peter/Foster	-	-	-	-	-	-	-
		Hills Creek	-	-	-	-	-	-	-
		Ice Harbor	-	-	-	-	-	-	-
		John Day	-	-	-	-	-	-	-
		Libby	-	-	-	-	-	-	-
		Little Goose	-	-	-	-	-	-	-
		Lookout Dam	-	-	-	-	-	-	-
		Lost Creek	-	-	-	-	-	-	-
		Lower Granite	-	-	-	-	-	-	-
	Lower Monument	-	-	-	-	-	-	-	
	McNary	-	-	-	-	-	-	-	
	The Dalles	-	-	-	-	-	-	-	
		Corps of Engineers Subtotal:	-	-	-	-	-	-	
	Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	-	-	-	-	-	-	
		Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-	
		Appropriation Subtotal:	-	-	-	-	-	-	
	Treasury	BPA Borrowing	(Less Interest Income)	(69)	(69)	(69)	(69)	(69)	(69)
Bureau Direct			-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	
Conservation			-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	
Construction (AS)			-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	
Corps			-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	
Fish and Wildlife			-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	
Technology (G)			-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	
			BPA Borrowing Subtotal:	(69)	(69)	(69)	(69)	(69)	(69)
Federal Generation Replacements			Replacements	5,954	5,954	5,954	5,954	5,954	5,954
			Federal Generation Replacements Subtotal:	5,954	5,954	5,954	5,954	5,954	5,954
	Treasury Subtotal:	5,886	5,886	5,886	5,886	5,886	5,886		
Grand Total:		5,886	5,886	5,886	5,886	5,886	5,886		

**TABLE 11E:
SUMMARY OF INTEREST
FY 2022
(\$000s)**

Obligation Type	General Project	Specific Project	2054	2055	2056	2057	2058	2059	2060	
Appropriation	Bureau of Reclamation	Boise	-	-	-	-	-	-	-	
		Columbia Basin	-	-	-	-	-	-	-	
		Hungry Horse Dam	-	-	-	-	-	-	-	
		Minidoka/Palisades	-	-	-	-	-	-	-	
		RRP - Green Springs	-	-	-	-	-	-	-	
		Yakima Chandler/Kenniwick	-	-	-	-	-	-	-	
		Bureau of Reclamation Subtotal:	-	-	-	-	-	-	-	
	Corps of Engineers	Albeni Falls	-	-	-	-	-	-	-	
		Bonneville Dam	-	-	-	-	-	-	-	
		Chief Joseph	-	-	-	-	-	-	-	
		Columbia River Fish Mitigation	-	-	-	-	-	-	-	
		Cougar	-	-	-	-	-	-	-	
		Detroit Lake/Big Cliff	-	-	-	-	-	-	-	
		Dworshak	-	-	-	-	-	-	-	
		Green Peter/Foster	-	-	-	-	-	-	-	
		Hills Creek	-	-	-	-	-	-	-	
		Ice Harbor	-	-	-	-	-	-	-	
		John Day	-	-	-	-	-	-	-	
		Libby	-	-	-	-	-	-	-	
		Little Goose	-	-	-	-	-	-	-	
		Lookout Dam	-	-	-	-	-	-	-	
		Lost Creek	-	-	-	-	-	-	-	
		Lower Granite	-	-	-	-	-	-	-	
	Lower Monument	-	-	-	-	-	-	-		
	McNary	-	-	-	-	-	-	-		
	The Dalles	-	-	-	-	-	-	-		
		Corps of Engineers Subtotal:	-	-	-	-	-	-		
	Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	-	-	-	-	-	-	-	
		Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-		
		Appropriation Subtotal:	-	-	-	-	-	-		
	Treasury	BPA Borrowing	(Less Interest Income)	(69)	(69)	(69)	(69)	(69)	(69)	(69)
Bureau Direct			-	-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	-	
Conservation			-	-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	-	
Construction (AS)			-	-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	-	
Corps			-	-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	-	
Fish and Wildlife			-	-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	-	
Technology (G)			-	-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	-	
			BPA Borrowing Subtotal:	(69)	(69)	(69)	(69)	(69)	(69)	
Federal Generation Replacements			Replacements	5,954	5,954	5,954	5,954	5,954	5,954	5,954
			Federal Generation Replacements Subtotal:	5,954	5,954	5,954	5,954	5,954	5,954	
			Treasury Subtotal:	5,886	5,886	5,886	5,886	5,886	5,886	
Grand Total:		5,886	5,886	5,886	5,886	5,886	5,886			

**TABLE 11E:
SUMMARY OF INTEREST
FY 2022
(\$000s)**

Obligation Type	General Project	Specific Project	2061	2062	2063	2064	2065	2066	2067	
Appropriation	Bureau of Reclamation	Boise	-	-	-	-	-	-	-	
		Columbia Basin	-	-	-	-	-	-	-	
		Hungry Horse Dam	-	-	-	-	-	-	-	
		Minidoka/Palisades	-	-	-	-	-	-	-	
		RRP - Green Springs	-	-	-	-	-	-	-	
		Yakima Chandler/Kenniwick	-	-	-	-	-	-	-	
		Bureau of Reclamation Subtotal:	-	-	-	-	-	-	-	
	Corps of Engineers	Albeni Falls	-	-	-	-	-	-	-	
		Bonneville Dam	-	-	-	-	-	-	-	
		Chief Joseph	-	-	-	-	-	-	-	
		Columbia River Fish Mitigation	-	-	-	-	-	-	-	
		Cougar	-	-	-	-	-	-	-	
		Detroit Lake/Big Cliff	-	-	-	-	-	-	-	
		Dworshak	-	-	-	-	-	-	-	
		Green Peter/Foster	-	-	-	-	-	-	-	
		Hills Creek	-	-	-	-	-	-	-	
		Ice Harbor	-	-	-	-	-	-	-	
		John Day	-	-	-	-	-	-	-	
		Libby	-	-	-	-	-	-	-	
		Little Goose	-	-	-	-	-	-	-	
		Lookout Dam	-	-	-	-	-	-	-	
		Lost Creek	-	-	-	-	-	-	-	
	Lower Granite	-	-	-	-	-	-	-		
	Lower Monument	-	-	-	-	-	-	-		
	McNary	-	-	-	-	-	-	-		
	The Dalles	-	-	-	-	-	-	-		
		Corps of Engineers Subtotal:	-	-	-	-	-	-		
	Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	-	-	-	-	-	-	-	
		Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-		
		Appropriation Subtotal:	-	-	-	-	-	-		
	Treasury	BPA Borrowing	(Less Interest Income)	(69)	(69)	(69)	(69)	(69)	(69)	(69)
Bureau Direct			-	-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	-	
Conservation			-	-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	-	
Construction (AS)			-	-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	-	
Corps			-	-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	-	
Fish and Wildlife			-	-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	-	
Technology (G)			-	-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	-	
			BPA Borrowing Subtotal:	(69)	(69)	(69)	(69)	(69)	(69)	
Federal Generation Replacements			Replacements	5,954	5,954	5,954	5,954	5,954	5,954	5,954
			Federal Generation Replacements Subtotal:	5,954	5,954	5,954	5,954	5,954	5,954	
	Treasury Subtotal:	5,886	5,886	5,886	5,886	5,886	5,886			
Grand Total:		5,886	5,886	5,886	5,886	5,886	5,886			

**TABLE 11E:
SUMMARY OF INTEREST
FY 2022
(\$000s)**

Obligation Type	General Project	Specific Project	2068	2069	2070	2071	2072	Total		
Appropriation	Bureau of Reclamation	Boise	-	-	-	-	-	38		
		Columbia Basin	-	-	-	-	-	4,808		
		Hungry Horse Dam	-	-	-	-	-	508		
		Minidoka/Palisades	-	-	-	-	-	7,032		
		RRP - Green Springs	-	-	-	-	-	22		
		Yakima Chandler/Kenniwick	-	-	-	-	-	22		
	Bureau of Reclamation Subtotal:		-	-	-	-	-	12,430		
	Corps of Engineers	Albeni Falls	-	-	-	-	-	-	39	
		Bonneville Dam	-	-	-	-	-	-	6,118	
		Chief Joseph	-	-	-	-	-	-	9,751	
		Columbia River Fish Mitigation	-	-	-	-	-	-	342,540	
		Cougar	-	-	-	-	-	-	1,704	
		Detroit Lake/Big Cliff	-	-	-	-	-	-	184	
		Dworshak	-	-	-	-	-	-	945	
		Green Peter/Foster	-	-	-	-	-	-	227	
		Hills Creek	-	-	-	-	-	-	52	
		Ice Harbor	-	-	-	-	-	-	2,990	
		John Day	-	-	-	-	-	-	3,096	
		Libby	-	-	-	-	-	-	172	
		Little Goose	-	-	-	-	-	-	3,519	
		Lookout Dam	-	-	-	-	-	-	106	
		Lost Creek	-	-	-	-	-	-	3	
		Lower Granite	-	-	-	-	-	-	9,390	
Lower Monument		-	-	-	-	-	-	1,883		
McNary	-	-	-	-	-	-	2,562			
The Dalles	-	-	-	-	-	-	902			
Corps of Engineers Subtotal:		-	-	-	-	-	-	386,182		
Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	-	-	-	-	-	-	1,911		
	Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-	1,911		
Appropriation Subtotal:		-	-	-	-	-	-	400,523		
Treasury	BPA Borrowing	(Less Interest Income)	(69)	(69)	(69)	(69)	(69)	(4,778)		
		Bureau Direct	-	-	-	-	-	-	150,595	
		Interest Accrual	-	-	-	-	-	-	27,755	
		Interest Accrual Reversal	-	-	-	-	-	-	(31,294)	
		Conservation	-	-	-	-	-	-	17,602	
		Interest Accrual	-	-	-	-	-	-	2,635	
		Interest Accrual Reversal	-	-	-	-	-	-	(3,840)	
		Construction (AS)	-	-	-	-	-	-	592	
		Interest Accrual	-	-	-	-	-	-	120	
		Interest Accrual Reversal	-	-	-	-	-	-	(189)	
		Corps	-	-	-	-	-	-	107,904	
		Interest Accrual	-	-	-	-	-	-	24,984	
		Interest Accrual Reversal	-	-	-	-	-	-	(27,255)	
		Fish and Wildlife	-	-	-	-	-	-	49,563	
		Interest Accrual	-	-	-	-	-	-	9,350	
		Interest Accrual Reversal	-	-	-	-	-	-	(10,990)	
		Technology (G)	-	-	-	-	-	-	25	
		Interest Accrual	-	-	-	-	-	-	2	
		Interest Accrual Reversal	-	-	-	-	-	-	(4)	
		BPA Borrowing Subtotal:		(69)	(69)	(69)	(69)	(69)	(69)	312,778
		Federal Generation Replacements	Replacements	5,954	5,954	5,954	5,954	5,954	5,954	899,042
			Federal Generation Replacements Subtotal:	5,954	5,954	5,954	5,954	5,954	5,954	899,042
		Treasury Subtotal:		5,886	5,886	5,886	5,886	5,886	5,886	1,211,821
Grand Total:			\$5,886	\$5,886	\$5,886	\$5,886	\$5,886	\$1,612,344		

**TABLE 11F:
APPLICATION OF AMORTIZATION
FY 2022
(\$000s)**

Obligation Type	General Project	Specific Project	2021	2022	2023	2024	2025	2026	
Appropriation	Bureau of Reclamation	Boise	-	-	-	-	-	-	
		Columbia Basin	-	-	-	-	-	-	
		Hungry Horse Dam	-	-	-	-	-	-	
		Minidoka/Palisades	-	-	-	-	-	-	
		RRP - Green Springs	-	-	-	-	-	-	
		Yakima Chandler/Kenniwick	-	-	-	-	-	-	
		Bureau of Reclamation Subtotal:	-	-	-	-	-	-	
		Corps of Engineers	Albeni Falls	-	-	-	-	-	-
			Bonneville Dam	-	-	-	-	-	-
			Chief Joseph	-	-	-	-	-	-
			Columbia River Fish Mitigation	95,000	-	-	-	-	-
			Cougar	-	-	-	-	-	-
			Detroit Lake/Big Cliff	-	-	-	-	-	-
			Dworshak	-	-	-	-	-	-
			Green Peter/Foster	-	-	-	-	-	-
	Hills Creek		-	-	-	-	-	-	
	Ice Harbor		-	-	-	-	-	-	
	John Day		-	-	-	-	-	-	
	Libby		-	-	-	-	-	-	
	Little Goose		-	-	-	-	-	-	
	Lookout Dam		-	-	-	-	-	-	
	Lost Creek		-	-	-	-	-	-	
	Lower Granite		-	-	-	-	-	-	
	Lower Monument		-	-	-	-	-	-	
	McNary		-	-	-	-	-	-	
	The Dalles	-	-	-	-	-	-		
	Corps of Engineers Subtotal:	95,000	-	-	-	-	-		
	Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	-	-	-	-	-	-	
		Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-	
	Appropriation Subtotal:		95,000	-	-	-	-	-	
	Bond	BPA Borrowing	Bureau Direct	178,000	70,329	58,035	-	7,186	11,438
			Principal Accrual	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-
			Conservation	19,000	45,000	102,000	82,000	64,000	6,000
			Principal Accrual	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-
			Construction (AS)	4,100	14,952	-	4,200	-	-
			Principal Accrual	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-
			Corps	95,000	307,720	123,440	-	-	-
			Principal Accrual	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-
			Fish and Wildlife	51,000	51,000	43,000	20,000	23,000	80,000
			Principal Accrual	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-
		Technology (G)	3,000	6,000	-	-	-	-	
		Principal Accrual	-	-	-	-	-	-	
Principal Accrual Reversal		-	-	-	-	-	-		
BPA Borrowing Subtotal:		350,100	495,000	326,474	106,200	94,186	97,438		
Federal Generation Replacements		Replacements	-	-	-	-	-	-	
		Principal Accrual	-	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	-	
Federal Generation Replacements Subtotal:		-	-	-	-	-	-		
Make Whole Call		Discounts	-	-	-	-	-	-	
		Premiums	-	767	25,169	-	2,426	3,331	
		Make Whole Call Subtotal:	-	767	25,169	-	2,426	3,331	
Bond Subtotal:			350,100	495,000	326,474	106,200	94,186	97,438	
Irrigation		Irrigation Assistance	Irrigation Assistance	22,112	16,060	12,762	7,710	13,436	19,726
			Irrigation Assistance Subtotal:	22,112	16,060	12,762	7,710	13,436	19,726
		Irrigation Subtotal:		22,112	16,060	12,762	7,710	13,436	19,726
Grand Total:			\$467,212	\$511,060	\$339,236	\$113,910	\$107,622	\$117,163	

**TABLE 11F:
APPLICATION OF AMORTIZATION
FY 2022
(\$000s)**

Obligation Type	General Project	Specific Project	2027	2028	2029	2030	2031	2032	
Appropriation	Bureau of Reclamation	Boise	-	-	2	-	118	-	
		Columbia Basin	-	-	2,215	1,734	7,299	3,084	
		Hungry Horse Dam	-	-	840	496	-	-	
		Minidoka/Palisades	-	-	-	7	19,443	272	
		RRP - Green Springs	-	-	-	2	17	64	
		Yakima Chandler/Kenniwick	-	-	15	-	-	49	
		Bureau of Reclamation Subtotal:	-	-	3,072	2,239	26,877	3,469	
		Corps of Engineers	Albeni Falls	-	-	99	-	-	-
			Bonneville Dam	-	-	4,169	10,963	838	268
			Chief Joseph	-	-	24,727	31	-	10
	Columbia River Fish Mitigation		-	-	212,514	259,224	214,715	273,445	
	Cougar		-	-	180	432	2	4,357	
	Detroit Lake/Big Cliff		-	-	18	-	560	-	
	Dworshak		-	-	2,380	-	-	29	
	Green Peter/Foster		-	-	385	115	148	1	
	Hills Creek		-	-	-	154	-	-	
	Ice Harbor		-	-	2,822	934	4,363	-	
	John Day		-	-	2,504	6,224	-	-	
	Libby		-	-	40	167	-	287	
	Little Goose		-	-	3,201	-	66	8,210	
	Lookout Dam		-	-	-	311	-	-	
	Lost Creek		-	-	-	7	-	-	
	Lower Granite		-	-	9,470	8	3,475	18,822	
	Lower Monument		-	-	4,047	89	155	942	
	McNary		-	2,663	2,175	576	1,479	239	
	The Dalles		-	2,030	-	-	464	25	
	Corps of Engineers Subtotal:		-	4,693	268,732	279,237	226,264	306,636	
	Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	-	-	1,924	343	1,256	1,903	
		Lower Snake Fish & Wildlife Subtotal:	-	-	1,924	343	1,256	1,903	
	Appropriation Subtotal:	-	4,693	273,729	281,819	254,398	312,009		
	Bond	BPA Borrowing	Bureau Direct	44,251	47,546	106,000	32,000	27,000	26,000
			Principal Accrual	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-
			Conservation	6,000	25,000	-	-	-	-
			Principal Accrual	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-
			Construction (AS)	-	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-
			Corps	-	27,000	-	40,000	57,000	50,528
			Principal Accrual	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-
			Fish and Wildlife	55,000	3,000	56,000	8,000	13,000	-
			Principal Accrual	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-
			Technology (G)	-	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-
Principal Accrual Reversal			-	-	-	-	-	-	
BPA Borrowing Subtotal:			105,251	102,546	162,000	80,000	97,000	76,528	
Federal Generation Replacements			Replacements	-	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-
Federal Generation Replacements Subtotal:			-	-	-	-	-	-	
Make Whole Call		Discounts	-	-	-	-	-	(8,863)	
		Premiums	10,426	7,797	4,912	-	139	-	
		Make Whole Call Subtotal:	10,426	7,797	4,912	-	139	(8,863)	
Bond Subtotal:		105,251	102,546	162,000	80,000	97,000	85,392		
Irrigation		Irrigation Assistance	Irrigation Assistance	6,084	11,126	4,065	1,996	10,433	-
			Irrigation Assistance Subtotal:	6,084	11,126	4,065	1,996	10,433	-
		Irrigation Subtotal:	6,084	11,126	4,065	1,996	10,433	-	
Grand Total:			\$111,336	\$118,365	\$439,793	\$363,814	\$361,831	\$397,401	

**TABLE 11F:
APPLICATION OF AMORTIZATION
FY 2022
(\$000s)**

Obligation Type	General Project	Specific Project	2033	2034	2035	2036	2037	2038	
Appropriation	Bureau of Reclamation	Boise	-	-	-	-	-	-	
		Columbia Basin	-	-	-	-	-	-	
		Hungry Horse Dam	-	-	-	-	-	-	
		Minidoka/Palisades	-	-	-	-	-	-	
		RRP - Green Springs	-	-	-	-	-	-	
		Yakima Chandler/Kenniwick	-	-	-	-	-	-	
		Bureau of Reclamation Subtotal:	-	-	-	-	-	-	
		Corps of Engineers	Albeni Falls	-	-	-	-	-	-
			Bonneville Dam	-	-	-	-	-	-
			Chief Joseph	-	-	-	-	-	-
			Columbia River Fish Mitigation	-	10,731	-	-	-	-
			Cougar	-	-	-	-	-	-
			Detroit Lake/Big Cliff	-	-	-	-	-	-
			Dworshak	-	-	-	-	-	-
			Green Peter/Foster	-	-	-	-	-	-
	Hills Creek		-	-	-	-	-	-	
	Ice Harbor		-	-	-	-	-	-	
	John Day		-	-	-	-	-	-	
	Libby		-	-	-	-	-	-	
	Little Goose		-	-	-	-	-	-	
	Lookout Dam		-	-	-	-	-	-	
	Lost Creek		-	-	-	-	-	-	
	Lower Granite		-	-	-	-	-	-	
	Lower Monument		-	-	-	-	-	-	
	McNary		-	-	-	-	-	-	
	The Dalles		-	-	-	-	-	-	
	Corps of Engineers Subtotal:		-	10,731	-	-	-	-	
	Lower Snake Fish & Wildlife		Lower Snake Fish and Wildlife	-	-	-	-	-	-
			Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	
	Appropriation Subtotal:			-	10,731	-	-	-	
	Bond		BPA Borrowing	Bureau Direct	184,810	105,219	-	-	-
		Principal Accrual		-	-	-	-	-	
		Principal Accrual Reversal		-	-	-	-	-	
		Conservation		-	-	-	-	-	
		Principal Accrual		-	-	-	-	-	
		Principal Accrual Reversal		-	-	-	-	-	
		Construction (AS)		-	-	-	-	-	
		Principal Accrual		-	-	-	-	-	
		Principal Accrual Reversal		-	-	-	-	-	
		Corps		231,809	19,716	-	-	-	
		Principal Accrual		-	-	-	-	-	
		Principal Accrual Reversal		-	-	-	-	-	
		Fish and Wildlife		-	-	-	-	-	
		Principal Accrual		-	-	-	-	-	
		Principal Accrual Reversal		-	-	-	-	-	
		Technology (G)		-	-	-	-	-	
		Principal Accrual		-	-	-	-	-	
		Principal Accrual Reversal		-	-	-	-	-	
		BPA Borrowing Subtotal:		416,619	124,935	-	-	-	
Federal Generation Replacements		Replacements		-	280,545	458,298	462,254	495,638	534,351
		Principal Accrual		-	-	-	-	-	-
		Principal Accrual Reversal		-	-	-	-	-	-
Federal Generation Replacements Subtotal:		-		280,545	458,298	462,254	495,638	534,351	
Make Whole Call		Discounts		(66,017)	(19,238)	-	-	-	-
		Premiums	-	-	-	-	-	-	
		Make Whole Call Subtotal:	(66,017)	(19,238)	-	-	-		
Bond Subtotal:			482,636	424,717	458,298	462,254	495,638	534,351	
Irrigation		Irrigation Assistance	Irrigation Assistance	4,347	-	7,695	28,920	15,427	-
			Irrigation Assistance Subtotal:	4,347	-	7,695	28,920	15,427	
		Irrigation Subtotal:	4,347	-	7,695	28,920	15,427		
Grand Total:			\$486,983	\$435,448	\$465,992	\$491,174	\$511,066	\$534,351	

**TABLE 11F:
APPLICATION OF AMORTIZATION
FY 2022
(\$000s)**

Obligation Type	General Project	Specific Project	2039	2040	2041	2042	2043	2044	
Appropriation	Bureau of Reclamation	Boise	-	-	-	-	-	-	
		Columbia Basin	-	-	-	-	-	-	
		Hungry Horse Dam	-	-	-	-	-	-	
		Minidoka/Palisades	-	-	-	-	-	-	
		RRP - Green Springs	-	-	-	-	-	-	
		Yakima Chandler/Kenniwick	-	-	-	-	-	-	
		Bureau of Reclamation Subtotal:		-	-	-	-	-	-
		Corps of Engineers	Albeni Falls	-	-	-	-	-	-
			Bonneville Dam	-	-	-	-	-	-
			Chief Joseph	-	-	-	-	-	-
			Columbia River Fish Mitigation	-	-	-	-	-	-
			Cougar	-	-	-	-	-	-
			Detroit Lake/Big Cliff	-	-	-	-	-	-
			Dworshak	-	-	-	-	-	-
			Green Peter/Foster	-	-	-	-	-	-
			Hills Creek	-	-	-	-	-	-
			Ice Harbor	-	-	-	-	-	-
			John Day	-	-	-	-	-	-
			Libby	-	-	-	-	-	-
	Little Goose		-	-	-	-	-	-	
	Lookout Dam		-	-	-	-	-	-	
	Lost Creek		-	-	-	-	-	-	
	Lower Granite		-	-	-	-	-	-	
	Lower Monument		-	-	-	-	-	-	
	McNary		-	-	-	-	-	-	
	The Dalles		-	-	-	-	-	-	
	Corps of Engineers Subtotal:		-	-	-	-	-	-	
	Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	-	-	-	-	-	-	
		Lower Snake Fish & Wildlife Subtotal:		-	-	-	-	-	
	Appropriation Subtotal:		-	-	-	-	-	-	
	Bond	BPA Borrowing	Bureau Direct	-	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-
			Conservation	-	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-
			Construction (AS)	-	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-
			Corps	-	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-
			Fish and Wildlife	-	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-
			Technology (G)	-	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-
			BPA Borrowing Subtotal:		-	-	-	-	-
Federal Generation Replacements			Replacements	551,220	579,353	513,335	544,217	232,590	232,590
			Principal Accrual	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-
			Federal Generation Replacements Subtotal:		551,220	579,353	513,335	544,217	232,590
Make Whole Call			Discounts	-	-	-	-	-	-
			Premiums	-	-	-	-	-	-
			Make Whole Call Subtotal:		-	-	-	-	-
Bond Subtotal:			551,220	579,353	513,335	544,217	232,590	232,590	
Irrigation			Irrigation Assistance	Irrigation Assistance	13,995	-	73,659	-	-
				Irrigation Assistance Subtotal:		13,995	-	73,659	-
		Irrigation Subtotal:		13,995	-	73,659	-		
Grand Total:			565,215	579,353	586,994	544,217	232,590	232,590	

**TABLE 11F:
APPLICATION OF AMORTIZATION
FY 2022
(\$000s)**

Obligation Type	General Project	Specific Project	2045	2046	2047	2048	2049	2050	
Appropriation	Bureau of Reclamation	Boise	-	-	-	-	-	-	
		Columbia Basin	-	-	-	-	-	-	
		Hungry Horse Dam	-	-	-	-	-	-	
		Minidoka/Palisades	-	-	-	-	-	-	
		RRP - Green Springs	-	-	-	-	-	-	
		Yakima Chandler/Kenniwick	-	-	-	-	-	-	
		Bureau of Reclamation Subtotal:	-	-	-	-	-	-	
		Corps of Engineers	Albeni Falls	-	-	-	-	-	-
			Bonneville Dam	-	-	-	-	-	-
			Chief Joseph	-	-	-	-	-	-
	Columbia River Fish Mitigation		-	-	-	-	-	-	
	Cougar		-	-	-	-	-	-	
	Detroit Lake/Big Cliff		-	-	-	-	-	-	
	Dworshak		-	-	-	-	-	-	
	Green Peter/Foster		-	-	-	-	-	-	
	Hills Creek		-	-	-	-	-	-	
	Ice Harbor		-	-	-	-	-	-	
	John Day		-	-	-	-	-	-	
	Libby		-	-	-	-	-	-	
	Little Goose		-	-	-	-	-	-	
	Lookout Dam		-	-	-	-	-	-	
	Lost Creek		-	-	-	-	-	-	
	Lower Granite		-	-	-	-	-	-	
	Lower Monument		-	-	-	-	-	-	
	McNary		-	-	-	-	-	-	
	The Dalles		-	-	-	-	-	-	
	Corps of Engineers Subtotal:	-	-	-	-	-	-		
	Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	-	-	-	-	-	-	
		Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-	
	Appropriation Subtotal:			-	-	-	-	-	
Bond	BPA Borrowing	Bureau Direct	-	-	-	-	-	-	
		Principal Accrual	-	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	-	
		Conservation	-	-	-	-	-	-	
		Principal Accrual	-	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	-	
		Construction (AS)	-	-	-	-	-	-	
		Principal Accrual	-	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	-	
		Corps	-	-	-	-	-	-	
		Principal Accrual	-	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	-	
		Fish and Wildlife	-	-	-	-	-	-	
		Principal Accrual	-	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	-	
		Technology (G)	-	-	-	-	-	-	
		Principal Accrual	-	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	-	
		BPA Borrowing Subtotal:	-	-	-	-	-	-	
		Federal Generation Replacements	Replacements	232,590	232,590	232,590	232,590	232,590	232,590
	Principal Accrual		-	-	-	-	-	-	
	Principal Accrual Reversal		-	-	-	-	-	-	
	Federal Generation Replacements Subtotal:			232,590	232,590	232,590	232,590	232,590	
	Make Whole Call	Discounts	-	-	-	-	-	-	
		Premiums	-	-	-	-	-	-	
		Make Whole Call Subtotal:	-	-	-	-	-	-	
	Bond Subtotal:			232,590	232,590	232,590	232,590	232,590	
	Irrigation	Irrigation Assistance	Irrigation Assistance	11,479	-	-	-	-	
			Irrigation Assistance Subtotal:	11,479	-	-	-	-	
		Irrigation Subtotal:			11,479	-	-	-	
Grand Total:			\$244,069	\$232,590	\$232,590	\$232,590	\$232,590		

**TABLE 11F:
APPLICATION OF AMORTIZATION
FY 2022
(\$000s)**

Obligation Type	General Project	Specific Project	2051	2052	2053	2054	2055	2056	
Appropriation	Bureau of Reclamation	Boise	-	-	-	-	-	-	
		Columbia Basin	-	-	-	-	-	-	
		Hungry Horse Dam	-	-	-	-	-	-	
		Minidoka/Palisades	-	-	-	-	-	-	
		RRP - Green Springs	-	-	-	-	-	-	
		Yakima Chandler/Kenniwick	-	-	-	-	-	-	
		Bureau of Reclamation Subtotal:	-	-	-	-	-	-	
		Corps of Engineers	Albeni Falls	-	-	-	-	-	-
			Bonneville Dam	-	-	-	-	-	-
			Chief Joseph	-	-	-	-	-	-
	Columbia River Fish Mitigation		-	-	-	-	-	-	
	Cougar		-	-	-	-	-	-	
	Detroit Lake/Big Cliff		-	-	-	-	-	-	
	Dworshak		-	-	-	-	-	-	
	Green Peter/Foster		-	-	-	-	-	-	
	Hills Creek		-	-	-	-	-	-	
	Ice Harbor		-	-	-	-	-	-	
	John Day		-	-	-	-	-	-	
	Libby		-	-	-	-	-	-	
	Little Goose		-	-	-	-	-	-	
	Lookout Dam		-	-	-	-	-	-	
	Lost Creek		-	-	-	-	-	-	
	Lower Granite		-	-	-	-	-	-	
	Lower Monument		-	-	-	-	-	-	
	McNary		-	-	-	-	-	-	
	The Dalles		-	-	-	-	-	-	
	Corps of Engineers Subtotal:	-	-	-	-	-	-		
	Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	-	-	-	-	-	-	
		Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-	
	Appropriation Subtotal:		-	-	-	-	-	-	
Bond	BPA Borrowing	Bureau Direct	-	-	-	-	-	-	
		Principal Accrual	-	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	-	
		Conservation	-	-	-	-	-	-	
		Principal Accrual	-	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	-	
		Construction (AS)	-	-	-	-	-	-	
		Principal Accrual	-	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	-	
		Corps	-	-	-	-	-	-	
		Principal Accrual	-	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	-	
		Fish and Wildlife	-	-	-	-	-	-	
		Principal Accrual	-	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	-	
		Technology (G)	-	-	-	-	-	-	
		Principal Accrual	-	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	-	
		BPA Borrowing Subtotal:	-	-	-	-	-	-	
		Federal Generation Replacements	Replacements	232,590	232,590	232,590	232,590	232,590	232,590
	Principal Accrual		-	-	-	-	-	-	
	Principal Accrual Reversal		-	-	-	-	-	-	
	Federal Generation Replacements Subtotal:	232,590	232,590	232,590	232,590	232,590	232,590		
	Make Whole Call	Discounts	-	-	-	-	-	-	
		Premiums	-	-	-	-	-	-	
		Make Whole Call Subtotal:	-	-	-	-	-	-	
	Bond Subtotal:		232,590	232,590	232,590	232,590	232,590	232,590	
	Irrigation	Irrigation Assistance	Irrigation Assistance	-	-	-	-	-	
			Irrigation Assistance Subtotal:	-	-	-	-	-	
		Irrigation Subtotal:		-	-	-	-	-	
Grand Total:		232,590	232,590	232,590	232,590	232,590	232,590		

**TABLE 11F:
APPLICATION OF AMORTIZATION
FY 2022
(\$000s)**

Obligation Type	General Project	Specific Project	2057	2058	2059	2060	2061	2062	
Appropriation	Bureau of Reclamation	Boise	-	-	-	-	-	-	
		Columbia Basin	-	-	-	-	-	-	
		Hungry Horse Dam	-	-	-	-	-	-	
		Minidoka/Palisades	-	-	-	-	-	-	
		RRP - Green Springs	-	-	-	-	-	-	
		Yakima Chandler/Kenniwick	-	-	-	-	-	-	
		Bureau of Reclamation Subtotal:	-	-	-	-	-	-	
		Corps of Engineers	Albeni Falls	-	-	-	-	-	-
			Bonneville Dam	-	-	-	-	-	-
			Chief Joseph	-	-	-	-	-	-
	Columbia River Fish Mitigation		-	-	-	-	-	-	
	Cougar		-	-	-	-	-	-	
	Detroit Lake/Big Cliff		-	-	-	-	-	-	
	Dworshak		-	-	-	-	-	-	
	Green Peter/Foster		-	-	-	-	-	-	
	Hills Creek		-	-	-	-	-	-	
	Ice Harbor		-	-	-	-	-	-	
	John Day		-	-	-	-	-	-	
	Libby		-	-	-	-	-	-	
	Little Goose		-	-	-	-	-	-	
	Lookout Dam		-	-	-	-	-	-	
	Lost Creek		-	-	-	-	-	-	
	Lower Granite		-	-	-	-	-	-	
	Lower Monument		-	-	-	-	-	-	
	McNary		-	-	-	-	-	-	
	The Dalles		-	-	-	-	-	-	
	Corps of Engineers Subtotal:	-	-	-	-	-	-		
	Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	-	-	-	-	-	-	
		Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-	
	Appropriation Subtotal:		-	-	-	-	-	-	
Bond	BPA Borrowing	Bureau Direct	-	-	-	-	-	-	
		Principal Accrual	-	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	-	
		Conservation	-	-	-	-	-	-	
		Principal Accrual	-	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	-	
		Construction (AS)	-	-	-	-	-	-	
		Principal Accrual	-	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	-	
		Corps	-	-	-	-	-	-	
		Principal Accrual	-	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	-	
		Fish and Wildlife	-	-	-	-	-	-	
		Principal Accrual	-	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	-	
		Technology (G)	-	-	-	-	-	-	
		Principal Accrual	-	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	-	
		BPA Borrowing Subtotal:	-	-	-	-	-	-	
		Federal Generation Replacements	Replacements	232,590	232,590	232,590	232,590	232,590	232,590
	Principal Accrual		-	-	-	-	-	-	
	Principal Accrual Reversal		-	-	-	-	-	-	
	Federal Generation Replacements Subtotal:		232,590	232,590	232,590	232,590	232,590	232,590	
	Make Whole Call	Discounts	-	-	-	-	-	-	
		Premiums	-	-	-	-	-	-	
		Make Whole Call Subtotal:	-	-	-	-	-	-	
	Bond Subtotal:		232,590	232,590	232,590	232,590	232,590	232,590	
	Irrigation	Irrigation Assistance	Irrigation Assistance	-	-	-	-	-	
			Irrigation Assistance Subtotal:	-	-	-	-	-	
		Irrigation Subtotal:		-	-	-	-	-	
Grand Total:			232,590	232,590	232,590	232,590	232,590		

**TABLE 11F:
APPLICATION OF AMORTIZATION
FY 2022
(\$000s)**

Obligation Type	General Project	Specific Project	2063	2064	2065	2066	2067	2068	
Appropriation	Bureau of Reclamation	Boise	-	-	-	-	-	-	
		Columbia Basin	-	-	-	-	-	-	
		Hungry Horse Dam	-	-	-	-	-	-	
		Minidoka/Palisades	-	-	-	-	-	-	
		RRP - Green Springs	-	-	-	-	-	-	
		Yakima Chandler/Kenniwick	-	-	-	-	-	-	
		Bureau of Reclamation Subtotal:	-	-	-	-	-	-	
		Corps of Engineers	Albeni Falls	-	-	-	-	-	-
			Bonneville Dam	-	-	-	-	-	-
			Chief Joseph	-	-	-	-	-	-
	Columbia River Fish Mitigation		-	-	-	-	-	-	
	Cougar		-	-	-	-	-	-	
	Detroit Lake/Big Cliff		-	-	-	-	-	-	
	Dworshak		-	-	-	-	-	-	
	Green Peter/Foster		-	-	-	-	-	-	
	Hills Creek		-	-	-	-	-	-	
	Ice Harbor		-	-	-	-	-	-	
	John Day		-	-	-	-	-	-	
	Libby		-	-	-	-	-	-	
	Little Goose		-	-	-	-	-	-	
	Lookout Dam		-	-	-	-	-	-	
	Lost Creek		-	-	-	-	-	-	
	Lower Granite		-	-	-	-	-	-	
	Lower Monument		-	-	-	-	-	-	
	McNary		-	-	-	-	-	-	
	The Dalles		-	-	-	-	-	-	
	Corps of Engineers Subtotal:	-	-	-	-	-	-		
	Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	-	-	-	-	-	-	
		Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-	
	Appropriation Subtotal:		-	-	-	-	-	-	
Bond	BPA Borrowing	Bureau Direct	-	-	-	-	-	-	
		Principal Accrual	-	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	-	
		Conservation	-	-	-	-	-	-	
		Principal Accrual	-	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	-	
		Construction (AS)	-	-	-	-	-	-	
		Principal Accrual	-	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	-	
		Corps	-	-	-	-	-	-	
		Principal Accrual	-	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	-	
		Fish and Wildlife	-	-	-	-	-	-	
		Principal Accrual	-	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	-	
		Technology (G)	-	-	-	-	-	-	
		Principal Accrual	-	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	-	
		BPA Borrowing Subtotal:	-	-	-	-	-	-	
		Federal Generation Replacements	Replacements	232,590	232,590	232,590	232,590	232,590	232,590
	Principal Accrual		-	-	-	-	-	-	
	Principal Accrual Reversal		-	-	-	-	-	-	
	Federal Generation Replacements Subtotal:		232,590	232,590	232,590	232,590	232,590	232,590	
	Make Whole Call	Discounts	-	-	-	-	-	-	
		Premiums	-	-	-	-	-	-	
		Make Whole Call Subtotal:	-	-	-	-	-	-	
	Bond Subtotal:		232,590	232,590	232,590	232,590	232,590	232,590	
	Irrigation	Irrigation Assistance	Irrigation Assistance	-	-	-	-	-	
			Irrigation Assistance Subtotal:	-	-	-	-	-	
		Irrigation Subtotal:		-	-	-	-	-	
Grand Total:			232,590	232,590	232,590	232,590	232,590		

**TABLE 11F:
APPLICATION OF AMORTIZATION
FY 2022
(\$000s)**

Obligation Type	General Project	Specific Project	2069	2070	2071	2072	Total	
Appropriation	Bureau of Reclamation	Boise	-	-	-	-	121	
		Columbia Basin	-	-	-	-	14,332	
		Hungry Horse Dam	-	-	-	-	1,336	
		Minidoka/Palisades	-	-	-	-	19,722	
		RRP - Green Springs	-	-	-	-	83	
		Yakima Chandler/Kenniwick	-	-	-	-	65	
	Bureau of Reclamation Subtotal:		-	-	-	-	35,658	
	Corps of Engineers	Albeni Falls	-	-	-	-	99	
		Bonneville Dam	-	-	-	-	16,237	
		Chief Joseph	-	-	-	-	24,769	
		Columbia River Fish Mitigation	-	-	-	-	1,065,630	
		Cougar	-	-	-	-	4,971	
		Detroit Lake/Big Cliff	-	-	-	-	578	
		Dworshak	-	-	-	-	2,409	
		Green Peter/Foster	-	-	-	-	648	
		Hills Creek	-	-	-	-	154	
		Ice Harbor	-	-	-	-	8,118	
		John Day	-	-	-	-	8,728	
		Libby	-	-	-	-	494	
		Little Goose	-	-	-	-	11,478	
		Lookout Dam	-	-	-	-	311	
	Lost Creek	-	-	-	-	7		
	Lower Granite	-	-	-	-	31,775		
	Lower Monument	-	-	-	-	5,235		
	McNary	-	-	-	-	7,132		
	The Dalles	-	-	-	-	2,519		
	Corps of Engineers Subtotal:		-	-	-	-	1,191,293	
	Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	-	-	-	-	5,428	
		Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	5,428	
	Appropriation Subtotal:		-	-	-	-	1,232,379	
Bond	BPA Borrowing	Bureau Direct	-	-	-	-	897,813	
		Principal Accrual	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	
		Conservation	-	-	-	-	349,000	
		Principal Accrual	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	
		Construction (AS)	-	-	-	-	23,252	
		Principal Accrual	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	
		Corps	-	-	-	-	952,212	
		Principal Accrual	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	
		Fish and Wildlife	-	-	-	-	403,000	
		Principal Accrual	-	-	-	-	-	
	Principal Accrual Reversal	-	-	-	-	-		
	Technology (G)	-	-	-	-	9,000		
	Principal Accrual	-	-	-	-	-		
	Principal Accrual Reversal	-	-	-	-	-		
	BPA Borrowing Subtotal:		-	-	-	-	2,634,276	
	Federal Generation Replacements	Replacements	232,590	232,590	232,590	232,590	11,396,910	
		Principal Accrual	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	
	Federal Generation Replacements Subtotal:		232,590	232,590	232,590	232,590	11,396,910	
	Make Whole Call	Discounts	-	-	-	-	(94,118)	
		Premiums	-	-	-	-	54,967	
		Make Whole Call Subtotal:	-	-	-	-	(39,151)	
	Bond Subtotal:		232,590	232,590	232,590	232,590	14,125,305	
	Irrigation	Irrigation Assistance	Irrigation Assistance	-	-	-	-	281,033
			Irrigation Assistance Subtotal:	-	-	-	-	281,033
		Irrigation Subtotal:		-	-	-	-	281,033
Grand Total:			232,590	232,590	232,590	232,590	\$15,638,716	

12. REPAYMENT STUDY DATA, FY 2023 STUDY

**TABLE 12A:
HISTORICAL INVESTMENTS
FY 2023
(\$000s)**

	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%	1,105	0		
48	Albeni Falls	09/1995	09/2045	7.150%	443	0		
49	Albeni Falls	09/1995	09/2045	7.150%	531	0		
50	Albeni Falls	09/1996	09/2016	7.290%	130	0		
51	Albeni Falls	09/1997	09/2047	7.150%	431	0		
52	Albeni Falls	09/2005	09/2055	5.125%	481	0		
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		
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		

**TABLE 12A:
HISTORICAL INVESTMENTS
FY 2023
(\$000s)**

	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
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	0		
137	Boise	09/1996	09/2046	7.150%	656	0		
138	Boise	09/1997	09/2047	6.950%	9	0		
139	Boise	09/1997	09/2047	7.150%	2,266	0		
140	Boise	09/2005	09/2055	5.125%	903	0		
141	Boise	09/2006	09/2056	4.500%	15	0		
142	Boise	09/2007	09/2057	5.000%	76	0		
143	Boise	09/2008	09/2058	4.875%	64	0		
144	Boise	09/2009	09/2059	4.375%	2	2		
145	Boise	09/2015	09/2065	3.250%	0	0		
146	Boise	09/2016	09/2066	3.000%	118	118		
147	Boise	09/2018	09/2068	2.750%				
148	Bonneville 2nd Powerhouse	09/1981	09/2031	7.150%	40,964	0		
149	Bonneville 2nd Powerhouse	09/1981	09/2031	7.150%	455	0		
150	Bonneville 2nd Powerhouse	09/1982	09/2032	7.150%	203,535	0		
151	Bonneville 2nd Powerhouse	09/1982	09/2032	7.150%	2,264	0		
152	Bonneville 2nd Powerhouse	09/1983	09/2033	7.150%	62,409	0		
153	Bonneville 2nd Powerhouse	09/1983	09/2033	7.150%	694	0		
154	Bonneville 2nd Powerhouse	09/1985	09/2033	7.150%	9,138	0		
155	Bonneville 2nd Powerhouse	09/1986	09/2033	7.150%	30,578	0		
156	Bonneville 2nd Powerhouse	09/1987	09/2033	7.150%	2,801	0		
157	Bonneville 2nd Powerhouse	09/1988	09/2033	7.150%	1,271	0		
158	Bonneville 2nd Powerhouse	09/1989	09/2033	7.150%	1,232	0		
159	Bonneville 2nd Powerhouse	09/1990	09/2033	7.150%	1,588	0		
160	Bonneville 2nd Powerhouse	09/1991	09/2033	8.750%	3,998	0		

**TABLE 12A:
HISTORICAL INVESTMENTS
FY 2023
(\$000s)**

	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
161	Bonneville 2nd Powerhouse	09/1991	09/2033	8.750%	26	0		
162	Bonneville 2nd Powerhouse	09/1992	09/2033	8.500%	2,446	0		
163	Bonneville 2nd Powerhouse	09/1993	09/2033	7.875%	3,668	0		
164	Bonneville 2nd Powerhouse	09/1994	09/2044	7.150%	5,700	0		
165	Bonneville 2nd Powerhouse	09/1995	09/2045	7.150%	3,791	0		
166	Bonneville 2nd Powerhouse	09/1996	09/2046	7.150%	376	0		
167	Bonneville Dam	09/1938	09/1988	2.500%	11,726	0		
168	Bonneville Dam	09/1938	09/1988	2.500%	130	0		
169	Bonneville Dam	09/1941	09/1991	2.500%	17,589	0		
170	Bonneville Dam	09/1941	09/1991	2.500%	196	0		
171	Bonneville Dam	09/1942	09/1992	2.500%	5,863	0		
172	Bonneville Dam	09/1942	09/1992	2.500%	65	0		
173	Bonneville Dam	09/1943	09/1993	2.500%	17,589	0		
174	Bonneville Dam	09/1943	09/1993	2.500%	196	0		
175	Bonneville Dam	09/1944	09/1994	2.500%	5,860	0		
176	Bonneville Dam	09/1944	09/1994	2.500%	65	0		
177	Bonneville Dam	09/1945	09/1994	2.500%	82	0		
178	Bonneville Dam	09/1945	09/1994	2.500%	1	0		
179	Bonneville Dam	09/1946	09/1994	2.500%	81	0		
180	Bonneville Dam	09/1946	09/1994	2.500%	1	0		
181	Bonneville Dam	09/1947	09/1994	2.500%	82	0		
182	Bonneville Dam	09/1947	09/1994	2.500%	1	0		
183	Bonneville Dam	09/1948	09/1994	2.500%	81	0		
184	Bonneville Dam	09/1948	09/1994	2.500%	1	0		
185	Bonneville Dam	09/1949	09/1994	2.500%	82	0		
186	Bonneville Dam	09/1949	09/1994	2.500%	1	0		
187	Bonneville Dam	09/1950	09/1994	2.500%	81	0		
188	Bonneville Dam	09/1950	09/1994	2.500%	11	0		
189	Bonneville Dam	09/1951	09/1994	2.500%	81	0		
190	Bonneville Dam	09/1951	09/1994	2.500%	11	0		
191	Bonneville Dam	09/1952	09/1994	2.500%	82	0		
192	Bonneville Dam	09/1952	09/1994	2.500%	1	0		
193	Bonneville Dam	09/1953	09/1994	2.500%	81	0		
194	Bonneville Dam	09/1953	09/1994	2.500%	1	0		
195	Bonneville Dam	09/1954	09/1994	2.500%	82	0		
196	Bonneville Dam	09/1954	09/1994	2.500%	1	0		
197	Bonneville Dam	09/1955	09/1994	2.500%	81	0		
198	Bonneville Dam	09/1955	09/1994	2.500%	1	0		
199	Bonneville Dam	09/1956	09/1994	2.500%	81	0		
200	Bonneville Dam	09/1956	09/1994	2.500%	1	0		
201	Bonneville Dam	09/1957	09/1994	2.500%	82	0		
202	Bonneville Dam	09/1957	09/1994	2.500%	1	0		
203	Bonneville Dam	09/1958	09/1994	2.500%	81	0		
204	Bonneville Dam	09/1958	09/1994	2.500%	1	0		
205	Bonneville Dam	09/1959	09/1994	2.500%	82	0		
206	Bonneville Dam	09/1959	09/1994	2.500%	1	0		
207	Bonneville Dam	09/1960	09/1994	2.500%	81	0		
208	Bonneville Dam	09/1960	09/1994	2.500%	1	0		
209	Bonneville Dam	09/1961	09/1994	2.500%	81	0		
210	Bonneville Dam	09/1961	09/1994	2.500%	1	0		
211	Bonneville Dam	09/1962	09/1994	2.500%	82	0		
212	Bonneville Dam	09/1962	09/1994	2.500%	1	0		
213	Bonneville Dam	09/1963	09/1994	2.500%	81	0		
214	Bonneville Dam	09/1963	09/1994	2.500%	1	0		
215	Bonneville Dam	09/1964	09/1994	2.500%	82	0		
216	Bonneville Dam	09/1964	09/1994	2.500%	1	0		
217	Bonneville Dam	09/1965	09/1994	2.500%	81	0		
218	Bonneville Dam	09/1965	09/1994	2.500%	1	0		
219	Bonneville Dam	09/1966	09/1994	2.500%	81	0		
220	Bonneville Dam	09/1966	09/1994	2.500%	1	0		
221	Bonneville Dam	09/1967	09/1994	2.500%	82	0		
222	Bonneville Dam	09/1967	09/1994	2.500%	1	0		
223	Bonneville Dam	09/1968	09/1994	2.500%	81	0		
224	Bonneville Dam	09/1968	09/1994	2.500%	1	0		
225	Bonneville Dam	09/1969	09/1994	2.500%	82	0		
226	Bonneville Dam	09/1969	09/1994	2.500%	1	0		
227	Bonneville Dam	09/1970	09/1994	2.500%	81	0		
228	Bonneville Dam	09/1970	09/1994	2.500%	1	0		
229	Bonneville Dam	09/1971	09/1994	2.500%	81	0		
230	Bonneville Dam	09/1971	09/1994	2.500%	1	0		
231	Bonneville Dam	09/1972	09/1994	2.500%	82	0		
232	Bonneville Dam	09/1972	09/1994	2.500%	1	0		
233	Bonneville Dam	09/1973	09/1994	2.500%	81	0		
234	Bonneville Dam	09/1973	09/1994	2.500%	1	0		
235	Bonneville Dam	09/1974	09/1994	2.500%	82	0		
236	Bonneville Dam	09/1974	09/1994	2.500%	1	0		
237	Bonneville Dam	09/1975	09/1994	2.500%	81	0		
238	Bonneville Dam	09/1975	09/1994	2.500%	1	0		
239	Bonneville Dam	09/1976	09/1994	2.500%	81	0		
240	Bonneville Dam	09/1976	09/1994	2.500%	1	0		

**TABLE 12A:
HISTORICAL INVESTMENTS
FY 2023
(\$000s)**

	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
241	Bonneville Dam	09/1977	09/1994	2.500%	82	0		
242	Bonneville Dam	09/1977	09/1994	2.500%	1	0		
243	Bonneville Dam	09/1977	09/2027	7.150%	15,670	0		
244	Bonneville Dam	09/1978	09/1994	2.500%	81	0		
245	Bonneville Dam	09/1978	09/1994	2.500%	1	0		
246	Bonneville Dam	09/1979	09/1994	2.500%	82	0		
247	Bonneville Dam	09/1979	09/1994	2.500%	1	0		
248	Bonneville Dam	09/1980	09/1994	2.500%	81	0		
249	Bonneville Dam	09/1980	09/1994	2.500%	1	0		
250	Bonneville Dam	09/1981	09/1994	2.500%	81	0		
251	Bonneville Dam	09/1981	09/1994	2.500%	1	0		
252	Bonneville Dam	09/1982	09/1994	2.500%	82	0		
253	Bonneville Dam	09/1982	09/1994	2.500%	2	0		
254	Bonneville Dam	09/1983	09/1994	2.500%	81	0		
255	Bonneville Dam	09/1983	09/1994	2.500%	1	0		
256	Bonneville Dam	09/1984	09/1994	10.750%	873	0		
257	Bonneville Dam	09/1984	09/1994	10.750%	10	0		
258	Bonneville Dam	09/1985	09/1994	2.500%	119	0		
259	Bonneville Dam	09/1986	09/1994	2.500%	555	0		
260	Bonneville Dam	09/1986	09/1994	11.375%	454	0		
261	Bonneville Dam	09/1987	09/1994	2.500%	260	0		
262	Bonneville Dam	09/1987	09/1994	8.875%	26	0		
263	Bonneville Dam	09/1988	09/1994	8.500%	4,199	0		
264	Bonneville Dam	09/1988	09/1994	8.500%	10	0		
265	Bonneville Dam	09/1989	09/1994	9.250%	877	0		
266	Bonneville Dam	09/1990	09/1994	8.875%	519	0		
267	Bonneville Dam	09/1990	09/1994	8.875%	651	0		
268	Bonneville Dam	09/1991	09/1994	8.750%	35	0		
269	Bonneville Dam	09/1991	09/1994	8.750%	3,193	0		
270	Bonneville Dam	09/1992	09/1994	8.500%	99	0		
271	Bonneville Dam	09/1992	09/1994	8.500%	25	0		
272	Bonneville Dam	09/1993	09/2018	7.880%	5,011	0		
273	Bonneville Dam	09/1994	09/2029	7.125%	536	0		
274	Bonneville Dam	09/1995	09/2000	7.330%	8	0		
275	Bonneville Dam	09/1995	09/2010	7.090%	25	0		
276	Bonneville Dam	09/1995	09/2020	7.250%	20	0		
277	Bonneville Dam	09/1995	09/2020	7.250%	22	0		
278	Bonneville Dam	09/1995	09/2030	7.860%	53	0		
279	Bonneville Dam	09/1995	09/2035	7.860%	98	0		
280	Bonneville Dam	09/1995	09/2045	7.150%	243	0		
281	Bonneville Dam	09/1995	09/2045	7.150%	410	0		
282	Bonneville Dam	09/1995	09/2045	7.150%	440	0		
283	Bonneville Dam	09/1995	09/2045	7.860%	374	0		
284	Bonneville Dam	09/1996	09/2016	7.290%	834	0		
285	Bonneville Dam	09/1996	09/2031	7.150%	22	0		
286	Bonneville Dam	09/1996	09/2046	7.150%	18	0		
287	Bonneville Dam	09/1996	09/2046	7.150%	18	0		
288	Bonneville Dam	09/1996	09/2046	7.150%	80	0		
289	Bonneville Dam	09/1996	09/2046	7.150%	109	0		
290	Bonneville Dam	09/1996	09/2046	7.150%	142	0		
291	Bonneville Dam	09/1996	09/2046	7.150%	223	0		
292	Bonneville Dam	09/1996	09/2046	7.150%	751	0		
293	Bonneville Dam	09/1996	09/2046	7.150%	1,322	0		
294	Bonneville Dam	09/1997	09/2022	7.230%	122	0		
295	Bonneville Dam	09/1997	09/2032	7.150%	518	0		
296	Bonneville Dam	09/1997	09/2047	7.150%	161	0		
297	Bonneville Dam	09/1999	09/2049	5.375%	19,368	0		
298	Bonneville Dam	09/2000	09/2050	6.125%	24,446	0		
299	Bonneville Dam	09/2001	09/2051	5.875%	2,530	0		
300	Bonneville Dam	09/2002	09/2052	5.500%	448	0		
301	Bonneville Dam	09/2003	09/2053	5.125%	4,581	0		
302	Bonneville Dam	09/2004	09/2054	5.375%	26,741	0		
303	Bonneville Dam	09/2005	09/2055	5.125%	19,725	0		
304	Bonneville Dam	09/2006	09/2056	4.500%	2,628	0		
305	Bonneville Dam	09/2007	09/2057	5.000%	1,124	0		
306	Bonneville Dam	09/2008	09/2058	4.875%	14,609	0		
307	Bonneville Dam	09/2009	09/2059	4.375%	2,744	2,744		
308	Bonneville Dam	09/2010	09/2060	4.250%	1,425	1,425		
309	Bonneville Dam	09/2011	09/2061	3.750%	10,962	10,962		
310	Bonneville Dam	09/2013	09/2063	2.875%	268	268		
311	Bonneville Dam	09/2014	09/2064	3.875%				
312	Bonneville Dam	09/2015	09/2065	3.250%	102	102		
313	Bonneville Dam	09/2019	09/2069	3.125%	703	736		
314	Chief Joseph	09/1955	09/2005	6.910%	29,164	0		
315	Chief Joseph	09/1956	09/2006	6.950%	13,643	0		
316	Chief Joseph	09/1957	09/2007	6.980%	39,586	0		
317	Chief Joseph	09/1958	09/2008	7.020%	31,901	0		
318	Chief Joseph	09/1959	09/2008	7.020%	223	0		
319	Chief Joseph	09/1960	09/2008	7.020%	223	0		
320	Chief Joseph	09/1961	09/2008	7.020%	223	0		

**TABLE 12A:
HISTORICAL INVESTMENTS
FY 2023
(\$000s)**

	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
321	Chief Joseph	09/1962	09/2008	7.020%	223	0		
322	Chief Joseph	09/1963	09/2008	7.020%	224	0		
323	Chief Joseph	09/1964	09/2008	7.020%	223	0		
324	Chief Joseph	09/1965	09/2008	7.020%	223	0		
325	Chief Joseph	09/1966	09/2008	7.020%	223	0		
326	Chief Joseph	09/1967	09/2008	7.020%	223	0		
327	Chief Joseph	09/1968	09/2008	7.020%	224	0		
328	Chief Joseph	09/1969	09/2008	7.020%	223	0		
329	Chief Joseph	09/1970	09/2008	7.020%	223	0		
330	Chief Joseph	09/1971	09/2008	7.020%	223	0		
331	Chief Joseph	09/1972	09/2008	7.020%	223	0		
332	Chief Joseph	09/1973	09/2008	7.020%	224	0		
333	Chief Joseph	09/1974	09/2008	7.020%	223	0		
334	Chief Joseph	09/1975	09/2008	7.020%	223	0		
335	Chief Joseph	09/1976	09/2008	7.020%	223	0		
336	Chief Joseph	09/1977	09/2008	7.020%	223	0		
337	Chief Joseph	09/1977	09/2027	7.150%	30,512	0		
338	Chief Joseph	09/1978	09/2008	7.020%	224	0		
339	Chief Joseph	09/1978	09/2028	7.150%	75,669	0		
340	Chief Joseph	09/1979	09/2008	7.020%	223	0		
341	Chief Joseph	09/1979	09/2029	7.150%	60,079	0		
342	Chief Joseph	09/1980	09/2008	7.020%	223	0		
343	Chief Joseph	09/1981	09/2008	7.020%	223	0		
344	Chief Joseph	09/1982	09/2008	7.020%	223	0		
345	Chief Joseph	09/1983	09/2008	7.020%	224	0		
346	Chief Joseph	09/1984	09/2008	10.750%	909	0		
347	Chief Joseph	09/1985	09/2008	7.020%	46	0		
348	Chief Joseph	09/1985	09/2029	7.150%	16,372	0		
349	Chief Joseph	09/1986	09/2029	7.150%	5,363	0		
350	Chief Joseph	09/1987	09/2008	8.875%	104	0		
351	Chief Joseph	09/1987	09/2029	7.150%	3,036	0		
352	Chief Joseph	09/1988	09/2029	7.150%	2,722	0		
353	Chief Joseph	09/1989	09/2008	9.250%	327	0		
354	Chief Joseph	09/1989	09/2029	7.150%	2,227	0		
355	Chief Joseph	09/1990	09/2008	8.875%	1,024	0		
356	Chief Joseph	09/1990	09/2029	7.150%	4,505	0		
357	Chief Joseph	09/1991	09/2008	8.750%	34	0		
358	Chief Joseph	09/1991	09/2008	8.750%	293	0		
359	Chief Joseph	09/1991	09/2029	8.750%	3,840	0		
360	Chief Joseph	09/1992	09/2008	8.500%	142	0		
361	Chief Joseph	09/1992	09/2008	8.500%	717	0		
362	Chief Joseph	09/1992	09/2029	8.500%	2,032	0		
363	Chief Joseph	09/1993	09/2008	7.875%	42	0		
364	Chief Joseph	09/1993	09/2008	7.875%	794	0		
365	Chief Joseph	09/1993	09/2029	7.875%	1,360	0		
366	Chief Joseph	09/1994	09/2029	7.125%	129	0		
367	Chief Joseph	09/1994	09/2029	7.125%	65	0		
368	Chief Joseph	09/1994	09/2044	7.150%	4,280	0		
369	Chief Joseph	09/1995	09/2010	7.090%	15	0		
370	Chief Joseph	09/1995	09/2045	7.150%	147	0		
371	Chief Joseph	09/1995	09/2045	7.150%	562	0		
372	Chief Joseph	09/1995	09/2045	7.150%	712	0		
373	Chief Joseph	09/1995	09/2045	7.150%	784	0		
374	Chief Joseph	09/1996	09/2031	7.150%	27	0		
375	Chief Joseph	09/1996	09/2046	7.150%	3	0		
376	Chief Joseph	09/1996	09/2046	7.150%	4	0		
377	Chief Joseph	09/1996	09/2046	7.150%	355	0		
378	Chief Joseph	09/1996	09/2046	7.150%	729	0		
379	Chief Joseph	09/1997	09/2032	7.150%	166	0		
380	Chief Joseph	09/1997	09/2047	7.150%	657	0		
381	Chief Joseph	09/2001	09/2051	5.875%	345	0		
382	Chief Joseph	09/2002	09/2052	5.500%	2	0		
383	Chief Joseph	09/2003	09/2053	5.125%	992	0		
384	Chief Joseph	09/2008	09/2058	4.875%	3,500	0		
385	Chief Joseph	09/2009	09/2059	4.375%	24,727	24,727		
386	Chief Joseph	09/2011	09/2061	3.750%	4	4		
387	Chief Joseph	09/2012	09/2062	3.375%	28	28		
388	Chief Joseph	09/2013	09/2063	2.875%	10	10		
389	Columbia Basin	09/1941	09/1991	3.000%	10,919	0		
390	Columbia Basin	09/1941	09/1991	3.000%	1,505	0		
391	Columbia Basin	09/1942	09/1992	3.000%	16,165	0		
392	Columbia Basin	09/1942	09/1992	3.000%	3,011	0		
393	Columbia Basin	09/1943	09/1993	3.000%	8,083	0		
394	Columbia Basin	09/1943	09/1993	3.000%	1,505	0		
395	Columbia Basin	09/1944	09/1994	3.000%	16,165	0		
396	Columbia Basin	09/1944	09/1994	3.000%	3,011	0		
397	Columbia Basin	09/1948	09/1998	3.000%	24,247	0		
398	Columbia Basin	09/1948	09/1998	3.000%	4,516	0		
399	Columbia Basin	09/1949	09/1999	3.000%	24,247	0		
400	Columbia Basin	09/1949	09/1999	3.000%	4,516	0		

**TABLE 12A:
HISTORICAL INVESTMENTS
FY 2023
(\$000s)**

	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
401	Columbia Basin	09/1950	09/2000	3.000%	16,165	0		
402	Columbia Basin	09/1950	09/2000	3.000%	3,011	0		
403	Columbia Basin	09/1951	09/2001	6.710%	28,255	0		
404	Columbia Basin	09/1951	09/2001	6.710%	5,790	0		
405	Columbia Basin	09/1952	09/2001	6.710%	258	0		
406	Columbia Basin	09/1952	09/2001	6.710%	48	0		
407	Columbia Basin	09/1953	09/2001	6.710%	258	0		
408	Columbia Basin	09/1953	09/2001	6.710%	48	0		
409	Columbia Basin	09/1954	09/2001	6.710%	258	0		
410	Columbia Basin	09/1954	09/2001	6.710%	48	0		
411	Columbia Basin	09/1955	09/2001	6.710%	258	0		
412	Columbia Basin	09/1955	09/2001	6.710%	48	0		
413	Columbia Basin	09/1956	09/2001	6.710%	259	0		
414	Columbia Basin	09/1956	09/2001	6.710%	48	0		
415	Columbia Basin	09/1957	09/2001	6.710%	258	0		
416	Columbia Basin	09/1957	09/2001	6.710%	48	0		
417	Columbia Basin	09/1958	09/2001	6.710%	258	0		
418	Columbia Basin	09/1958	09/2001	6.710%	48	0		
419	Columbia Basin	09/1959	09/2001	6.710%	258	0		
420	Columbia Basin	09/1959	09/2001	6.710%	48	0		
421	Columbia Basin	09/1960	09/2001	6.710%	258	0		
422	Columbia Basin	09/1960	09/2001	6.710%	48	0		
423	Columbia Basin	09/1961	09/2001	6.710%	259	0		
424	Columbia Basin	09/1961	09/2001	6.710%	48	0		
425	Columbia Basin	09/1962	09/2001	6.710%	258	0		
426	Columbia Basin	09/1962	09/2001	6.710%	48	0		
427	Columbia Basin	09/1963	09/2001	6.710%	258	0		
428	Columbia Basin	09/1963	09/2001	6.710%	48	0		
429	Columbia Basin	09/1964	09/2001	6.710%	258	0		
430	Columbia Basin	09/1964	09/2001	6.710%	48	0		
431	Columbia Basin	09/1965	09/2001	6.710%	258	0		
432	Columbia Basin	09/1965	09/2001	6.710%	48	0		
433	Columbia Basin	09/1966	09/2001	6.710%	259	0		
434	Columbia Basin	09/1966	09/2001	6.710%	48	0		
435	Columbia Basin	09/1967	09/2001	6.710%	258	0		
436	Columbia Basin	09/1967	09/2001	6.710%	48	0		
437	Columbia Basin	09/1967	09/2017	7.290%	758	0		
438	Columbia Basin	09/1968	09/2001	6.710%	258	0		
439	Columbia Basin	09/1968	09/2001	6.710%	48	0		
440	Columbia Basin	09/1969	09/2001	6.710%	258	0		
441	Columbia Basin	09/1969	09/2001	6.710%	48	0		
442	Columbia Basin	09/1970	09/2001	6.710%	258	0		
443	Columbia Basin	09/1970	09/2001	6.710%	48	0		
444	Columbia Basin	09/1971	09/2001	6.710%	259	0		
445	Columbia Basin	09/1971	09/2001	6.710%	48	0		
446	Columbia Basin	09/1972	09/2001	6.710%	258	0		
447	Columbia Basin	09/1972	09/2001	6.710%	48	0		
448	Columbia Basin	09/1973	09/2001	6.710%	258	0		
449	Columbia Basin	09/1973	09/2001	6.710%	48	0		
450	Columbia Basin	09/1974	09/2001	6.710%	258	0		
451	Columbia Basin	09/1974	09/2001	6.710%	48	0		
452	Columbia Basin	09/1975	09/2001	6.710%	258	0		
453	Columbia Basin	09/1975	09/2001	6.710%	48	0		
454	Columbia Basin	09/1976	09/2001	6.710%	259	0		
455	Columbia Basin	09/1976	09/2001	6.710%	48	0		
456	Columbia Basin	09/1977	09/2001	6.710%	258	0		
457	Columbia Basin	09/1977	09/2001	6.710%	48	0		
458	Columbia Basin	09/1978	09/2001	6.710%	258	0		
459	Columbia Basin	09/1978	09/2001	6.710%	48	0		
460	Columbia Basin	09/1979	09/2001	6.710%	258	0		
461	Columbia Basin	09/1979	09/2001	6.710%	48	0		
462	Columbia Basin	09/1980	09/2001	6.710%	258	0		
463	Columbia Basin	09/1980	09/2001	6.710%	48	0		
464	Columbia Basin	09/1981	09/2001	6.710%	259	0		
465	Columbia Basin	09/1981	09/2001	6.710%	48	0		
466	Columbia Basin	09/1982	09/2001	6.710%	258	0		
467	Columbia Basin	09/1982	09/2001	6.710%	48	0		
468	Columbia Basin	09/1983	09/2001	6.710%	258	0		
469	Columbia Basin	09/1983	09/2001	6.710%	48	0		
470	Columbia Basin	09/1984	09/2001	10.750%	7,815	0		
471	Columbia Basin	09/1984	09/2001	10.750%	1,455	0		
472	Columbia Basin	09/1985	09/2001	6.710%	236	0		
473	Columbia Basin	09/1985	09/2001	6.710%	11	0		
474	Columbia Basin	09/1985	09/2001	12.375%	7,338	0		
475	Columbia Basin	09/1985	09/2001	12.375%	362	0		
476	Columbia Basin	09/1986	09/2001	6.710%	127	0		
477	Columbia Basin	09/1987	09/2001	6.710%	13	0		
478	Columbia Basin	09/1988	09/2001	8.500%	184	0		
479	Columbia Basin	09/1988	09/2001	8.500%	2	0		
480	Columbia Basin	09/1989	09/2001	9.250%	1,166	0		

**TABLE 12A:
HISTORICAL INVESTMENTS
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(\$000s)**

	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
481	Columbia Basin	09/1990	09/2001	8.875%	928	0		
482	Columbia Basin	09/1991	09/2001	8.750%	177	0		
483	Columbia Basin	09/1991	09/2001	8.750%	1,661	0		
484	Columbia Basin	09/1992	09/2001	8.500%	445	0		
485	Columbia Basin	09/1992	09/2001	8.500%	652	0		
486	Columbia Basin	09/1993	09/2001	6.710%	792	0		
487	Columbia Basin	09/1995	09/2000	6.620%	25	0		
488	Columbia Basin	09/1995	09/2020	7.250%	206	0		
489	Columbia Basin	09/1995	09/2030	7.150%	25	0		
490	Columbia Basin	09/1995	09/2030	7.860%	20	0		
491	Columbia Basin	09/1995	09/2030	7.860%	270	0		
492	Columbia Basin	09/1995	09/2030	7.860%	321	0		
493	Columbia Basin	09/1995	09/2030	7.860%	323	0		
494	Columbia Basin	09/1995	09/2045	7.150%	287	0		
495	Columbia Basin	09/1995	09/2045	7.150%	2,511	0		
496	Columbia Basin	09/1995	09/2045	7.860%	450	0		
497	Columbia Basin	09/1995	09/2045	7.860%	450	0		
498	Columbia Basin	09/1996	09/2026	7.150%	72	0		
499	Columbia Basin	09/1996	09/2031	7.150%	109	0		
500	Columbia Basin	09/1996	09/2031	7.150%	251	0		
501	Columbia Basin	09/1996	09/2046	7.150%	426	0		
502	Columbia Basin	09/1996	09/2046	7.150%	368	0		
503	Columbia Basin	09/1997	09/2047	7.150%	3,393	0		
504	Columbia Basin	09/2001	09/2051	5.875%	69,226	0		
505	Columbia Basin	09/2005	09/2055	5.125%	10,963	0		
506	Columbia Basin	09/2006	09/2056	4.500%	1,987	0		
507	Columbia Basin	09/2007	09/2057	5.000%	929	0		
508	Columbia Basin	09/2008	09/2058	4.875%	835	0		
509	Columbia Basin	09/2009	09/2059	4.375%	1,338	1,338		
510	Columbia Basin	09/2010	09/2060	4.250%	877	877		
511	Columbia Basin	09/2011	09/2061	3.750%	1,723	1,723		
512	Columbia Basin	09/2012	09/2062	3.375%	11	11		
513	Columbia Basin	09/2013	09/2063	2.875%	3,078	3,078		
514	Columbia Basin	09/2014	09/2064	3.875%	0	0		
515	Columbia Basin	09/2015	09/2065	3.250%	0	0		
516	Columbia Basin	09/2017	09/2067	2.375%	2,865	2,865		
517	Columbia Basin	09/2018	09/2068	2.750%	17	17		
518	Columbia Basin	09/2019	09/2069	3.125%	4,130	4,221		
519	Columbia Basin	09/2020	09/2070	2.125%	202	202		
520	Columbia Basin 3rd Powerhouse	09/1975	09/2025	7.160%	47,328	0		
521	Columbia Basin 3rd Powerhouse	09/1975	09/2025	7.160%	8,702	0		
522	Columbia Basin 3rd Powerhouse	09/1976	09/2026	7.150%	41,330	0		
523	Columbia Basin 3rd Powerhouse	09/1976	09/2026	7.150%	8,037	0		
524	Columbia Basin 3rd Powerhouse	09/1977	09/2027	7.150%	42,764	0		
525	Columbia Basin 3rd Powerhouse	09/1977	09/2027	7.150%	7,964	0		
526	Columbia Basin 3rd Powerhouse	09/1978	09/2028	7.150%	42,399	0		
527	Columbia Basin 3rd Powerhouse	09/1978	09/2028	7.150%	7,896	0		
528	Columbia Basin 3rd Powerhouse	09/1979	09/2029	7.150%	84,118	0		
529	Columbia Basin 3rd Powerhouse	09/1979	09/2029	7.150%	15,666	0		
530	Columbia Basin 3rd Powerhouse	09/1983	09/2033	7.150%	712	0		
531	Columbia Basin 3rd Powerhouse	09/1983	09/2033	7.150%	13,003	0		
532	Columbia Basin 3rd Powerhouse	09/1984	09/2033	7.150%	16,965	0		
533	Columbia Basin 3rd Powerhouse	09/1984	09/2033	7.150%	13,192	0		
534	Columbia Basin 3rd Powerhouse	09/1984	09/2033	7.150%	3,160	0		
535	Columbia Basin 3rd Powerhouse	09/1985	09/2033	7.150%	2,060	0		
536	Columbia Basin 3rd Powerhouse	09/1985	09/2033	7.150%	41,772	0		
537	Columbia Basin 3rd Powerhouse	09/1985	09/2033	7.150%	107	0		
538	Columbia Basin 3rd Powerhouse	09/1986	09/2033	7.150%	1,851	0		
539	Columbia Basin 3rd Powerhouse	09/1986	09/2033	7.150%	15,538	0		
540	Columbia Basin 3rd Powerhouse	09/1987	09/2033	7.150%	1,730	0		
541	Columbia Basin 3rd Powerhouse	09/1987	09/2033	7.150%	14,439	0		
542	Columbia Basin 3rd Powerhouse	09/1988	09/2033	7.150%	2,294	0		
543	Columbia Basin 3rd Powerhouse	09/1988	09/2033	7.150%	4,351	0		
544	Columbia Basin 3rd Powerhouse	09/1989	09/2033	7.150%	10,902	0		
545	Columbia Basin 3rd Powerhouse	09/1990	09/2033	7.150%	6,383	0		
546	Columbia Basin 3rd Powerhouse	09/1994	09/2044	7.150%	12,631	0		
547	Columbia River Fish Mitigation	09/1991	09/2041	8.500%	3,969	0		
548	Columbia River Fish Mitigation	09/1992	09/2042	8.500%	874	0		
549	Columbia River Fish Mitigation	09/1993	09/2043	8.500%	85,846	0		
550	Columbia River Fish Mitigation	09/1994	09/2044	8.500%	39,454	0		
551	Columbia River Fish Mitigation	09/1995	09/2045	7.150%	43,343	0		
552	Columbia River Fish Mitigation	09/1996	09/2046	7.150%	2,431	0		
553	Columbia River Fish Mitigation	09/1999	09/2049	5.375%	14,115	0		
554	Columbia River Fish Mitigation	09/2000	09/2050	6.125%	47,006	0		
555	Columbia River Fish Mitigation	09/2001	09/2051	5.875%	6,168	0		
556	Columbia River Fish Mitigation	09/2002	09/2052	5.500%	8,797	0		
557	Columbia River Fish Mitigation	09/2003	09/2053	5.125%	68,440	0		
558	Columbia River Fish Mitigation	09/2004	09/2054	5.375%	60,581	0		
559	Columbia River Fish Mitigation	09/2005	09/2055	5.125%	52,039	0		
560	Columbia River Fish Mitigation	09/2006	09/2056	4.500%	366,395	142,720		

**TABLE 12A:
HISTORICAL INVESTMENTS
FY 2023
(\$000s)**

	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
561	Columbia River Fish Mitigation	09/2007	09/2057	5.000%	53,525	0		
562	Columbia River Fish Mitigation	09/2008	09/2058	4.875%	36,554	0		
563	Columbia River Fish Mitigation	09/2009	09/2059	4.375%	103,203	103,203		
564	Columbia River Fish Mitigation	09/2010	09/2060	4.250%	56,832	56,832		
565	Columbia River Fish Mitigation	09/2011	09/2061	3.750%	106,014	106,014		
566	Columbia River Fish Mitigation	09/2012	09/2062	3.375%	101,616	101,616		
567	Columbia River Fish Mitigation	09/2013	09/2063	2.875%	95,274	95,274		
568	Columbia River Fish Mitigation	09/2014	09/2064	3.875%	110,071	110,071		
569	Columbia River Fish Mitigation	09/2015	09/2065	3.250%	64,291	64,291		
570	Columbia River Fish Mitigation	09/2016	09/2066	3.000%	30,066	30,066		
571	Columbia River Fish Mitigation	09/2017	09/2067	2.375%	57,719	57,719		
572	Columbia River Fish Mitigation	09/2018	09/2068	2.750%	48,446	48,446		
573	Columbia River Fish Mitigation	09/2019	09/2069	3.125%	49,505	48,042		
574	Columbia River Fish Mitigation	09/2020	09/2070	2.125%	82,394	82,394		
575	Cougar	09/1964	09/2014	7.230%	10,414	0		
576	Cougar	09/1965	09/2014	7.230%	20	0		
577	Cougar	09/1966	09/2014	7.230%	20	0		
578	Cougar	09/1967	09/2014	7.230%	20	0		
579	Cougar	09/1968	09/2014	7.230%	20	0		
580	Cougar	09/1969	09/2014	7.230%	20	0		
581	Cougar	09/1970	09/2014	7.230%	20	0		
582	Cougar	09/1971	09/2014	7.230%	20	0		
583	Cougar	09/1972	09/2014	7.230%	20	0		
584	Cougar	09/1973	09/2014	7.230%	20	0		
585	Cougar	09/1974	09/2014	7.230%	19	0		
586	Cougar	09/1975	09/2014	7.230%	20	0		
587	Cougar	09/1976	09/2014	7.230%	20	0		
588	Cougar	09/1977	09/2014	7.230%	20	0		
589	Cougar	09/1978	09/2014	7.230%	20	0		
590	Cougar	09/1979	09/2014	7.230%	20	0		
591	Cougar	09/1980	09/2014	7.230%	20	0		
592	Cougar	09/1981	09/2014	7.230%	20	0		
593	Cougar	09/1982	09/2014	7.230%	20	0		
594	Cougar	09/1983	09/2014	7.230%	20	0		
595	Cougar	09/1984	09/2014	10.750%	1	0		
596	Cougar	09/1985	09/2014	7.230%	1	0		
597	Cougar	09/1986	09/2014	7.230%	104	0		
598	Cougar	09/1986	09/2014	11.375%	55	0		
599	Cougar	09/1987	09/2014	7.230%	45	0		
600	Cougar	09/1988	09/2014	8.500%	2	0		
601	Cougar	09/1989	09/2014	9.250%	6	0		
602	Cougar	09/1990	09/2014	8.875%	10	0		
603	Cougar	09/1991	09/2014	8.750%	1,015	0		
604	Cougar	09/1991	09/2014	8.750%	1	0		
605	Cougar	09/1992	09/2014	8.500%	2	0		
606	Cougar	09/1993	09/2014	7.875%	539	0		
607	Cougar	09/1994	09/2019	7.125%	31	0		
608	Cougar	09/1995	09/2000	7.330%	3	0		
609	Cougar	09/1997	09/2047	7.150%	26	0		
610	Cougar	09/2004	09/2054	5.375%	3,622	0		
611	Cougar	09/2005	09/2055	5.125%	8,130	0		
612	Cougar	09/2006	09/2056	4.500%	109	0		
613	Cougar	09/2007	09/2057	5.000%	120	0		
614	Cougar	09/2009	09/2059	4.375%	121	121		
615	Cougar	09/2010	09/2060	4.250%	59	59		
616	Cougar	09/2011	09/2061	3.750%	282	282		
617	Cougar	09/2012	09/2062	3.375%	139	139		
618	Cougar	09/2013	09/2063	2.875%	4,088	4,088		
619	Cougar	09/2014	09/2064	3.875%	12	12		
620	Cougar	09/2016	09/2066	3.000%	2	2		
621	Cougar	09/2017	09/2067	2.375%	2	2		
622	Cougar	09/2020	09/2070	2.125%	267	267		
623	Detroit Lake/Big Cliff	09/1953	09/2003	6.840%	12,533	0		
624	Detroit Lake/Big Cliff	09/1954	09/2004	6.880%	20,162	0		
625	Detroit Lake/Big Cliff	09/1955	09/2004	6.880%	18	0		
626	Detroit Lake/Big Cliff	09/1956	09/2004	6.880%	19	0		
627	Detroit Lake/Big Cliff	09/1957	09/2004	6.880%	18	0		
628	Detroit Lake/Big Cliff	09/1958	09/2004	6.880%	19	0		
629	Detroit Lake/Big Cliff	09/1959	09/2004	6.880%	18	0		
630	Detroit Lake/Big Cliff	09/1960	09/2004	6.880%	19	0		
631	Detroit Lake/Big Cliff	09/1961	09/2004	6.880%	18	0		
632	Detroit Lake/Big Cliff	09/1962	09/2004	6.880%	19	0		
633	Detroit Lake/Big Cliff	09/1963	09/2004	6.880%	18	0		
634	Detroit Lake/Big Cliff	09/1964	09/2004	6.880%	19	0		
635	Detroit Lake/Big Cliff	09/1965	09/2004	6.880%	18	0		
636	Detroit Lake/Big Cliff	09/1966	09/2004	6.880%	19	0		
637	Detroit Lake/Big Cliff	09/1967	09/2004	6.880%	18	0		
638	Detroit Lake/Big Cliff	09/1968	09/2004	6.880%	19	0		
639	Detroit Lake/Big Cliff	09/1969	09/2004	6.880%	18	0		
640	Detroit Lake/Big Cliff	09/1970	09/2004	6.880%	19	0		

**TABLE 12A:
HISTORICAL INVESTMENTS
FY 2023
(\$000s)**

	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
641	Detroit Lake/Big Cliff	09/1971	09/2004	6.880%	18	0		
642	Detroit Lake/Big Cliff	09/1972	09/2004	6.880%	19	0		
643	Detroit Lake/Big Cliff	09/1973	09/2004	6.880%	18	0		
644	Detroit Lake/Big Cliff	09/1974	09/2004	6.880%	19	0		
645	Detroit Lake/Big Cliff	09/1975	09/2004	6.880%	18	0		
646	Detroit Lake/Big Cliff	09/1976	09/2004	6.880%	19	0		
647	Detroit Lake/Big Cliff	09/1977	09/2004	6.880%	18	0		
648	Detroit Lake/Big Cliff	09/1978	09/2004	6.880%	19	0		
649	Detroit Lake/Big Cliff	09/1979	09/2004	6.880%	18	0		
650	Detroit Lake/Big Cliff	09/1980	09/2004	6.880%	19	0		
651	Detroit Lake/Big Cliff	09/1981	09/2004	6.880%	18	0		
652	Detroit Lake/Big Cliff	09/1982	09/2004	6.880%	19	0		
653	Detroit Lake/Big Cliff	09/1983	09/2004	6.880%	18	0		
654	Detroit Lake/Big Cliff	09/1984	09/2004	10.750%	21	0		
655	Detroit Lake/Big Cliff	09/1985	09/2004	6.880%	6	0		
656	Detroit Lake/Big Cliff	09/1986	09/2004	11.375%	38	0		
657	Detroit Lake/Big Cliff	09/1987	09/2004	6.880%	3	0		
658	Detroit Lake/Big Cliff	09/1987	09/2004	8.875%	233	0		
659	Detroit Lake/Big Cliff	09/1988	09/2004	8.500%	68	0		
660	Detroit Lake/Big Cliff	09/1989	09/2004	9.250%	26	0		
661	Detroit Lake/Big Cliff	09/1990	09/2004	8.875%	115	0		
662	Detroit Lake/Big Cliff	09/1991	09/2004	8.750%	9	0		
663	Detroit Lake/Big Cliff	09/1991	09/2004	8.750%	20	0		
664	Detroit Lake/Big Cliff	09/1992	09/2004	8.500%	8	0		
665	Detroit Lake/Big Cliff	09/1993	09/2004	7.875%	211	0		
666	Detroit Lake/Big Cliff	09/1994	09/1999	7.125%	7	0		
667	Detroit Lake/Big Cliff	09/1995	09/2000	7.330%	13	0		
668	Detroit Lake/Big Cliff	09/1995	09/2045	7.150%	38	0		
669	Detroit Lake/Big Cliff	09/1996	09/2006	6.950%	24	0		
670	Detroit Lake/Big Cliff	09/2001	09/2051	5.875%	282	0		
671	Detroit Lake/Big Cliff	09/2002	09/2052	5.500%	18	0		
672	Detroit Lake/Big Cliff	09/2003	09/2053	5.125%	223	0		
673	Detroit Lake/Big Cliff	09/2005	09/2055	5.125%	1,031	0		
674	Detroit Lake/Big Cliff	09/2013	09/2063	2.875%	528	528		
675	Detroit Lake/Big Cliff	09/2014	09/2064	3.875%	18	18		
676	Detroit Lake/Big Cliff	09/2016	09/2066	3.000%	31	31		
677	Detroit Lake/Big Cliff	09/2019	09/2069	3.125%	2	2		
678	Dworshak	09/1973	09/2023	7.190%	138,443	0		
679	Dworshak	09/1973	09/2023	7.190%	836	0		
680	Dworshak	09/1974	09/2023	7.190%	515	0		
681	Dworshak	09/1974	09/2023	7.190%	3	0		
682	Dworshak	09/1975	09/2023	7.190%	518	0		
683	Dworshak	09/1975	09/2023	7.190%	3	0		
684	Dworshak	09/1976	09/2023	7.190%	518	0		
685	Dworshak	09/1976	09/2023	7.190%	3	0		
686	Dworshak	09/1977	09/2023	7.190%	518	0		
687	Dworshak	09/1977	09/2023	7.190%	3	0		
688	Dworshak	09/1978	09/2023	7.190%	518	0		
689	Dworshak	09/1978	09/2023	7.190%	3	0		
690	Dworshak	09/1979	09/2023	7.190%	518	0		
691	Dworshak	09/1979	09/2023	7.190%	3	0		
692	Dworshak	09/1980	09/2023	7.190%	518	0		
693	Dworshak	09/1980	09/2023	7.190%	3	0		
694	Dworshak	09/1981	09/2023	7.190%	518	0		
695	Dworshak	09/1981	09/2023	7.190%	3	0		
696	Dworshak	09/1982	09/2023	7.190%	518	0		
697	Dworshak	09/1982	09/2023	7.190%	3	0		
698	Dworshak	09/1983	09/2023	7.190%	523	0		
699	Dworshak	09/1983	09/2023	7.190%	3	0		
700	Dworshak	09/1984	09/2023	10.750%	2,499	0		
701	Dworshak	09/1984	09/2023	10.750%	15	0		
702	Dworshak	09/1985	09/2023	7.190%	1,141	0		
703	Dworshak	09/1986	09/2023	7.190%	197	0		
704	Dworshak	09/1987	09/2023	7.190%	36	0		
705	Dworshak	09/1987	09/2023	8.875%	65	0		
706	Dworshak	09/1988	09/2023	8.500%	61	0		
707	Dworshak	09/1989	09/2023	9.250%	63	0		
708	Dworshak	09/1990	09/2023	8.875%	245	0		
709	Dworshak	09/1990	09/2023	8.875%	24	0		
710	Dworshak	09/1991	09/2023	8.750%	224	0		
711	Dworshak	09/1992	09/2023	2.625%	4	0		
712	Dworshak	09/1992	09/2023	8.500%	28	0		
713	Dworshak	09/1992	09/2023	8.500%	24	0		
714	Dworshak	09/1993	09/2023	7.875%	41	0		
715	Dworshak	09/1993	09/2023	7.875%	1,872	0		
716	Dworshak	09/1994	09/2029	7.125%	1,351	0		
717	Dworshak	09/1994	09/2029	7.125%	964	0		
718	Dworshak	09/1995	09/2020	7.930%	55	0		
719	Dworshak	09/1995	09/2030	7.150%	218	0		
720	Dworshak	09/1995	09/2045	7.150%	1,162	0		

**TABLE 12A:
HISTORICAL INVESTMENTS
FY 2023
(\$000s)**

	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
721	Dworshak	09/1996	09/2011	7.130%	107	0		
722	Dworshak	09/1996	09/2021	7.230%	26	0		
723	Dworshak	09/1996	09/2021	7.230%	184	0		
724	Dworshak	09/1996	09/2031	7.150%	6	0		
725	Dworshak	09/1996	09/2031	7.150%	203	0		
726	Dworshak	09/1996	09/2046	7.150%	3	0		
727	Dworshak	09/1996	09/2046	7.150%	4	0		
728	Dworshak	09/1996	09/2046	7.150%	46	0		
729	Dworshak	09/1997	09/2047	7.150%	7,588	0		
730	Dworshak	09/1999	09/2049	5.375%	630	0		
731	Dworshak	09/2002	09/2052	5.500%	199	0		
732	Dworshak	09/2003	09/2053	5.125%	761	0		
733	Dworshak	09/2005	09/2055	5.125%	713	0		
734	Dworshak	09/2006	09/2056	4.500%	73	73		
735	Dworshak	09/2008	09/2058	4.875%	10	0		
736	Dworshak	09/2009	09/2059	4.375%	2,307	2,307		
737	Dworshak	09/2014	09/2064	3.875%	50	0		
738	Dworshak	09/2020	09/2070	2.125%	29	29		
739	Green Peter/Foster	09/1967	09/2017	7.290%	24,445	0		
740	Green Peter/Foster	09/1968	09/2018	7.280%	12,180	0		
741	Green Peter/Foster	09/1969	09/2018	7.280%	39	0		
742	Green Peter/Foster	09/1970	09/2018	7.280%	40	0		
743	Green Peter/Foster	09/1971	09/2018	7.280%	39	0		
744	Green Peter/Foster	09/1972	09/2018	7.280%	39	0		
745	Green Peter/Foster	09/1973	09/2018	7.280%	39	0		
746	Green Peter/Foster	09/1974	09/2018	7.280%	39	0		
747	Green Peter/Foster	09/1975	09/2018	7.280%	39	0		
748	Green Peter/Foster	09/1976	09/2018	7.280%	39	0		
749	Green Peter/Foster	09/1977	09/2018	7.280%	39	0		
750	Green Peter/Foster	09/1978	09/2018	7.280%	39	0		
751	Green Peter/Foster	09/1979	09/2018	7.280%	39	0		
752	Green Peter/Foster	09/1980	09/2018	7.280%	40	0		
753	Green Peter/Foster	09/1981	09/2018	7.280%	39	0		
754	Green Peter/Foster	09/1982	09/2018	7.280%	39	0		
755	Green Peter/Foster	09/1983	09/2018	7.280%	39	0		
756	Green Peter/Foster	09/1984	09/2018	10.750%	15	0		
757	Green Peter/Foster	09/1985	09/2018	7.280%	16	0		
758	Green Peter/Foster	09/1986	09/2018	7.280%	3	0		
759	Green Peter/Foster	09/1986	09/2018	11.375%	3	0		
760	Green Peter/Foster	09/1987	09/2018	7.280%	1	0		
761	Green Peter/Foster	09/1987	09/2018	8.875%	2	0		
762	Green Peter/Foster	09/1988	09/2018	8.500%	13	0		
763	Green Peter/Foster	09/1989	09/2018	9.250%	24	0		
764	Green Peter/Foster	09/1990	09/2018	8.875%	5	0		
765	Green Peter/Foster	09/1991	09/2018	8.750%	48	0		
766	Green Peter/Foster	09/1992	09/2018	8.500%	2	0		
767	Green Peter/Foster	09/1993	09/2018	7.875%	41	0		
768	Green Peter/Foster	09/1994	09/1999	7.125%	6	0		
769	Green Peter/Foster	09/1995	09/2000	7.330%	4	0		
770	Green Peter/Foster	09/1995	09/2020	7.250%	11	0		
771	Green Peter/Foster	09/1995	09/2020	7.250%	24	0		
772	Green Peter/Foster	09/1996	09/2046	7.150%	26	0		
773	Green Peter/Foster	09/2001	09/2051	5.875%	200	0		
774	Green Peter/Foster	09/2011	09/2061	3.750%	87	87		
775	Green Peter/Foster	09/2012	09/2062	3.375%	28	28		
776	Green Peter/Foster	09/2014	09/2064	3.875%	385	385		
777	Green Peter/Foster	09/2015	09/2065	3.250%	68	68		
778	Green Peter/Foster	09/2016	09/2066	3.000%	70	70		
779	Green Peter/Foster	09/2019	09/2069	3.125%	10	10		
780	Green Peter/Foster	09/2020	09/2070	2.125%	1	1		
781	Hills Creek	09/1962	09/2012	7.160%	10,353	0		
782	Hills Creek	09/1963	09/2012	7.160%	12	0		
783	Hills Creek	09/1964	09/2012	7.160%	13	0		
784	Hills Creek	09/1965	09/2012	7.160%	13	0		
785	Hills Creek	09/1966	09/2012	7.160%	13	0		
786	Hills Creek	09/1967	09/2012	7.160%	13	0		
787	Hills Creek	09/1968	09/2012	7.160%	13	0		
788	Hills Creek	09/1969	09/2012	7.160%	13	0		
789	Hills Creek	09/1970	09/2012	7.160%	13	0		
790	Hills Creek	09/1971	09/2012	7.160%	13	0		
791	Hills Creek	09/1972	09/2012	7.160%	13	0		
792	Hills Creek	09/1973	09/2012	7.160%	13	0		
793	Hills Creek	09/1974	09/2012	7.160%	13	0		
794	Hills Creek	09/1975	09/2012	7.160%	13	0		
795	Hills Creek	09/1976	09/2012	7.160%	13	0		
796	Hills Creek	09/1977	09/2012	7.160%	13	0		
797	Hills Creek	09/1978	09/2012	7.160%	13	0		
798	Hills Creek	09/1979	09/2012	7.160%	13	0		
799	Hills Creek	09/1980	09/2012	7.160%	13	0		
800	Hills Creek	09/1981	09/2012	7.160%	13	0		

**TABLE 12A:
HISTORICAL INVESTMENTS
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(\$000s)**

	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
801	Hills Creek	09/1982	09/2012	7.160%	13	0		
802	Hills Creek	09/1983	09/2012	7.160%	13	0		
803	Hills Creek	09/1984	09/2012	10.750%	52	0		
804	Hills Creek	09/1985	09/2012	7.160%	6	0		
805	Hills Creek	09/1987	09/2012	8.875%	3	0		
806	Hills Creek	09/1988	09/2012	8.500%	3	0		
807	Hills Creek	09/1990	09/2012	8.875%	3	0		
808	Hills Creek	09/1991	09/2012	8.750%	17	0		
809	Hills Creek	09/1992	09/2012	8.500%	1	0		
810	Hills Creek	09/1993	09/2012	7.875%	13	0		
811	Hills Creek	09/1996	09/2046	7.150%	28	0		
812	Hills Creek	09/2000	09/2050	6.125%	2,630	0		
813	Hills Creek	09/2001	09/2051	5.875%	8	0		
814	Hills Creek	09/2002	09/2052	5.500%	2	0		
815	Hills Creek	09/2005	09/2055	5.125%	46	0		
816	Hills Creek	09/2011	09/2061	3.750%	12	12		
817	Hills Creek	09/2012	09/2062	3.375%	142	142		
818	Hungry Horse Dam	09/1953	09/2003	6.840%	75,076	0		
819	Hungry Horse Dam	09/1953	09/2003	6.840%	2,126	0		
820	Hungry Horse Dam	09/1954	09/2003	6.840%	17	0		
821	Hungry Horse Dam	09/1954	09/2003	6.840%	1	0		
822	Hungry Horse Dam	09/1955	09/2003	6.840%	17	0		
823	Hungry Horse Dam	09/1955	09/2003	6.840%	1	0		
824	Hungry Horse Dam	09/1956	09/2003	6.840%	17	0		
825	Hungry Horse Dam	09/1956	09/2003	6.840%	1	0		
826	Hungry Horse Dam	09/1957	09/2003	6.840%	18	0		
827	Hungry Horse Dam	09/1957	09/2003	6.840%	1	0		
828	Hungry Horse Dam	09/1958	09/2003	6.840%	18	0		
829	Hungry Horse Dam	09/1958	09/2003	6.840%	1	0		
830	Hungry Horse Dam	09/1959	09/2003	6.840%	18	0		
831	Hungry Horse Dam	09/1959	09/2003	6.840%	1	0		
832	Hungry Horse Dam	09/1960	09/2003	6.840%	18	0		
833	Hungry Horse Dam	09/1960	09/2003	6.840%	1	0		
834	Hungry Horse Dam	09/1961	09/2003	6.840%	18	0		
835	Hungry Horse Dam	09/1961	09/2003	6.840%	1	0		
836	Hungry Horse Dam	09/1962	09/2003	6.840%	18	0		
837	Hungry Horse Dam	09/1962	09/2003	6.840%	1	0		
838	Hungry Horse Dam	09/1963	09/2003	6.840%	18	0		
839	Hungry Horse Dam	09/1963	09/2003	6.840%	1	0		
840	Hungry Horse Dam	09/1964	09/2003	6.840%	17	0		
841	Hungry Horse Dam	09/1964	09/2003	6.840%	1	0		
842	Hungry Horse Dam	09/1965	09/2003	6.840%	17	0		
843	Hungry Horse Dam	09/1965	09/2003	6.840%	1	0		
844	Hungry Horse Dam	09/1966	09/2003	6.840%	17	0		
845	Hungry Horse Dam	09/1966	09/2003	6.840%	1	0		
846	Hungry Horse Dam	09/1967	09/2003	6.840%	18	0		
847	Hungry Horse Dam	09/1967	09/2003	6.840%	1	0		
848	Hungry Horse Dam	09/1968	09/2003	6.840%	18	0		
849	Hungry Horse Dam	09/1968	09/2003	6.840%	1	0		
850	Hungry Horse Dam	09/1969	09/2003	6.840%	18	0		
851	Hungry Horse Dam	09/1969	09/2003	6.840%	1	0		
852	Hungry Horse Dam	09/1970	09/2003	6.840%	18	0		
853	Hungry Horse Dam	09/1970	09/2003	6.840%	1	0		
854	Hungry Horse Dam	09/1971	09/2003	6.840%	18	0		
855	Hungry Horse Dam	09/1971	09/2003	6.840%	1	0		
856	Hungry Horse Dam	09/1972	09/2003	6.840%	18	0		
857	Hungry Horse Dam	09/1972	09/2003	6.840%	1	0		
858	Hungry Horse Dam	09/1973	09/2003	6.840%	18	0		
859	Hungry Horse Dam	09/1973	09/2003	6.840%	1	0		
860	Hungry Horse Dam	09/1974	09/2003	6.840%	17	0		
861	Hungry Horse Dam	09/1974	09/2003	6.840%	1	0		
862	Hungry Horse Dam	09/1975	09/2003	6.840%	17	0		
863	Hungry Horse Dam	09/1975	09/2003	6.840%	1	0		
864	Hungry Horse Dam	09/1976	09/2003	6.840%	10	0		
865	Hungry Horse Dam	09/1976	09/2003	6.840%	1	0		
866	Hungry Horse Dam	09/1977	09/2003	6.840%	18	0		
867	Hungry Horse Dam	09/1977	09/2003	6.840%	1	0		
868	Hungry Horse Dam	09/1978	09/2003	6.840%	18	0		
869	Hungry Horse Dam	09/1978	09/2003	6.840%	1	0		
870	Hungry Horse Dam	09/1979	09/2003	6.840%	18	0		
871	Hungry Horse Dam	09/1979	09/2003	6.840%	1	0		
872	Hungry Horse Dam	09/1980	09/2003	6.840%	18	0		
873	Hungry Horse Dam	09/1980	09/2003	6.840%	1	0		
874	Hungry Horse Dam	09/1981	09/2003	6.840%	22	0		
875	Hungry Horse Dam	09/1981	09/2003	6.840%	1	0		
876	Hungry Horse Dam	09/1982	09/2003	6.840%	1	0		
877	Hungry Horse Dam	09/1983	09/2003	6.840%	12	0		
878	Hungry Horse Dam	09/1983	09/2003	6.840%	1	0		
879	Hungry Horse Dam	09/1984	09/2003	10.750%	32	0		
880	Hungry Horse Dam	09/1984	09/2003	10.750%	1	0		

**TABLE 12A:
HISTORICAL INVESTMENTS
FY 2023
(\$000s)**

	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
881	Hungry Horse Dam	09/1985	09/2003	12.375%	36	0		
882	Hungry Horse Dam	09/1985	09/2003	12.375%	37	0		
883	Hungry Horse Dam	09/1989	09/2003	9.250%	101	0		
884	Hungry Horse Dam	09/1990	09/2003	8.875%	58	0		
885	Hungry Horse Dam	09/1991	09/2003	8.750%	19	0		
886	Hungry Horse Dam	09/1992	09/2003	8.500%	9	0		
887	Hungry Horse Dam	09/1993	09/2003	7.875%	4,136	0		
888	Hungry Horse Dam	09/1993	09/2003	7.875%	2	0		
889	Hungry Horse Dam	09/1994	09/2019	7.125%	56	0		
890	Hungry Horse Dam	09/1995	09/2000	6.620%	156	0		
891	Hungry Horse Dam	09/1995	09/2000	6.620%	84	0		
892	Hungry Horse Dam	09/1995	09/2020	7.930%	450	0		
893	Hungry Horse Dam	09/1995	09/2030	7.150%	536	0		
894	Hungry Horse Dam	09/1995	09/2030	7.150%	1,198	0		
895	Hungry Horse Dam	09/1995	09/2045	7.150%	6,190	0		
896	Hungry Horse Dam	09/1995	09/2045	7.860%	14,354	0		
897	Hungry Horse Dam	09/1996	09/2046	7.150%	15	0		
898	Hungry Horse Dam	09/1996	09/2046	7.150%	2	0		
899	Hungry Horse Dam	09/1997	09/2007	6.950%	154	0		
900	Hungry Horse Dam	09/1997	09/2047	7.150%	111	0		
901	Hungry Horse Dam	09/2001	09/2051	5.875%	552	0		
902	Hungry Horse Dam	09/2005	09/2055	5.125%	2,951	0		
903	Hungry Horse Dam	09/2007	09/2057	5.000%	294	0		
904	Hungry Horse Dam	09/2008	09/2058	4.875%	76	0		
905	Hungry Horse Dam	09/2009	09/2059	4.375%	60	60		
906	Hungry Horse Dam	09/2010	09/2060	4.250%	779	779		
907	Hungry Horse Dam	09/2011	09/2061	3.750%	17	496		
908	Hungry Horse Dam	09/2012	09/2062	3.375%	0	0		
909	Hungry Horse Dam	09/2014	09/2064	3.875%	0	0		
910	Hungry Horse Dam	09/2015	09/2065	3.250%	0	0		
911	Ice Harbor	09/1962	09/2012	7.160%	59,699	0		
912	Ice Harbor	09/1962	09/2012	7.160%	664	0		
913	Ice Harbor	09/1963	09/2012	7.160%	46	0		
914	Ice Harbor	09/1963	09/2012	7.160%	1	0		
915	Ice Harbor	09/1964	09/2012	7.160%	46	0		
916	Ice Harbor	09/1964	09/2012	7.160%	1	0		
917	Ice Harbor	09/1965	09/2012	7.160%	46	0		
918	Ice Harbor	09/1965	09/2012	7.160%	1	0		
919	Ice Harbor	09/1966	09/2012	7.160%	46	0		
920	Ice Harbor	09/1966	09/2012	7.160%	1	0		
921	Ice Harbor	09/1967	09/2012	7.160%	46	0		
922	Ice Harbor	09/1967	09/2012	7.160%	1	0		
923	Ice Harbor	09/1968	09/2012	7.160%	46	0		
924	Ice Harbor	09/1968	09/2012	7.160%	1	0		
925	Ice Harbor	09/1969	09/2012	7.160%	46	0		
926	Ice Harbor	09/1969	09/2012	7.160%	1	0		
927	Ice Harbor	09/1970	09/2012	7.160%	46	0		
928	Ice Harbor	09/1970	09/2012	7.160%	1	0		
929	Ice Harbor	09/1971	09/2012	7.160%	46	0		
930	Ice Harbor	09/1971	09/2012	7.160%	1	0		
931	Ice Harbor	09/1972	09/2012	7.160%	46	0		
932	Ice Harbor	09/1972	09/2012	7.160%	1	0		
933	Ice Harbor	09/1973	09/2012	7.160%	46	0		
934	Ice Harbor	09/1973	09/2012	7.160%	1	0		
935	Ice Harbor	09/1974	09/2012	7.160%	46	0		
936	Ice Harbor	09/1974	09/2012	7.160%	1	0		
937	Ice Harbor	09/1975	09/2012	7.160%	46	0		
938	Ice Harbor	09/1975	09/2012	7.160%	1	0		
939	Ice Harbor	09/1976	09/2012	7.160%	46	0		
940	Ice Harbor	09/1976	09/2012	7.160%	1	0		
941	Ice Harbor	09/1976	09/2026	7.150%	20,472	0		
942	Ice Harbor	09/1976	09/2026	7.150%	228	0		
943	Ice Harbor	09/1977	09/2012	7.160%	46	0		
944	Ice Harbor	09/1977	09/2012	7.160%	1	0		
945	Ice Harbor	09/1978	09/2012	7.160%	46	0		
946	Ice Harbor	09/1978	09/2012	7.160%	1	0		
947	Ice Harbor	09/1979	09/2012	7.160%	46	0		
948	Ice Harbor	09/1979	09/2012	7.160%	1	0		
949	Ice Harbor	09/1980	09/2012	7.160%	46	0		
950	Ice Harbor	09/1980	09/2012	7.160%	1	0		
951	Ice Harbor	09/1981	09/2012	7.160%	46	0		
952	Ice Harbor	09/1981	09/2012	7.160%	1	0		
953	Ice Harbor	09/1982	09/2012	7.160%	46	0		
954	Ice Harbor	09/1982	09/2012	7.160%	1	0		
955	Ice Harbor	09/1983	09/2012	7.160%	46	0		
956	Ice Harbor	09/1983	09/2012	7.160%	1	0		
957	Ice Harbor	09/1985	09/2012	7.160%	41	0		
958	Ice Harbor	09/1985	09/2026	7.150%	21	0		
959	Ice Harbor	09/1986	09/2012	7.160%	137	0		
960	Ice Harbor	09/1987	09/2012	7.160%	3	0		

**TABLE 12A:
HISTORICAL INVESTMENTS
FY 2023
(\$000s)**

	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
961	Ice Harbor	09/1987	09/2012	8.875%	71	0		
962	Ice Harbor	09/1987	09/2012	8.875%	1	0		
963	Ice Harbor	09/1988	09/2012	8.500%	8	0		
964	Ice Harbor	09/1988	09/2012	8.500%	57	0		
965	Ice Harbor	09/1989	09/2012	9.250%	51	0		
966	Ice Harbor	09/1990	09/2012	8.875%	427	0		
967	Ice Harbor	09/1991	09/2012	8.750%	348	0		
968	Ice Harbor	09/1992	09/2012	8.500%	177	0		
969	Ice Harbor	09/1993	09/2012	7.875%	3,192	0		
970	Ice Harbor	09/1993	09/2012	7.875%	1,645	0		
971	Ice Harbor	09/1994	09/2029	7.125%	328	0		
972	Ice Harbor	09/1994	09/2029	7.125%	520	0		
973	Ice Harbor	09/1995	09/2000	7.330%	2	0		
974	Ice Harbor	09/1995	09/2019	7.270%	84	0		
975	Ice Harbor	09/1995	09/2019	7.270%	171	0		
976	Ice Harbor	09/1995	09/2019	7.270%	849	0		
977	Ice Harbor	09/1996	09/2031	7.150%	78	0		
978	Ice Harbor	09/1996	09/2041	7.150%	371	0		
979	Ice Harbor	09/1997	09/2022	7.230%	66	0		
980	Ice Harbor	09/1997	09/2047	7.150%	67	0		
981	Ice Harbor	09/1999	09/2049	5.375%	5,516	0		
982	Ice Harbor	09/2000	09/2050	6.125%	548	0		
983	Ice Harbor	09/2001	09/2051	5.875%	764	0		
984	Ice Harbor	09/2002	09/2052	5.500%	1,014	0		
985	Ice Harbor	09/2003	09/2053	5.125%	50	0		
986	Ice Harbor	09/2004	09/2054	5.375%	3,321	0		
987	Ice Harbor	09/2008	09/2058	4.875%	14	0		
988	Ice Harbor	09/2009	09/2059	4.375%	2,615	2,615		
989	Ice Harbor	09/2010	09/2060	4.250%	207	207		
990	Ice Harbor	09/2011	09/2061	3.750%	819	819		
991	Ice Harbor	09/2012	09/2062	3.375%	115	115		
992	Ice Harbor	09/2015	09/2065	3.250%	3,175	3,175		
993	Ice Harbor	09/2016	09/2066	3.000%	558	558		
994	Ice Harbor	09/2019	09/2069	3.125%	630	630		
995	John Day	09/1968	09/2018	7.280%	27,254	0		
996	John Day	09/1969	09/2019	7.270%	96,104	0		
997	John Day	09/1970	09/2020	7.250%	23,656	0		
998	John Day	09/1971	09/2021	7.230%	34,974	0		
999	John Day	09/1972	09/2022	7.210%	11,502	0		
1000	John Day	09/1984	09/2022	10.750%	3,677	0		
1001	John Day	09/1985	09/2022	7.210%	6,490	0		
1002	John Day	09/1985	09/2022	12.375%	1,209	0		
1003	John Day	09/1986	09/2022	7.210%	3,227	0		
1004	John Day	09/1986	09/2022	11.375%	713	0		
1005	John Day	09/1987	09/2022	7.210%	706	0		
1006	John Day	09/1987	09/2022	8.875%	4,353	0		
1007	John Day	09/1988	09/2022	8.500%	332	0		
1008	John Day	09/1988	09/2022	8.500%	199	0		
1009	John Day	09/1989	09/2022	7.210%	30	0		
1010	John Day	09/1989	09/2022	9.250%	377	0		
1011	John Day	09/1990	09/2022	7.210%	37	0		
1012	John Day	09/1990	09/2022	8.875%	543	0		
1013	John Day	09/1991	09/2022	8.750%	13,218	0		
1014	John Day	09/1991	09/2022	8.750%	144	0		
1015	John Day	09/1992	09/2022	7.210%	19	0		
1016	John Day	09/1992	09/2022	8.500%	95	0		
1017	John Day	09/1993	09/2022	7.875%	7,810	0		
1018	John Day	09/1993	09/2022	7.875%	9,585	0		
1019	John Day	09/1994	09/2019	7.125%	14	0		
1020	John Day	09/1994	09/2029	7.125%	1,252	0		
1021	John Day	09/1995	09/2000	7.330%	2	0		
1022	John Day	09/1995	09/2000	7.330%	9	0		
1023	John Day	09/1995	09/2020	7.250%	79	0		
1024	John Day	09/1995	09/2035	7.150%	22	0		
1025	John Day	09/1995	09/2035	7.150%	52	0		
1026	John Day	09/1995	09/2035	7.150%	121	0		
1027	John Day	09/1995	09/2045	7.150%	37	0		
1028	John Day	09/1995	09/2045	7.150%	608	0		
1029	John Day	09/1995	09/2045	7.150%	7,653	0		
1030	John Day	09/1996	09/2011	7.130%	237	0		
1031	John Day	09/1996	09/2016	7.290%	1,072	0		
1032	John Day	09/1997	09/2022	7.230%	133	0		
1033	John Day	09/1997	09/2047	7.150%	179	0		
1034	John Day	09/1999	09/2049	5.375%	3,510	0		
1035	John Day	09/2000	09/2050	6.125%	2,761	0		
1036	John Day	09/2001	09/2051	5.875%	619	0		
1037	John Day	09/2004	09/2054	5.375%	2,830	0		
1038	John Day	09/2005	09/2055	5.125%	2,827	0		
1039	John Day	09/2006	09/2056	4.500%	601	601		
1040	John Day	09/2007	09/2057	5.000%	233	0		

**TABLE 12A:
HISTORICAL INVESTMENTS
FY 2023
(\$000s)**

	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
1041	John Day	09/2009	09/2059	4.375%	1,548	1,548		
1042	John Day	09/2010	09/2060	4.250%	356	356		
1043	John Day	09/2011	09/2061	3.750%	175	175		
1044	John Day	09/2012	09/2062	3.375%	6,161	6,050		
1045	John Day	09/2013	09/2063	2.875%	17	0		
1046	John Day	09/2015	09/2065	3.250%	163	0		
1047	Libby	09/1975	09/2025	7.160%	54,644	0		
1048	Libby	09/1976	09/2026	7.150%	153,432	0		
1049	Libby	09/1977	09/2026	7.150%	1,465	0		
1050	Libby	09/1978	09/2026	7.150%	1,465	0		
1051	Libby	09/1979	09/2026	7.150%	1,465	0		
1052	Libby	09/1980	09/2026	7.150%	1,465	0		
1053	Libby	09/1981	09/2026	7.150%	1,465	0		
1054	Libby	09/1982	09/2026	7.150%	1,465	0		
1055	Libby	09/1983	09/2026	7.150%	1,465	0		
1056	Libby	09/1984	09/2026	10.750%	104	0		
1057	Libby	09/1985	09/2026	7.150%	518	0		
1058	Libby	09/1986	09/2026	7.150%	283	0		
1059	Libby	09/1987	09/2026	7.150%	2	0		
1060	Libby	09/1988	09/2026	8.505%	35	0		
1061	Libby	09/1988	09/2038	7.150%	18,043	0		
1062	Libby	09/1989	09/2026	7.150%	1	0		
1063	Libby	09/1989	09/2026	9.250%	131	0		
1064	Libby	09/1990	09/2026	8.875%	11	0		
1065	Libby	09/1991	09/2026	8.750%	134	0		
1066	Libby	09/1992	09/2026	8.500%	100	0		
1067	Libby	09/1992	09/2026	8.500%	70	0		
1068	Libby	09/1993	09/2026	7.875%	600	0		
1069	Libby	09/1994	09/2029	7.125%	215	0		
1070	Libby	09/1994	09/2029	7.150%	286	0		
1071	Libby	09/1995	09/2030	7.150%	15	0		
1072	Libby	09/1995	09/2030	7.150%	41	0		
1073	Libby	09/1995	09/2030	7.150%	94	0		
1074	Libby	09/1997	09/2022	7.230%	432	0		
1075	Libby	09/1997	09/2047	7.150%	660	0		
1076	Libby	09/2001	09/2051	5.875%	5,562	0		
1077	Libby	09/2008	09/2058	4.875%	1,567	0		
1078	Libby	09/2010	09/2060	4.250%	40	40		
1079	Libby	09/2011	09/2061	3.750%	152	152		
1080	Libby	09/2012	09/2062	3.375%	16	16		
1081	Libby	09/2018	09/2068	2.750%	282	282		
1082	Libby	09/2020	09/2070	2.125%	5	5		
1083	Little Goose	09/1970	09/2020	7.250%	22,326	0		
1084	Little Goose	09/1971	09/2021	7.230%	42,962	0		
1085	Little Goose	09/1972	09/2021	7.230%	28	0		
1086	Little Goose	09/1973	09/2021	7.230%	29	0		
1087	Little Goose	09/1974	09/2021	7.230%	28	0		
1088	Little Goose	09/1975	09/2021	7.230%	29	0		
1089	Little Goose	09/1976	09/2021	7.230%	28	0		
1090	Little Goose	09/1977	09/2021	7.230%	29	0		
1091	Little Goose	09/1978	09/2021	7.230%	28	0		
1092	Little Goose	09/1978	09/2028	7.150%	49,578	0		
1093	Little Goose	09/1979	09/2021	7.230%	29	0		
1094	Little Goose	09/1980	09/2021	7.230%	28	0		
1095	Little Goose	09/1981	09/2021	7.230%	29	0		
1096	Little Goose	09/1982	09/2021	7.230%	28	0		
1097	Little Goose	09/1983	09/2021	7.230%	29	0		
1098	Little Goose	09/1984	09/2021	10.750%	201	0		
1099	Little Goose	09/1985	09/2021	7.230%	174	0		
1100	Little Goose	09/1985	09/2028	7.150%	47	0		
1101	Little Goose	09/1986	09/2021	7.230%	239	0		
1102	Little Goose	09/1987	09/2021	7.230%	6	0		
1103	Little Goose	09/1987	09/2021	8.875%	72	0		
1104	Little Goose	09/1988	09/2021	8.500%	12	0		
1105	Little Goose	09/1988	09/2021	8.500%	68	0		
1106	Little Goose	09/1989	09/2021	9.250%	77	0		
1107	Little Goose	09/1990	09/2021	8.875%	408	0		
1108	Little Goose	09/1990	09/2021	8.875%	21	0		
1109	Little Goose	09/1991	09/2021	8.750%	266	0		
1110	Little Goose	09/1992	09/2021	8.500%	66	0		
1111	Little Goose	09/1992	09/2021	8.500%	27	0		
1112	Little Goose	09/1993	09/2021	7.875%	276	0		
1113	Little Goose	09/1993	09/2021	7.875%	3,359	0		
1114	Little Goose	09/1994	09/2019	7.125%	37	0		
1115	Little Goose	09/1994	09/2029	7.125%	2,044	0		
1116	Little Goose	09/1995	09/2040	7.150%	17	0		
1117	Little Goose	09/1995	09/2040	7.150%	450	0		
1118	Little Goose	09/1995	09/2040	7.150%	733	0		
1119	Little Goose	09/1996	09/2046	7.150%	10	0		
1120	Little Goose	09/1996	09/2046	7.150%	10	0		

**TABLE 12A:
HISTORICAL INVESTMENTS
FY 2023
(\$000s)**

	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
1121	Little Goose	09/1996	09/2046	7.150%	211	0		
1122	Little Goose	09/1996	09/2046	7.150%	241	0		
1123	Little Goose	09/1996	09/2046	7.150%	520	0		
1124	Little Goose	09/1996	09/2046	7.150%	3,909	0		
1125	Little Goose	09/1997	09/2047	7.150%	1	0		
1126	Little Goose	09/2001	09/2051	5.875%	4,608	0		
1127	Little Goose	09/2002	09/2052	5.500%	27	0		
1128	Little Goose	09/2003	09/2053	5.125%	146	0		
1129	Little Goose	09/2004	09/2054	5.375%	67	0		
1130	Little Goose	09/2008	09/2058	4.875%	13	0		
1131	Little Goose	09/2009	09/2059	4.375%	3,171	3,171		
1132	Little Goose	09/2010	09/2060	4.250%	30	30		
1133	Little Goose	09/2013	09/2063	2.875%	66	66		
1134	Little Goose	09/2018	09/2068	2.750%	2,707	2,707		
1135	Little Goose	09/2020	09/2070	2.125%	5,504	5,504		
1136	Lookout Dam	09/1955	09/2005	6.910%	34,290	0		
1137	Lookout Dam	09/1956	09/2005	6.910%	52	0		
1138	Lookout Dam	09/1957	09/2005	6.910%	51	0		
1139	Lookout Dam	09/1958	09/2005	6.910%	51	0		
1140	Lookout Dam	09/1959	09/2005	6.910%	51	0		
1141	Lookout Dam	09/1960	09/2005	6.910%	51	0		
1142	Lookout Dam	09/1961	09/2005	6.910%	52	0		
1143	Lookout Dam	09/1962	09/2005	6.910%	51	0		
1144	Lookout Dam	09/1963	09/2005	6.910%	51	0		
1145	Lookout Dam	09/1964	09/2005	6.910%	51	0		
1146	Lookout Dam	09/1965	09/2005	6.910%	51	0		
1147	Lookout Dam	09/1966	09/2005	6.910%	51	0		
1148	Lookout Dam	09/1967	09/2005	6.910%	52	0		
1149	Lookout Dam	09/1968	09/2005	6.910%	51	0		
1150	Lookout Dam	09/1969	09/2005	6.910%	51	0		
1151	Lookout Dam	09/1970	09/2005	6.910%	51	0		
1152	Lookout Dam	09/1971	09/2005	6.910%	51	0		
1153	Lookout Dam	09/1972	09/2005	6.910%	51	0		
1154	Lookout Dam	09/1973	09/2005	6.910%	52	0		
1155	Lookout Dam	09/1974	09/2005	6.910%	51	0		
1156	Lookout Dam	09/1975	09/2005	6.910%	51	0		
1157	Lookout Dam	09/1976	09/2005	6.910%	51	0		
1158	Lookout Dam	09/1977	09/2005	6.910%	51	0		
1159	Lookout Dam	09/1978	09/2005	6.910%	51	0		
1160	Lookout Dam	09/1979	09/2005	6.910%	52	0		
1161	Lookout Dam	09/1980	09/2005	6.910%	51	0		
1162	Lookout Dam	09/1981	09/2005	6.910%	51	0		
1163	Lookout Dam	09/1982	09/2005	6.910%	51	0		
1164	Lookout Dam	09/1983	09/2005	6.910%	51	0		
1165	Lookout Dam	09/1984	09/2005	10.750%	185	0		
1166	Lookout Dam	09/1985	09/2005	6.910%	52	0		
1167	Lookout Dam	09/1986	09/2005	6.910%	42	0		
1168	Lookout Dam	09/1987	09/2005	6.910%	9	0		
1169	Lookout Dam	09/1987	09/2005	8.875%	12	0		
1170	Lookout Dam	09/1988	09/2005	8.500%	46	0		
1171	Lookout Dam	09/1988	09/2005	8.500%	17	0		
1172	Lookout Dam	09/1989	09/2005	9.250%	23	0		
1173	Lookout Dam	09/1990	09/2005	8.875%	147	0		
1174	Lookout Dam	09/1990	09/2005	8.875%	4	0		
1175	Lookout Dam	09/1991	09/2005	8.750%	6	0		
1176	Lookout Dam	09/1991	09/2005	8.750%	50	0		
1177	Lookout Dam	09/1992	09/2005	8.500%	181	0		
1178	Lookout Dam	09/1992	09/2005	8.500%	4	0		
1179	Lookout Dam	09/1993	09/2005	7.875%	18	0		
1180	Lookout Dam	09/1993	09/2005	7.875%	189	0		
1181	Lookout Dam	09/1994	09/2019	7.125%	73	0		
1182	Lookout Dam	09/1995	09/2045	7.150%	80	0		
1183	Lookout Dam	09/1995	09/2045	7.150%	33	0		
1184	Lookout Dam	09/1995	09/2045	7.860%	9	0		
1185	Lookout Dam	09/1995	09/2045	7.860%	15	0		
1186	Lookout Dam	09/1995	09/2045	7.860%	31	0		
1187	Lookout Dam	09/1995	09/2045	7.860%	157	0		
1188	Lookout Dam	09/2000	09/2050	6.125%	5,098	0		
1189	Lookout Dam	09/2003	09/2053	5.125%	135	0		
1190	Lookout Dam	09/2005	09/2055	5.125%	7,355	0		
1191	Lookout Dam	09/2007	09/2057	5.000%	572	0		
1192	Lookout Dam	09/2011	09/2061	3.750%	17	17		
1193	Lookout Dam	09/2012	09/2062	3.375%	294	294		
1194	Lost Creek	09/1977	09/2027	7.150%	14,293	0		
1195	Lost Creek	09/1978	09/2027	7.150%	58	0		
1196	Lost Creek	09/1979	09/2027	7.150%	60	0		
1197	Lost Creek	09/1980	09/2027	7.150%	60	0		
1198	Lost Creek	09/1981	09/2027	7.150%	60	0		
1199	Lost Creek	09/1982	09/2027	7.150%	60	0		
1200	Lost Creek	09/1983	09/2027	7.150%	60	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
1201	Lost Creek	09/1984	09/2027	10.750%	243	0		
1202	Lost Creek	09/1985	09/2027	7.150%	12	0		
1203	Lost Creek	09/1986	09/2027	7.150%	6	0		
1204	Lost Creek	09/1986	09/2027	11.375%	5	0		
1205	Lost Creek	09/1987	09/2027	7.150%	4	0		
1206	Lost Creek	09/1987	09/2027	8.875%	3	0		
1207	Lost Creek	09/1988	09/2027	8.500%	7	0		
1208	Lost Creek	09/1989	09/2027	9.250%	9	0		
1209	Lost Creek	09/1990	09/2027	8.875%	1	0		
1210	Lost Creek	09/1991	09/2027	8.750%	31	0		
1211	Lost Creek	09/1992	09/2027	8.500%	1	0		
1212	Lost Creek	09/1992	09/2027	8.500%	1	0		
1213	Lost Creek	09/1993	09/2027	7.875%	1	0		
1214	Lost Creek	09/1993	09/2027	7.875%	14	0		
1215	Lost Creek	09/1995	09/2000	7.330%	4	0		
1216	Lost Creek	09/1995	09/2045	7.150%	94	0		
1217	Lost Creek	09/1996	09/2031	7.150%	31	0		
1218	Lost Creek	09/1996	09/2046	7.150%	24	0		
1219	Lost Creek	09/2001	09/2051	5.875%	147	0		
1220	Lost Creek	09/2011	09/2061	3.750%	7	7		
1221	Lower Granite	09/1975	09/2025	7.160%	119,237	0		
1222	Lower Granite	09/1976	09/2025	7.160%	510	0		
1223	Lower Granite	09/1977	09/2025	7.160%	510	0		
1224	Lower Granite	09/1978	09/2025	7.160%	510	0		
1225	Lower Granite	09/1978	09/2028	7.150%	40,611	0		
1226	Lower Granite	09/1979	09/2025	7.160%	510	0		
1227	Lower Granite	09/1980	09/2025	7.160%	510	0		
1228	Lower Granite	09/1981	09/2025	7.160%	510	0		
1229	Lower Granite	09/1982	09/2025	7.160%	510	0		
1230	Lower Granite	09/1983	09/2025	7.160%	510	0		
1231	Lower Granite	09/1984	09/2025	10.750%	311	0		
1232	Lower Granite	09/1985	09/2025	7.160%	328	0		
1233	Lower Granite	09/1986	09/2025	7.160%	215	0		
1234	Lower Granite	09/1986	09/2025	11.375%	4	0		
1235	Lower Granite	09/1987	09/2025	7.160%	8	0		
1236	Lower Granite	09/1987	09/2025	8.875%	60	0		
1237	Lower Granite	09/1988	09/2025	8.500%	22	0		
1238	Lower Granite	09/1988	09/2025	8.500%	95	0		
1239	Lower Granite	09/1989	09/2025	9.250%	112	0		
1240	Lower Granite	09/1990	09/2025	8.875%	392	0		
1241	Lower Granite	09/1991	09/2025	8.750%	281	0		
1242	Lower Granite	09/1991	09/2025	8.750%	6	0		
1243	Lower Granite	09/1992	09/2025	8.500%	83	0		
1244	Lower Granite	09/1992	09/2025	8.500%	121	0		
1245	Lower Granite	09/1993	09/2025	7.875%	26	0		
1246	Lower Granite	09/1993	09/2025	7.875%	3,272	0		
1247	Lower Granite	09/1994	09/2019	7.125%	38	0		
1248	Lower Granite	09/1994	09/2029	7.150%	3,543	0		
1249	Lower Granite	09/1995	09/2017	7.290%	77	0		
1250	Lower Granite	09/1995	09/2017	7.290%	388	0		
1251	Lower Granite	09/1995	09/2017	7.290%	458	0		
1252	Lower Granite	09/1995	09/2025	7.160%	96	0		
1253	Lower Granite	09/1996	09/2011	7.130%	255	0		
1254	Lower Granite	09/1996	09/2031	7.150%	206	0		
1255	Lower Granite	09/1996	09/2046	7.150%	9	0		
1256	Lower Granite	09/1996	09/2046	7.150%	625	0		
1257	Lower Granite	09/1997	09/2047	7.150%	677	0		
1258	Lower Granite	09/1999	09/2049	5.375%	856	0		
1259	Lower Granite	09/2001	09/2051	5.875%	2,025	0		
1260	Lower Granite	09/2002	09/2052	5.500%	1,275	0		
1261	Lower Granite	09/2003	09/2053	5.125%	42	0		
1262	Lower Granite	09/2005	09/2055	5.125%	393	0		
1263	Lower Granite	09/2008	09/2058	4.875%	24	0		
1264	Lower Granite	09/2009	09/2059	4.375%	5,669	5,669		
1265	Lower Granite	09/2010	09/2060	4.250%	1,156	1,156		
1266	Lower Granite	09/2011	09/2061	3.750%	8	8		
1267	Lower Granite	09/2014	09/2064	3.875%	2,644	2,644		
1268	Lower Granite	09/2015	09/2065	3.250%	1,597	1,597		
1269	Lower Granite	09/2016	09/2066	3.000%	1,878	1,878		
1270	Lower Granite	09/2020	09/2070	2.125%	18,822	18,822		
1271	Lower Monument	09/1969	09/2019	7.270%	26,974	0		
1272	Lower Monument	09/1970	09/2020	7.250%	51,218	0		
1273	Lower Monument	09/1971	09/2020	7.250%	214	0		
1274	Lower Monument	09/1972	09/2020	7.250%	214	0		
1275	Lower Monument	09/1973	09/2020	7.250%	214	0		
1276	Lower Monument	09/1974	09/2020	7.250%	214	0		
1277	Lower Monument	09/1975	09/2020	7.250%	214	0		
1278	Lower Monument	09/1976	09/2020	7.250%	214	0		
1279	Lower Monument	09/1977	09/2020	7.250%	214	0		
1280	Lower Monument	09/1978	09/2020	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
1281	Lower Monument	09/1979	09/2020	7.250%	214	0		
1282	Lower Monument	09/1979	09/2029	7.150%	40,669	0		
1283	Lower Monument	09/1980	09/2020	7.250%	214	0		
1284	Lower Monument	09/1981	09/2020	7.250%	214	0		
1285	Lower Monument	09/1982	09/2020	7.250%	214	0		
1286	Lower Monument	09/1983	09/2020	7.250%	214	0		
1287	Lower Monument	09/1985	09/2020	7.250%	8	0		
1288	Lower Monument	09/1985	09/2029	7.150%	256	0		
1289	Lower Monument	09/1986	09/2020	7.250%	132	0		
1290	Lower Monument	09/1987	09/2020	7.250%	3	0		
1291	Lower Monument	09/1987	09/2020	8.875%	50	0		
1292	Lower Monument	09/1988	09/2020	8.500%	1	0		
1293	Lower Monument	09/1988	09/2020	8.500%	58	0		
1294	Lower Monument	09/1989	09/2020	9.250%	93	0		
1295	Lower Monument	09/1990	09/2020	8.875%	358	0		
1296	Lower Monument	09/1991	09/2020	8.750%	594	0		
1297	Lower Monument	09/1992	09/2020	8.500%	4,484	0		
1298	Lower Monument	09/1993	09/2020	7.875%	24	0		
1299	Lower Monument	09/1993	09/2020	7.875%	2,175	0		
1300	Lower Monument	09/1994	09/2019	7.125%	107	0		
1301	Lower Monument	09/1994	09/2029	7.125%	2,167	0		
1302	Lower Monument	09/1995	09/2000	7.330%	6	0		
1303	Lower Monument	09/1995	09/2045	7.150%	41	0		
1304	Lower Monument	09/1995	09/2045	7.150%	99	0		
1305	Lower Monument	09/1995	09/2045	7.150%	624	0		
1306	Lower Monument	09/1995	09/2045	7.150%	1,122	0		
1307	Lower Monument	09/1996	09/2016	7.290%	668	0		
1308	Lower Monument	09/1996	09/2021	7.230%	37	0		
1309	Lower Monument	09/1996	09/2021	7.230%	51	0		
1310	Lower Monument	09/1996	09/2036	7.150%	264	0		
1311	Lower Monument	09/1996	09/2046	7.150%	10	0		
1312	Lower Monument	09/2001	09/2051	5.875%	3,301	0		
1313	Lower Monument	09/2002	09/2052	5.500%	29	0		
1314	Lower Monument	09/2003	09/2053	5.125%	22	0		
1315	Lower Monument	09/2004	09/2054	5.375%	3,423	0		
1316	Lower Monument	09/2005	09/2055	5.125%	527	0		
1317	Lower Monument	09/2006	09/2056	4.500%	285	285		
1318	Lower Monument	09/2008	09/2058	4.875%	9	0		
1319	Lower Monument	09/2009	09/2059	4.375%	2,332	2,332		
1320	Lower Monument	09/2012	09/2062	3.375%	89	89		
1321	Lower Monument	09/2014	09/2064	3.875%	1,430	1,430		
1322	Lower Monument	09/2016	09/2066	3.000%	155	155		
1323	Lower Monument	09/2017	09/2067	2.375%	942	942		
1324	Lower Snake Fish and Wildlife	09/1983	09/2033	7.150%	30,488	0		
1325	Lower Snake Fish and Wildlife	09/1985	09/2035	7.150%	47,921	0		
1326	Lower Snake Fish and Wildlife	09/1987	09/2037	7.150%	72,536	0		
1327	Lower Snake Fish and Wildlife	09/1988	09/2038	7.150%	805	0		
1328	Lower Snake Fish and Wildlife	09/1990	09/2040	7.150%	1,557	0		
1329	Lower Snake Fish and Wildlife	09/1991	09/2041	7.150%	4,411	0		
1330	Lower Snake Fish and Wildlife	09/1993	09/2043	7.150%	71,632	0		
1331	Lower Snake Fish and Wildlife	09/1994	09/2044	7.150%	4,722	0		
1332	Lower Snake Fish and Wildlife	09/1996	09/2046	7.150%	12,085	0		
1333	Lower Snake Fish and Wildlife	09/1997	09/2047	7.150%	2,173	0		
1334	Lower Snake Fish and Wildlife	09/1999	09/2049	5.375%	7	0		
1335	Lower Snake Fish and Wildlife	09/2000	09/2050	6.125%	1,529	0		
1336	Lower Snake Fish and Wildlife	09/2001	09/2051	5.875%	325	0		
1337	Lower Snake Fish and Wildlife	09/2002	09/2052	5.500%	890	0		
1338	Lower Snake Fish and Wildlife	09/2003	09/2053	5.125%	98	0		
1339	Lower Snake Fish and Wildlife	09/2004	09/2054	5.375%	230	0		
1340	Lower Snake Fish and Wildlife	09/2005	09/2055	5.125%	4	0		
1341	Lower Snake Fish and Wildlife	09/2006	09/2056	4.500%	379	379		
1342	Lower Snake Fish and Wildlife	09/2008	09/2058	4.875%	74	0		
1343	Lower Snake Fish and Wildlife	09/2009	09/2059	4.375%	1,540	1,540		
1344	Lower Snake Fish and Wildlife	09/2010	09/2060	4.250%	6	6		
1345	Lower Snake Fish and Wildlife	09/2011	09/2061	3.750%	122	122		
1346	Lower Snake Fish and Wildlife	09/2014	09/2064	3.875%	222	222		
1347	Lower Snake Fish and Wildlife	09/2016	09/2066	3.000%	1,256	1,256		
1348	Lower Snake Fish and Wildlife	09/2018	09/2068	2.750%	1,608	1,608		
1349	Lower Snake Fish and Wildlife	09/2020	09/2070	2.125%	295	295		
1350	McNary	09/1954	09/2004	6.880%	80,256	0		
1351	McNary	09/1955	09/2005	6.910%	53,493	0		
1352	McNary	09/1956	09/2006	6.950%	38,748	0		
1353	McNary	09/1957	09/2007	6.980%	24,985	0		
1354	McNary	09/1958	09/2007	6.980%	468	0		
1355	McNary	09/1959	09/2007	6.980%	468	0		
1356	McNary	09/1960	09/2007	6.980%	468	0		
1357	McNary	09/1961	09/2007	6.980%	468	0		
1358	McNary	09/1962	09/2007	6.980%	467	0		
1359	McNary	09/1963	09/2007	6.980%	468	0		
1360	McNary	09/1964	09/2007	6.980%	468	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
1361	McNary	09/1965	09/2007	6.980%	468	0		
1362	McNary	09/1966	09/2007	6.980%	468	0		
1363	McNary	09/1967	09/2007	6.980%	467	0		
1364	McNary	09/1968	09/2007	6.980%	468	0		
1365	McNary	09/1969	09/2007	6.980%	468	0		
1366	McNary	09/1970	09/2007	6.980%	468	0		
1367	McNary	09/1971	09/2007	6.980%	468	0		
1368	McNary	09/1972	09/2007	6.980%	468	0		
1369	McNary	09/1973	09/2007	6.980%	467	0		
1370	McNary	09/1974	09/2007	6.980%	468	0		
1371	McNary	09/1975	09/2007	6.980%	468	0		
1372	McNary	09/1976	09/2007	6.980%	468	0		
1373	McNary	09/1977	09/2007	6.980%	467	0		
1374	McNary	09/1978	09/2007	6.980%	468	0		
1375	McNary	09/1979	09/2007	6.980%	468	0		
1376	McNary	09/1980	09/2007	6.980%	468	0		
1377	McNary	09/1981	09/2007	6.980%	468	0		
1378	McNary	09/1982	09/2007	6.980%	467	0		
1379	McNary	09/1983	09/2007	6.980%	468	0		
1380	McNary	09/1985	09/2007	6.980%	557	0		
1381	McNary	09/1986	09/2007	6.980%	454	0		
1382	McNary	09/1987	09/2007	6.980%	24	0		
1383	McNary	09/1995	09/2010	7.090%	509	0		
1384	McNary	09/1995	09/2045	7.150%	16	0		
1385	McNary	09/1996	09/2006	6.950%	778	0		
1386	McNary	09/1996	09/2011	7.130%	3	0		
1387	McNary	09/1996	09/2026	7.150%	74	0		
1388	McNary	09/1996	09/2026	7.150%	277	0		
1389	McNary	09/1996	09/2046	7.150%	619	0		
1390	McNary	09/1997	09/2032	7.150%	30	0		
1391	McNary	09/2001	09/2051	5.875%	1,046	0		
1392	McNary	09/2003	09/2053	5.125%	97	0		
1393	McNary	09/2004	09/2054	5.375%	6,138	0		
1394	McNary	09/2005	09/2055	5.125%	550	0		
1395	McNary	09/2006	09/2056	4.500%	4,080	4,080		
1396	McNary	09/2008	09/2058	4.875%	215	0		
1397	McNary	09/2011	09/2061	3.750%	565	565		
1398	McNary	09/2012	09/2062	3.375%	11	11		
1399	McNary	09/2013	09/2063	2.875%	1,000	1,000		
1400	McNary	09/2014	09/2064	3.875%	759	759		
1401	McNary	09/2017	09/2067	2.375%	239	239		
1402	McNary	09/2019	09/2069	3.125%	479	479		
1403	Minidoka/Palisades	09/1909	09/1959	3.000%	854	0		
1404	Minidoka/Palisades	09/1909	09/1959	3.000%	226	0		
1405	Minidoka/Palisades	09/1910	09/1960	3.000%	1,709	0		
1406	Minidoka/Palisades	09/1910	09/1960	3.000%	451	0		
1407	Minidoka/Palisades	09/1911	09/1961	3.000%	1,709	0		
1408	Minidoka/Palisades	09/1911	09/1961	3.000%	451	0		
1409	Minidoka/Palisades	09/1927	09/1977	3.000%	854	0		
1410	Minidoka/Palisades	09/1927	09/1977	3.000%	226	0		
1411	Minidoka/Palisades	09/1942	09/1992	3.000%	854	0		
1412	Minidoka/Palisades	09/1942	09/1992	3.000%	226	0		
1413	Minidoka/Palisades	09/1957	09/2007	3.000%	2,561	0		
1414	Minidoka/Palisades	09/1957	09/2007	3.000%	677	0		
1415	Minidoka/Palisades	09/1958	09/2008	3.000%	854	0		
1416	Minidoka/Palisades	09/1958	09/2008	3.000%	226	0		
1417	Minidoka/Palisades	09/1959	09/2008	3.000%	108	0		
1418	Minidoka/Palisades	09/1959	09/2008	3.000%	28	0		
1419	Minidoka/Palisades	09/1960	09/2008	3.000%	108	0		
1420	Minidoka/Palisades	09/1960	09/2008	3.000%	29	0		
1421	Minidoka/Palisades	09/1961	09/2008	3.000%	108	0		
1422	Minidoka/Palisades	09/1961	09/2008	3.000%	29	0		
1423	Minidoka/Palisades	09/1962	09/2008	3.000%	108	0		
1424	Minidoka/Palisades	09/1962	09/2008	3.000%	28	0		
1425	Minidoka/Palisades	09/1963	09/2008	3.000%	108	0		
1426	Minidoka/Palisades	09/1963	09/2008	3.000%	29	0		
1427	Minidoka/Palisades	09/1964	09/2008	3.000%	108	0		
1428	Minidoka/Palisades	09/1964	09/2008	3.000%	28	0		
1429	Minidoka/Palisades	09/1965	09/2008	3.000%	108	0		
1430	Minidoka/Palisades	09/1965	09/2008	3.000%	29	0		
1431	Minidoka/Palisades	09/1966	09/2008	3.000%	108	0		
1432	Minidoka/Palisades	09/1966	09/2008	3.000%	29	0		
1433	Minidoka/Palisades	09/1967	09/2008	3.000%	108	0		
1434	Minidoka/Palisades	09/1967	09/2008	3.000%	28	0		
1435	Minidoka/Palisades	09/1968	09/2008	3.000%	108	0		
1436	Minidoka/Palisades	09/1968	09/2008	3.000%	29	0		
1437	Minidoka/Palisades	09/1969	09/2008	3.000%	3	0		
1438	Minidoka/Palisades	09/1969	09/2008	3.000%	28	0		
1439	Minidoka/Palisades	09/1970	09/2008	3.000%	108	0		
1440	Minidoka/Palisades	09/1970	09/2008	3.000%	29	0		

**TABLE 12A:
HISTORICAL INVESTMENTS
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(\$000s)**

	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
1441	Minidoka/Palisesades	09/1971	09/2008	3.000%	108	0		
1442	Minidoka/Palisesades	09/1971	09/2008	3.000%	29	0		
1443	Minidoka/Palisesades	09/1972	09/2008	3.000%	108	0		
1444	Minidoka/Palisesades	09/1972	09/2008	3.000%	28	0		
1445	Minidoka/Palisesades	09/1973	09/2008	3.000%	108	0		
1446	Minidoka/Palisesades	09/1973	09/2008	3.000%	29	0		
1447	Minidoka/Palisesades	09/1974	09/2008	3.000%	108	0		
1448	Minidoka/Palisesades	09/1974	09/2008	3.000%	28	0		
1449	Minidoka/Palisesades	09/1975	09/2008	3.000%	108	0		
1450	Minidoka/Palisesades	09/1975	09/2008	3.000%	29	0		
1451	Minidoka/Palisesades	09/1976	09/2008	3.000%	108	0		
1452	Minidoka/Palisesades	09/1976	09/2008	3.000%	29	0		
1453	Minidoka/Palisesades	09/1977	09/2008	7.020%	83	0		
1454	Minidoka/Palisesades	09/1977	09/2008	7.020%	28	0		
1455	Minidoka/Palisesades	09/1978	09/2008	7.020%	75	0		
1456	Minidoka/Palisesades	09/1978	09/2008	7.020%	20	0		
1457	Minidoka/Palisesades	09/1979	09/2008	7.020%	75	0		
1458	Minidoka/Palisesades	09/1979	09/2008	7.020%	19	0		
1459	Minidoka/Palisesades	09/1980	09/2008	7.020%	75	0		
1460	Minidoka/Palisesades	09/1980	09/2008	7.020%	20	0		
1461	Minidoka/Palisesades	09/1981	09/2008	7.020%	75	0		
1462	Minidoka/Palisesades	09/1981	09/2008	7.020%	20	0		
1463	Minidoka/Palisesades	09/1982	09/2008	7.020%	75	0		
1464	Minidoka/Palisesades	09/1982	09/2008	7.020%	19	0		
1465	Minidoka/Palisesades	09/1983	09/2008	7.020%	65	0		
1466	Minidoka/Palisesades	09/1983	09/2008	7.020%	20	0		
1467	Minidoka/Palisesades	09/1984	09/2008	10.075%	44	0		
1468	Minidoka/Palisesades	09/1984	09/2008	10.075%	11	0		
1469	Minidoka/Palisesades	09/1985	09/2008	7.020%	21	0		
1470	Minidoka/Palisesades	09/1986	09/2008	7.020%	21	0		
1471	Minidoka/Palisesades	09/1986	09/2008	11.375%	48	0		
1472	Minidoka/Palisesades	09/1987	09/2008	7.020%	16	0		
1473	Minidoka/Palisesades	09/1988	09/2008	8.500%	31	0		
1474	Minidoka/Palisesades	09/1989	09/2008	9.250%	20	0		
1475	Minidoka/Palisesades	09/1990	09/2008	8.875%	33	0		
1476	Minidoka/Palisesades	09/1991	09/2008	8.750%	62	0		
1477	Minidoka/Palisesades	09/1991	09/2008	8.750%	11	0		
1478	Minidoka/Palisesades	09/1991	09/2008	8.750%	32	0		
1479	Minidoka/Palisesades	09/1992	09/2008	8.500%	6	0		
1480	Minidoka/Palisesades	09/1994	09/2029	7.125%	351	0		
1481	Minidoka/Palisesades	09/1995	09/2000	7.330%	6	0		
1482	Minidoka/Palisesades	09/1995	09/2010	7.890%	40	0		
1483	Minidoka/Palisesades	09/1996	09/2011	7.130%	54	0		
1484	Minidoka/Palisesades	09/1997	09/2007	6.950%	66	0		
1485	Minidoka/Palisesades	09/1997	09/2047	7.150%	50,911	0		
1486	Minidoka/Palisesades	09/2001	09/2051	5.875%	42	0		
1487	Minidoka/Palisesades	09/2012	09/2062	3.375%	7	7		
1488	Minidoka/Palisesades	09/2015	09/2065	3.250%	19,237	19,237		
1489	Minidoka/Palisesades	09/2016	09/2066	3.000%	206	206		
1490	Minidoka/Palisesades	09/2017	09/2067	2.375%	127	127		
1491	Minidoka/Palisesades	09/2018	09/2068	2.750%	145	145		
1492	Minidoka/Palisesades	09/2019	09/2069	3.125%				
1493	RRP - Green Springs	09/2001	09/2051	5.875%	11,145	0		
1494	RRP - Green Springs	09/2012	09/2062	3.375%	2	2		
1495	RRP - Green Springs	09/2013	09/2063	2.875%				
1496	RRP - Green Springs	09/2019	09/2069	3.125%	14	16		
1497	RRP - Green Springs	09/2020	09/2070	2.125%	64	64		
1498	The Dalles	09/1957	09/2007	2.500%	15,908	0		
1499	The Dalles	09/1958	09/2008	7.020%	45,837	0		
1500	The Dalles	09/1959	09/2009	7.060%	40,415	0		
1501	The Dalles	09/1960	09/2010	7.090%	39,179	0		
1502	The Dalles	09/1961	09/2011	7.130%	9,492	0		
1503	The Dalles	09/1962	09/2011	7.130%	56	0		
1504	The Dalles	09/1963	09/2011	7.130%	57	0		
1505	The Dalles	09/1964	09/2011	7.130%	57	0		
1506	The Dalles	09/1965	09/2011	7.130%	56	0		
1507	The Dalles	09/1966	09/2011	7.130%	57	0		
1508	The Dalles	09/1967	09/2011	7.130%	57	0		
1509	The Dalles	09/1968	09/2011	7.130%	56	0		
1510	The Dalles	09/1969	09/2011	7.130%	57	0		
1511	The Dalles	09/1970	09/2011	7.130%	57	0		
1512	The Dalles	09/1971	09/2011	7.130%	56	0		
1513	The Dalles	09/1972	09/2011	7.130%	57	0		
1514	The Dalles	09/1973	09/2011	7.130%	57	0		
1515	The Dalles	09/1973	09/2023	7.190%	21,983	0		
1516	The Dalles	09/1974	09/2011	7.130%	56	0		
1517	The Dalles	09/1974	09/2024	7.170%	7,268	0		
1518	The Dalles	09/1975	09/2011	7.130%	57	0		
1519	The Dalles	09/1976	09/2011	7.130%	57	0		
1520	The Dalles	09/1977	09/2011	7.130%	56	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
1521	The Dalles	09/1978	09/2011	7.130%	57	0		
1522	The Dalles	09/1979	09/2011	7.130%	57	0		
1523	The Dalles	09/1980	09/2011	7.130%	56	0		
1524	The Dalles	09/1981	09/2011	7.130%	57	0		
1525	The Dalles	09/1982	09/2011	7.130%	57	0		
1526	The Dalles	09/1983	09/2011	7.130%	56	0		
1527	The Dalles	09/1984	09/2011	10.750%	961	0		
1528	The Dalles	09/1985	09/2011	7.130%	95	0		
1529	The Dalles	09/1985	09/2011	12.375%	280	0		
1530	The Dalles	09/1986	09/2011	7.130%	95	0		
1531	The Dalles	09/1986	09/2011	11.375%	4	0		
1532	The Dalles	09/1987	09/2011	7.130%	1,417	0		
1533	The Dalles	09/1987	09/2011	8.875%	81	0		
1534	The Dalles	09/1988	09/2011	8.500%	685	0		
1535	The Dalles	09/1988	09/2011	8.500%	1	0		
1536	The Dalles	09/1989	09/2011	9.250%	898	0		
1537	The Dalles	09/1990	09/2011	8.875%	319	0		
1538	The Dalles	09/1990	09/2011	8.875%	745	0		
1539	The Dalles	09/1991	09/2011	8.750%	89	0		
1540	The Dalles	09/1991	09/2011	8.750%	2,452	0		
1541	The Dalles	09/1992	09/2011	8.500%	57	0		
1542	The Dalles	09/1992	09/2011	8.500%	130	0		
1543	The Dalles	09/1993	09/2011	7.875%	2,028	0		
1544	The Dalles	09/1993	09/2011	7.875%	2,929	0		
1545	The Dalles	09/1994	09/2029	7.125%	1,425	0		
1546	The Dalles	09/1996	09/2008	7.020%	196	0		
1547	The Dalles	09/1996	09/2011	7.130%	457	0		
1548	The Dalles	09/1996	09/2046	7.150%	1,991	0		
1549	The Dalles	09/2000	09/2050	6.125%	2,588	0		
1550	The Dalles	09/2002	09/2052	5.500%	1,226	0		
1551	The Dalles	09/2004	09/2054	5.375%	182	0		
1552	The Dalles	09/2005	09/2055	5.125%	36,019	0		
1553	The Dalles	09/2006	09/2056	4.500%	2,030	2,030		
1554	The Dalles	09/2007	09/2057	5.000%	140	0		
1555	The Dalles	09/2008	09/2058	4.875%	1,651	0		
1556	The Dalles	09/2015	09/2065	3.250%	302	302		
1557	The Dalles	09/2016	09/2066	3.000%	4	4		
1558	The Dalles	09/2017	09/2067	2.375%	10	10		
1559	The Dalles	09/2018	09/2068	2.750%	15	15		
1560	The Dalles	09/2019	09/2069	3.125%	129	158		
1561	Yakima Chandler/Kenniwick	09/1956	09/2022	7.210%	1,068	0		
1562	Yakima Chandler/Kenniwick	09/1956	09/2022	7.210%	481	0		
1563	Yakima Chandler/Kenniwick	09/1959	09/2022	7.210%	1	0		
1564	Yakima Chandler/Kenniwick	09/1960	09/2022	7.210%	1	0		
1565	Yakima Chandler/Kenniwick	09/1961	09/2022	7.210%	1	0		
1566	Yakima Chandler/Kenniwick	09/1984	09/2022	10.750%	10	0		
1567	Yakima Chandler/Kenniwick	09/1984	09/2022	10.750%	35	0		
1568	Yakima Chandler/Kenniwick	09/1985	09/2022	12.375%	357	0		
1569	Yakima Chandler/Kenniwick	09/1986	09/2022	7.210%	439	0		
1570	Yakima Chandler/Kenniwick	09/1986	09/2022	11.375%	7	0		
1571	Yakima Chandler/Kenniwick	09/1987	09/2022	8.875%	126	0		
1572	Yakima Chandler/Kenniwick	09/1989	09/2022	9.250%	18	0		
1573	Yakima Chandler/Kenniwick	09/1990	09/2022	8.875%	40	0		
1574	Yakima Chandler/Kenniwick	09/1991	09/2022	8.750%	109	0		
1575	Yakima Chandler/Kenniwick	09/2005	09/2055	5.125%	833	0		
1576	Yakima Chandler/Kenniwick	09/2009	09/2059	4.375%	15	15		
1577	Yakima Chandler/Kenniwick	09/2018	09/2068	2.750%	49	49		
1578	Yakima Roza	09/1958	09/2008	7.020%	1,194	0		
1579	Yakima Roza	09/1958	09/2008	7.020%	383	0		
1580	Yakima Roza	09/1984	09/2008	10.750%	17	0		
1581	Yakima Roza	09/1984	09/2008	10.750%	5	0		
1582	Yakima Roza	09/1985	09/2008	7.020%	69	0		
1583	Yakima Roza	09/1985	09/2008	12.375%	5	0		
1584	Yakima Roza	09/1986	09/2008	7.020%	6	0		
1585	Yakima Roza	09/1987	09/2008	7.020%	2	0		
1586	Yakima Roza	09/1987	09/2008	8.875%	9	0		
1587	Yakima Roza	09/2001	09/2051	5.875%	15	0		
1588	Bureau Direct	05/1995	05/2015	7.500%	35,000	0		
1589	Bureau Direct	05/1997	05/2000	6.500%	50,000	0		
1590	Bureau Direct	04/1998	05/2008	6.000%	25,000	0		
1591	Bureau Direct	09/1999	09/2004	6.400%	20,000	0		
1592	Bureau Direct	04/2000	04/2003	6.850%	40,000	0		
1593	Bureau Direct	09/2000	09/2005	6.700%	20,000	0		
1594	Bureau Direct	06/2001	06/2004	4.750%	50,000	0		
1595	Bureau Direct	03/2002	03/2005	4.600%	30,000	0		
1596	Bureau Direct	09/2002	09/2006	3.050%	20,000	0		
1597	Bureau Direct	12/2002	12/2006	3.050%	40,000	0		
1598	Bureau Direct	04/2003	04/2006	2.400%	40,000	0		
1599	Bureau Direct	04/2003	04/2006	2.400%	25,000	0		
1600	Bureau Direct	07/2003	07/2006	2.300%	30,000	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
1601	Bureau Direct	09/2003	09/2006	2.500%	25,000	0		
1602	Bureau Direct	01/2004	01/2007	2.500%	25,000	0		
1603	Bureau Direct	04/2004	04/2007	2.950%	35,000	0		
1604	Bureau Direct	07/2004	07/2007	3.450%	25,000	0		
1605	Bureau Direct	09/2004	09/2007	3.100%	30,000	0		
1606	Bureau Direct	11/2004	11/2007	3.500%	20,000	0		
1607	Bureau Direct	01/2005	01/2008	3.600%	20,000	0		
1608	Bureau Direct	06/2005	06/2008	3.950%	30,000	0		
1609	Bureau Direct	09/2005	09/2008	4.250%	25,000	0		
1610	Bureau Direct	03/2006	03/2009	5.050%	25,000	0		
1611	Bureau Direct	07/2006	07/2009	5.350%	45,000	0		
1612	Bureau Direct	09/2006	09/2009	4.950%	15,000	0		
1613	Bureau Direct	01/2007	01/2010	5.100%	35,000	0		
1614	Bureau Direct	03/2007	03/2010	4.800%	30,000	0		
1615	Bureau Direct	06/2007	06/2010	5.350%	30,000	0		
1616	Bureau Direct	01/2008	01/2011	2.850%	35,000	0		
1617	Bureau Direct	01/2008	01/2011	2.850%	20,000	0		
1618	Bureau Direct	05/2008	05/2011	3.358%	35,000	0		
1619	Bureau Direct	05/2008	05/2011	3.358%	25,000	0		
1620	Bureau Direct	06/2008	06/2012	3.974%	30,000	0		
1621	Bureau Direct	07/2008	07/2012	3.913%	35,000	0		
1622	Bureau Direct	09/2008	09/2012	3.444%	35,000	0		
1623	Bureau Direct	01/2009	01/2021	3.999%	25,000	0		
1624	Bureau Direct	04/2009	04/2023	4.391%	25,000	25,000	04/2033	1.723%
1625	Bureau Direct	06/2009	06/2039	5.192%	25,000	25,000		
1626	Bureau Direct	09/2009	09/2019	3.699%	25,000	0		
1627	Bureau Direct	10/2009	10/2018	3.719%	24,000	0		
1628	Bureau Direct	10/2009	10/2019	3.842%	20,000	0		
1629	Bureau Direct	11/2009	11/2019	3.637%	7,000	0		
1630	Bureau Direct	12/2009	12/2019	4.194%	13,000	0		
1631	Bureau Direct	01/2010	01/2019	3.714%	10,000	0		
1632	Bureau Direct	02/2010	02/2019	0.165%	10,000	0		
1633	Bureau Direct	03/2010	03/2020	4.083%	30,000	0		
1634	Bureau Direct	04/2010	04/2020	3.973%	18,000	0		
1635	Bureau Direct	05/2010	05/2020	3.574%	15,000	0		
1636	Bureau Direct	06/2010	06/2020	3.243%	10,000	0		
1637	Bureau Direct	06/2010	06/2020	3.243%	30,000	0		
1638	Bureau Direct	07/2010	07/2020	3.118%	17,000	0		
1639	Bureau Direct	08/2010	08/2020	0.165%	5,000	0		
1640	Bureau Direct	09/2010	09/2021	2.883%	22,000	22,000		
1641	Bureau Direct	10/2010	10/2034	4.211%	20,000	20,000		
1642	Bureau Direct	01/2011	09/2011	0.244%	20,000	0		
1643	Bureau Direct	01/2011	09/2011	0.244%	35,000	0		
1644	Bureau Direct	01/2011	01/2039	5.040%	35,000	35,000		
1645	Bureau Direct	02/2011	02/2040	4.995%	50,000	50,000		
1646	Bureau Direct	05/2011	09/2011	0.076%	35,000	0		
1647	Bureau Direct	05/2011	09/2011	0.076%	25,000	0		
1648	Bureau Direct	06/2011	06/2036	4.629%	30,000	30,000		
1649	Bureau Direct	06/2011	06/2038	4.700%	30,000	30,000		
1650	Bureau Direct	08/2011	08/2037	4.208%	30,000	30,000		
1651	Bureau Direct	09/2011	07/2041	3.825%	30,000	0		
1652	Bureau Direct	12/2011	12/2038	3.880%	35,000	0		
1653	Bureau Direct	01/2012	01/2038	3.893%	15,000	0		
1654	Bureau Direct	02/2012	02/2034	0.148%	55,000	55,000		
1655	Bureau Direct	06/2012	06/2041	3.666%	50,000	0		
1656	Bureau Direct	06/2012	09/2012	0.119%	30,000	0		
1657	Bureau Direct	08/2012	07/2042	3.834%	44,000	0		
1658	Bureau Direct	09/2012	09/2013	0.174%	35,000	0		
1659	Bureau Direct	09/2012	09/2042	3.668%	25,000	0		
1660	Bureau Direct	01/2013	01/2043	6.194%	70,000	0		
1661	Bureau Direct	02/2013	02/2043	5.993%	18,000	0		
1662	Bureau Direct	03/2013	03/2043	5.958%	15,000	0		
1663	Bureau Direct	04/2013	04/2043	5.633%	15,000	0		
1664	Bureau Direct	05/2013	05/2043	6.192%	18,000	0		
1665	Bureau Direct	06/2013	01/2039	1.580%	35,000	0		
1666	Bureau Direct	06/2013	06/2043	6.938%	21,000	0		
1667	Bureau Direct	07/2013	07/2034	7.164%	25,000	0		
1668	Bureau Direct	08/2013	08/2034	7.413%	15,000	0		
1669	Bureau Direct	11/2013	09/2014	0.140%	77,000	0		
1670	Bureau Direct	11/2013	09/2020	2.473%	51,000	0		
1671	Bureau Direct	11/2013	09/2021	2.812%	50,000	50,000		
1672	Bureau Direct	11/2013	09/2022	3.125%	19,000	19,000		
1673	Bureau Direct	01/2014	12/2018	1.943%	43,000	0		
1674	Bureau Direct	01/2014	12/2018	1.943%	38,000	0		
1675	Bureau Direct	01/2014	12/2018	1.943%	21,000	0		
1676	Bureau Direct	01/2014	12/2018	1.943%	26,000	0		
1677	Bureau Direct	01/2014	12/2018	1.943%	14,000	0		
1678	Bureau Direct	09/2014	05/2032	1.669%	16,000	0		
1679	Bureau Direct	09/2014	05/2032	1.669%	10,000	0		
1680	Bureau Direct	09/2014	06/2033	1.630%	11,000	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
1681	Bureau Direct	09/2014	06/2033	1.630%	12,000	0		
1682	Bureau Direct	09/2014	07/2033	1.580%	15,000	0		
1683	Bureau Direct	09/2015	09/2033	3.134%	10,000	10,000		
1684	Bureau Direct	04/2016	04/2031	2.661%	17,000	17,000		
1685	Bureau Direct	07/2016	07/2030	2.145%	12,000	12,000		
1686	Bureau Direct	08/2018	01/2048	1.580%	13,000	0		
1687	Bureau Direct	08/2018	02/2048	0.148%	5,000	5,000		
1688	Bureau Direct	08/2018	03/2048	1.896%	26,000	0		
1689	Bureau Direct	08/2018	06/2048	1.630%	16,000	0		
1690	Bureau Direct	09/2018	02/2048	0.148%	29,000	29,000		
1691	Bureau Direct	10/2018	09/2019	2.653%	24,000	0		
1692	Bureau Direct	12/2018	09/2019	2.568%	13,000	0		
1693	Bureau Direct	12/2018	09/2019	2.568%	14,000	0		
1694	Bureau Direct	12/2018	09/2019	2.568%	21,000	0		
1695	Bureau Direct	12/2018	09/2019	2.568%	38,000	0		
1696	Bureau Direct	12/2018	09/2029	3.100%	13,000	13,000		
1697	Bureau Direct	12/2018	09/2029	3.100%	43,000	43,000		
1698	Bureau Direct	01/2019	09/2019	2.521%	10,000	0		
1699	Bureau Direct	08/2019	08/2021	0.119%	20,000	20,000		
1700	Bureau Direct	10/2019	09/2021	0.112%	20,000	20,000	09/2030	1.208%
1701	Bureau Direct	11/2019	09/2020	0.302%	7,000	0		
1702	Bureau Direct	12/2019	09/2020	0.302%	13,000	0		
1703	Bureau Direct	03/2020	09/2020	0.326%	30,000	0		
1704	Bureau Direct	03/2020	06/2046	2.083%	26,000	26,000		
1705	Bureau Direct	04/2020	09/2020	0.240%	18,000	0		
1706	Bureau Direct	04/2020	04/2045	1.760%	30,000	30,000		
1707	Bureau Direct	05/2020	09/2020	0.179%	15,000	0		
1708	Bureau Direct	05/2020	05/2032	1.188%	16,000	16,000		
1709	Bureau Direct	05/2020	05/2032	1.188%	10,000	10,000		
1710	Bureau Direct	05/2020	05/2043	1.869%	24,000	24,000		
1711	Bureau Direct	06/2020	09/2020	0.148%	30,000	0		
1712	Bureau Direct	06/2020	06/2033	1.238%	11,000	11,000		
1713	Bureau Direct	06/2020	06/2033	1.238%	12,000	12,000		
1714	Bureau Direct	06/2020	06/2049	1.812%	10,000	10,000		
1715	Bureau Direct	06/2020	06/2049	1.812%	16,000	16,000		
1716	Bureau Direct	07/2020	07/2033	1.157%	15,000	15,000		
1717	Bureau Direct	07/2020	01/2041	1.457%	35,000	35,000		
1718	Bureau Direct	07/2020	01/2046	1.640%	13,000	13,000		
1719	Bureau Direct	07/2020	07/2049	1.680%	17,000	17,000		
1720	Bureau Direct	09/2020	09/2021	0.112%	51,000	51,000		
1721	Bureau Direct	09/2020	09/2021	0.112%	30,000	30,000		
1722	Bureau Direct	09/2020	09/2021	0.112%	5,000	5,000		
1723	Conservation	09/1983	09/2003	12.200%	140,000	0		
1724	Conservation	09/1984	09/2004	13.050%	150,000	0		
1725	Conservation	09/1985	09/1990	10.150%	50,000	0		
1726	Conservation	03/1986	03/1991	7.800%	50,000	0		
1727	Conservation	03/1986	03/1996	8.150%	50,000	0		
1728	Conservation	04/1987	04/2007	9.300%	75,000	0		
1729	Conservation	06/1987	06/1992	8.350%	50,000	0		
1730	Conservation	04/1988	04/2008	9.900%	90,000	0		
1731	Conservation	07/1989	07/2009	8.550%	40,000	0		
1732	Conservation	09/1989	09/1995	8.600%	66,000	0		
1733	Conservation	09/1989	09/2002	8.650%	66,000	0		
1734	Conservation	07/1992	07/1997	5.800%	80,200	0		
1735	Conservation	07/1992	07/2007	7.140%	100,000	0		
1736	Conservation	10/1992	10/2012	8.050%	50,000	0		
1737	Conservation	02/1993	02/2013	7.400%	50,000	0		
1738	Conservation	08/1993	08/2013	6.750%	40,000	0		
1739	Conservation	01/1994	01/2014	6.750%	50,000	0		
1740	Conservation	05/1994	05/1998	7.100%	50,000	0		
1741	Conservation	05/1995	05/2015	7.500%	85,000	0		
1742	Conservation	01/1996	01/2011	6.700%	30,000	0		
1743	Conservation	11/1996	11/2016	7.200%	40,000	0		
1744	Conservation	05/1998	05/2009	6.000%	37,700	0		
1745	Conservation	09/1998	09/2008	5.300%	104,300	0		
1746	Conservation	09/1998	09/2013	5.600%	52,800	0		
1747	Conservation	07/2000	07/2003	6.950%	32,000	0		
1748	Conservation	06/2002	06/2005	3.750%	40,000	0		
1749	Conservation	01/2004	01/2008	2.950%	30,000	0		
1750	Conservation	03/2006	03/2009	5.050%	20,000	0		
1751	Conservation	06/2007	06/2010	5.350%	20,000	0		
1752	Conservation	09/2008	09/2013	3.701%	10,000	0		
1753	Conservation	09/2009	09/2014	2.746%	15,000	0		
1754	Conservation	01/2010	01/2015	2.609%	15,000	0		
1755	Conservation	04/2010	04/2015	2.677%	20,000	0		
1756	Conservation	08/2010	08/2015	1.619%	15,000	0		
1757	Conservation	09/2010	09/2015	1.534%	10,000	0		
1758	Conservation	01/2011	01/2023	4.046%	40,000	40,000		
1759	Conservation	04/2011	04/2023	3.932%	35,000	35,000		
1760	Conservation	08/2011	08/2023	3.206%	40,000	0		

**TABLE 12A:
HISTORICAL INVESTMENTS
FY 2023
(\$000s)**

	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
1761	Conservation	10/2011	08/2012	0.204%	55,000	0		
1762	Conservation	12/2011	12/2037	0.189%	55,000	0		
1763	Conservation	05/2012	09/2015	0.676%	30,000	0		
1764	Conservation	06/2012	09/2015	0.671%	15,000	0		
1765	Conservation	08/2012	08/2024	2.788%	15,000	0		
1766	Conservation	11/2012	11/2016	0.630%	20,000	0		
1767	Conservation	01/2013	01/2018	1.107%	9,000	0		
1768	Conservation	03/2013	03/2025	4.992%	10,000	0		
1769	Conservation	04/2013	04/2025	4.553%	12,000	0		
1770	Conservation	08/2013	08/2025	6.973%	5,000	0		
1771	Conservation	10/2013	10/2025	3.568%	34,000	1,000		
1772	Conservation	11/2013	09/2023	3.375%	27,000	27,000		
1773	Conservation	12/2013	12/2021	3.142%	6,000	6,000		
1774	Conservation	12/2013	12/2023	0.191%	55,000	55,000		
1775	Conservation	01/2014	01/2026	3.621%	5,000	5,000		
1776	Conservation	04/2014	06/2025	0.191%	30,000	30,000		
1777	Conservation	05/2014	04/2024	0.230%	15,000	15,000		
1778	Conservation	05/2014	04/2025	0.230%	3,000	3,000		
1779	Conservation	06/2014	10/2024	0.230%	5,000	5,000		
1780	Conservation	07/2014	07/2025	0.176%	12,000	12,000		
1781	Conservation	08/2014	09/2025	0.128%	4,000	4,000		
1782	Conservation	10/2014	12/2024	0.191%	10,000	10,000		
1783	Conservation	11/2014	03/2027	1.896%	6,000	0		
1784	Conservation	12/2014	12/2023	2.403%	7,000	7,000		
1785	Conservation	01/2015	09/2015	0.204%	15,000	0		
1786	Conservation	01/2015	01/2024	1.908%	7,000	0		
1787	Conservation	02/2015	02/2024	2.251%	8,000	0		
1788	Conservation	03/2015	03/2025	2.295%	5,000	0		
1789	Conservation	04/2015	04/2024	2.269%	5,000	5,000		
1790	Conservation	05/2015	05/2021	1.898%	5,000	5,000		
1791	Conservation	07/2015	07/2021	2.067%	14,000	14,000		
1792	Conservation	08/2015	08/2022	2.233%	6,000	6,000		
1793	Conservation	09/2015	09/2022	2.062%	4,000	4,000		
1794	Conservation	10/2015	10/2027	0.230%	25,000	25,000		
1795	Conservation	11/2016	04/2017	0.684%	20,000	0		
1796	Conservation	04/2017	01/2018	1.051%	20,000	0		
1797	Conservation	01/2018	09/2022	2.513%	9,000	9,000		
1798	Conservation	01/2018	09/2022	2.513%	20,000	20,000		
1799	Conservation	03/2020	03/2027	0.964%	6,000	6,000		
1800	Construction (AS)	10/1992	10/2032	8.350%	38	0		
1801	Construction (AS)	07/1995	07/2025	7.700%	67	0		
1802	Construction (AS)	01/1996	01/2003	5.900%	5,622	0		
1803	Construction (AS)	01/1997	01/2004	6.800%	7,400	0		
1804	Construction (AS)	08/1998	08/2008	5.750%	3,181	0		
1805	Construction (AS)	02/1999	02/2014	5.900%	950	0		
1806	Construction (AS)	07/2000	07/2004	7.000%	10,948	0		
1807	Construction (AS)	01/2001	01/2010	6.050%	68	0		
1808	Construction (AS)	03/2002	03/2005	4.600%	1,990	0		
1809	Construction (AS)	10/2002	10/2005	3.000%	45,062	0		
1810	Construction (AS)	01/2004	01/2007	2.500%	13,357	0		
1811	Construction (AS)	11/2004	11/2008	3.750%	7,990	0		
1812	Construction (AS)	09/2006	09/2010	4.950%	9,681	0		
1813	Construction (AS)	01/2008	01/2012	3.200%	10,000	0		
1814	Construction (AS)	09/2008	09/2012	3.444%	10,000	0		
1815	Construction (AS)	09/2009	09/2014	2.746%	14,000	0		
1816	Construction (AS)	02/2010	02/2015	0.165%	7,500	0		
1817	Construction (AS)	08/2010	08/2015	1.619%	5,000	0		
1818	Construction (AS)	06/2011	06/2016	1.957%	7,000	0		
1819	Construction (AS)	08/2011	08/2016	1.423%	3,500	0		
1820	Construction (AS)	01/2012	09/2012	0.146%	10,000	0		
1821	Construction (AS)	06/2012	09/2015	0.671%	7,700	0		
1822	Construction (AS)	11/2012	11/2018	1.109%	5,250	0		
1823	Construction (AS)	04/2013	04/2017	0.622%	2,450	0		
1824	Construction (AS)	06/2013	06/2017	1.271%	3,000	0		
1825	Construction (AS)	08/2013	08/2017	1.494%	2,000	0		
1826	Construction (AS)	10/2013	10/2019	2.039%	4,200	0		
1827	Construction (AS)	10/2013	10/2019	2.039%	5,000	0		
1828	Construction (AS)	01/2014	01/2020	2.183%	1,750	0		
1829	Construction (AS)	01/2014	01/2020	2.183%	2,000	0		
1830	Construction (AS)	02/2014	09/2014	0.117%	950	0		
1831	Construction (AS)	04/2014	03/2020	1.896%	1,400	0		
1832	Construction (AS)	04/2014	03/2020	1.896%	2,000	0		
1833	Construction (AS)	05/2014	04/2020	1.681%	700	0		
1834	Construction (AS)	07/2014	07/2020	1.580%	1,050	0		
1835	Construction (AS)	11/2014	11/2020	1.809%	2,100	0		
1836	Construction (AS)	12/2014	12/2020	1.922%	1,050	0		
1837	Construction (AS)	02/2015	02/2021	1.761%	1,750	0		
1838	Construction (AS)	05/2015	05/2021	1.898%	2,100	2,100		
1839	Construction (AS)	09/2015	09/2017	0.744%	7,700	0		
1840	Construction (AS)	10/2015	10/2021	1.942%	2,800	2,800		

**TABLE 12A:
HISTORICAL INVESTMENTS
FY 2023
(\$000s)**

	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
1841	Construction (AS)	02/2016	02/2022	0.148%	3,000	3,000		
1842	Construction (AS)	06/2016	09/2016	0.436%	7,000	0		
1843	Construction (AS)	04/2017	01/2018	1.051%	2,450	0		
1844	Construction (AS)	06/2017	01/2018	1.179%	3,000	0		
1845	Construction (AS)	08/2017	01/2018	1.138%	2,000	0		
1846	Construction (AS)	09/2017	01/2018	1.181%	7,700	0		
1847	Construction (AS)	09/2018	12/2023	3.064%	4,200	4,200		
1848	Construction (AS)	08/2019	08/2021	0.119%	2,000	2,000		
1849	Construction (AS)	10/2019	09/2020	0.302%	4,200	0		
1850	Construction (AS)	10/2019	09/2020	0.302%	5,000	0		
1851	Construction (AS)	11/2019	02/2021	0.119%	4,000	0		
1852	Construction (AS)	01/2020	09/2020	0.302%	1,750	0		
1853	Construction (AS)	01/2020	09/2020	0.302%	2,000	0		
1854	Construction (AS)	03/2020	09/2020	0.326%	1,400	0		
1855	Construction (AS)	03/2020	09/2020	0.326%	2,000	0		
1856	Construction (AS)	04/2020	09/2020	0.240%	700	0		
1857	Corps	09/2015	09/2033	3.134%	4,000	4,000		
1858	Corps	02/2016	02/2045	0.148%	3,000	3,000		
1859	Corps	04/2016	04/2031	2.661%	53,000	53,000		
1860	Corps	05/2016	05/2030	2.599%	15,000	15,000		
1861	Corps	07/2016	07/2030	2.145%	25,000	25,000		
1862	Corps	08/2018	02/2048	0.148%	7,000	7,000		
1863	Corps	08/2018	03/2048	1.896%	24,000	0		
1864	Corps	08/2018	05/2048	1.669%	21,000	0		
1865	Corps	08/2018	06/2048	1.630%	24,000	0		
1866	Corps	08/2018	07/2048	1.580%	32,000	0		
1867	Corps	08/2018	10/2048	1.681%	27,000	0		
1868	Corps	08/2018	11/2048	1.669%	25,000	0		
1869	Corps	09/2018	01/2048	1.580%	2,000	0		
1870	Corps	09/2018	03/2048	1.896%	54,200	0		
1871	Corps	09/2018	07/2048	1.580%	64,000	0		
1872	Corps	09/2018	08/2048	0.148%	17,000	17,000		
1873	Corps	08/2019	08/2021	0.119%	21,000	21,000		
1874	Corps	11/2019	07/2021	0.138%	34,000	34,000		
1875	Corps	11/2019	09/2021	0.112%	40,000	40,000		
1876	Corps	03/2020	09/2047	2.103%	24,000	24,000		
1877	Corps	03/2020	09/2048	2.116%	54,200	54,200		
1878	Corps	04/2020	04/2028	0.945%	27,000	27,000		
1879	Corps	04/2020	04/2044	1.744%	40,000	40,000		
1880	Corps	04/2020	04/2050	1.827%	50,000	50,000		
1881	Corps	05/2020	05/2048	1.953%	21,000	21,000		
1882	Corps	05/2020	11/2048	1.957%	25,000	25,000		
1883	Corps	06/2020	06/2049	1.812%	24,000	24,000		
1884	Corps	07/2020	01/2046	1.640%	2,000	2,000		
1885	Corps	07/2020	07/2046	1.651%	32,000	32,000		
1886	Corps	07/2020	07/2047	1.667%	64,000	64,000		
1887	Fish and Wildlife	05/1989	05/1999	8.950%	25,000	0		
1888	Fish and Wildlife	05/1991	05/1996	7.950%	50,000	0		
1889	Fish and Wildlife	02/1993	02/2008	6.950%	20,000	0		
1890	Fish and Wildlife	09/1994	09/1999	7.650%	20,000	0		
1891	Fish and Wildlife	08/1995	08/2010	7.200%	35,000	0		
1892	Fish and Wildlife	01/1998	01/2013	6.100%	60,000	0		
1893	Fish and Wildlife	09/1999	09/2003	6.300%	20,000	0		
1894	Fish and Wildlife	01/2001	01/2005	5.650%	25,000	0		
1895	Fish and Wildlife	09/2003	09/2007	3.100%	20,000	0		
1896	Fish and Wildlife	09/2005	09/2008	4.250%	20,000	0		
1897	Fish and Wildlife	09/2006	09/2010	4.950%	20,000	0		
1898	Fish and Wildlife	06/2007	06/2010	5.350%	30,000	0		
1899	Fish and Wildlife	09/2007	09/2011	4.700%	20,000	0		
1900	Fish and Wildlife	09/2008	09/2012	3.444%	20,000	0		
1901	Fish and Wildlife	06/2009	06/2024	4.556%	20,000	20,000		
1902	Fish and Wildlife	12/2009	12/2018	4.069%	26,000	0		
1903	Fish and Wildlife	08/2010	08/2019	2.646%	20,000	0		
1904	Fish and Wildlife	01/2011	01/2026	4.440%	50,000	50,000		
1905	Fish and Wildlife	02/2011	02/2026	4.398%	15,000	15,000		
1906	Fish and Wildlife	06/2011	06/2026	4.205%	15,000	15,000		
1907	Fish and Wildlife	01/2012	01/2038	3.893%	30,000	0		
1908	Fish and Wildlife	05/2012	05/2029	0.140%	5,000	0		
1909	Fish and Wildlife	06/2012	06/2041	3.666%	11,000	0		
1910	Fish and Wildlife	08/2012	08/2027	3.090%	11,000	0		
1911	Fish and Wildlife	11/2012	11/2027	5.046%	25,000	0		
1912	Fish and Wildlife	01/2013	09/2013	0.149%	60,000	0		
1913	Fish and Wildlife	03/2013	03/2028	5.445%	10,000	0		
1914	Fish and Wildlife	04/2013	04/2028	5.042%	6,000	0		
1915	Fish and Wildlife	06/2013	06/2028	6.607%	8,000	0		
1916	Fish and Wildlife	08/2013	08/2028	7.249%	5,000	0		
1917	Fish and Wildlife	10/2013	12/2026	3.717%	28,000	28,000		
1918	Fish and Wildlife	10/2013	05/2027	3.762%	11,000	11,000		
1919	Fish and Wildlife	10/2013	10/2028	3.880%	22,000	22,000		
1920	Fish and Wildlife	11/2013	09/2022	3.125%	31,000	31,000		

**TABLE 12A:
HISTORICAL INVESTMENTS
FY 2023
(\$000s)**

	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
1921	Fish and Wildlife	11/2013	09/2023	3.375%	23,000	23,000	09/2025	0.417%
1922	Fish and Wildlife	11/2013	05/2027	0.205%	5,000	5,000		
1923	Fish and Wildlife	01/2014	01/2029	3.896%	7,000	7,000		
1924	Fish and Wildlife	04/2014	02/2029	0.148%	7,000	7,000		
1925	Fish and Wildlife	05/2014	04/2027	0.230%	11,000	11,000		
1926	Fish and Wildlife	08/2014	07/2029	0.176%	5,000	5,000		
1927	Fish and Wildlife	10/2014	01/2029	0.176%	15,000	15,000		
1928	Fish and Wildlife	11/2014	03/2030	1.896%	8,000	0		
1929	Fish and Wildlife	01/2015	01/2024	1.908%	5,000	0		
1930	Fish and Wildlife	03/2015	03/2028	2.511%	3,000	3,000		
1931	Fish and Wildlife	10/2015	02/2031	0.148%	4,000	4,000		
1932	Fish and Wildlife	10/2015	03/2031	0.128%	5,000	5,000		
1933	Fish and Wildlife	02/2016	02/2031	0.148%	4,000	4,000		
1934	Fish and Wildlife	09/2018	02/2048	2.476%	18,000	0		
1935	Fish and Wildlife	12/2018	09/2019	2.568%	26,000	0		
1936	Fish and Wildlife	08/2019	02/2021	0.119%	18,000	0		
1937	Fish and Wildlife	08/2019	08/2021	0.119%	4,000	4,000		
1938	Fish and Wildlife	11/2019	04/2021	0.138%	20,000	20,000		
1939	Fish and Wildlife	11/2019	08/2021	0.119%	27,000	27,000		
1940	Fish and Wildlife	03/2020	03/2030	1.274%	8,000	8,000		
1941	Technology (G)	01/2015	01/2021	1.469%	35,000	0		
1942	Technology (G)	10/2015	07/2022	0.176%	6,000	6,000		
1943	Technology (G)	08/2019	08/2021	0.119%	3,000	3,000		
	Totals:				\$14,219,491	\$3,388,738		

**TABLE 12B:
PROJECTED INVESTMENTS
FY 2023
(\$000s)**

	A	B	C	D	E
	Project	In Service Date	Due Date	Interest Rate	Current Principal
1	Bureau Direct	05/2022	09/2022	0.160%	49,784
2	Bureau Direct	05/2023	09/2023	0.160%	54,060
3	Bureau Direct	09/2023	09/2052	2.748%	1,039
4	Columbia River Fish Mitigation	09/2021	09/2071	1.375%	10,731
5	Columbia River Fish Mitigation	09/2022	09/2072	2.420%	8,210
6	Columbia River Fish Mitigation	09/2023	09/2073	2.622%	8,656
7	Construction (AS)	08/2021	09/2022	0.330%	2,000
8	Construction (AS)	05/2022	09/2022	0.160%	7,152
9	Construction (AS)	05/2023	05/2029	1.052%	7,063
10	Construction (AS)	09/2023	09/2027	0.728%	27,118
11	Corps	06/2021	09/2022	0.330%	82,000
12	Corps	07/2021	09/2022	0.330%	82,000
13	Corps	08/2021	09/2022	0.330%	82,000
14	Corps	04/2022	09/2022	0.160%	61,720
15	Corps	05/2022	09/2023	0.200%	61,720
16	Corps	06/2022	09/2023	0.200%	61,720
17	Corps	04/2023	09/2023	0.160%	66,162
18	Corps	05/2023	09/2023	0.160%	66,162
19	Corps	06/2023	09/2023	0.160%	66,162
20	Corps	09/2023	09/2044	2.316%	85,722
21	Fish and Wildlife	08/2021	09/2022	0.330%	20,000
22	Fish and Wildlife	05/2022	09/2023	0.200%	43,000
23	Fish and Wildlife	05/2023	05/2038	1.993%	43,000
24	Fish and Wildlife	09/2023	09/2038	1.993%	65,998
25	Totals:				\$1,063,177

**TABLE 12C:
INTEREST CALCULATION
FY 2023
(\$000s)**

A	B	D	E	F	G	H	I	J
Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
1	2021 Albeni Falls	Historical	99	4.322%	4	-	-	4
2	2021 Boise	Historical	121	3.026%	4	-	-	4
3	2021 Bonneville Dam	Historical	16,237	3.854%	626	-	-	626
4	2021 Chief Joseph	Historical	24,769	4.373%	1,083	-	-	1,083
5	2021 Columbia Basin	Historical	14,332	3.168%	454	-	-	454
6	2021 Columbia River Fish Mitigation	Historical	1,046,689	3.507%	36,709	-	-	36,709
7	2021 Cougar	Historical	4,971	2.953%	147	-	-	147
8	2021 Detroit Lake/Big Cliff	Historical	578	2.913%	17	-	-	17
9	2021 Dworshak	Historical	2,409	4.352%	105	-	-	105
10	2021 Green Peter/Foster	Historical	648	3.663%	24	-	-	24
11	2021 Hills Creek	Historical	154	3.404%	5	-	-	5
12	2021 Hungry Horse Dam	Historical	1,336	4.070%	54	-	-	54
13	2021 Ice Harbor	Historical	8,118	3.663%	297	-	-	297
14	2021 John Day	Historical	8,728	3.673%	321	-	-	321
15	2021 Libby	Historical	494	3.193%	16	-	-	16
16	2021 Little Goose	Historical	11,478	2.904%	333	-	-	333
17	2021 Lookout Dam	Historical	311	3.396%	11	-	-	11
18	2021 Lost Creek	Historical	7	3.748%	-	-	-	-
19	2021 Lower Granite	Historical	31,775	2.858%	908	-	-	908
20	2021 Lower Monument	Historical	5,235	3.827%	200	-	-	200
21	2021 Lower Snake Fish and Wildlife	Historical	5,428	3.427%	186	-	-	186
22	2021 McNary	Historical	7,132	3.981%	284	-	-	284
23	2021 Minidoka/Palisades	Historical	19,722	3.238%	639	-	-	639
24	2021 RRP - Green Springs	Historical	83	2.360%	2	-	-	2
25	2021 The Dalles	Historical	2,519	4.243%	107	-	-	107
26	2021 Yakima Chandler/Kenniwick	Historical	65	3.135%	2	-	-	2
27	2021 Bureau Direct	Historical	881,000	2.366%	20,847	-	133	20,980
28	2021 Conservation	Historical	349,000	1.805%	6,298	-	(80)	6,218
29	2021 Construction (AS)	Historical	14,100	1.629%	230	-	(14)	216
30	2021 Construction (AS)	New	2,000	-	-	-	1	1
31	2021 Corps	Historical	582,200	1.563%	9,098	-	(10)	9,089
32	2021 Corps	New	246,000	-	-	-	135	135
33	2021 Fish and Wildlife	Historical	340,000	2.672%	9,084	-	(12)	9,072
34	2021 Fish and Wildlife	New	20,000	-	-	-	6	6
35	2021 Technology (G)	Historical	9,000	0.157%	14	-	0	14
36	2021 Float	Historical	-	-	(255)	-	-	(255)
37	FY 2021 Subtotal:		3,656,738		87,854		159	88,013
38	2022 Albeni Falls	Historical	99	4.322%	4	-	-	4
39	2022 Boise	Historical	121	3.026%	4	-	-	4
40	2022 Bonneville Dam	Historical	16,237	3.854%	626	-	-	626
41	2022 Chief Joseph	Historical	24,769	4.373%	1,083	-	-	1,083
42	2022 Columbia Basin	Historical	14,332	3.168%	454	-	-	454
43	2022 Columbia River Fish Mitigation	Historical	962,420	3.385%	32,582	-	-	32,582
44	2022 Cougar	Historical	4,971	2.953%	147	-	-	147
45	2022 Detroit Lake/Big Cliff	Historical	578	2.913%	17	-	-	17
46	2022 Dworshak	Historical	2,409	4.351%	105	-	-	105
47	2022 Green Peter/Foster	Historical	648	3.663%	24	-	-	24
48	2022 Hills Creek	Historical	154	3.404%	5	-	-	5
49	2022 Hungry Horse Dam	Historical	1,336	4.070%	54	-	-	54
50	2022 Ice Harbor	Historical	8,118	3.663%	297	-	-	297
51	2022 John Day	Historical	8,728	3.673%	321	-	-	321
52	2022 Libby	Historical	494	3.192%	16	-	-	16
53	2022 Little Goose	Historical	11,478	2.904%	333	-	-	333
54	2022 Lookout Dam	Historical	311	3.396%	11	-	-	11
55	2022 Lost Creek	Historical	7	3.748%	-	-	-	-
56	2022 Lower Granite	Historical	31,775	2.858%	908	-	-	908
57	2022 Lower Monument	Historical	5,235	3.827%	200	-	-	200
58	2022 Lower Snake Fish and Wildlife	Historical	5,428	3.427%	186	-	-	186
59	2022 McNary	Historical	7,132	3.981%	284	-	-	284
60	2022 Minidoka/Palisades	Historical	19,722	3.238%	639	-	-	639
61	2022 RRP - Green Springs	Historical	83	2.360%	2	-	-	2
62	2022 The Dalles	Historical	2,519	4.243%	107	-	-	107
63	2022 Yakima Chandler/Kenniwick	Historical	65	3.135%	2	-	-	2
64	2022 Bureau Direct	Historical	703,000	2.709%	19,041	-	(20)	19,021
65	2022 Bureau Direct	New	49,784	0.053%	27	-	-	27
66	2022 Conservation	Historical	330,000	1.763%	5,819	-	(58)	5,761
67	2022 Construction (AS)	Historical	12,000	1.377%	165	-	(23)	142
68	2022 Construction (AS)	New	7,152	0.053%	4	-	-	4
69	2022 Corps	Historical	733,200	1.354%	9,928	-	(135)	9,793
70	2022 Corps	New	185,159	0.022%	41	-	72	113
71	2022 Fish and Wildlife	Historical	309,000	2.943%	9,094	-	(6)	9,088

**TABLE 12C:
INTEREST CALCULATION
FY 2023
(\$000s)**

A	B	D	E	F	G	H	I	J
Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
72	2022 Fish and Wildlife	New	43,000	-	-	-	29	29
73	2022 Technology (G)	Historical	6,000	0.176%	11	-	(2)	9
74	2022 Float	Historical	-	-	(149)	-	-	(149)
75	FY 2022 Subtotal:		3,507,463		82,391	-	(143)	82,248
76	2023 Albeni Falls	Historical	99	4.322%	4	-	-	4
77	2023 Boise	Historical	121	3.026%	4	-	-	4
78	2023 Bonneville Dam	Historical	16,237	3.854%	626	-	-	626
79	2023 Chief Joseph	Historical	24,769	4.373%	1,083	-	-	1,083
80	2023 Columbia Basin	Historical	14,332	3.168%	454	-	-	454
81	2023 Columbia River Fish Mitigation	Historical	970,630	3.377%	32,780	-	-	32,780
82	2023 Cougar	Historical	4,971	2.953%	147	-	-	147
83	2023 Detroit Lake/Big Cliff	Historical	578	2.913%	17	-	-	17
84	2023 Dworshak	Historical	2,409	4.351%	105	-	-	105
85	2023 Green Peter/Foster	Historical	648	3.663%	24	-	-	24
86	2023 Hills Creek	Historical	154	3.404%	5	-	-	5
87	2023 Hungry Horse Dam	Historical	1,336	4.070%	54	-	-	54
88	2023 Ice Harbor	Historical	8,118	3.663%	297	-	-	297
89	2023 John Day	Historical	8,728	3.673%	321	-	-	321
90	2023 Libby	Historical	494	3.192%	16	-	-	16
91	2023 Little Goose	Historical	11,478	2.904%	333	-	-	333
92	2023 Lookout Dam	Historical	311	3.396%	11	-	-	11
93	2023 Lost Creek	Historical	7	3.748%	-	-	-	-
94	2023 Lower Granite	Historical	31,775	2.858%	908	-	-	908
95	2023 Lower Monument	Historical	5,235	3.827%	200	-	-	200
96	2023 Lower Snake Fish and Wildlife	Historical	5,428	3.427%	186	-	-	186
97	2023 McNary	Historical	7,132	3.981%	284	-	-	284
98	2023 Minidoka/Palisades	Historical	19,722	3.238%	639	-	-	639
99	2023 RRP - Green Springs	Historical	83	2.360%	2	-	-	2
100	2023 The Dalles	Historical	2,519	4.243%	107	-	-	107
101	2023 Yakima Chandler/Kenniwick	Historical	65	3.135%	2	-	-	2
102	2023 Bureau Direct	Historical	682,455	2.691%	18,367	-	(329)	18,038
103	2023 Bureau Direct	New	54,060	0.053%	29	-	-	29
104	2023 Conservation	Historical	285,000	1.393%	3,971	-	(838)	3,133
105	2023 Construction (AS)	Historical	4,200	3.064%	129	-	-	129
106	2023 Construction (AS)	New	7,063	-	-	-	25	25
107	2023 Corps	Historical	610,640	1.523%	9,301	-	(72)	9,228
108	2023 Corps	New	198,486	0.053%	106	-	-	106
109	2023 Fish and Wildlife	Historical	301,000	2.714%	8,168	-	(29)	8,139
110	2023 Fish and Wildlife	New	43,000	-	-	-	287	287
111	2023 Float	Historical	-	-	(179)	-	-	(179)
112	FY 2023 Subtotal:		3,323,282		78,500	-	(956)	77,544
113	2024 Albeni Falls	Historical	99	4.322%	4	-	-	4
114	2024 Boise	Historical	121	3.026%	4	-	-	4
115	2024 Bonneville Dam	Historical	16,237	3.854%	626	-	-	626
116	2024 Chief Joseph	Historical	24,769	4.373%	1,083	-	-	1,083
117	2024 Columbia Basin	Historical	14,332	3.168%	454	-	-	454
118	2024 Columbia River Fish Mitigation	Historical	979,286	3.371%	33,007	-	-	33,007
119	2024 Cougar	Historical	4,971	2.953%	147	-	-	147
120	2024 Detroit Lake/Big Cliff	Historical	578	2.913%	17	-	-	17
121	2024 Dworshak	Historical	2,409	4.351%	105	-	-	105
122	2024 Green Peter/Foster	Historical	648	3.663%	24	-	-	24
123	2024 Hills Creek	Historical	154	3.404%	5	-	-	5
124	2024 Hungry Horse Dam	Historical	1,336	4.070%	54	-	-	54
125	2024 Ice Harbor	Historical	8,118	3.663%	297	-	-	297
126	2024 John Day	Historical	8,728	3.673%	321	-	-	321
127	2024 Libby	Historical	494	3.192%	16	-	-	16
128	2024 Little Goose	Historical	11,478	2.904%	333	-	-	333
129	2024 Lookout Dam	Historical	311	3.396%	11	-	-	11
130	2024 Lost Creek	Historical	7	3.748%	-	-	-	-
131	2024 Lower Granite	Historical	31,775	2.858%	908	-	-	908
132	2024 Lower Monument	Historical	5,235	3.827%	200	-	-	200
133	2024 Lower Snake Fish and Wildlife	Historical	5,428	3.427%	186	-	-	186
134	2024 McNary	Historical	7,132	3.981%	284	-	-	284
135	2024 Minidoka/Palisades	Historical	19,722	3.238%	639	-	-	639
136	2024 RRP - Green Springs	Historical	83	2.360%	2	-	-	2
137	2024 The Dalles	Historical	2,519	4.243%	107	-	-	107
138	2024 Yakima Chandler/Kenniwick	Historical	65	3.135%	2	-	-	2
139	2024 Bureau Direct	Historical	679,480	1.985%	13,486	-	(1,454)	12,031
140	2024 Conservation	Historical	183,000	0.403%	738	-	(130)	608
141	2024 Construction (AS)	Historical	38,381	0.876%	336	-	(32)	304
142	2024 Corps	Historical	572,922	1.914%	10,967	-	-	10,967

**TABLE 12C:
INTEREST CALCULATION
FY 2023
(\$000s)**

A	B	D	E	F	G	H	I	J
Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
143	2024 Fish and Wildlife	Historical	366,998	2.601%	9,545	-	(228)	9,318
144	2024 Replacements	New	252,839	1.400%	3,540	-	-	3,540
145	2024 Float	Historical	-	-	(127)	-	-	(127)
146	FY 2024 Subtotal:		3,239,654		77,321	-	(1,844)	75,477
147	2025 Albeni Falls	Historical	99	4.322%	4	-	-	4
148	2025 Boise	Historical	121	3.026%	4	-	-	4
149	2025 Bonneville Dam	Historical	16,237	3.854%	626	-	-	626
150	2025 Chief Joseph	Historical	24,769	4.373%	1,083	-	-	1,083
151	2025 Columbia Basin	Historical	14,332	3.168%	454	-	-	454
152	2025 Columbia River Fish Mitigation	Historical	956,303	3.343%	31,973	-	-	31,973
153	2025 Cougar	Historical	4,971	2.953%	147	-	-	147
154	2025 Detroit Lake/Big Cliff	Historical	578	2.913%	17	-	-	17
155	2025 Dworshak	Historical	2,409	4.351%	105	-	-	105
156	2025 Green Peter/Foster	Historical	648	3.663%	24	-	-	24
157	2025 Hills Creek	Historical	154	3.404%	5	-	-	5
158	2025 Hungry Horse Dam	Historical	1,336	4.070%	54	-	-	54
159	2025 Ice Harbor	Historical	8,118	3.663%	297	-	-	297
160	2025 John Day	Historical	8,128	3.612%	294	-	-	294
161	2025 Libby	Historical	494	3.192%	16	-	-	16
162	2025 Little Goose	Historical	11,478	2.904%	333	-	-	333
163	2025 Lookout Dam	Historical	311	3.396%	11	-	-	11
164	2025 Lost Creek	Historical	7	3.748%	-	-	-	-
165	2025 Lower Granite	Historical	31,775	2.858%	908	-	-	908
166	2025 Lower Monument	Historical	4,949	3.788%	188	-	-	188
167	2025 Lower Snake Fish and Wildlife	Historical	5,049	3.346%	169	-	-	169
168	2025 McNary	Historical	3,052	3.287%	100	-	-	100
169	2025 Minidoka/Palisades	Historical	19,722	3.238%	639	-	-	639
170	2025 RRP - Green Springs	Historical	83	2.360%	2	-	-	2
171	2025 The Dalles	Historical	489	3.174%	16	-	-	16
172	2025 Yakima Chandler/Kennewick	Historical	65	3.135%	2	-	-	2
173	2025 Bureau Direct	Historical	515,039	1.836%	9,458	-	-	9,458
174	2025 Conservation	Historical	101,000	0.433%	438	-	(30)	408
175	2025 Construction (AS)	Historical	34,181	0.795%	272	-	-	272
176	2025 Corps	Historical	572,922	1.914%	10,967	-	-	10,967
177	2025 Fish and Wildlife	Historical	346,998	2.488%	8,634	-	-	8,634
178	2025 Replacements	Historical	252,839	2.800%	7,080	-	-	7,080
179	2025 Replacements	New	252,839	1.400%	3,540	-	-	3,540
180	2025 Float	Historical	-	-	(51)	-	-	(51)
181	FY 2025 Subtotal:		3,191,495		77,807	-	(30)	77,776
182	2026 Albeni Falls	Historical	99	4.322%	4	-	-	4
183	2026 Boise	Historical	121	3.026%	4	-	-	4
184	2026 Bonneville Dam	Historical	16,237	3.854%	626	-	-	626
185	2026 Chief Joseph	Historical	24,769	4.373%	1,083	-	-	1,083
186	2026 Columbia Basin	Historical	14,332	3.168%	454	-	-	454
187	2026 Columbia River Fish Mitigation	Historical	945,913	3.331%	31,506	-	-	31,506
188	2026 Cougar	Historical	4,971	2.953%	147	-	-	147
189	2026 Detroit Lake/Big Cliff	Historical	578	2.913%	17	-	-	17
190	2026 Dworshak	Historical	2,409	4.351%	105	-	-	105
191	2026 Green Peter/Foster	Historical	648	3.663%	24	-	-	24
192	2026 Hills Creek	Historical	154	3.404%	5	-	-	5
193	2026 Hungry Horse Dam	Historical	1,336	4.070%	54	-	-	54
194	2026 Ice Harbor	Historical	8,118	3.663%	297	-	-	297
195	2026 John Day	Historical	8,128	3.612%	294	-	-	294
196	2026 Libby	Historical	494	3.192%	16	-	-	16
197	2026 Little Goose	Historical	11,478	2.904%	333	-	-	333
198	2026 Lookout Dam	Historical	311	3.396%	11	-	-	11
199	2026 Lost Creek	Historical	7	3.748%	-	-	-	-
200	2026 Lower Granite	Historical	31,775	2.858%	908	-	-	908
201	2026 Lower Monument	Historical	4,949	3.788%	188	-	-	188
202	2026 Lower Snake Fish and Wildlife	Historical	5,049	3.346%	169	-	-	169
203	2026 McNary	Historical	3,052	3.287%	100	-	-	100
204	2026 Minidoka/Palisades	Historical	19,722	3.238%	639	-	-	639
205	2026 RRP - Green Springs	Historical	83	2.360%	2	-	-	2
206	2026 The Dalles	Historical	489	3.174%	16	-	-	16
207	2026 Yakima Chandler/Kennewick	Historical	65	3.135%	2	-	-	2
208	2026 Bureau Direct	Historical	515,039	1.836%	9,458	-	-	9,458
209	2026 Conservation	Historical	37,000	0.605%	224	-	(45)	179
210	2026 Construction (AS)	Historical	34,181	0.795%	272	-	-	272
211	2026 Corps	Historical	572,922	1.914%	10,967	-	-	10,967
212	2026 Fish and Wildlife	Historical	323,998	2.191%	7,098	-	(580)	6,519
213	2026 Replacements	Historical	505,679	2.800%	14,159	-	-	14,159

**TABLE 12C:
INTEREST CALCULATION
FY 2023
(\$000s)**

A	B	D	E	F	G	H	I	J
Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
214	2026 Replacements	New	252,839	1.400%	3,540	-	-	3,540
215	2026 Float	Historical	-	-	(54)	-	-	(54)
216	FY 2026 Subtotal:		3,346,945		82,666	-	(624)	82,041
217	2027 Albeni Falls	Historical	99	4.322%	4	-	-	4
218	2027 Boise	Historical	121	3.026%	4	-	-	4
219	2027 Bonneville Dam	Historical	16,237	3.854%	626	-	-	626
220	2027 Chief Joseph	Historical	24,769	4.373%	1,083	-	-	1,083
221	2027 Columbia Basin	Historical	14,332	3.168%	454	-	-	454
222	2027 Columbia River Fish Mitigation	Historical	931,565	3.313%	30,860	-	-	30,860
223	2027 Cougar	Historical	4,971	2.953%	147	-	-	147
224	2027 Detroit Lake/Big Cliff	Historical	578	2.913%	17	-	-	17
225	2027 Dworshak	Historical	2,348	4.348%	102	-	-	102
226	2027 Green Peter/Foster	Historical	648	3.663%	24	-	-	24
227	2027 Hills Creek	Historical	154	3.404%	5	-	-	5
228	2027 Hungry Horse Dam	Historical	1,336	4.070%	54	-	-	54
229	2027 Ice Harbor	Historical	8,118	3.663%	297	-	-	297
230	2027 John Day	Historical	8,128	3.612%	294	-	-	294
231	2027 Libby	Historical	494	3.192%	16	-	-	16
232	2027 Little Goose	Historical	11,478	2.904%	333	-	-	333
233	2027 Lookout Dam	Historical	311	3.396%	11	-	-	11
234	2027 Lost Creek	Historical	7	3.748%	-	-	-	-
235	2027 Lower Granite	Historical	31,775	2.858%	908	-	-	908
236	2027 Lower Monument	Historical	4,949	3.788%	188	-	-	188
237	2027 Lower Snake Fish and Wildlife	Historical	5,049	3.346%	169	-	-	169
238	2027 McNary	Historical	3,052	3.287%	100	-	-	100
239	2027 Minidoka/Palisades	Historical	19,722	3.238%	639	-	-	639
240	2027 RRP - Green Springs	Historical	83	2.360%	2	-	-	2
241	2027 The Dalles	Historical	489	3.174%	16	-	-	16
242	2027 Yakima Chandler/Kennewick	Historical	65	3.135%	2	-	-	2
243	2027 Bureau Direct	Historical	515,039	1.836%	9,458	-	-	9,458
244	2027 Conservation	Historical	31,000	0.279%	86	-	-	86
245	2027 Construction (AS)	Historical	34,181	0.795%	272	-	-	272
246	2027 Corps	Historical	572,922	1.914%	10,967	-	-	10,967
247	2027 Fish and Wildlife	Historical	243,998	1.848%	4,509	-	(413)	4,097
248	2027 Replacements	Historical	758,518	2.800%	21,239	-	-	21,239
249	2027 Replacements	New	252,839	1.400%	3,540	-	-	3,540
250	2027 Float	Historical	-	-	(55)	-	-	(55)
251	FY 2027 Subtotal:		3,499,375		86,370	-	(413)	85,957
252	2028 Albeni Falls	Historical	99	4.322%	4	-	-	4
253	2028 Boise	Historical	118	2.999%	4	-	-	4
254	2028 Bonneville Dam	Historical	16,237	3.854%	626	-	-	626
255	2028 Chief Joseph	Historical	24,769	4.373%	1,083	-	-	1,083
256	2028 Columbia Basin	Historical	12,994	3.043%	395	-	-	395
257	2028 Columbia River Fish Mitigation	Historical	925,515	3.306%	30,595	-	-	30,595
258	2028 Cougar	Historical	4,971	2.953%	147	-	-	147
259	2028 Detroit Lake/Big Cliff	Historical	578	2.913%	17	-	-	17
260	2028 Dworshak	Historical	29	2.122%	1	-	-	1
261	2028 Green Peter/Foster	Historical	648	3.663%	24	-	-	24
262	2028 Hills Creek	Historical	154	3.404%	5	-	-	5
263	2028 Hungry Horse Dam	Historical	1,276	4.056%	52	-	-	52
264	2028 Ice Harbor	Historical	5,503	3.325%	183	-	-	183
265	2028 John Day	Historical	6,580	3.432%	226	-	-	226
266	2028 Libby	Historical	494	3.192%	16	-	-	16
267	2028 Little Goose	Historical	8,307	2.342%	195	-	-	195
268	2028 Lookout Dam	Historical	311	3.396%	11	-	-	11
269	2028 Lost Creek	Historical	7	3.748%	-	-	-	-
270	2028 Lower Granite	Historical	26,106	2.529%	660	-	-	660
271	2028 Lower Monument	Historical	2,617	3.266%	85	-	-	85
272	2028 Lower Snake Fish and Wildlife	Historical	5,049	3.346%	169	-	-	169
273	2028 McNary	Historical	3,052	3.287%	100	-	-	100
274	2028 Minidoka/Palisades	Historical	19,722	3.238%	639	-	-	639
275	2028 RRP - Green Springs	Historical	83	2.360%	2	-	-	2
276	2028 The Dalles	Historical	489	3.174%	16	-	-	16
277	2028 Yakima Chandler/Kennewick	Historical	49	2.751%	1	-	-	1
278	2028 Bureau Direct	Historical	515,039	1.836%	9,458	-	-	9,458
279	2028 Conservation	Historical	25,000	0.115%	29	-	(24)	5
280	2028 Construction (AS)	Historical	7,063	1.052%	74	-	-	74
281	2028 Corps	Historical	572,922	1.914%	10,967	-	(106)	10,862
282	2028 Fish and Wildlife	Historical	188,998	1.853%	3,502	-	-	3,502
283	2028 Replacements	Historical	1,011,358	2.800%	28,318	-	-	28,318
284	2028 Replacements	New	252,839	1.400%	3,540	-	-	3,540

**TABLE 12C:
INTEREST CALCULATION
FY 2023
(\$000s)**

A	B	D	E	F	G	H	I	J
Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
285	2028 Float	Historical	-	-	(56)	-	-	(56)
286	FY 2028 Subtotal:		3,638,977		91,087		(130)	90,957
287	2029 Albeni Falls	Historical	99	4.322%	4	-	-	4
288	2029 Boise	Historical	118	2.999%	4	-	-	4
289	2029 Bonneville Dam	Historical	16,237	3.854%	626	-	-	626
290	2029 Chief Joseph	Historical	24,769	4.373%	1,083	-	-	1,083
291	2029 Columbia Basin	Historical	12,994	3.043%	395	-	-	395
292	2029 Columbia River Fish Mitigation	Historical	870,210	3.238%	28,176	-	-	28,176
293	2029 Cougar	Historical	4,971	2.953%	147	-	-	147
294	2029 Detroit Lake/Big Cliff	Historical	578	2.913%	17	-	-	17
295	2029 Dworshak	Historical	29	2.122%	1	-	-	1
296	2029 Green Peter/Foster	Historical	648	3.663%	24	-	-	24
297	2029 Hills Creek	Historical	154	3.404%	5	-	-	5
298	2029 Hungry Horse Dam	Historical	1,276	4.056%	52	-	-	52
299	2029 Ice Harbor	Historical	5,503	3.325%	183	-	-	183
300	2029 John Day	Historical	6,580	3.432%	226	-	-	226
301	2029 Libby	Historical	494	3.192%	16	-	-	16
302	2029 Little Goose	Historical	8,307	2.342%	195	-	-	195
303	2029 Lookout Dam	Historical	311	3.396%	11	-	-	11
304	2029 Lost Creek	Historical	7	3.748%	-	-	-	-
305	2029 Lower Granite	Historical	26,106	2.529%	660	-	-	660
306	2029 Lower Monument	Historical	2,617	3.266%	85	-	-	85
307	2029 Lower Snake Fish and Wildlife	Historical	5,049	3.346%	169	-	-	169
308	2029 McNary	Historical	3,052	3.287%	100	-	-	100
309	2029 Minidoka/Palisades	Historical	19,722	3.238%	639	-	-	639
310	2029 RRP - Green Springs	Historical	83	2.360%	2	-	-	2
311	2029 The Dalles	Historical	489	3.174%	16	-	-	16
312	2029 Yakima Chandler/Kenniwick	Historical	49	2.751%	1	-	-	1
313	2029 Bureau Direct	Historical	515,039	1.714%	8,827	-	(456)	8,370
314	2029 Construction (AS)	Historical	7,063	1.052%	74	-	(25)	49
315	2029 Corps	Historical	545,922	1.962%	10,712	-	-	10,712
316	2029 Fish and Wildlife	Historical	185,998	1.550%	2,883	-	(406)	2,477
317	2029 Replacements	Historical	1,264,197	2.800%	35,398	-	-	35,398
318	2029 Replacements	New	252,839	1.400%	3,540	-	-	3,540
319	2029 Float	Historical	-	-	(149)	-	-	(149)
320	FY 2029 Subtotal:		3,781,511		94,119		(887)	93,232
321	2030 Boise	Historical	118	2.999%	4	-	-	4
322	2030 Bonneville Dam	Historical	12,068	3.688%	445	-	-	445
323	2030 Chief Joseph	Historical	42	3.281%	1	-	-	1
324	2030 Columbia Basin	Historical	10,394	2.824%	294	-	-	294
325	2030 Columbia River Fish Mitigation	Historical	659,765	2.971%	19,601	-	-	19,601
326	2030 Cougar	Historical	4,780	2.899%	139	-	-	139
327	2030 Detroit Lake/Big Cliff	Historical	560	2.883%	16	-	-	16
328	2030 Dworshak	Historical	29	2.122%	1	-	-	1
329	2030 Green Peter/Foster	Historical	177	3.160%	6	-	-	6
330	2030 Hills Creek	Historical	142	3.375%	5	-	-	5
331	2030 Ice Harbor	Historical	4,478	3.204%	143	-	-	143
332	2030 John Day	Historical	6,050	3.375%	204	-	-	204
333	2030 Libby	Historical	302	2.772%	8	-	-	8
334	2030 Little Goose	Historical	8,277	2.335%	193	-	-	193
335	2030 Lookout Dam	Historical	294	3.375%	10	-	-	10
336	2030 Lower Granite	Historical	22,297	2.279%	508	-	-	508
337	2030 Lower Monument	Historical	1,187	2.532%	30	-	-	30
338	2030 Lower Snake Fish and Wildlife	Historical	3,281	2.826%	93	-	-	93
339	2030 McNary	Historical	1,729	2.879%	50	-	-	50
340	2030 Minidoka/Palisades	Historical	19,722	3.238%	639	-	-	639
341	2030 RRP - Green Springs	Historical	83	2.360%	2	-	-	2
342	2030 The Dalles	Historical	489	3.174%	16	-	-	16
343	2030 Yakima Chandler/Kenniwick	Historical	49	2.751%	1	-	-	1
344	2030 Bureau Direct	Historical	409,039	1.374%	5,621	-	(42)	5,578
345	2030 Corps	Historical	545,922	1.962%	10,712	-	(219)	10,493
346	2030 Fish and Wildlife	Historical	129,998	1.724%	2,241	-	-	2,241
347	2030 Replacements	Historical	1,517,036	2.800%	42,477	-	-	42,477
348	2030 Replacements	New	252,839	1.400%	3,540	-	-	3,540
349	2030 Float	Historical	-	-	(114)	-	-	(114)
350	FY 2030 Subtotal:		3,611,147		86,885		(262)	86,623
351	2031 Boise	Historical	118	1.500%	2	-	-	2
352	2031 Bonneville Dam	Historical	1,105	3.076%	34	-	-	34
353	2031 Chief Joseph	Historical	10	2.876%	-	-	-	-
354	2031 Columbia Basin	Historical	10,383	2.824%	293	-	-	293
355	2031 Columbia River Fish Mitigation	Historical	453,830	2.701%	12,259	-	-	12,259

**TABLE 12C:
INTEREST CALCULATION
FY 2023
(\$000s)**

A	B	D	E	F	G	H	I	J
Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
356	2031 Cougar	Historical	4,359	2.829%	123	-	-	123
357	2031 Detroit Lake/Big Cliff	Historical	560	2.878%	16	-	-	16
358	2031 Dworshak	Historical	29	2.122%	1	-	-	1
359	2031 Green Peter/Foster	Historical	148	3.017%	4	-	-	4
360	2031 Ice Harbor	Historical	4,363	3.200%	140	-	-	140
361	2031 Libby	Historical	287	2.739%	8	-	-	8
362	2031 Little Goose	Historical	8,277	2.335%	193	-	-	193
363	2031 Lower Granite	Historical	22,297	2.279%	508	-	-	508
364	2031 Lower Monument	Historical	1,098	2.463%	27	-	-	27
365	2031 Lower Snake Fish and Wildlife	Historical	3,160	2.791%	88	-	-	88
366	2031 McNary	Historical	1,717	2.875%	49	-	-	49
367	2031 Minidoka/Palisades	Historical	2,245	3.145%	71	-	-	71
368	2031 RRP - Green Springs	Historical	81	2.332%	2	-	-	2
369	2031 The Dalles	Historical	489	3.174%	16	-	-	16
370	2031 Yakima Chandler/Kenniwick	Historical	49	2.751%	1	-	-	1
371	2031 Bureau Direct	Historical	377,039	1.317%	4,965	-	(188)	4,777
372	2031 Corps	Historical	505,922	1.922%	9,723	-	(585)	9,138
373	2031 Fish and Wildlife	Historical	121,998	1.788%	2,181	-	(1)	2,180
374	2031 Replacements	Historical	1,769,876	2.800%	49,557	-	-	49,557
375	2031 Replacements	New	252,839	1.400%	3,540	-	-	3,540
376	2031 Float	Historical	-	-	(111)	-	-	(111)
377	FY 2031 Subtotal:		3,542,280		83,691	-	(774)	82,917
378	2032 Boise	Historical	-	-	-	-	-	-
379	2032 Bonneville Dam	Historical	268	2.875%	8	-	-	8
380	2032 Chief Joseph	Historical	10	2.876%	-	-	-	-
381	2032 Columbia Basin	Historical	3,084	2.291%	71	-	-	71
382	2032 Columbia River Fish Mitigation	Historical	264,508	2.247%	5,942	-	-	5,942
383	2032 Cougar	Historical	4,357	2.764%	120	-	-	120
384	2032 Dworshak	Historical	29	2.122%	1	-	-	1
385	2032 Green Peter/Foster	Historical	1	2.156%	-	-	-	-
386	2032 Libby	Historical	287	2.739%	8	-	-	8
387	2032 Little Goose	Historical	8,210	2.331%	191	-	-	191
388	2032 Lower Granite	Historical	18,822	2.125%	400	-	-	400
389	2032 Lower Monument	Historical	942	2.375%	22	-	-	22
390	2032 Lower Snake Fish and Wildlife	Historical	1,903	2.488%	47	-	-	47
391	2032 McNary	Historical	239	2.375%	6	-	-	6
392	2032 Minidoka/Palisades	Historical	272	2.576%	7	-	-	7
393	2032 RRP - Green Springs	Historical	64	1.062%	1	-	-	1
394	2032 The Dalles	Historical	25	2.600%	1	-	-	1
395	2032 Yakima Chandler/Kenniwick	Historical	49	2.751%	1	-	-	1
396	2032 Bureau Direct	Historical	350,039	1.240%	4,342	-	(103)	4,238
397	2032 Corps	Historical	448,922	1.617%	7,258	-	-	7,258
398	2032 Fish and Wildlife	Historical	108,998	1.993%	2,172	-	-	2,172
399	2032 Replacements	Historical	2,022,715	2.800%	56,636	-	-	56,636
400	2032 Replacements	New	252,839	1.400%	3,540	-	-	3,540
401	2032 Float	Historical	-	-	(116)	-	-	(116)
402	FY 2032 Subtotal:		3,486,585		80,657	-	(103)	80,554
403	2033 Columbia River Fish Mitigation	Historical	48,424	1.132%	548	-	-	548
404	2033 Dworshak	Historical	29	1.061%	-	-	-	-
405	2033 Green Peter/Foster	Historical	1	1.078%	-	-	-	-
406	2033 Libby	Historical	5	1.055%	-	-	-	-
407	2033 Little Goose	Historical	5,504	1.062%	58	-	-	58
408	2033 Lower Granite	Historical	18,822	1.063%	200	-	-	200
409	2033 Bureau Direct	Historical	318,872	1.175%	3,748	-	(456)	3,291
410	2033 Corps	Historical	344,938	1.577%	5,439	-	(301)	5,138
411	2033 Fish and Wildlife	Historical	108,998	1.390%	1,515	-	(287)	1,228
412	2033 Replacements	Historical	2,275,555	2.800%	63,716	-	-	63,716
413	2033 Replacements	New	252,839	1.400%	3,540	-	-	3,540
414	2033 Float	Historical	-	-	(124)	-	-	(124)
415	FY 2033 Subtotal:		3,373,988		78,640	-	(1,045)	77,595
416	2034 Columbia River Fish Mitigation	Historical	10,731	1.375%	148	-	-	148
417	2034 Bureau Direct	Historical	208,737	0.805%	1,681	-	(618)	1,063
418	2034 Corps	Historical	204,832	1.308%	2,680	-	(1,046)	1,633
419	2034 Replacements	Historical	2,528,394	2.800%	70,795	-	-	70,795
420	2034 Replacements	New	252,839	1.400%	3,540	-	-	3,540
421	2034 Float	Historical	-	-	(121)	-	-	(121)
422	FY 2034 Subtotal:		3,205,533		78,722	-	(1,665)	77,057
423	2035 Bureau Direct	Historical	25,218	0.099%	25	-	(4)	21
424	2035 Corps	Historical	17,119	0.100%	17	-	(3)	14
425	2035 Replacements	Historical	2,781,233	2.617%	72,775	-	-	72,775
426	2035 Replacements	New	252,839	1.400%	3,540	-	-	3,540

**TABLE 12C:
INTEREST CALCULATION
FY 2023
(\$000s)**

A	B	D	E	F	G	H	I	J
Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
427	2035 Float	Historical	-	-	(135)	-	-	(135)
428	FY 2035 Subtotal:		3,076,410		76,222		(7)	76,215
429	2036 Corps	Historical	-	-	-	-	-	-
430	2036 Replacements	Historical	2,669,818	2.586%	69,029	-	-	69,029
431	2036 Replacements	New	252,839	1.400%	3,540	-	-	3,540
432	2036 Float	Historical	-	-	(142)	-	-	(142)
433	FY 2036 Subtotal:		2,922,657		72,427		-	72,427
434	2037 Replacements	Historical	2,513,696	2.554%	64,205	-	-	64,205
435	2037 Replacements	New	252,839	1.400%	3,540	-	-	3,540
436	2037 Float	Historical	-	-	(147)	-	-	(147)
437	FY 2037 Subtotal:		2,766,535		67,598		-	67,598
438	2038 Replacements	Historical	2,325,194	2.512%	58,398	-	-	58,398
439	2038 Replacements	New	252,839	1.400%	3,540	-	-	3,540
440	2038 Float	Historical	-	-	(153)	-	-	(153)
441	FY 2038 Subtotal:		2,578,033		61,785		-	61,785
442	2039 Replacements	Historical	2,098,908	2.470%	51,838	-	-	51,838
443	2039 Replacements	New	252,839	1.400%	3,540	-	-	3,540
444	2039 Float	Historical	-	-	(160)	-	-	(160)
445	FY 2039 Subtotal:		2,351,747		55,217		-	55,217
446	2040 Replacements	Historical	1,856,624	2.406%	44,671	-	-	44,671
447	2040 Replacements	New	252,839	1.400%	3,540	-	-	3,540
448	2040 Float	Historical	-	-	(163)	-	-	(163)
449	FY 2040 Subtotal:		2,109,463		48,048		-	48,048
450	2041 Replacements	Historical	1,587,032	2.398%	38,059	-	-	38,059
451	2041 Replacements	New	252,839	1.400%	3,540	-	-	3,540
452	2041 Float	Historical	-	-	(165)	-	-	(165)
453	FY 2041 Subtotal:		1,839,871		41,435		-	41,435
454	2042 Replacements	Historical	1,384,336	2.243%	31,054	-	-	31,054
455	2042 Replacements	New	252,839	1.400%	3,540	-	-	3,540
456	2042 Float	Historical	-	-	(170)	-	-	(170)
457	FY 2042 Subtotal:		1,637,175		34,424		-	34,424
458	2043 Replacements	Historical	1,086,647	1.935%	21,027	-	-	21,027
459	2043 Replacements	New	252,839	1.400%	3,540	-	-	3,540
460	2043 Float	Historical	-	-	(204)	-	-	(204)
461	FY 2043 Subtotal:		1,339,487		24,363		-	24,363
462	2044 Replacements	Historical	668,117	1.589%	10,617	-	-	10,617
463	2044 Replacements	New	252,839	1.400%	3,540	-	-	3,540
464	2044 Float	Historical	-	-	(175)	-	-	(175)
465	FY 2044 Subtotal:		920,956		13,982		-	13,982
466	2045 Replacements	Historical	343,081	1.740%	5,968	-	-	5,968
467	2045 Replacements	New	252,839	1.400%	3,540	-	-	3,540
468	2045 Float	Historical	-	-	(83)	-	-	(83)
469	FY 2045 Subtotal:		595,920		9,425		-	9,425
470	2046 Replacements	Historical	336,077	1.668%	5,607	-	-	5,607
471	2046 Replacements	New	252,839	1.400%	3,540	-	-	3,540
472	2046 Float	Historical	-	-	(83)	-	-	(83)
473	FY 2046 Subtotal:		588,917		9,064		-	9,064
474	2047 Replacements	Historical	317,232	1.599%	5,071	-	-	5,071
475	2047 Replacements	New	252,839	1.400%	3,540	-	-	3,540
476	2047 Float	Historical	-	-	(83)	-	-	(83)
477	FY 2047 Subtotal:		570,071		8,528		-	8,528
478	2048 Replacements	Historical	297,853	1.518%	4,521	-	-	4,521
479	2048 Replacements	New	252,839	1.400%	3,540	-	-	3,540
480	2048 Float	Historical	-	-	(83)	-	-	(83)
481	FY 2048 Subtotal:		550,692		7,978		-	7,978
482	2049 Replacements	Historical	277,922	1.423%	3,955	-	-	3,955
483	2049 Replacements	New	252,839	1.400%	3,540	-	-	3,540
484	2049 Float	Historical	-	-	(83)	-	-	(83)
485	FY 2049 Subtotal:		530,761		7,412		-	7,412
486	2050 Replacements	Historical	257,425	1.400%	3,604	-	-	3,604
487	2050 Replacements	New	252,839	1.400%	3,540	-	-	3,540
488	2050 Float	Historical	-	-	(83)	-	-	(83)
489	FY 2050 Subtotal:		510,264		7,061		-	7,061
490	2051 Replacements	Historical	252,839	1.400%	3,540	-	-	3,540
491	2051 Replacements	New	252,839	1.400%	3,540	-	-	3,540
492	2051 Float	Historical	-	-	(83)	-	-	(83)
493	FY 2051 Subtotal:		505,679		6,996		-	6,996
494	2052 Replacements	Historical	252,839	1.400%	3,540	-	-	3,540
495	2052 Replacements	New	252,839	1.400%	3,540	-	-	3,540
496	2052 Float	Historical	-	-	(83)	-	-	(83)
497	FY 2052 Subtotal:		505,679		6,996		-	6,996

**TABLE 12C:
INTEREST CALCULATION
FY 2023
(\$000s)**

	A	B	D	E	F	G	H	I	J
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
498		2053 Replacements	Historical	252,839	1.400%	3,540	-	-	3,540
499		2053 Replacements	New	252,839	1.400%	3,540	-	-	3,540
500		2053 Float	Historical	-	-	(83)	-	-	(83)
501	FY 2053	Subtotal:		505,679		6,996	-	-	6,996
502		2054 Replacements	Historical	252,839	1.400%	3,540	-	-	3,540
503		2054 Replacements	New	252,839	1.400%	3,540	-	-	3,540
504		2054 Float	Historical	-	-	(83)	-	-	(83)
505	FY 2054	Subtotal:		505,679		6,996	-	-	6,996
506		2055 Replacements	Historical	252,839	1.400%	3,540	-	-	3,540
507		2055 Replacements	New	252,839	1.400%	3,540	-	-	3,540
508		2055 Float	Historical	-	-	(83)	-	-	(83)
509	FY 2055	Subtotal:		505,679		6,996	-	-	6,996
510		2056 Replacements	Historical	252,839	1.400%	3,540	-	-	3,540
511		2056 Replacements	New	252,839	1.400%	3,540	-	-	3,540
512		2056 Float	Historical	-	-	(83)	-	-	(83)
513	FY 2056	Subtotal:		505,679		6,996	-	-	6,996
514		2057 Replacements	Historical	252,839	1.400%	3,540	-	-	3,540
515		2057 Replacements	New	252,839	1.400%	3,540	-	-	3,540
516		2057 Float	Historical	-	-	(83)	-	-	(83)
517	FY 2057	Subtotal:		505,679		6,996	-	-	6,996
518		2058 Replacements	Historical	252,839	1.400%	3,540	-	-	3,540
519		2058 Replacements	New	252,839	1.400%	3,540	-	-	3,540
520		2058 Float	Historical	-	-	(83)	-	-	(83)
521	FY 2058	Subtotal:		505,679		6,996	-	-	6,996
522		2059 Replacements	Historical	252,839	1.400%	3,540	-	-	3,540
523		2059 Replacements	New	252,839	1.400%	3,540	-	-	3,540
524		2059 Float	Historical	-	-	(83)	-	-	(83)
525	FY 2059	Subtotal:		505,679		6,996	-	-	6,996
526		2060 Replacements	Historical	252,839	1.400%	3,540	-	-	3,540
527		2060 Replacements	New	252,839	1.400%	3,540	-	-	3,540
528		2060 Float	Historical	-	-	(83)	-	-	(83)
529	FY 2060	Subtotal:		505,679		6,996	-	-	6,996
530		2061 Replacements	Historical	252,839	1.400%	3,540	-	-	3,540
531		2061 Replacements	New	252,839	1.400%	3,540	-	-	3,540
532		2061 Float	Historical	-	-	(83)	-	-	(83)
533	FY 2061	Subtotal:		505,679		6,996	-	-	6,996
534		2062 Replacements	Historical	252,839	1.400%	3,540	-	-	3,540
535		2062 Replacements	New	252,839	1.400%	3,540	-	-	3,540
536		2062 Float	Historical	-	-	(83)	-	-	(83)
537	FY 2062	Subtotal:		505,679		6,996	-	-	6,996
538		2063 Replacements	Historical	252,839	1.400%	3,540	-	-	3,540
539		2063 Replacements	New	252,839	1.400%	3,540	-	-	3,540
540		2063 Float	Historical	-	-	(83)	-	-	(83)
541	FY 2063	Subtotal:		505,679		6,996	-	-	6,996
542		2064 Replacements	Historical	252,839	1.400%	3,540	-	-	3,540
543		2064 Replacements	New	252,839	1.400%	3,540	-	-	3,540
544		2064 Float	Historical	-	-	(83)	-	-	(83)
545	FY 2064	Subtotal:		505,679		6,996	-	-	6,996
546		2065 Replacements	Historical	252,839	1.400%	3,540	-	-	3,540
547		2065 Replacements	New	252,839	1.400%	3,540	-	-	3,540
548		2065 Float	Historical	-	-	(83)	-	-	(83)
549	FY 2065	Subtotal:		505,679		6,996	-	-	6,996
550		2066 Replacements	Historical	252,839	1.400%	3,540	-	-	3,540
551		2066 Replacements	New	252,839	1.400%	3,540	-	-	3,540
552		2066 Float	Historical	-	-	(83)	-	-	(83)
553	FY 2066	Subtotal:		505,679		6,996	-	-	6,996
554		2067 Replacements	Historical	252,839	1.400%	3,540	-	-	3,540
555		2067 Replacements	New	252,839	1.400%	3,540	-	-	3,540
556		2067 Float	Historical	-	-	(83)	-	-	(83)
557	FY 2067	Subtotal:		505,679		6,996	-	-	6,996
558		2068 Replacements	Historical	252,839	1.400%	3,540	-	-	3,540
559		2068 Replacements	New	252,839	1.400%	3,540	-	-	3,540
560		2068 Float	Historical	-	-	(83)	-	-	(83)
561	FY 2068	Subtotal:		505,679		6,996	-	-	6,996
562		2069 Replacements	Historical	252,839	1.400%	3,540	-	-	3,540
563		2069 Replacements	New	252,839	1.400%	3,540	-	-	3,540
564		2069 Float	Historical	-	-	(83)	-	-	(83)
565	FY 2069	Subtotal:		505,679		6,996	-	-	6,996
566		2070 Replacements	Historical	252,839	1.400%	3,540	-	-	3,540
567		2070 Replacements	New	252,839	1.400%	3,540	-	-	3,540
568		2070 Float	Historical	-	-	(83)	-	-	(83)

**TABLE 12C:
INTEREST CALCULATION
FY 2023
(\$000s)**

	A	B	D	E	F	G	H	I	J
	Fiscal Year	Project	Type	Current Principal	Rate	Interest	Premium	Net Interest Accrual	Total
569	FY 2070	Subtotal:		505,679		6,996	-	-	6,996
570		2071 Replacements	Historical	252,839	1.400%	3,540	-	-	3,540
571		2071 Replacements	New	252,839	1.400%	3,540	-	-	3,540
572		2071 Float	Historical	-	-	(83)	-	-	(83)
573	FY 2071	Subtotal:		505,679		6,996	-	-	6,996
574		2072 Replacements	Historical	252,839	1.400%	3,540	-	-	3,540
575		2072 Replacements	New	252,839	1.400%	3,540	-	-	3,540
576		2072 Float	Historical	-	-	(83)	-	-	(83)
577	FY 2072	Subtotal:		505,679		6,996	-	-	6,996
578		2073 Replacements	Historical	252,839	1.400%	3,540	-	-	3,540
579		2073 Replacements	New	252,839	1.400%	3,540	-	-	3,540
580		2073 Float	Historical	-	-	(83)	-	-	(83)
581	FY 2073	Subtotal:		505,679		6,996	-	-	6,996
582	Grand Total:			\$84,924,546		\$1,872,590	-	(\$8,724)	\$1,863,866

**TABLE 12D:
APPLICATION OF AMORTIZATION
FY 2023
(\$000s)**

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Maturity Date	Roll Rate	Principal Paid	Premium	Discount
1	2021	Fish and Wildlife	-	11/30/2019	4/30/2021	20,000	20,000	0.138%					20,000		
2	2021	Construction (AS)	-	5/31/2015	5/31/2021	2,100	2,100	1.898%					2,100		
3	2021	Conservation	-	5/31/2015	5/31/2021	5,000	5,000	1.898%					5,000		
4	2021	Corps	-	11/30/2019	7/31/2021	34,000	34,000	0.138%					34,000		
5	2021	Conservation	-	7/31/2015	7/31/2021	14,000	14,000	2.067%					14,000		
6	2021	Construction (AS)	-	8/31/2019	8/31/2021	2,000	2,000	0.119%					2,000		
7	2021	Bureau Direct	-	8/31/2019	8/31/2021	20,000	20,000	0.119%					20,000		
8	2021	Corps	-	8/31/2019	8/31/2021	21,000	21,000	0.119%					21,000		
9	2021	Fish and Wildlife	-	8/31/2019	8/31/2021	4,000	4,000	0.119%					4,000		
10	2021	Technology (G)	-	8/31/2019	8/31/2021	3,000	3,000	0.119%					3,000		
11	2021	Fish and Wildlife	-	11/30/2019	8/31/2021	27,000	27,000	0.119%					27,000		
12	2021	Corps	-	11/30/2019	9/30/2021	40,000	40,000	0.112%					40,000		
13	2021	Bureau Direct	-	11/20/2013	9/30/2021	50,000	50,000	2.812%					50,000		
14	2021	Bureau Direct	-	9/30/2020	9/30/2021	51,000	51,000	0.112%					51,000		
15	2021	Bureau Direct	-	9/30/2020	9/30/2021	30,000	30,000	0.112%					30,000		
16	2021	Bureau Direct	-	9/30/2020	9/30/2021	5,000	5,000	0.112%					5,000		
17	2021	Bureau Direct	-	9/30/2010	9/30/2021	22,000	22,000	2.883%					22,000		
18	2021	Columbia River Fish Mitigation	Corps of Engineers	9/30/2006	9/30/2056	366,395	142,720	4.500%					95,000		
19	FY 2021 Subtotal:		-	-	-	716,495	492,820	-					445,100		
20	2022	Construction (AS)	-	10/31/2015	10/31/2021	2,800	2,800	1.942%					2,800		
21	2022	Conservation	-	12/31/2013	12/31/2021	6,000	6,000	3.142%					6,000		
22	2022	Construction (AS)	-	2/29/2016	2/28/2022	3,000	3,000	0.148%					3,000		
23	2022	Technology (G)	-	10/31/2015	7/31/2022	6,000	6,000	0.176%					6,000		
24	2022	Conservation	-	8/31/2015	8/31/2022	6,000	6,000	2.233%					6,000		
25	2022	Conservation	-	1/31/2018	9/30/2022	9,000	9,000	2.513%					9,000		
26	2022	Conservation	-	1/31/2018	9/30/2022	20,000	20,000	2.513%					20,000		
27	2022	Bureau Direct	-	11/20/2013	9/30/2022	19,000	19,000	3.125%					19,000		
28	2022	Fish and Wildlife	-	11/20/2013	9/30/2022	31,000	31,000	3.125%					31,000		
29	2022	Conservation	-	9/30/2015	9/30/2022	4,000	4,000	2.062%					4,000		
30	2022	Construction (AS)	-	8/31/2021	9/30/2022	-	2,000	0.330%					2,000		
31	2022	Corps	-	6/30/2021	9/30/2022	-	82,000	0.330%					82,000		
32	2022	Corps	-	7/31/2021	9/30/2022	-	82,000	0.330%					82,000		
33	2022	Fish and Wildlife	-	8/31/2021	9/30/2022	-	20,000	0.330%					20,000		
34	2022	Corps	-	8/31/2021	9/30/2022	-	82,000	0.330%					82,000		
35	2022	Construction (AS)	-	5/31/2022	9/30/2022	-	7,152	0.160%					7,152		
36	2022	Corps	-	4/30/2022	9/30/2022	-	61,720	0.160%					61,720		
37	2022	Bureau Direct	-	5/31/2022	9/30/2022	-	49,784	0.160%					49,784		
38	2022	Bureau Direct	-	6/30/2009	6/30/2039	25,000	25,000	5.192%					1,545	767	
39	FY 2022 Subtotal:		-	-	-	131,800	518,455	-					495,000	767	
40	2023	Conservation	-	1/31/2011	1/31/2023	40,000	40,000	4.046%					40,000		
41	2023	Conservation	-	4/30/2011	4/30/2023	35,000	35,000	3.932%					35,000		
42	2023	Conservation	-	11/20/2013	9/30/2023	27,000	27,000	3.375%					27,000		
43	2023	Fish and Wildlife	-	5/31/2022	9/30/2023	-	43,000	0.200%					43,000		
44	2023	Corps	-	5/31/2022	9/30/2023	-	61,720	0.200%					61,720		
45	2023	Corps	-	6/30/2022	9/30/2023	-	61,720	0.200%					61,720		
46	2023	Corps	-	4/30/2023	9/30/2023	-	66,162	0.160%					66,162		
47	2023	Bureau Direct	-	5/31/2023	9/30/2023	-	54,060	0.160%					54,060		
48	2023	Corps	-	5/31/2023	9/30/2023	-	66,162	0.160%					66,162		
49	2023	Corps	-	6/30/2023	9/30/2023	-	66,162	0.160%					66,162		
50	2023	Bureau Direct	-	6/30/2009	6/30/2039	25,000	23,455	5.192%					4,014	1,768	
51	2023	The Dalles	Corps of Engineers	9/30/2006	9/30/2056	2,030	2,030	4.500%							
52	FY 2023 Subtotal:		-	-	-	129,030	546,471	-					525,000	1,768	
53	2024	Construction (AS)	-	9/28/2018	12/31/2023	4,200	4,200	3.064%					4,200		
54	2024	Conservation	-	12/31/2013	12/31/2023	55,000	55,000	0.191%					55,000		
55	2024	Conservation	-	12/31/2014	12/31/2023	7,000	7,000	2.403%					7,000		
56	2024	Conservation	-	4/30/2015	4/30/2024	5,000	5,000	2.269%					5,000		
57	2024	Conservation	-	5/31/2014	4/30/2024	15,000	15,000	0.230%					15,000		
58	2024	Fish and Wildlife	-	6/30/2009	6/30/2024	20,000	20,000	4.556%					20,000		
59	2024	Bureau Direct	-	6/22/2011	6/30/2036	30,000	30,000	4.629%					30,000	8,896	
60	2024	Bureau Direct	-	6/22/2011	6/30/2038	30,000	30,000	4.700%					30,000	9,936	

**TABLE 12D:
APPLICATION OF AMORTIZATION
FY 2023
(\$000s)**

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Maturity Date	Roll Rate	Principal Paid	Premium	Discount
61	2024	Bureau Direct	-	1/31/2011	1/31/2039	35,000	35,000	5.040%					35,000	13,239	
62	2024	Bureau Direct	-	6/30/2009	6/30/2039	25,000	19,441	5.192%					19,441	7,950	
63	2024	Bureau Direct	-	2/28/2011	2/28/2040	50,000	50,000	4.995%					50,000	19,148	
64	2024	Columbia River Fish Mitigation	Corps of Engineers	9/30/2006	9/30/2056	366,395	47,720	4.500%					22,983		
65	2024	John Day	Corps of Engineers	9/30/2006	9/30/2056	601	601	4.500%					601		
66	2024	Lower Monument	Corps of Engineers	9/30/2006	9/30/2056	285	285	4.500%					285		
67	2024	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2006	9/30/2056	379	379	4.500%					379		
68	2024	The Dalles	Corps of Engineers	9/30/2006	9/30/2056	2,030	2,030	4.500%					2,030		
69	2024	McNary	Corps of Engineers	9/30/2006	9/30/2056	4,080	4,080	4.500%					4,080		
70		FY 2024 Subtotal:	-	-	-	649,969	325,736	-					300,998	59,169	
71	2025	Fish and Wildlife	-	11/20/2013	9/30/2023	23,000	23,000	3.375%		Global	9/30/2023	9/30/2025	0.417%	23,000	
72	2025	Conservation	-	6/30/2014	10/31/2024	5,000	5,000	0.230%					5,000		
73	2025	Conservation	-	10/31/2014	12/31/2024	10,000	10,000	0.191%					10,000		
74	2025	Conservation	-	5/31/2014	4/30/2025	3,000	3,000	0.230%					3,000		
75	2025	Conservation	-	4/30/2014	6/30/2025	30,000	30,000	0.191%					30,000		
76	2025	Conservation	-	7/31/2014	7/31/2025	12,000	12,000	0.176%					12,000		
77	2025	Conservation	-	8/31/2014	9/30/2025	4,000	4,000	0.128%					4,000		
78	2025	Columbia River Fish Mitigation	Corps of Engineers	9/30/2006	9/30/2056	366,395	24,738	4.500%					10,390		
79		FY 2025 Subtotal:	-	-	-	453,395	111,738	-					97,390		
80	2026	Conservation	-	10/31/2013	10/31/2025	34,000	1,000	3.568%					1,000		
81	2026	Conservation	-	1/31/2014	1/31/2026	5,000	5,000	3.621%					5,000		
82	2026	Fish and Wildlife	-	1/31/2011	1/31/2026	50,000	50,000	4.440%					50,000		
83	2026	Fish and Wildlife	-	2/28/2011	2/28/2026	15,000	15,000	4.398%					15,000		
84	2026	Fish and Wildlife	-	6/22/2011	6/30/2026	15,000	15,000	4.205%					15,000		
85	2026	Columbia River Fish Mitigation	Corps of Engineers	9/30/2006	9/30/2056	366,395	14,348	4.500%					14,348		
86	2026	Dworshak	Corps of Engineers	9/30/2006	9/30/2056	73	73	4.500%					61		
87		FY 2026 Subtotal:	-	-	-	485,468	100,421	-					100,409		
88	2027	Fish and Wildlife	-	10/31/2013	12/31/2026	28,000	28,000	3.717%					28,000		
89	2027	Conservation	-	3/31/2020	3/31/2027	6,000	6,000	0.964%					6,000		
90	2027	Fish and Wildlife	-	5/31/2014	4/30/2027	11,000	11,000	0.230%					11,000		
91	2027	Fish and Wildlife	-	11/30/2013	5/31/2027	5,000	5,000	0.205%					5,000		
92	2027	Fish and Wildlife	-	10/31/2013	5/31/2027	11,000	11,000	3.762%					11,000		
93	2027	Construction (AS)	-	9/30/2023	9/30/2027	27,118	27,118	0.728%					27,118		
94	2027	Dworshak	Corps of Engineers	9/30/2006	9/30/2056	73	12	4.500%					12		
95	2027	Boise	Bureau of Reclamation	9/30/2009	9/30/2059	2	2	4.375%					2		
96	2027	Columbia Basin	Bureau of Reclamation	9/30/2009	9/30/2059	1,338	1,338	4.375%					1,338		
97	2027	Columbia River Fish Mitigation	Corps of Engineers	9/30/2009	9/30/2059	103,203	103,203	4.375%					6,050		
98	2027	Dworshak	Corps of Engineers	9/30/2009	9/30/2059	2,307	2,307	4.375%					2,307		
99	2027	Hungry Horse Dam	Bureau of Reclamation	9/30/2009	9/30/2059	60	60	4.375%					60		
100	2027	Ice Harbor	Corps of Engineers	9/30/2009	9/30/2059	2,615	2,615	4.375%					2,615		
101	2027	John Day	Corps of Engineers	9/30/2009	9/30/2059	1,548	1,548	4.375%					1,548		
102	2027	Little Goose	Corps of Engineers	9/30/2009	9/30/2059	3,171	3,171	4.375%					3,171		
103	2027	Lower Granite	Corps of Engineers	9/30/2009	9/30/2059	5,669	5,669	4.375%					5,669		
104	2027	Lower Monument	Corps of Engineers	9/30/2009	9/30/2059	2,332	2,332	4.375%					2,332		
105	2027	Yakima Chandler/Kenniwick	Bureau of Reclamation	9/30/2009	9/30/2059	15	15	4.375%					15		
106		FY 2027 Subtotal:	-	-	-	210,452	210,390	-					113,237		
107	2028	Conservation	-	10/31/2015	10/31/2027	25,000	25,000	0.230%					25,000		
108	2028	Fish and Wildlife	-	3/31/2015	3/31/2028	3,000	3,000	2.511%					3,000		
109	2028	Corps	-	4/30/2020	4/30/2028	27,000	27,000	0.945%					27,000		
110	2028	Columbia River Fish Mitigation	Corps of Engineers	9/30/2009	9/30/2059	103,203	97,153	4.375%					55,306		
111		FY 2028 Subtotal:	-	-	-	158,203	152,153	-					110,306		
112	2029	Fish and Wildlife	-	10/31/2013	10/31/2028	22,000	22,000	3.880%					22,000		
113	2029	Fish and Wildlife	-	1/31/2014	1/31/2029	7,000	7,000	3.896%					7,000		
114	2029	Fish and Wildlife	-	10/31/2014	1/31/2029	15,000	15,000	0.176%					15,000		
115	2029	Fish and Wildlife	-	4/30/2014	2/28/2029	7,000	7,000	0.148%					7,000		
116	2029	Construction (AS)	-	5/31/2023	5/31/2029	-	7,063	1.052%					7,063		
117	2029	Fish and Wildlife	-	8/31/2014	7/31/2029	5,000	5,000	0.176%					5,000		
118	2029	Bureau Direct	-	12/31/2018	9/30/2029	13,000	13,000	3.100%					13,000		
119	2029	Bureau Direct	-	12/31/2018	9/30/2029	43,000	43,000	3.100%					43,000		
120	2029	Bureau Direct	-	10/31/2010	10/31/2034	20,000	20,000	4.211%					20,000	1,718	

**TABLE 12D:
APPLICATION OF AMORTIZATION
FY 2023
(\$000s)**

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Maturity Date	Roll Rate	Principal Paid	Premium	Discount
121	2029	Bureau Direct	-	8/12/2011	8/31/2037	30,000	30,000	4.208%					30,000		3,194
122	2029	Albeni Falls	Corps of Engineers	9/30/2009	9/30/2059	57	57	4.375%					57		
123	2029	Bonneville Dam	Corps of Engineers	9/30/2009	9/30/2059	2,744	2,744	4.375%					2,744		
124	2029	Chief Joseph	Corps of Engineers	9/30/2009	9/30/2059	24,727	24,727	4.375%					24,727		
125	2029	Columbia River Fish Mitigation	Corps of Engineers	9/30/2009	9/30/2059	103,203	41,848	4.375%					41,848		
126	2029	Cougar	Corps of Engineers	9/30/2009	9/30/2059	121	121	4.375%					121		
127	2029	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2009	9/30/2059	1,540	1,540	4.375%					1,540		
128	2029	Little Goose	Corps of Engineers	9/30/2010	9/30/2060	30	30	4.250%					30		
129	2029	Lower Granite	Corps of Engineers	9/30/2010	9/30/2060	1,156	1,156	4.250%					1,156		
130	2029	Albeni Falls	Corps of Engineers	9/30/2010	9/30/2060	42	42	4.250%					42		
131	2029	Bonneville Dam	Corps of Engineers	9/30/2010	9/30/2060	1,425	1,425	4.250%					1,425		
132	2029	Columbia Basin	Bureau of Reclamation	9/30/2010	9/30/2060	877	877	4.250%					877		
133	2029	Columbia River Fish Mitigation	Corps of Engineers	9/30/2010	9/30/2060	56,832	56,832	4.250%					56,832		
134	2029	Cougar	Corps of Engineers	9/30/2010	9/30/2060	59	59	4.250%					59		
135	2029	Hungry Horse Dam	Bureau of Reclamation	9/30/2010	9/30/2060	779	779	4.250%					779		
136	2029	Ice Harbor	Corps of Engineers	9/30/2010	9/30/2060	207	207	4.250%					207		
137	2029	John Day	Corps of Engineers	9/30/2010	9/30/2060	356	356	4.250%					356		
138	2029	Libby	Corps of Engineers	9/30/2010	9/30/2060	40	40	4.250%					40		
139	2029	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2010	9/30/2060	6	6	4.250%					6		
140	2029	Hungry Horse Dam	Bureau of Reclamation	9/30/2011	9/30/2061	17	496	3.750%					496		
141	2029	Columbia Basin	Bureau of Reclamation	9/30/2011	9/30/2061	1,723	1,723	3.750%					1,723		
142	2029	Columbia River Fish Mitigation	Corps of Engineers	9/30/2011	9/30/2061	106,014	106,014	3.750%					1,695		
143	2029	Green Peter/Foster	Corps of Engineers	9/30/2011	9/30/2061	87	87	3.750%					87		
144	2029	Hills Creek	Corps of Engineers	9/30/2011	9/30/2061	12	12	3.750%					12		
145	2029	Ice Harbor	Corps of Engineers	9/30/2011	9/30/2061	819	819	3.750%					819		
146	2029	John Day	Corps of Engineers	9/30/2011	9/30/2061	175	175	3.750%					175		
147	2029	Libby	Corps of Engineers	9/30/2011	9/30/2061	152	152	3.750%					152		
148	2029	Lookout Dam	Corps of Engineers	9/30/2011	9/30/2061	17	17	3.750%					17		
149	2029	Lost Creek	Corps of Engineers	9/30/2011	9/30/2061	7	7	3.750%					7		
150	2029	Lower Granite	Corps of Engineers	9/30/2011	9/30/2061	8	8	3.750%					8		
151	2029	McNary	Corps of Engineers	9/30/2011	9/30/2061	565	565	3.750%					565		
152	2029	Cougar	Corps of Engineers	9/30/2014	9/30/2064	12	12	3.875%					12		
153	2029	Bonneville Dam	Corps of Engineers	9/30/2014	9/30/2064			3.875%							
154	2029	Columbia River Fish Mitigation	Corps of Engineers	9/30/2014	9/30/2064	110,071	110,071	3.875%					110,071		
155	2029	Detroit Lake/Big Cliff	Corps of Engineers	9/30/2014	9/30/2064	18	18	3.875%					18		
156	2029	Green Peter/Foster	Corps of Engineers	9/30/2014	9/30/2064	385	385	3.875%					385		
157	2029	Lower Granite	Corps of Engineers	9/30/2014	9/30/2064	2,644	2,644	3.875%					2,644		
158	2029	Lower Monument	Corps of Engineers	9/30/2014	9/30/2064	1,430	1,430	3.875%					1,430		
159	2029	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2014	9/30/2064	222	222	3.875%					222		
160	2029	McNary	Corps of Engineers	9/30/2014	9/30/2064	759	759	3.875%					759		
161		FY 2029 Subtotal:	-	-	-	581,337	527,523	-					423,204	4,912	
162	2030	Bureau Direct	-	10/31/2019	9/30/2021	20,000	20,000	0.112%	Global	9/30/2021	9/30/2030	1.208%	20,000		
163	2030	Fish and Wildlife	-	3/31/2020	3/31/2030	8,000	8,000	1.274%					8,000		
164	2030	Corps	-	5/31/2016	5/31/2030	15,000	15,000	2.599%					15,000		
165	2030	Bureau Direct	-	7/31/2016	7/31/2030	12,000	12,000	2.145%					12,000		
166	2030	Corps	-	7/31/2016	7/31/2030	25,000	25,000	2.145%					25,000		
167	2030	Bonneville Dam	Corps of Engineers	9/30/2011	9/30/2061	10,962	10,962	3.750%					10,962		
168	2030	Chief Joseph	Corps of Engineers	9/30/2011	9/30/2061	4	4	3.750%					4		
169	2030	Columbia River Fish Mitigation	Corps of Engineers	9/30/2011	9/30/2061	106,014	104,319	3.750%					104,319		
170	2030	Cougar	Corps of Engineers	9/30/2011	9/30/2061	282	282	3.750%					282		
171	2030	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2011	9/30/2061	122	122	3.750%					122		
172	2030	Cougar	Corps of Engineers	9/30/2012	9/30/2062	139	139	3.375%					139		
173	2030	Minidoka/Palisades	Bureau of Reclamation	9/30/2012	9/30/2062	7	7	3.375%					7		
174	2030	Green Peter/Foster	Corps of Engineers	9/30/2012	9/30/2062	28	28	3.375%					28		
175	2030	Chief Joseph	Corps of Engineers	9/30/2012	9/30/2062	28	28	3.375%					28		
176	2030	Columbia Basin	Bureau of Reclamation	9/30/2012	9/30/2062	11	11	3.375%					11		
177	2030	Columbia River Fish Mitigation	Corps of Engineers	9/30/2012	9/30/2062	101,616	101,616	3.375%					101,616		
178	2030	Hills Creek	Corps of Engineers	9/30/2012	9/30/2062	142	142	3.375%					142		
179	2030	Ice Harbor	Corps of Engineers	9/30/2012	9/30/2062	115	115	3.375%					115		
180	2030	John Day	Corps of Engineers	9/30/2012	9/30/2062	6,161	6,050	3.375%					6,050		

**TABLE 12D:
APPLICATION OF AMORTIZATION
FY 2023
(\$000s)**

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Maturity Date	Roll Rate	Principal Paid	Premium	Discount
181	2030	Libby	Corps of Engineers	9/30/2012	9/30/2062	16	16	3.375%							16
182	2030	Lookout Dam	Corps of Engineers	9/30/2012	9/30/2062	294	294	3.375%							294
183	2030	Lower Monument	Corps of Engineers	9/30/2012	9/30/2062	89	89	3.375%							89
184	2030	McNary	Corps of Engineers	9/30/2012	9/30/2062	12	11	3.375%							11
185	2030	RRP - Green Springs	Bureau of Reclamation	9/30/2012	9/30/2062	2	2	3.375%							2
186	2030	Minidoka/Palisades	Bureau of Reclamation	9/30/2015	9/30/2065	19,237	19,237	3.250%							17,470
187		FY 2030 Subtotal:	-	-	-	325,279	323,472	-							321,705
188	2031	Fish and Wildlife	-	2/29/2016	2/28/2031	4,000	4,000	0.148%							4,000
189	2031	Fish and Wildlife	-	10/31/2015	2/28/2031	4,000	4,000	0.148%							4,000
190	2031	Fish and Wildlife	-	10/31/2015	3/31/2031	5,000	5,000	0.128%							5,000
191	2031	Corps	-	4/30/2016	4/30/2031	53,000	53,000	2.661%							53,000
192	2031	Bureau Direct	-	4/30/2016	4/30/2031	17,000	17,000	2.661%							17,000
193	2031	Bureau Direct	-	9/30/2015	9/30/2033	10,000	10,000	3.134%							10,000
194	2031	Corps	-	9/30/2015	9/30/2033	4,000	4,000	3.134%							4,000
195	2031	Columbia Basin	Bureau of Reclamation	9/30/2013	9/30/2063	3,078	3,078	2.875%							3,078
196	2031	Columbia River Fish Mitigation	Corps of Engineers	9/30/2013	9/30/2063	95,274	95,274	2.875%							46,923
197	2031	Detroit Lake/Big Cliff	Corps of Engineers	9/30/2013	9/30/2063	528	528	2.875%							528
198	2031	Little Goose	Corps of Engineers	9/30/2013	9/30/2063	66	66	2.875%							66
199	2031	McNary	Corps of Engineers	9/30/2013	9/30/2063	1,000	1,000	2.875%							1,000
200	2031	RRP - Green Springs	Bureau of Reclamation	9/30/2013	9/30/2063			2.875%							
201	2031	Bonneville Dam	Corps of Engineers	9/30/2015	9/30/2065	102	102	3.250%							102
202	2031	Columbia River Fish Mitigation	Corps of Engineers	9/30/2015	9/30/2065	64,291	64,291	3.250%							64,291
203	2031	Green Peter/Foster	Corps of Engineers	9/30/2015	9/30/2065	68	68	3.250%							68
204	2031	Ice Harbor	Corps of Engineers	9/30/2015	9/30/2065	3,175	3,175	3.250%							3,175
205	2031	Lower Granite	Corps of Engineers	9/30/2015	9/30/2065	1,597	1,597	3.250%							1,597
206	2031	Minidoka/Palisades	Bureau of Reclamation	9/30/2015	9/30/2065	19,237	1,767	3.250%							1,767
207	2031	The Dalles	Corps of Engineers	9/30/2015	9/30/2065	302	302	3.250%							302
208	2031	Boise	Bureau of Reclamation	9/30/2016	9/30/2066	118	118	3.000%							118
209	2031	Columbia River Fish Mitigation	Corps of Engineers	9/30/2016	9/30/2066	30,066	30,066	3.000%							30,066
210	2031	Cougar	Corps of Engineers	9/30/2016	9/30/2066	2	2	3.000%							2
211	2031	Detroit Lake/Big Cliff	Corps of Engineers	9/30/2016	9/30/2066	31	31	3.000%							31
212	2031	Green Peter/Foster	Corps of Engineers	9/30/2016	9/30/2066	70	70	3.000%							70
213	2031	Ice Harbor	Corps of Engineers	9/30/2016	9/30/2066	558	558	3.000%							558
214	2031	Lower Granite	Corps of Engineers	9/30/2016	9/30/2066	1,878	1,878	3.000%							1,878
215	2031	Lower Monument	Corps of Engineers	9/30/2016	9/30/2066	155	155	3.000%							155
216	2031	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2016	9/30/2066	1,256	1,256	3.000%							1,256
217	2031	Minidoka/Palisades	Bureau of Reclamation	9/30/2016	9/30/2066	206	206	3.000%							206
218	2031	The Dalles	Corps of Engineers	9/30/2016	9/30/2066	4	4	3.000%							4
219	2031	Bonneville Dam	Corps of Engineers	9/30/2019	9/30/2069	703	736	3.125%							736
220	2031	Columbia Basin	Bureau of Reclamation	9/30/2019	9/30/2069	4,130	4,221	3.125%							4,221
221	2031	Columbia River Fish Mitigation	Corps of Engineers	9/30/2019	9/30/2069	49,505	48,042	3.125%							48,042
222	2031	Detroit Lake/Big Cliff	Corps of Engineers	9/30/2019	9/30/2069	2	2	3.125%							2
223	2031	Green Peter/Foster	Corps of Engineers	9/30/2019	9/30/2069	10	10	3.125%							10
224	2031	Ice Harbor	Corps of Engineers	9/30/2019	9/30/2069	630	630	3.125%							630
225	2031	McNary	Corps of Engineers	9/30/2019	9/30/2069	479	479	3.125%							479
226	2031	Minidoka/Palisades	Bureau of Reclamation	9/30/2019	9/30/2069			3.125%							
227	2031	RRP - Green Springs	Bureau of Reclamation	9/30/2019	9/30/2069	14	16	3.125%							16
228	2031	The Dalles	Corps of Engineers	9/30/2019	9/30/2069	129	158	3.125%							158
229		FY 2031 Subtotal:	-	-	-	375,663	356,886	-							308,534
230	2032	Bureau Direct	-	5/31/2020	5/31/2032	16,000	16,000	1.188%							16,000
231	2032	Bureau Direct	-	5/31/2020	5/31/2032	10,000	10,000	1.188%							10,000
232	2032	Corps	-	9/30/2023	9/30/2044	85,722	85,722	2.316%							85,722
233	2032	Bureau Direct	-	9/30/2023	9/30/2052	1,039	1,039	2.748%							1,039
234	2032	Bonneville Dam	Corps of Engineers	9/30/2013	9/30/2063	268	268	2.875%							268
235	2032	Chief Joseph	Corps of Engineers	9/30/2013	9/30/2063	10	10	2.875%							10
236	2032	Columbia River Fish Mitigation	Corps of Engineers	9/30/2013	9/30/2063	95,274	48,352	2.875%							48,352
237	2032	Cougar	Corps of Engineers	9/30/2013	9/30/2063	4,088	4,088	2.875%							4,088
238	2032	Columbia Basin	Bureau of Reclamation	9/30/2017	9/30/2067	2,865	2,865	2.375%							2,865
239	2032	Cougar	Corps of Engineers	9/30/2017	9/30/2067	2	2	2.375%							2
240	2032	Columbia River Fish Mitigation	Corps of Engineers	9/30/2017	9/30/2067	57,719	57,719	2.375%							57,719

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APPLICATION OF AMORTIZATION
FY 2023
(\$000s)**

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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	Maturity Date	Roll Rate	Principal Paid	Premium	Discount
241	2032	Lower Monument	Corps of Engineers	9/30/2017	9/30/2067	942	942	2.375%							942
242	2032	McNary	Corps of Engineers	9/30/2017	9/30/2067	239	239	2.375%							239
243	2032	Minidoka/Palisades	Bureau of Reclamation	9/30/2017	9/30/2067	127	127	2.375%							127
244	2032	The Dalles	Corps of Engineers	9/30/2017	9/30/2067	10	10	2.375%							10
245	2032	Boise	Bureau of Reclamation	9/30/2018	9/30/2068			2.750%							
246	2032	Columbia Basin	Bureau of Reclamation	9/30/2018	9/30/2068	17	17	2.750%							17
247	2032	Columbia River Fish Mitigation	Corps of Engineers	9/30/2018	9/30/2068	48,446	48,446	2.750%							48,446
248	2032	Libby	Corps of Engineers	9/30/2018	9/30/2068	282	282	2.750%							282
249	2032	Little Goose	Corps of Engineers	9/30/2018	9/30/2068	2,707	2,707	2.750%							2,707
250	2032	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2018	9/30/2068	1,608	1,608	2.750%							1,608
251	2032	Minidoka/Palisades	Bureau of Reclamation	9/30/2018	9/30/2068	145	145	2.750%							145
252	2032	The Dalles	Corps of Engineers	9/30/2018	9/30/2068	15	15	2.750%							15
253	2032	Yakima Chandler/Kenniwick	Bureau of Reclamation	9/30/2018	9/30/2068	49	49	2.750%							49
254	2032	Columbia Basin	Bureau of Reclamation	9/30/2020	9/30/2070	202	202	2.125%							202
255	2032	Columbia River Fish Mitigation	Corps of Engineers	9/30/2020	9/30/2070	82,394	82,394	2.125%							44,701
256	2032	Cougar	Corps of Engineers	9/30/2020	9/30/2070	267	267	2.125%							267
257	2032	Lower Snake Fish and Wildlife	Lower Snake Fish & Wildlife	9/30/2020	9/30/2070	295	295	2.125%							295
258	2032	RRP - Green Springs	Bureau of Reclamation	9/30/2020	9/30/2070	64	64	2.125%							64
259	2032	Columbia River Fish Mitigation	Corps of Engineers	9/30/2022	9/30/2072	-	8,210	2.420%							8,210
260	2032	Columbia River Fish Mitigation	Corps of Engineers	9/30/2023	9/30/2073	-	8,656	2.622%							8,656
261		FY 2032 Subtotal:	-	-	-	410,798	380,741	-							343,048
262	2033	Bureau Direct	-	4/30/2009	4/30/2023	25,000	25,000	4.391%		Global	4/30/2023	4/30/2033	1.723%		25,000
263	2033	Bureau Direct	-	6/30/2020	6/30/2033	11,000	11,000	1.238%							11,000
264	2033	Bureau Direct	-	6/30/2020	6/30/2033	12,000	12,000	1.238%							12,000
265	2033	Bureau Direct	-	7/31/2020	7/31/2033	15,000	15,000	1.157%							15,000
266	2033	Fish and Wildlife	-	5/31/2023	5/31/2038	-	43,000	1.993%							43,000
267	2033	Fish and Wildlife	-	9/30/2023	9/30/2038	65,998	65,998	1.993%							65,998
268	2033	Bureau Direct	-	5/31/2020	5/31/2043	24,000	24,000	1.869%							5,977
269	2033	Bureau Direct	-	3/31/2020	6/30/2046	26,000	26,000	2.083%							22,637
270	2033	Corps	-	3/31/2020	9/30/2047	24,000	24,000	2.103%							20,731
271	2033	Corps	-	5/31/2020	5/31/2048	21,000	21,000	1.953%							17,763
272	2033	Corps	-	3/31/2020	9/30/2048	54,200	54,200	2.116%							46,428
273	2033	Corps	-	5/31/2020	11/30/2048	25,000	25,000	1.957%							21,017
274	2033	Columbia River Fish Mitigation	Corps of Engineers	9/30/2020	9/30/2070	82,394	37,693	2.125%							37,693
275	2033	Dworshak	Corps of Engineers	9/30/2020	9/30/2070	29	29	2.125%							29
276	2033	Green Peter/Foster	Corps of Engineers	9/30/2020	9/30/2070	1	1	2.125%							1
277	2033	Libby	Corps of Engineers	9/30/2020	9/30/2070	5	5	2.125%							5
278	2033	Little Goose	Corps of Engineers	9/30/2020	9/30/2070	5,504	5,504	2.125%							5,504
279	2033	Lower Granite	Corps of Engineers	9/30/2020	9/30/2070	18,822	18,822	2.125%							18,822
280		FY 2033 Subtotal:	-	-	-	409,953	408,252	-							368,604
281	2034	Bureau Direct	-	2/27/2012	2/28/2034	55,000	55,000	0.148%							55,000
282	2034	Bureau Direct	-	7/31/2020	1/31/2041	35,000	35,000	1.457%							31,594
283	2034	Bureau Direct	-	5/31/2020	5/31/2043	24,000	17,259	1.869%							15,516
284	2034	Corps	-	4/30/2020	4/30/2044	40,000	40,000	1.744%							35,119
285	2034	Corps	-	2/29/2016	2/28/2045	3,000	3,000	0.148%							2,308
286	2034	Bureau Direct	-	4/30/2020	4/30/2045	30,000	30,000	1.760%							26,059
287	2034	Corps	-	7/31/2020	1/31/2046	2,000	2,000	1.640%							1,699
288	2034	Bureau Direct	-	7/31/2020	1/31/2046	13,000	13,000	1.640%							11,046
289	2034	Corps	-	7/31/2020	7/31/2046	32,000	32,000	1.651%							27,082
290	2034	Corps	-	7/31/2020	7/31/2047	64,000	64,000	1.667%							53,599
291	2034	Corps	-	8/31/2018	2/28/2048	7,000	7,000	0.148%							576
292	2034	Corps	-	6/30/2020	6/30/2049	24,000	24,000	1.812%							19,928
293	2034	Bureau Direct	-	6/30/2020	6/30/2049	10,000	10,000	1.812%							8,303
294	2034	Bureau Direct	-	6/30/2020	6/30/2049	16,000	16,000	1.812%							13,285
295	2034	Bureau Direct	-	7/31/2020	7/31/2049	17,000	17,000	1.680%							13,932
296	2034	Corps	-	4/30/2020	4/30/2050	50,000	50,000	1.827%							41,311
297	2034	Columbia River Fish Mitigation	Corps of Engineers	9/30/2021	9/30/2071	-	10,731	1.375%							10,731
298		FY 2034 Subtotal:	-	-	-	422,000	425,990	-							367,090
299	2035	Bureau Direct	-	9/28/2018	2/28/2048	29,000	29,000	0.148%							21,510
300	2035	Bureau Direct	-	8/31/2018	2/28/2048	5,000	5,000	0.148%							3,709
301	2035	Corps	-	8/31/2018	2/28/2048	7,000	6,210	0.148%							4,606

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FY 2023
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A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Maturity Date	Roll Rate	Principal Paid	Premium	Discount
302	2035 Corps	-	9/28/2018	8/31/2048	17,000	17,000	0.148%	0.148%						12,513	4,487
303	2035 Replacements	-	3/31/2024	3/31/2069	252,839	252,839	2.800%	2.800%						252,839	
304	2035 Replacements	-	3/31/2025	3/31/2070	252,839	252,839	2.800%	2.800%						111,416	
305	FY 2035 Subtotal:	-	-	-	563,679	562,889	-	-						406,592	14,873
306	2036 Corps	-	9/28/2018	8/31/2048	17,000	17,000	0.148%	0.148%							
307	2036 Replacements	-	3/31/2025	3/31/2070	252,839	141,424	2.800%	2.800%						141,424	
308	2036 Replacements	-	3/31/2026	3/31/2071	252,839	252,839	2.800%	2.800%						252,839	
309	2036 Replacements	-	3/31/2027	3/31/2072	252,839	252,839	2.800%	2.800%						14,698	
310	FY 2036 Subtotal:	-	-	-	775,518	647,103	-	-						408,961	
311	2037 Replacements	-	3/31/2027	3/31/2072	252,839	238,141	2.800%	2.800%						238,141	
312	2037 Replacements	-	3/31/2028	3/31/2073	252,839	252,839	2.800%	2.800%						203,200	
313	FY 2037 Subtotal:	-	-	-	505,679	490,981	-	-						441,342	
314	2038 Replacements	-	3/31/2028	3/31/2073	252,839	49,639	2.800%	2.800%						49,639	
315	2038 Replacements	-	3/31/2029	3/31/2074	252,839	252,839	2.800%	2.800%						252,839	
316	2038 Replacements	-	3/31/2030	3/31/2075	252,839	252,839	2.800%	2.800%						176,647	
317	FY 2038 Subtotal:	-	-	-	758,518	555,318	-	-						479,125	
318	2039 Replacements	-	3/31/2030	3/31/2075	252,839	76,192	2.800%	2.800%						76,192	
319	2039 Replacements	-	3/31/2031	3/31/2076	252,839	252,839	2.800%	2.800%						252,839	
320	2039 Replacements	-	3/31/2032	3/31/2077	252,839	252,839	2.800%	2.800%						166,092	
321	FY 2039 Subtotal:	-	-	-	758,518	581,871	-	-						495,123	
322	2040 Replacements	-	3/31/2032	3/31/2077	252,839	86,748	2.800%	2.800%						86,748	
323	2040 Replacements	-	3/31/2033	3/31/2078	252,839	252,839	2.800%	2.800%						252,839	
324	2040 Replacements	-	3/31/2034	3/31/2079	252,839	252,839	2.800%	2.800%						182,844	
325	FY 2040 Subtotal:	-	-	-	758,518	592,427	-	-						522,431	
326	2041 Replacements	-	3/31/2034	3/31/2079	252,839	69,995	2.800%	2.800%						69,995	
327	2041 Replacements	-	3/31/2035	3/31/2080	252,839	252,839	2.800%	2.800%						252,839	
328	2041 Replacements	-	3/31/2036	3/31/2081	252,839	252,839	2.800%	2.800%						132,700	
329	FY 2041 Subtotal:	-	-	-	758,518	575,674	-	-						455,535	
330	2042 Replacements	-	3/31/2036	3/31/2081	252,839	120,139	2.800%	2.800%						120,139	
331	2042 Replacements	-	3/31/2037	3/31/2082	252,839	252,839	2.800%	2.800%						252,839	
332	2042 Replacements	-	3/31/2038	3/31/2083	252,839	252,839	2.800%	2.800%						177,550	
333	FY 2042 Subtotal:	-	-	-	758,518	625,818	-	-						550,528	
334	2043 Replacements	-	3/31/2038	3/31/2083	252,839	75,290	2.800%	2.800%						75,290	
335	2043 Replacements	-	3/31/2039	3/31/2084	252,839	252,839	2.800%	2.800%						252,839	
336	2043 Replacements	-	3/31/2040	3/31/2085	252,839	252,839	2.800%	2.800%						252,839	
337	2043 Replacements	-	3/31/2041	3/31/2086	252,839	252,839	2.800%	2.800%						90,402	
338	FY 2043 Subtotal:	-	-	-	1,011,358	833,808	-	-						671,370	
339	2044 Replacements	-	3/31/2041	3/31/2086	252,839	162,438	2.800%	2.800%						162,438	
340	2044 Replacements	-	3/31/2042	3/31/2087	252,839	252,839	2.800%	2.800%						252,839	
341	2044 Replacements	-	3/31/2043	3/31/2088	252,839	252,839	2.800%	2.800%						162,598	
342	FY 2044 Subtotal:	-	-	-	758,518	668,117	-	-						577,875	
343	2045 Replacements	-	3/31/2043	3/31/2088	252,839	90,241	2.800%	2.800%						90,241	
344	2045 Replacements	-	3/31/2044	3/31/2089	252,839	252,839	2.800%	2.800%						169,602	
345	FY 2045 Subtotal:	-	-	-	505,679	343,081	-	-						259,843	
346	2046 Replacements	-	3/31/2044	3/31/2089	252,839	83,238	2.800%	2.800%						83,238	
347	2046 Replacements	-	3/31/2045	3/31/2090	252,839	252,839	2.800%	2.800%						188,447	
348	FY 2046 Subtotal:	-	-	-	505,679	336,077	-	-						271,685	
349	2047 Replacements	-	3/31/2045	3/31/2090	252,839	64,392	2.800%	2.800%						64,392	
350	2047 Replacements	-	3/31/2046	3/31/2091	252,839	252,839	2.800%	2.800%						207,826	
351	FY 2047 Subtotal:	-	-	-	505,679	317,232	-	-						272,218	
352	2048 Replacements	-	3/31/2046	3/31/2091	252,839	45,013	2.800%	2.800%						45,013	
353	2048 Replacements	-	3/31/2047	3/31/2092	252,839	252,839	2.800%	2.800%						227,757	
354	FY 2048 Subtotal:	-	-	-	505,679	297,853	-	-						272,771	
355	2049 Replacements	-	3/31/2047	3/31/2092	252,839	25,082	2.800%	2.800%						25,082	
356	2049 Replacements	-	3/31/2048	3/31/2093	252,839	252,839	2.800%	2.800%						248,254	
357	FY 2049 Subtotal:	-	-	-	505,679	277,922	-	-						273,336	
358	2050 Replacements	-	3/31/2048	3/31/2093	252,839	4,586	2.800%	2.800%						4,586	
359	2050 Replacements	-	3/31/2049	3/31/2094	252,839	252,839	2.800%	2.800%						252,839	
360	FY 2050 Subtotal:	-	-	-	505,679	257,425	-	-						257,425	

**TABLE 12D:
APPLICATION OF AMORTIZATION
FY 2023
(\$000s)**

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Fiscal Year	Project	Debt Type	In Service	Bond Due Date	Initial Principal	Current Principal	Original Rate	Effective Rate	Refinance Type	Refinanced Date	Maturity Date	Roll Rate	Principal Paid	Premium	Discount
361	2051	Replacements	-	3/31/2050	3/31/2095	252,839	252,839	2.800%	2.800%				252,839		
362		FY 2051 Subtotal:	-	-	-	252,839	252,839	-	-				252,839		
363	2052	Replacements	-	3/31/2051	3/31/2096	252,839	252,839	2.800%	2.800%				252,839		
364		FY 2052 Subtotal:	-	-	-	252,839	252,839	-	-				252,839		
365	2053	Replacements	-	3/31/2052	3/31/2097	252,839	252,839	2.800%	2.800%				252,839		
366		FY 2053 Subtotal:	-	-	-	252,839	252,839	-	-				252,839		
367	2054	Replacements	-	3/31/2053	3/31/2098	252,839	252,839	2.800%	2.800%				252,839		
368		FY 2054 Subtotal:	-	-	-	252,839	252,839	-	-				252,839		
369	2055	Replacements	-	3/31/2054	3/31/2099	252,839	252,839	2.800%	2.800%				252,839		
370		FY 2055 Subtotal:	-	-	-	252,839	252,839	-	-				252,839		
371	2056	Replacements	-	3/31/2055	3/31/2100	252,839	252,839	2.800%	2.800%				252,839		
372		FY 2056 Subtotal:	-	-	-	252,839	252,839	-	-				252,839		
373	2057	Replacements	-	3/31/2056	3/31/2101	252,839	252,839	2.800%	2.800%				252,839		
374		FY 2057 Subtotal:	-	-	-	252,839	252,839	-	-				252,839		
375	2058	Replacements	-	3/31/2057	3/31/2102	252,839	252,839	2.800%	2.800%				252,839		
376		FY 2058 Subtotal:	-	-	-	252,839	252,839	-	-				252,839		
377	2059	Replacements	-	3/31/2058	3/31/2103	252,839	252,839	2.800%	2.800%				252,839		
378		FY 2059 Subtotal:	-	-	-	252,839	252,839	-	-				252,839		
379	2060	Replacements	-	3/31/2059	3/31/2104	252,839	252,839	2.800%	2.800%				252,839		
380		FY 2060 Subtotal:	-	-	-	252,839	252,839	-	-				252,839		
381	2061	Replacements	-	3/31/2060	3/31/2105	252,839	252,839	2.800%	2.800%				252,839		
382		FY 2061 Subtotal:	-	-	-	252,839	252,839	-	-				252,839		
383	2062	Replacements	-	3/31/2061	3/31/2106	252,839	252,839	2.800%	2.800%				252,839		
384		FY 2062 Subtotal:	-	-	-	252,839	252,839	-	-				252,839		
385	2063	Replacements	-	3/31/2062	3/31/2107	252,839	252,839	2.800%	2.800%				252,839		
386		FY 2063 Subtotal:	-	-	-	252,839	252,839	-	-				252,839		
387	2064	Replacements	-	3/31/2063	3/31/2108	252,839	252,839	2.800%	2.800%				252,839		
388		FY 2064 Subtotal:	-	-	-	252,839	252,839	-	-				252,839		
389	2065	Replacements	-	3/31/2064	3/31/2109	252,839	252,839	2.800%	2.800%				252,839		
390		FY 2065 Subtotal:	-	-	-	252,839	252,839	-	-				252,839		
391	2066	Replacements	-	3/31/2065	3/31/2110	252,839	252,839	2.800%	2.800%				252,839		
392		FY 2066 Subtotal:	-	-	-	252,839	252,839	-	-				252,839		
393	2067	Replacements	-	3/31/2066	3/31/2111	252,839	252,839	2.800%	2.800%				252,839		
394		FY 2067 Subtotal:	-	-	-	252,839	252,839	-	-				252,839		
395	2068	Replacements	-	3/31/2067	3/31/2112	252,839	252,839	2.800%	2.800%				252,839		
396		FY 2068 Subtotal:	-	-	-	252,839	252,839	-	-				252,839		
397	2069	Replacements	-	3/31/2068	3/31/2113	252,839	252,839	2.800%	2.800%				252,839		
398		FY 2069 Subtotal:	-	-	-	252,839	252,839	-	-				252,839		
399	2070	Replacements	-	3/31/2069	3/31/2114	252,839	252,839	2.800%	2.800%				252,839		
400		FY 2070 Subtotal:	-	-	-	252,839	252,839	-	-				252,839		
401	2071	Replacements	-	3/31/2070	3/31/2115	252,839	252,839	2.800%	2.800%				252,839		
402		FY 2071 Subtotal:	-	-	-	252,839	252,839	-	-				252,839		
403	2072	Replacements	-	3/31/2071	3/31/2116	252,839	252,839	2.800%	2.800%				252,839		
404		FY 2072 Subtotal:	-	-	-	252,839	252,839	-	-				252,839		
405	2073	Replacements	-	3/31/2072	3/31/2117	252,839	252,839	2.800%	2.800%				252,839		
406		FY 2073 Subtotal:	-	-	-	252,839	252,839	-	-				252,839		
407		Grand Total				21,716,564	18,659,948	-	-				16,751,094	66,755	89,952

**TABLE 12E:
SUMMARY OF INTEREST
FY 2023
(\$000s)**

Obligation Type	General Project	Specific Project	2021	2022	2023	2024	2025	
Appropriation	Bureau of Reclamation	Boise	4	4	4	4	4	
		Columbia Basin	454	454	454	454	454	
		Hungry Horse Dam	54	54	54	54	54	
		Minidoka/Palisades	639	639	639	639	639	
		RRP - Green Springs	2	2	2	2	2	
		Yakima Chandler/Kennewick	2	2	2	2	2	
	Bureau of Reclamation Subtotal:			1,155	1,155	1,155	1,155	1,155
	Corps of Engineers	Albeni Falls	4	4	4	4	4	
		Bonneville Dam	626	626	626	626	626	
		Chief Joseph	1,083	1,083	1,083	1,083	1,083	
		Columbia River Fish Mitigation	36,709	32,582	32,780	33,007	31,973	
		Cougar	147	147	147	147	147	
		Detroit Lake/Big Cliff	17	17	17	17	17	
		Dworshak	105	105	105	105	105	
		Green Peter/Foster	24	24	24	24	24	
		Hills Creek	5	5	5	5	5	
		Ice Harbor	297	297	297	297	297	
		John Day	321	321	321	321	294	
		Libby	16	16	16	16	16	
		Little Goose	333	333	333	333	333	
		Lookout Dam	11	11	11	11	11	
		Lost Creek						
		Lower Granite	908	908	908	908	908	
		Lower Monument	200	200	200	200	188	
		McNary	284	284	284	284	100	
		The Dalles	107	107	107	107	16	
		Corps of Engineers Subtotal:			41,197	37,069	37,268	37,495
	Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	186	186	186	186	169	
		Lower Snake Fish & Wildlife Subtotal:			186	186	186	169
	Appropriation Subtotal:			42,538	38,410	38,609	38,836	37,470
	Treasury	BPA Borrowing	(Less Interest Income)	(255)	(149)	(179)	(127)	(51)
			Bureau Direct	20,847	19,068	18,396	13,486	9,458
			Interest Accrual	3,672	3,652	3,323	1,869	1,869
			Interest Accrual Reversal	(3,538)	(3,672)	(3,652)	(3,323)	(1,869)
			Conservation	6,298	5,819	3,971	738	438
			Interest Accrual	1,125	1,067	228	99	69
			Interest Accrual Reversal	(1,205)	(1,125)	(1,067)	(228)	(99)
			Construction (AS)	230	169	129	336	272
			Interest Accrual	56	32	57	25	25
			Interest Accrual Reversal	(69)	(56)	(32)	(57)	(25)
			Corps	9,098	9,969	9,406	10,967	10,967
			Interest Accrual	2,396	2,333	2,261	2,261	2,261
			Interest Accrual Reversal	(2,271)	(2,396)	(2,333)	(2,261)	(2,261)
			Fish and Wildlife	9,084	9,094	8,168	9,545	8,634
			Interest Accrual	1,633	1,656	1,914	1,687	1,687
			Interest Accrual Reversal	(1,640)	(1,633)	(1,656)	(1,914)	(1,687)
			Technology (G)	14	11	-	-	-
Interest Accrual			2	-	-	-	-	
Interest Accrual Reversal			(2)	(2)	-	-	-	
BPA Borrowing Subtotal:				45,475	43,837	38,935	33,101	29,688
Federal Generation Replacements		Replacements	-	-	-	3,540	10,619	
		Federal Generation Replacements Subtotal:			-	-	3,540	10,619
Treasury Subtotal:			45,475	43,837	38,935	36,641	40,307	
Grand Total:			\$88,013	\$82,248	\$77,544	\$75,477	\$77,776	

**TABLE 12E:
SUMMARY OF INTEREST
FY 2023
(\$000s)**

Obligation Type	General Project	Specific Project	2026	2027	2028	2029	2030	2031	2032		
Appropriation	Bureau of Reclamation	Boise	4	4	4	4	4	2	-		
		Columbia Basin	454	454	395	395	294	293	71		
		Hungry Horse Dam	54	54	52	52	-	-	-		
		Minidoka/Palisades	639	639	639	639	639	71	7		
		RRP - Green Springs	2	2	2	2	2	2	1		
		Yakima Chandler/Kenniwick	2	2	1	1	1	1	1		
	Bureau of Reclamation Subtotal:			1,155	1,155	1,093	1,093	939	369	80	
	Corps of Engineers	Albeni Falls		4	4	4	4	-	-	-	
		Bonneville Dam		626	626	626	626	445	34	8	
		Chief Joseph		1,083	1,083	1,083	1,083	1			
		Columbia River Fish Mitigation		31,506	30,860	30,595	28,176	19,601	12,259	5,942	
		Cougar		147	147	147	147	139	123	120	
		Detroit Lake/Big Cliff		17	17	17	17	16	16	-	
		Dworshak		105	102	1	1	1	1	1	
		Green Peter/Foster		24	24	24	24	6	4		
		Hills Creek		5	5	5	5	5	-	-	
		Ice Harbor		297	297	183	183	143	140	-	
		John Day		294	294	226	226	204	-	-	
		Libby		16	16	16	16	8	8	8	
		Little Goose		333	333	195	195	193	193	191	
		Lookout Dam		11	11	11	11	10	-	-	
		Lost Creek						-	-	-	
		Lower Granite		908	908	660	660	508	508	400	
		Lower Monument		188	188	85	85	30	27	22	
		McNary		100	100	100	100	50	49	6	
		The Dalles		16	16	16	16	16	16	1	
		Corps of Engineers Subtotal:			35,679	35,030	33,993	31,573	21,376	13,379	6,699
	Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife		169	169	169	169	93	88	47	
		Lower Snake Fish & Wildlife Subtotal:		169	169	169	169	93	88	47	
	Appropriation Subtotal:			37,002	36,354	35,255	32,835	22,407	13,836	6,826	
	Treasury	BPA Borrowing	(Less Interest Income)	(54)	(55)	(56)	(149)	(114)	(111)	(116)	
			Bureau Direct	9,458	9,458	9,458	8,827	5,621	4,965	4,342	
			Interest Accrual	1,869	1,869	1,869	1,412	1,370	1,182	1,079	
			Interest Accrual Reversal	(1,869)	(1,869)	(1,869)	(1,869)	(1,412)	(1,370)	(1,182)	
			Conservation	224	86	29	-	-	-	-	
			Interest Accrual	24	24	-	-	-	-	-	
			Interest Accrual Reversal	(69)	(24)	(24)	-	-	-	-	
			Construction (AS)	272	272	74	74	-	-	-	
			Interest Accrual	25	25	25	-	-	-	-	
			Interest Accrual Reversal	(25)	(25)	(25)	(25)	-	-	-	
			Corps	10,967	10,967	10,967	10,712	10,712	9,723	7,258	
			Interest Accrual	2,261	2,261	2,155	2,155	1,936	1,351	1,351	
			Interest Accrual Reversal	(2,261)	(2,261)	(2,261)	(2,155)	(2,155)	(1,936)	(1,351)	
			Fish and Wildlife	7,098	4,509	3,502	2,883	2,241	2,181	2,172	
			Interest Accrual	1,107	694	694	288	288	287	287	
			Interest Accrual Reversal	(1,687)	(1,107)	(694)	(694)	(288)	(288)	(287)	
			Technology (G)	-	-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	-		
Interest Accrual Reversal			-	-	-	-	-	-	-		
BPA Borrowing Subtotal:				27,340	24,825	23,844	21,460	18,199	15,985	13,552	
Federal Generation Replacements			Replacements		17,699	24,778	31,858	38,937	46,017	53,096	60,176
			Federal Generation Replacements Subtotal:		17,699	24,778	31,858	38,937	46,017	53,096	60,176
Treasury Subtotal:			45,039	49,603	55,702	60,397	64,216	69,081	73,727		
Grand Total:			\$82,041	\$85,957	\$90,957	\$93,232	\$86,623	\$82,917	\$80,554		

**TABLE 12E:
SUMMARY OF INTEREST
FY 2023
(\$000s)**

Obligation Type	General Project	Specific Project	2033	2034	2035	2036	2037	2038	2039		
Appropriation	Bureau of Reclamation	Boise	-	-	-	-	-	-	-		
		Columbia Basin	-	-	-	-	-	-	-		
		Hungry Horse Dam	-	-	-	-	-	-	-		
		Minidoka/Palisades	-	-	-	-	-	-	-		
		RRP - Green Springs	-	-	-	-	-	-	-		
		Yakima Chandler/Kenniwick	-	-	-	-	-	-	-		
		Bureau of Reclamation Subtotal:	-	-	-	-	-	-	-	-	
	Corps of Engineers	Albeni Falls	-	-	-	-	-	-	-	-	
		Bonneville Dam	-	-	-	-	-	-	-	-	
		Chief Joseph	-	-	-	-	-	-	-	-	
		Columbia River Fish Mitigation	548	148	-	-	-	-	-	-	
		Cougar	-	-	-	-	-	-	-	-	
		Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	
		Dworshak	-	-	-	-	-	-	-	-	
		Green Peter/Foster	-	-	-	-	-	-	-	-	
		Hills Creek	-	-	-	-	-	-	-	-	
		Ice Harbor	-	-	-	-	-	-	-	-	
		John Day	-	-	-	-	-	-	-	-	
		Libby	-	-	-	-	-	-	-	-	
		Little Goose	58	-	-	-	-	-	-	-	
		Lookout Dam	-	-	-	-	-	-	-	-	
		Lost Creek	-	-	-	-	-	-	-	-	
		Lower Granite	200	-	-	-	-	-	-	-	
		Lower Monument	-	-	-	-	-	-	-	-	
		McNary	-	-	-	-	-	-	-	-	
		The Dalles	-	-	-	-	-	-	-	-	
	Corps of Engineers Subtotal:	807	148	-	-	-	-	-	-		
	Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	-	-	-	-	-	-	-	-	
		Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-	-	-	
	Appropriation Subtotal:			807	148	-	-	-	-	-	
	Treasury	BPA Borrowing	(Less Interest Income)	(124)	(121)	(135)	(142)	(147)	(153)	(160)	
			Bureau Direct	3,748	1,681	25	-	-	-	-	
			Interest Accrual	623	4	-	-	-	-	-	
			Interest Accrual Reversal	(1,079)	(623)	(4)	-	-	-	-	
			Conservation	-	-	-	-	-	-	-	
			Interest Accrual	-	-	-	-	-	-	-	
			Interest Accrual Reversal	-	-	-	-	-	-	-	
			Construction (AS)	-	-	-	-	-	-	-	
			Interest Accrual	-	-	-	-	-	-	-	
			Interest Accrual Reversal	-	-	-	-	-	-	-	
			Corps	5,439	2,680	17	-	-	-	-	
			Interest Accrual	1,049	3	-	-	-	-	-	
			Interest Accrual Reversal	(1,351)	(1,049)	(3)	-	-	-	-	
			Fish and Wildlife	1,515	-	-	-	-	-	-	
			Interest Accrual	-	-	-	-	-	-	-	
			Interest Accrual Reversal	(287)	-	-	-	-	-	-	
			Technology (G)	-	-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	-		
Interest Accrual Reversal			-	-	-	-	-	-	-		
BPA Borrowing Subtotal:			9,533	2,575	(100)	(142)	(147)	(153)	(160)		
Federal Generation Replacements			Replacements	67,255	74,335	76,315	72,569	67,744	61,937	55,377	
			Federal Generation Replacements Subtotal:	67,255	74,335	76,315	72,569	67,744	61,937	55,377	
Treasury Subtotal:			76,788	76,909	76,215	72,427	67,598	61,785	55,217		
Grand Total:			\$77,595	\$77,057	\$76,215	\$72,427	\$67,598	\$61,785	\$55,217		

**TABLE 12E:
SUMMARY OF INTEREST
FY 2023
(\$000s)**

Obligation Type	General Project	Specific Project	2040	2041	2042	2043	2044	2045	2046		
Appropriation	Bureau of Reclamation	Boise	-	-	-	-	-	-	-		
		Columbia Basin	-	-	-	-	-	-	-		
		Hungry Horse Dam	-	-	-	-	-	-	-		
		Minidoka/Palisades	-	-	-	-	-	-	-		
		RRP - Green Springs	-	-	-	-	-	-	-		
		Yakima Chandler/Kenniwick	-	-	-	-	-	-	-		
		Bureau of Reclamation Subtotal:	-	-	-	-	-	-	-	-	
	Corps of Engineers	Albeni Falls	-	-	-	-	-	-	-	-	
		Bonneville Dam	-	-	-	-	-	-	-	-	
		Chief Joseph	-	-	-	-	-	-	-	-	
		Columbia River Fish Mitigation	-	-	-	-	-	-	-	-	
		Cougar	-	-	-	-	-	-	-	-	
		Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	
		Dworshak	-	-	-	-	-	-	-	-	
		Green Peter/Foster	-	-	-	-	-	-	-	-	
		Hills Creek	-	-	-	-	-	-	-	-	
		Ice Harbor	-	-	-	-	-	-	-	-	
		John Day	-	-	-	-	-	-	-	-	
		Libby	-	-	-	-	-	-	-	-	
		Little Goose	-	-	-	-	-	-	-	-	
		Lookout Dam	-	-	-	-	-	-	-	-	
		Lost Creek	-	-	-	-	-	-	-	-	
		Lower Granite	-	-	-	-	-	-	-	-	
	Lower Monument	-	-	-	-	-	-	-	-		
	McNary	-	-	-	-	-	-	-	-		
	The Dalles	-	-	-	-	-	-	-	-		
	Corps of Engineers Subtotal:	-	-	-	-	-	-	-	-		
	Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	-	-	-	-	-	-	-	-	
		Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-	-	-	
	Appropriation Subtotal:			-	-	-	-	-	-	-	
	Treasury	BPA Borrowing	(Less Interest Income)	(163)	(165)	(170)	(204)	(175)	(83)	(83)	
			Bureau Direct	-	-	-	-	-	-	-	-
			Interest Accrual	-	-	-	-	-	-	-	-
Interest Accrual Reversal			-	-	-	-	-	-	-	-	
Conservation			-	-	-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	-	-	
Construction (AS)			-	-	-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	-	-	
Corps			-	-	-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	-	-	
Fish and Wildlife			-	-	-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	-	-	
Technology (G)			-	-	-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	-	-	
BPA Borrowing Subtotal:			(163)	(165)	(170)	(204)	(175)	(83)	(83)		
Federal Generation Replacements			Replacements	48,211	41,599	34,594	24,567	14,157	9,508	9,146	
			Federal Generation Replacements Subtotal:	48,211	41,599	34,594	24,567	14,157	9,508	9,146	
Treasury Subtotal:			48,048	41,435	34,424	24,363	13,982	9,425	9,064		
Grand Total:			\$48,048	\$41,435	\$34,424	\$24,363	\$13,982	\$9,425	\$9,064		

**TABLE 12E:
SUMMARY OF INTEREST
FY 2023
(\$000s)**

Obligation Type	General Project	Specific Project	2047	2048	2049	2050	2051	2052	2053		
Appropriation	Bureau of Reclamation	Boise	-	-	-	-	-	-	-		
		Columbia Basin	-	-	-	-	-	-	-		
		Hungry Horse Dam	-	-	-	-	-	-	-		
		Minidoka/Palisades	-	-	-	-	-	-	-		
		RRP - Green Springs	-	-	-	-	-	-	-		
		Yakima Chandler/Kenniwick	-	-	-	-	-	-	-		
		Bureau of Reclamation Subtotal:	-	-	-	-	-	-	-	-	
	Corps of Engineers	Albeni Falls	-	-	-	-	-	-	-	-	
		Bonneville Dam	-	-	-	-	-	-	-	-	
		Chief Joseph	-	-	-	-	-	-	-	-	
		Columbia River Fish Mitigation	-	-	-	-	-	-	-	-	
		Cougar	-	-	-	-	-	-	-	-	
		Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	
		Dworshak	-	-	-	-	-	-	-	-	
		Green Peter/Foster	-	-	-	-	-	-	-	-	
		Hills Creek	-	-	-	-	-	-	-	-	
		Ice Harbor	-	-	-	-	-	-	-	-	
		John Day	-	-	-	-	-	-	-	-	
		Libby	-	-	-	-	-	-	-	-	
		Little Goose	-	-	-	-	-	-	-	-	
		Lookout Dam	-	-	-	-	-	-	-	-	
		Lost Creek	-	-	-	-	-	-	-	-	
		Lower Granite	-	-	-	-	-	-	-	-	
		Lower Monument	-	-	-	-	-	-	-	-	
		McNary	-	-	-	-	-	-	-	-	
		The Dalles	-	-	-	-	-	-	-	-	
		Corps of Engineers Subtotal:	-	-	-	-	-	-	-	-	
	Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	-	-	-	-	-	-	-	-	
		Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-	-	-	
	Appropriation Subtotal:			-	-	-	-	-	-	-	
	Treasury	BPA Borrowing	(Less Interest Income)	(83)	(83)	(83)	(83)	(83)	(83)	(83)	
			Bureau Direct	-	-	-	-	-	-	-	-
			Interest Accrual	-	-	-	-	-	-	-	-
			Interest Accrual Reversal	-	-	-	-	-	-	-	-
			Conservation	-	-	-	-	-	-	-	-
			Interest Accrual	-	-	-	-	-	-	-	-
			Interest Accrual Reversal	-	-	-	-	-	-	-	-
			Construction (AS)	-	-	-	-	-	-	-	-
			Interest Accrual	-	-	-	-	-	-	-	-
			Interest Accrual Reversal	-	-	-	-	-	-	-	-
			Corps	-	-	-	-	-	-	-	-
			Interest Accrual	-	-	-	-	-	-	-	-
			Interest Accrual Reversal	-	-	-	-	-	-	-	-
			Fish and Wildlife	-	-	-	-	-	-	-	-
			Interest Accrual	-	-	-	-	-	-	-	-
			Interest Accrual Reversal	-	-	-	-	-	-	-	-
			Technology (G)	-	-	-	-	-	-	-	-
Interest Accrual			-	-	-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	-	-	
BPA Borrowing Subtotal:			(83)	(83)	(83)	(83)	(83)	(83)	(83)	(83)	
Federal Generation Replacements			Replacements	8,611	8,061	7,495	7,144	7,080	7,080	7,080	
			Federal Generation Replacements Subtotal:	8,611	8,061	7,495	7,144	7,080	7,080	7,080	
Treasury Subtotal:			8,528	7,978	7,412	7,061	6,996	6,996			
Grand Total:			8,528	7,978	7,412	7,061	6,996	6,996			

**TABLE 12E:
SUMMARY OF INTEREST
FY 2023
(\$000s)**

Obligation Type	General Project	Specific Project	2054	2055	2056	2057	2058	2059	2060		
Appropriation	Bureau of Reclamation	Boise	-	-	-	-	-	-	-		
		Columbia Basin	-	-	-	-	-	-	-		
		Hungry Horse Dam	-	-	-	-	-	-	-		
		Minidoka/Palisades	-	-	-	-	-	-	-		
		RRP - Green Springs	-	-	-	-	-	-	-		
		Yakima Chandler/Kenniwick	-	-	-	-	-	-	-		
		Bureau of Reclamation Subtotal:	-	-	-	-	-	-	-	-	
	Corps of Engineers	Albeni Falls	-	-	-	-	-	-	-	-	
		Bonneville Dam	-	-	-	-	-	-	-	-	
		Chief Joseph	-	-	-	-	-	-	-	-	
		Columbia River Fish Mitigation	-	-	-	-	-	-	-	-	
		Cougar	-	-	-	-	-	-	-	-	
		Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	
		Dworshak	-	-	-	-	-	-	-	-	
		Green Peter/Foster	-	-	-	-	-	-	-	-	
		Hills Creek	-	-	-	-	-	-	-	-	
		Ice Harbor	-	-	-	-	-	-	-	-	
		John Day	-	-	-	-	-	-	-	-	
		Libby	-	-	-	-	-	-	-	-	
		Little Goose	-	-	-	-	-	-	-	-	
		Lookout Dam	-	-	-	-	-	-	-	-	
		Lost Creek	-	-	-	-	-	-	-	-	
		Lower Granite	-	-	-	-	-	-	-	-	
		Lower Monument	-	-	-	-	-	-	-	-	
		McNary	-	-	-	-	-	-	-	-	
		The Dalles	-	-	-	-	-	-	-	-	
		Corps of Engineers Subtotal:	-	-	-	-	-	-	-	-	
	Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	-	-	-	-	-	-	-	-	
		Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-	-	-	
	Appropriation Subtotal:			-	-	-	-	-	-	-	
	Treasury	BPA Borrowing	(Less Interest Income)	(83)	(83)	(83)	(83)	(83)	(83)	(83)	
			Bureau Direct	-	-	-	-	-	-	-	-
			Interest Accrual	-	-	-	-	-	-	-	-
			Interest Accrual Reversal	-	-	-	-	-	-	-	-
			Conservation	-	-	-	-	-	-	-	-
			Interest Accrual	-	-	-	-	-	-	-	-
			Interest Accrual Reversal	-	-	-	-	-	-	-	-
			Construction (AS)	-	-	-	-	-	-	-	-
			Interest Accrual	-	-	-	-	-	-	-	-
			Interest Accrual Reversal	-	-	-	-	-	-	-	-
			Corps	-	-	-	-	-	-	-	-
			Interest Accrual	-	-	-	-	-	-	-	-
			Interest Accrual Reversal	-	-	-	-	-	-	-	-
			Fish and Wildlife	-	-	-	-	-	-	-	-
			Interest Accrual	-	-	-	-	-	-	-	-
			Interest Accrual Reversal	-	-	-	-	-	-	-	-
			Technology (G)	-	-	-	-	-	-	-	-
Interest Accrual			-	-	-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	-	-	
BPA Borrowing Subtotal:			(83)	(83)	(83)	(83)	(83)	(83)	(83)	(83)	
Federal Generation Replacements			Replacements	7,080	7,080	7,080	7,080	7,080	7,080	7,080	7,080
			Federal Generation Replacements Subtotal:	7,080	7,080	7,080	7,080	7,080	7,080	7,080	7,080
Treasury Subtotal:			6,996	6,996	6,996	6,996	6,996	6,996	6,996		
Grand Total:			\$6,996	\$6,996	\$6,996	\$6,996	\$6,996	\$6,996	\$6,996		

**TABLE 12E:
SUMMARY OF INTEREST
FY 2023
(\$000s)**

Obligation Type	General Project	Specific Project	2061	2062	2063	2064	2065	2066	2067	
Appropriation	Bureau of Reclamation	Boise	-	-	-	-	-	-	-	
		Columbia Basin	-	-	-	-	-	-	-	
		Hungry Horse Dam	-	-	-	-	-	-	-	
		Minidoka/Palisades	-	-	-	-	-	-	-	
		RRP - Green Springs	-	-	-	-	-	-	-	
		Yakima Chandler/Kenniwick	-	-	-	-	-	-	-	
	Bureau of Reclamation Subtotal:		-	-	-	-	-	-	-	
	Corps of Engineers	Albeni Falls	-	-	-	-	-	-	-	
		Bonneville Dam	-	-	-	-	-	-	-	
		Chief Joseph	-	-	-	-	-	-	-	
		Columbia River Fish Mitigation	-	-	-	-	-	-	-	
		Cougar	-	-	-	-	-	-	-	
		Detroit Lake/Big Cliff	-	-	-	-	-	-	-	
		Dworshak	-	-	-	-	-	-	-	
		Green Peter/Foster	-	-	-	-	-	-	-	
		Hills Creek	-	-	-	-	-	-	-	
		Ice Harbor	-	-	-	-	-	-	-	
		John Day	-	-	-	-	-	-	-	
		Libby	-	-	-	-	-	-	-	
		Little Goose	-	-	-	-	-	-	-	
		Lookout Dam	-	-	-	-	-	-	-	
		Lost Creek	-	-	-	-	-	-	-	
		Lower Granite	-	-	-	-	-	-	-	
		Lower Monument	-	-	-	-	-	-	-	
		McNary	-	-	-	-	-	-	-	
	The Dalles	-	-	-	-	-	-	-		
	Corps of Engineers Subtotal:		-	-	-	-	-	-	-	
	Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	-	-	-	-	-	-	-	
		Lower Snake Fish & Wildlife Subtotal:		-	-	-	-	-	-	
	Appropriation Subtotal:			-	-	-	-	-	-	
	Treasury	BPA Borrowing	(Less Interest Income)	(83)	(83)	(83)	(83)	(83)	(83)	(83)
			Bureau Direct	-	-	-	-	-	-	-
			Interest Accrual	-	-	-	-	-	-	-
			Interest Accrual Reversal	-	-	-	-	-	-	-
			Conservation	-	-	-	-	-	-	-
			Interest Accrual	-	-	-	-	-	-	-
			Interest Accrual Reversal	-	-	-	-	-	-	-
			Construction (AS)	-	-	-	-	-	-	-
			Interest Accrual	-	-	-	-	-	-	-
			Interest Accrual Reversal	-	-	-	-	-	-	-
Corps			-	-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	-	
Fish and Wildlife			-	-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	-	
Technology (G)			-	-	-	-	-	-	-	
Interest Accrual			-	-	-	-	-	-	-	
Interest Accrual Reversal			-	-	-	-	-	-	-	
BPA Borrowing Subtotal:			(83)	(83)	(83)	(83)	(83)	(83)	(83)	
Federal Generation Replacements			Replacements	7,080	7,080	7,080	7,080	7,080	7,080	7,080
			Federal Generation Replacements Subtotal:		7,080	7,080	7,080	7,080	7,080	7,080
Treasury Subtotal:			6,996	6,996	6,996	6,996	6,996	6,996		
Grand Total:			\$6,996	\$6,996	\$6,996	\$6,996	\$6,996	\$6,996		

**TABLE 12E:
SUMMARY OF INTEREST
FY 2023
(\$000s)**

Obligation Type	General Project	Specific Project	2068	2069	2070	2071	2072	2073	Total		
Appropriation	Bureau of Reclamation	Boise	-	-	-	-	-	-	38		
		Columbia Basin	-	-	-	-	-	-	4,626		
		Hungry Horse Dam	-	-	-	-	-	-	484		
		Minidoka/Palisades	-	-	-	-	-	-	6,464		
		RRP - Green Springs	-	-	-	-	-	-	22		
		Yakima Chandler/Kenniwick	-	-	-	-	-	-	21		
		Bureau of Reclamation Subtotal:	-	-	-	-	-	-	-	11,655	
	Corps of Engineers	Albeni Falls	-	-	-	-	-	-	-	39	
		Bonneville Dam	-	-	-	-	-	-	-	6,118	
		Chief Joseph	-	-	-	-	-	-	-	9,751	
		Columbia River Fish Mitigation	-	-	-	-	-	-	-	326,685	
		Cougar	-	-	-	-	-	-	-	1,704	
		Detroit Lake/Big Cliff	-	-	-	-	-	-	-	184	
		Dworshak	-	-	-	-	-	-	-	734	
		Green Peter/Foster	-	-	-	-	-	-	-	224	
		Hills Creek	-	-	-	-	-	-	-	52	
		Ice Harbor	-	-	-	-	-	-	-	2,731	
		John Day	-	-	-	-	-	-	-	2,819	
		Libby	-	-	-	-	-	-	-	166	
		Little Goose	-	-	-	-	-	-	-	3,359	
		Lookout Dam	-	-	-	-	-	-	-	105	
		Lost Creek	-	-	-	-	-	-	-	2	
		Lower Granite	-	-	-	-	-	-	-	9,294	
		Lower Monument	-	-	-	-	-	-	-	1,614	
	McNary	-	-	-	-	-	-	-	1,742		
	The Dalles	-	-	-	-	-	-	-	537		
	Corps of Engineers Subtotal:	-	-	-	-	-	-	-	-	367,859	
	Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	-	-	-	-	-	-	-	1,817	
		Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-	-	-	1,817
	Appropriation Subtotal:			-	-	-	-	-	-	381,331	
	Treasury	BPA Borrowing	(Less Interest Income)	(83)	(83)	(83)	(83)	(83)	(83)	(5,684)	
			Bureau Direct	-	-	-	-	-	-	-	138,834
			Interest Accrual	-	-	-	-	-	-	-	25,659
Interest Accrual Reversal			-	-	-	-	-	-	-	(29,198)	
Conservation			-	-	-	-	-	-	-	17,602	
Interest Accrual			-	-	-	-	-	-	-	2,635	
Interest Accrual Reversal			-	-	-	-	-	-	-	(3,840)	
Construction (AS)			-	-	-	-	-	-	-	1,827	
Interest Accrual			-	-	-	-	-	-	-	269	
Interest Accrual Reversal			-	-	-	-	-	-	-	(338)	
Corps			-	-	-	-	-	-	-	129,852	
Interest Accrual			-	-	-	-	-	-	-	26,033	
Interest Accrual Reversal			-	-	-	-	-	-	-	(28,304)	
Fish and Wildlife			-	-	-	-	-	-	-	70,627	
Interest Accrual			-	-	-	-	-	-	-	12,221	
Interest Accrual Reversal			-	-	-	-	-	-	-	(13,861)	
Technology (G)			-	-	-	-	-	-	-	25	
Interest Accrual			-	-	-	-	-	-	-	2	
Interest Accrual Reversal			-	-	-	-	-	-	-	(4)	
BPA Borrowing Subtotal:			(83)	(83)	(83)	(83)	(83)	(83)	(83)	(83)	344,360
Federal Generation Replacements			Replacements	7,080	7,080	7,080	7,080	7,080	7,080	7,080	1,138,175
			Federal Generation Replacements Subtotal:	7,080	7,080	7,080	7,080	7,080	7,080	7,080	1,138,175
Treasury Subtotal:			6,996	6,996	6,996	6,996	6,996	6,996	1,482,535		
Grand Total:			\$6,996	\$6,996	\$6,996	\$6,996	\$6,996	\$6,996	\$1,863,866		

**TABLE 12F:
SUMMARY OF AMORTIZATION
FY 2023
(\$000s)**

Obligation Type	General Project	Specific Project	2021	2022	2023	2024	2025	2026	2027		
Appropriation	Bureau of Reclamation	Boise	-	-	-	-	-	-	2		
		Columbia Basin	-	-	-	-	-	-	1,338		
		Hungry Horse Dam	-	-	-	-	-	-	60		
		Minidoka/Palisades	-	-	-	-	-	-	-		
		RRP - Green Springs	-	-	-	-	-	-	-		
		Yakima Chandler/Kenniwick	-	-	-	-	-	-	15		
	Bureau of Reclamation Subtotal:		-	-	-	-	-	-	1,416		
	Corps of Engineers	Albeni Falls	-	-	-	-	-	-	-	-	
		Bonneville Dam	-	-	-	-	-	-	-	-	
		Chief Joseph	-	-	-	-	-	-	-	-	
		Columbia River Fish Mitigation	95,000	-	-	22,983	10,390	14,348	6,050	-	
		Cougar	-	-	-	-	-	-	-	-	
		Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-	
		Dworshak	-	-	-	-	-	61	2,318	-	
		Green Peter/Foster	-	-	-	-	-	-	-	-	
		Hills Creek	-	-	-	-	-	-	-	-	
		Ice Harbor	-	-	-	-	-	-	-	2,615	
		John Day	-	-	-	601	-	-	-	1,548	
		Libby	-	-	-	-	-	-	-	-	
		Little Goose	-	-	-	-	-	-	-	3,171	
		Lookout Dam	-	-	-	-	-	-	-	-	
		Lost Creek	-	-	-	-	-	-	-	-	
		Lower Granite	-	-	-	-	-	-	-	5,669	
		Lower Monument	-	-	-	285	-	-	-	2,332	
		McNary	-	-	-	4,080	-	-	-	-	
		The Dalles	-	-	-	2,030	-	-	-	-	
		Corps of Engineers Subtotal:		95,000	-	-	29,978	10,390	14,409	23,704	-
	Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	-	-	-	379	-	-	-	-	
		Lower Snake Fish & Wildlife Subtotal:	-	-	-	379	-	-	-	-	
	Appropriation Subtotal:		95,000	-	-	30,357	10,390	14,409	25,120	-	
	Bond	BPA Borrowing	Bureau Direct	178,000	70,329	58,074	164,441	-	-	-	
			Principal Accrual	-	-	-	-	-	-	-	
			Principal Accrual Reversal	-	-	-	-	-	-	-	
			Conservation	19,000	45,000	102,000	82,000	64,000	6,000	6,000	
			Principal Accrual	-	-	-	-	-	-	-	
			Principal Accrual Reversal	-	-	-	-	-	-	-	
			Construction (AS)	4,100	14,952	-	4,200	-	-	27,118	
			Principal Accrual	-	-	-	-	-	-	-	
			Principal Accrual Reversal	-	-	-	-	-	-	-	
			Corps	95,000	307,720	321,926	-	-	-	-	
			Principal Accrual	-	-	-	-	-	-	-	
			Principal Accrual Reversal	-	-	-	-	-	-	-	
			Fish and Wildlife	51,000	51,000	43,000	20,000	23,000	80,000	55,000	
			Principal Accrual	-	-	-	-	-	-	-	
			Principal Accrual Reversal	-	-	-	-	-	-	-	
Technology (G)			3,000	6,000	-	-	-	-	-		
Principal Accrual			-	-	-	-	-	-	-		
Principal Accrual Reversal			-	-	-	-	-	-	-		
BPA Borrowing Subtotal:			350,100	495,000	525,000	270,641	87,000	86,000	88,118		
Federal Generation Replacements			Replacements	-	-	-	-	-	-	-	
			Principal Accrual	-	-	-	-	-	-	-	
			Principal Accrual Reversal	-	-	-	-	-	-	-	
Federal Generation Replacements Subtotal:			-	-	-	-	-	-	-		
Make Whole Call			Discounts	-	-	-	-	-	-	-	
			Premiums	-	767	1,768	59,169	-	-	-	
			Make Whole Call Subtotal:	-	767	1,768	59,169	-	-	-	
Bond Subtotal:			350,100	495,000	525,000	270,641	87,000	86,000	88,118		
Irrigation			Irrigation Assistance	Irrigation Assistance	22,112	16,060	12,762	7,710	13,436	19,726	6,084
				Irrigation Assistance Subtotal:	22,112	16,060	12,762	7,710	13,436	19,726	6,084
			Irrigation Subtotal:	22,112	16,060	12,762	7,710	13,436	19,726	6,084	
Grand Total:		\$467,212	\$511,060	\$537,762	\$308,708	\$110,826	\$120,135	\$119,322			

**TABLE 12F:
SUMMARY OF AMORTIZATION
FY 2023
(\$000s)**

Obligation Type	General Project	Specific Project	2028	2029	2030	2031	2032	2033	2034	
Appropriation	Bureau of Reclamation	Boise	-	-	-	118	-	-	-	
		Columbia Basin	-	2,600	11	7,299	3,084	-	-	
		Hungry Horse Dam	-	1,276	-	-	-	-	-	
		Minidoka/Palisades	-	-	17,477	1,973	272	-	-	
		RRP - Green Springs	-	-	2	17	64	-	-	
		Yakima Chandler/Kenniwick	-	-	-	-	49	-	-	
		Bureau of Reclamation Subtotal:		-	3,875	17,490	9,407	3,469	-	-
	Corps of Engineers	Albeni Falls	-	99	-	-	-	-	-	-
		Bonneville Dam	-	4,169	10,962	838	268	-	-	
		Chief Joseph	-	24,727	31	-	10	-	-	
		Columbia River Fish Mitigation	55,306	210,445	205,935	189,322	216,084	37,693	10,731	
		Cougar	-	192	421	2	4,357	-	-	
		Detroit Lake/Big Cliff	-	18	-	560	-	-	-	
		Dworshak	-	-	-	-	-	29	-	
		Green Peter/Foster	-	472	28	148	-	1	-	
		Hills Creek	-	12	142	-	-	-	-	
		Ice Harbor	-	1,025	115	4,363	-	-	-	
		John Day	-	530	6,050	-	-	-	-	
		Libby	-	192	16	-	282	5	-	
		Little Goose	-	30	-	66	2,707	5,504	-	
		Lookout Dam	-	17	294	-	-	-	-	
		Lost Creek	-	7	-	-	-	-	-	
		Lower Granite	-	3,809	-	3,475	-	18,822	-	
		Lower Monument	-	1,430	89	155	942	-	-	
	McNary	-	1,324	11	1,479	239	-	-		
	The Dalles	-	-	-	464	25	-	-		
	Corps of Engineers Subtotal:		55,306	248,498	224,094	200,871	224,914	62,054	10,731	
	Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	-	1,767	122	1,256	1,903	-	-	
		Lower Snake Fish & Wildlife Subtotal:		-	1,767	122	1,256	1,903	-	-
	Appropriation Subtotal:		55,306	254,141	241,705	211,534	230,287	62,054	10,731	
	Bond	BPA Borrowing	Bureau Direct	-	106,000	32,000	27,000	27,039	91,614	174,737
			Principal Accrual	-	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-	-
			Conservation	25,000	-	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-	-
			Construction (AS)	-	7,063	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-	-
			Corps	27,000	-	40,000	57,000	85,722	105,938	181,622
			Principal Accrual	-	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-	-
			Fish and Wildlife	3,000	56,000	8,000	13,000	-	108,998	-
			Principal Accrual	-	-	-	-	-	-	-
Principal Accrual Reversal			-	-	-	-	-	-	-	
Technology (G)			-	-	-	-	-	-	-	
Principal Accrual			-	-	-	-	-	-	-	
Principal Accrual Reversal			-	-	-	-	-	-	-	
BPA Borrowing Subtotal:				55,000	169,063	80,000	97,000	112,761	306,550	356,359
Federal Generation Replacements			Replacements	-	-	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-	-
Federal Generation Replacements Subtotal:				-	-	-	-	-	-	-
Make Whole Call			Discounts	-	-	-	-	-	(22,389)	(52,690)
			Premiums	-	4,912	-	139	-	-	-
			Make Whole Call Subtotal:		-	4,912	-	139	(22,389)	(52,690)
Bond Subtotal:				55,000	169,063	80,000	97,000	112,761	328,939	409,049
Irrigation	Irrigation Assistance	Irrigation Assistance	11,126	4,065	1,996	10,433	-	4,347	-	
		Irrigation Assistance Subtotal:		11,126	4,065	1,996	10,433	-	4,347	-
	Irrigation Subtotal:		11,126	4,065	1,996	10,433	-	4,347	-	
Grand Total:		\$121,432	\$427,268	\$323,701	\$318,968	\$343,048	\$395,340	\$419,780		

**TABLE 12F:
SUMMARY OF AMORTIZATION
FY 2023
(\$000s)**

Obligation Type	General Project	Specific Project	2035	2036	2037	2038	2039	2040	2041	
Appropriation	Bureau of Reclamation	Boise	-	-	-	-	-	-	-	
		Columbia Basin	-	-	-	-	-	-	-	
		Hungry Horse Dam	-	-	-	-	-	-	-	
		Minidoka/Palisades	-	-	-	-	-	-	-	
		RRP - Green Springs	-	-	-	-	-	-	-	
		Yakima Chandler/Kenniwick	-	-	-	-	-	-	-	
		Bureau of Reclamation Subtotal:		-	-	-	-	-	-	
	Corps of Engineers	Albeni Falls	-	-	-	-	-	-	-	-
		Bonneville Dam	-	-	-	-	-	-	-	-
		Chief Joseph	-	-	-	-	-	-	-	-
		Columbia River Fish Mitigation	-	-	-	-	-	-	-	-
		Cougar	-	-	-	-	-	-	-	-
		Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-
		Dworshak	-	-	-	-	-	-	-	-
		Green Peter/Foster	-	-	-	-	-	-	-	-
		Hills Creek	-	-	-	-	-	-	-	-
		Ice Harbor	-	-	-	-	-	-	-	-
		John Day	-	-	-	-	-	-	-	-
		Libby	-	-	-	-	-	-	-	-
		Little Goose	-	-	-	-	-	-	-	-
		Lookout Dam	-	-	-	-	-	-	-	-
		Lost Creek	-	-	-	-	-	-	-	-
		Lower Granite	-	-	-	-	-	-	-	-
		Lower Monument	-	-	-	-	-	-	-	-
		McNary	-	-	-	-	-	-	-	-
		The Dalles	-	-	-	-	-	-	-	-
			Corps of Engineers Subtotal:		-	-	-	-	-	-
	Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	-	-	-	-	-	-	-	-
		Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-	-	
		Appropriation Subtotal:		-	-	-	-	-	-	
	Bond	BPA Borrowing	Bureau Direct	25,218	-	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-	-
			Conservation	-	-	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-	-
			Construction (AS)	-	-	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-	-
			Corps	17,119	-	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-	-
		Fish and Wildlife	-	-	-	-	-	-	-	
		Principal Accrual	-	-	-	-	-	-	-	
Principal Accrual Reversal		-	-	-	-	-	-	-		
Technology (G)		-	-	-	-	-	-	-		
Principal Accrual		-	-	-	-	-	-	-		
Principal Accrual Reversal		-	-	-	-	-	-	-		
		BPA Borrowing Subtotal:		42,337	-	-	-	-	-	
Federal Generation Replacements		Replacements	364,255	408,961	441,342	479,125	495,123	522,431	455,535	
		Principal Accrual	-	-	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	-	-	
		Federal Generation Replacements Subtotal:		364,255	408,961	441,342	479,125	495,123	522,431	455,535
Make Whole Call		Discounts	(14,873)	-	-	-	-	-	-	
		Premiums	-	-	-	-	-	-	-	
			Make Whole Call Subtotal:		(14,873)	-	-	-	-	
		Bond Subtotal:		421,465	408,961	441,342	479,125	495,123	522,431	455,535
Irrigation		Irrigation Assistance	Irrigation Assistance	7,695	28,920	15,427	-	13,995	-	73,659
			Irrigation Assistance Subtotal:	7,695	28,920	15,427	-	13,995	-	73,659
			Irrigation Subtotal:		7,695	28,920	15,427	-	13,995	-
	Grand Total:		\$429,159	\$437,882	\$456,769	\$479,125	\$509,119	\$522,431	\$529,194	

**TABLE 12F:
SUMMARY OF AMORTIZATION
FY 2023
(\$000s)**

Obligation Type	General Project	Specific Project	2042	2043	2044	2045	2046	2047	2048		
Appropriation	Bureau of Reclamation	Boise	-	-	-	-	-	-	-		
		Columbia Basin	-	-	-	-	-	-	-		
		Hungry Horse Dam	-	-	-	-	-	-	-		
		Minidoka/Palisades	-	-	-	-	-	-	-		
		RRP - Green Springs	-	-	-	-	-	-	-		
		Yakima Chandler/Kenniwick	-	-	-	-	-	-	-		
			Bureau of Reclamation Subtotal:	-	-	-	-	-	-		
	Corps of Engineers	Albeni Falls	-	-	-	-	-	-	-		
		Bonneville Dam	-	-	-	-	-	-	-		
		Chief Joseph	-	-	-	-	-	-	-		
		Columbia River Fish Mitigation	-	-	-	-	-	-	-		
		Cougar	-	-	-	-	-	-	-		
		Detroit Lake/Big Cliff	-	-	-	-	-	-	-		
		Dworshak	-	-	-	-	-	-	-		
		Green Peter/Foster	-	-	-	-	-	-	-		
		Hills Creek	-	-	-	-	-	-	-		
		Ice Harbor	-	-	-	-	-	-	-		
		John Day	-	-	-	-	-	-	-		
		Libby	-	-	-	-	-	-	-		
		Little Goose	-	-	-	-	-	-	-		
		Lookout Dam	-	-	-	-	-	-	-		
		Lost Creek	-	-	-	-	-	-	-		
		Lower Granite	-	-	-	-	-	-	-		
		Lower Monument	-	-	-	-	-	-	-		
		McNary	-	-	-	-	-	-	-		
		The Dalles	-	-	-	-	-	-	-		
				Corps of Engineers Subtotal:	-	-	-	-	-	-	
	Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	-	-	-	-	-	-	-		
		Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-	-		
			Appropriation Subtotal:	-	-	-	-	-	-		
	Bond	BPA Borrowing	Bureau Direct	-	-	-	-	-	-	-	
			Principal Accrual	-	-	-	-	-	-	-	
			Principal Accrual Reversal	-	-	-	-	-	-	-	
			Conservation	-	-	-	-	-	-	-	
			Principal Accrual	-	-	-	-	-	-	-	
			Principal Accrual Reversal	-	-	-	-	-	-	-	
			Construction (AS)	-	-	-	-	-	-	-	
			Principal Accrual	-	-	-	-	-	-	-	
			Principal Accrual Reversal	-	-	-	-	-	-	-	
			Corps	-	-	-	-	-	-	-	
			Principal Accrual	-	-	-	-	-	-	-	
			Principal Accrual Reversal	-	-	-	-	-	-	-	
			Fish and Wildlife	-	-	-	-	-	-	-	
			Principal Accrual	-	-	-	-	-	-	-	
			Principal Accrual Reversal	-	-	-	-	-	-	-	
Technology (G)			-	-	-	-	-	-	-		
Principal Accrual			-	-	-	-	-	-	-		
Principal Accrual Reversal			-	-	-	-	-	-	-		
				BPA Borrowing Subtotal:	-	-	-	-	-	-	
Federal Generation Replacements			Replacements	550,528	671,370	577,875	259,843	271,685	272,218	272,771	
			Principal Accrual	-	-	-	-	-	-	-	
			Principal Accrual Reversal	-	-	-	-	-	-	-	
				Federal Generation Replacements Subtotal:	550,528	671,370	577,875	259,843	271,685	272,218	272,771
Make Whole Call			Discounts	-	-	-	-	-	-	-	
			Premiums	-	-	-	-	-	-	-	
			Make Whole Call Subtotal:	-	-	-	-	-	-	-	
				Bond Subtotal:	550,528	671,370	577,875	259,843	271,685	272,218	272,771
Irrigation			Irrigation Assistance	Irrigation Assistance	-	-	-	11,479	-	-	
				Irrigation Assistance Subtotal:	-	-	-	11,479	-	-	
				Irrigation Subtotal:	-	-	-	11,479	-	-	
Grand Total:			550,528	671,370	577,875	271,322	271,685	272,218	272,771		

**TABLE 12F:
SUMMARY OF AMORTIZATION
FY 2023
(\$000s)**

Obligation Type	General Project	Specific Project	2049	2050	2051	2052	2053	2054	2055	
Appropriation	Bureau of Reclamation	Boise	-	-	-	-	-	-	-	
		Columbia Basin	-	-	-	-	-	-	-	
		Hungry Horse Dam	-	-	-	-	-	-	-	
		Minidoka/Palisades	-	-	-	-	-	-	-	
		RRP - Green Springs	-	-	-	-	-	-	-	
		Yakima Chandler/Kenniwick	-	-	-	-	-	-	-	
		Bureau of Reclamation Subtotal:		-	-	-	-	-	-	
	Corps of Engineers	Albeni Falls	-	-	-	-	-	-	-	-
		Bonneville Dam	-	-	-	-	-	-	-	-
		Chief Joseph	-	-	-	-	-	-	-	-
		Columbia River Fish Mitigation	-	-	-	-	-	-	-	-
		Cougar	-	-	-	-	-	-	-	-
		Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-
		Dworshak	-	-	-	-	-	-	-	-
		Green Peter/Foster	-	-	-	-	-	-	-	-
		Hills Creek	-	-	-	-	-	-	-	-
		Ice Harbor	-	-	-	-	-	-	-	-
		John Day	-	-	-	-	-	-	-	-
		Libby	-	-	-	-	-	-	-	-
		Little Goose	-	-	-	-	-	-	-	-
		Lookout Dam	-	-	-	-	-	-	-	-
		Lost Creek	-	-	-	-	-	-	-	-
		Lower Granite	-	-	-	-	-	-	-	-
		Lower Monument	-	-	-	-	-	-	-	-
		McNary	-	-	-	-	-	-	-	-
		The Dalles	-	-	-	-	-	-	-	-
			Corps of Engineers Subtotal:		-	-	-	-	-	-
	Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife		-	-	-	-	-	-	
		Lower Snake Fish & Wildlife Subtotal:		-	-	-	-	-	-	
		Appropriation Subtotal:		-	-	-	-	-	-	
	Bond	BPA Borrowing	Bureau Direct	-	-	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-	-
			Conservation	-	-	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-	-
			Construction (AS)	-	-	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-	-
			Corps	-	-	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-	-
			Fish and Wildlife	-	-	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-	-
Principal Accrual Reversal			-	-	-	-	-	-	-	
Technology (G)			-	-	-	-	-	-	-	
Principal Accrual			-	-	-	-	-	-	-	
Principal Accrual Reversal			-	-	-	-	-	-	-	
			BPA Borrowing Subtotal:		-	-	-	-	-	-
Federal Generation Replacements			Replacements		273,336	257,425	252,839	252,839	252,839	252,839
		Principal Accrual		-	-	-	-	-	-	
		Principal Accrual Reversal		-	-	-	-	-	-	
		Federal Generation Replacements Subtotal:		273,336	257,425	252,839	252,839	252,839	252,839	
Make Whole Call		Discounts		-	-	-	-	-	-	
		Premiums		-	-	-	-	-	-	
		Make Whole Call Subtotal:		-	-	-	-	-	-	
		Bond Subtotal:		273,336	257,425	252,839	252,839	252,839	252,839	
Irrigation		Irrigation Assistance	Irrigation Assistance	-	-	-	-	-	-	
			Irrigation Assistance Subtotal:		-	-	-	-	-	
		Irrigation Subtotal:		-	-	-	-	-	-	
Grand Total:				273,336	257,425	252,839	252,839	252,839	252,839	

**TABLE 12F:
SUMMARY OF AMORTIZATION
FY 2023
(\$000s)**

Obligation Type	General Project	Specific Project	2056	2057	2058	2059	2060	2061	2062	
Appropriation	Bureau of Reclamation	Boise	-	-	-	-	-	-	-	
		Columbia Basin	-	-	-	-	-	-	-	
		Hungry Horse Dam	-	-	-	-	-	-	-	
		Minidoka/Palisades	-	-	-	-	-	-	-	
		RRP - Green Springs	-	-	-	-	-	-	-	
		Yakima Chandler/Kenniwick	-	-	-	-	-	-	-	
		Bureau of Reclamation Subtotal:		-	-	-	-	-	-	
	Corps of Engineers	Albeni Falls	-	-	-	-	-	-	-	-
		Bonneville Dam	-	-	-	-	-	-	-	-
		Chief Joseph	-	-	-	-	-	-	-	-
		Columbia River Fish Mitigation	-	-	-	-	-	-	-	-
		Cougar	-	-	-	-	-	-	-	-
		Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-
		Dworshak	-	-	-	-	-	-	-	-
		Green Peter/Foster	-	-	-	-	-	-	-	-
		Hills Creek	-	-	-	-	-	-	-	-
		Ice Harbor	-	-	-	-	-	-	-	-
		John Day	-	-	-	-	-	-	-	-
		Libby	-	-	-	-	-	-	-	-
		Little Goose	-	-	-	-	-	-	-	-
		Lookout Dam	-	-	-	-	-	-	-	-
		Lost Creek	-	-	-	-	-	-	-	-
		Lower Granite	-	-	-	-	-	-	-	-
		Lower Monument	-	-	-	-	-	-	-	-
		McNary	-	-	-	-	-	-	-	-
		The Dalles	-	-	-	-	-	-	-	-
			Corps of Engineers Subtotal:		-	-	-	-	-	-
	Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife		-	-	-	-	-	-	
		Lower Snake Fish & Wildlife Subtotal:		-	-	-	-	-	-	
		Appropriation Subtotal:		-	-	-	-	-	-	
	Bond	BPA Borrowing	Bureau Direct	-	-	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-	-
			Conservation	-	-	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-	-
			Construction (AS)	-	-	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-	-
			Corps	-	-	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-	-
			Fish and Wildlife	-	-	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-	-
Principal Accrual Reversal			-	-	-	-	-	-	-	
Technology (G)			-	-	-	-	-	-	-	
Principal Accrual			-	-	-	-	-	-	-	
Principal Accrual Reversal			-	-	-	-	-	-	-	
			BPA Borrowing Subtotal:		-	-	-	-	-	-
Federal Generation Replacements			Replacements		252,839	252,839	252,839	252,839	252,839	252,839
		Principal Accrual		-	-	-	-	-	-	
		Principal Accrual Reversal		-	-	-	-	-	-	
		Federal Generation Replacements Subtotal:		252,839	252,839	252,839	252,839	252,839	252,839	
Make Whole Call		Discounts		-	-	-	-	-	-	
		Premiums		-	-	-	-	-	-	
		Make Whole Call Subtotal:		-	-	-	-	-	-	
		Bond Subtotal:		252,839	252,839	252,839	252,839	252,839	252,839	
Irrigation		Irrigation Assistance	Irrigation Assistance	-	-	-	-	-	-	
			Irrigation Assistance Subtotal:		-	-	-	-	-	
		Irrigation Subtotal:		-	-	-	-	-	-	
Grand Total:			252,839	252,839	252,839	252,839	252,839	252,839		

**TABLE 12F:
SUMMARY OF AMORTIZATION
FY 2023
(\$000s)**

Obligation Type	General Project	Specific Project	2063	2064	2065	2066	2067	2068	2069	
Appropriation	Bureau of Reclamation	Boise	-	-	-	-	-	-	-	
		Columbia Basin	-	-	-	-	-	-	-	
		Hungry Horse Dam	-	-	-	-	-	-	-	
		Minidoka/Palisades	-	-	-	-	-	-	-	
		RRP - Green Springs	-	-	-	-	-	-	-	
		Yakima Chandler/Kenniwick	-	-	-	-	-	-	-	
			Bureau of Reclamation Subtotal:	-	-	-	-	-	-	
	Corps of Engineers	Albeni Falls	-	-	-	-	-	-	-	-
		Bonneville Dam	-	-	-	-	-	-	-	-
		Chief Joseph	-	-	-	-	-	-	-	-
		Columbia River Fish Mitigation	-	-	-	-	-	-	-	-
		Cougar	-	-	-	-	-	-	-	-
		Detroit Lake/Big Cliff	-	-	-	-	-	-	-	-
		Dworshak	-	-	-	-	-	-	-	-
		Green Peter/Foster	-	-	-	-	-	-	-	-
		Hills Creek	-	-	-	-	-	-	-	-
		Ice Harbor	-	-	-	-	-	-	-	-
		John Day	-	-	-	-	-	-	-	-
		Libby	-	-	-	-	-	-	-	-
		Little Goose	-	-	-	-	-	-	-	-
		Lookout Dam	-	-	-	-	-	-	-	-
		Lost Creek	-	-	-	-	-	-	-	-
		Lower Granite	-	-	-	-	-	-	-	-
		Lower Monument	-	-	-	-	-	-	-	-
		McNary	-	-	-	-	-	-	-	-
		The Dalles	-	-	-	-	-	-	-	-
				Corps of Engineers Subtotal:	-	-	-	-	-	-
	Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	-	-	-	-	-	-	-	-
		Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	-	-	
			Appropriation Subtotal:	-	-	-	-	-	-	
	Bond	BPA Borrowing	Bureau Direct	-	-	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-	-
			Conservation	-	-	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-	-
			Construction (AS)	-	-	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-	-
			Corps	-	-	-	-	-	-	-
			Principal Accrual	-	-	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-	-	-
			Fish and Wildlife	-	-	-	-	-	-	-
Principal Accrual			-	-	-	-	-	-	-	
Principal Accrual Reversal			-	-	-	-	-	-	-	
Technology (G)			-	-	-	-	-	-	-	
Principal Accrual			-	-	-	-	-	-	-	
Principal Accrual Reversal			-	-	-	-	-	-	-	
				BPA Borrowing Subtotal:	-	-	-	-	-	
Federal Generation Replacements			Replacements	252,839	252,839	252,839	252,839	252,839	252,839	252,839
		Principal Accrual	-	-	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	-	-	
			Federal Generation Replacements Subtotal:	252,839	252,839	252,839	252,839	252,839	252,839	
Make Whole Call		Discounts	-	-	-	-	-	-	-	
		Premiums	-	-	-	-	-	-	-	
		Make Whole Call Subtotal:	-	-	-	-	-	-		
			Bond Subtotal:	252,839	252,839	252,839	252,839	252,839	252,839	
Irrigation		Irrigation Assistance	Irrigation Assistance	-	-	-	-	-	-	
			Irrigation Assistance Subtotal:	-	-	-	-	-		
			Irrigation Subtotal:	-	-	-	-	-		
Grand Total:				252,839	252,839	252,839	252,839	252,839	252,839	

**TABLE 12F:
SUMMARY OF AMORTIZATION
FY 2023
(\$000s)**

Obligation Type	General Project	Specific Project	2070	2071	2072	2073	Total	
Appropriation	Bureau of Reclamation	Boise	-	-	-	-	121	
		Columbia Basin	-	-	-	-	14,332	
		Hungry Horse Dam	-	-	-	-	1,336	
		Minidoka/Palisades	-	-	-	-	19,722	
		RRP - Green Springs	-	-	-	-	83	
		Yakima Chandler/Kennewick	-	-	-	-	65	
			Bureau of Reclamation Subtotal:	-	-	-	-	35,658
	Corps of Engineers	Albeni Falls	-	-	-	-	-	99
		Bonneville Dam	-	-	-	-	-	16,237
		Chief Joseph	-	-	-	-	-	24,769
		Columbia River Fish Mitigation	-	-	-	-	-	1,074,286
		Cougar	-	-	-	-	-	4,971
		Detroit Lake/Big Cliff	-	-	-	-	-	578
		Dworshak	-	-	-	-	-	2,409
		Green Peter/Foster	-	-	-	-	-	648
		Hills Creek	-	-	-	-	-	154
		Ice Harbor	-	-	-	-	-	8,118
		John Day	-	-	-	-	-	8,728
		Libby	-	-	-	-	-	494
		Little Goose	-	-	-	-	-	11,478
		Lookout Dam	-	-	-	-	-	311
		Lost Creek	-	-	-	-	-	7
		Lower Granite	-	-	-	-	-	31,775
		Lower Monument	-	-	-	-	-	5,235
		McNary	-	-	-	-	-	7,132
		The Dalles	-	-	-	-	-	2,519
				Corps of Engineers Subtotal:	-	-	-	-
	Lower Snake Fish & Wildlife	Lower Snake Fish and Wildlife	-	-	-	-	-	5,428
		Lower Snake Fish & Wildlife Subtotal:	-	-	-	-	-	5,428
		Appropriation Subtotal:	-	-	-	-	-	1,241,035
	Bond	BPA Borrowing	Bureau Direct	-	-	-	-	954,451
			Principal Accrual	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-
			Conservation	-	-	-	-	349,000
			Principal Accrual	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-
			Construction (AS)	-	-	-	-	57,432
			Principal Accrual	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-
			Corps	-	-	-	-	1,239,047
			Principal Accrual	-	-	-	-	-
			Principal Accrual Reversal	-	-	-	-	-
			Fish and Wildlife	-	-	-	-	511,998
Principal Accrual			-	-	-	-	-	
Principal Accrual Reversal			-	-	-	-	-	
Technology (G)			-	-	-	-	9,000	
Principal Accrual			-	-	-	-	-	
Principal Accrual Reversal			-	-	-	-	-	
			BPA Borrowing Subtotal:	-	-	-	-	3,120,928
Federal Generation Replacements		Replacements	252,839	252,839	252,839	252,839	12,389,131	
		Principal Accrual	-	-	-	-	-	
		Principal Accrual Reversal	-	-	-	-	-	
			Federal Generation Replacements Subtotal:	252,839	252,839	252,839	252,839	12,389,131
Make Whole Call	Discounts	-	-	-	-	(89,952)		
	Premiums	-	-	-	-	66,755		
	Make Whole Call Subtotal:	-	-	-	-	(23,197)		
	Bond Subtotal:	252,839	252,839	252,839	252,839	15,600,011		
Irrigation	Irrigation Assistance	Irrigation Assistance	-	-	-	-	281,033	
		Irrigation Assistance Subtotal:	-	-	-	-	281,033	
	Irrigation Subtotal:	-	-	-	-	281,033		
Grand Total:			\$252,839	\$252,839	\$252,839	\$252,839	\$17,122,078	

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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.

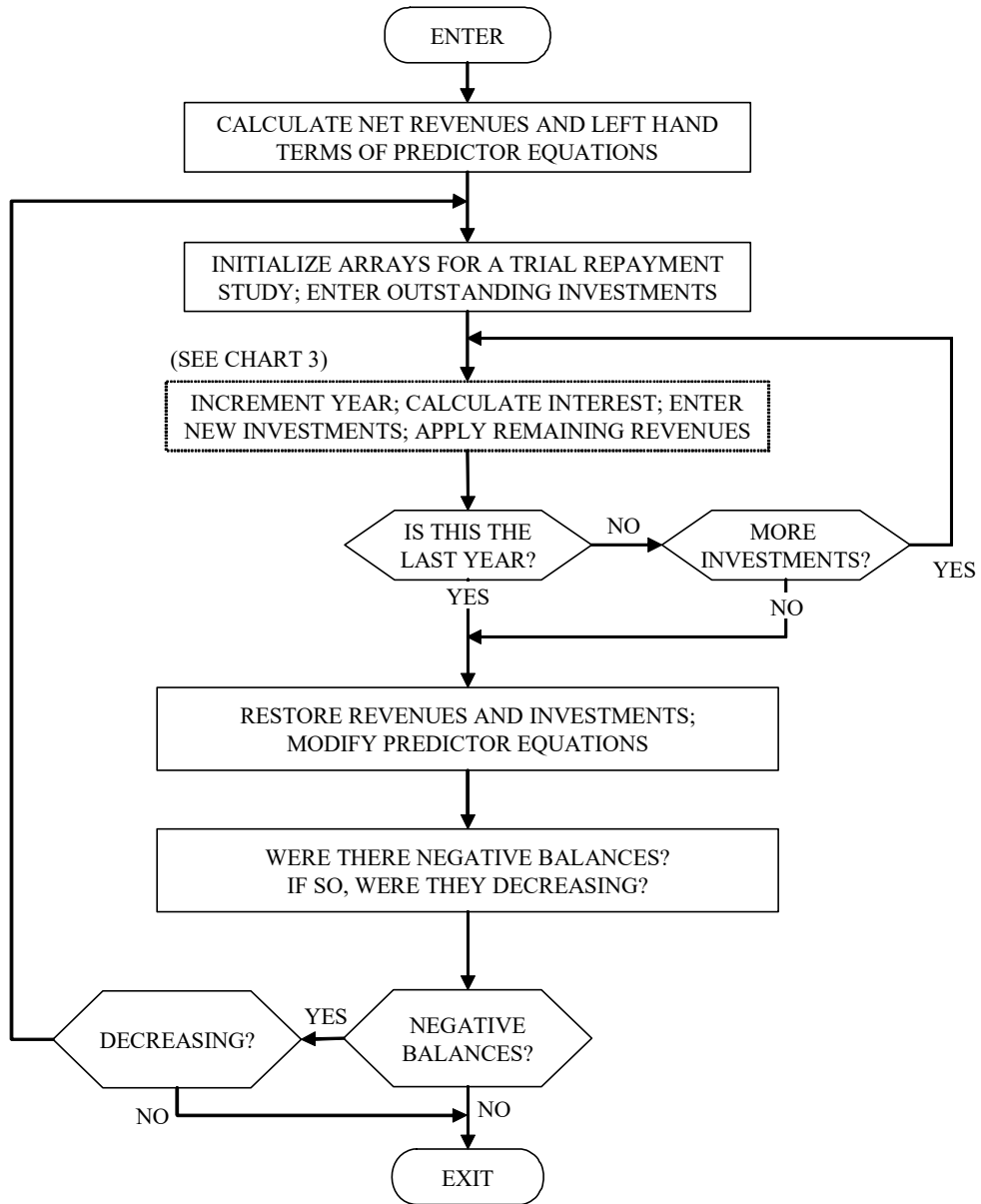
13.2 Repayment Program Logic

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.

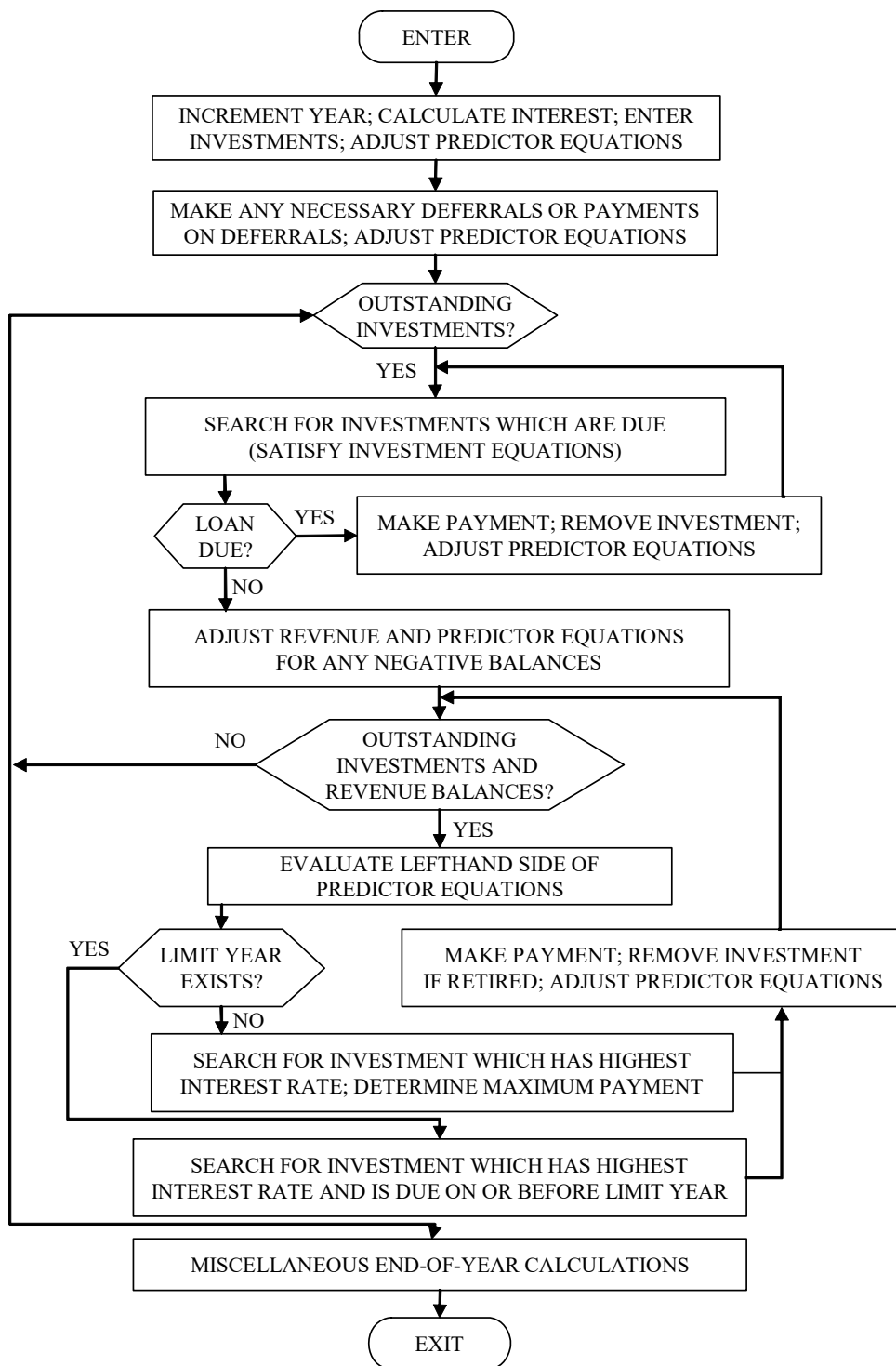
The equations which are referred to are:

- 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.

**REPAYMENT PROGRAM
(TEST FOR SUFFICIENCY)**



**REPAYMENT PROGRAM
(APPLICATION OF REVENUES)**



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