

BP-22 Rate Proceeding

Final Proposal

Power and Transmission Risk Study Documentation

BP-22-FS-BPA-05A

July 2021



POWER AND TRANSMISSION RISK STUDY DOCUMENTATION

TABLE OF CONTENTS

Page

COMMONLY USED ACRONYMS AND SHORT FORMS	iii
Table 1: Federal Hydro Generation (aMW) with Hydro Independents for FY 2022.....	1
Table 2: Federal Hydro Generation (aMW) with Hydro Independents for FY 2023.....	3
Table 3: Heavy-Load Hydro Generation for FY 2022	5
Table 3a: Light-Load Hydro Generation for FY 2022	7
Table 4: Heavy-Load Hydro Generation for FY 2023	9
Table 4a: Light-Load Hydro Generation for FY 2023	11
Table 5: Federal Hydro Generation Adjustment for Stand Ready & Deployment Losses, Light-Load-Hours for FY 2022	13
Table 6: Federal Hydro Generation Adjustment for Stand Ready & Deployment Losses, Heavy-Load-Hours for FY 2022	15
Table 7: Federal Hydro Generation Adjustment for Stand Ready & Deployment Losses, Flat Energy for FY 2022.....	17
Table 8: Federal Hydro Generation Adjustment for Stand Ready & Deployment Losses, Light-Load-Hours for FY 2023	19
Table 9: Federal Hydro Generation Adjustment for Stand Ready & Deployment Losses, Heavy-Load-Hours for FY 2023	21
Table 10: Federal Hydro Generation Adjustment for Stand Ready & Deployment Losses, Flat Energy for FY 2023.....	23
Table 11: Value of PS Wind Generation at Expected Wind Generation for FY 2022.....	25
Table 12: Value of PS Wind Generation at Expected Wind Generation for FY 2023.....	26
Table 13: 4(h)(10)(C) Credits (\$ Million) for FY 2022 and FY 2023	27
Table 14: Augmentation Power Purchases for FY 2022 and FY 2023	28
Table 15: Firm Surplus Power Sale for FY 2022 and FY 2023	29
Table 16: <i>Table not used</i>	30
Table 17: <i>Table not used</i>	30
Table 18: Monthly Secondary Energy Sales and Revenues for FY 2022 and FY 2023	31
Table 19: Monthly Power Purchases and Expenses for FY 2022 and FY 2023	32
Table 20: Annual Secondary Energy Sales/Revenues and Power Purchases/Expenses for FY 2022 and FY 2023	33
Table 21: Power Net Revenue to Cash Adjustments.....	34
Table 22: Transmission Net Revenue to Cash Adjustments	35
Figure 1: Simulated Total PS Wind Generation for FY 2022-2023	36
Figure 2: PS Transmission & Ancillary Services Expenses by Amount of Surplus Energy Sales for FY 2022	37
Figure 3: PS Transmission & Ancillary Services Expenses by Amount of Surplus Energy Sales for FY 2023	38
Figure 4: PS Transmission and Ancillary Service Expense Distribution for FY 2022	39
Figure 5: PS Transmission and Ancillary Service Expense Distribution for FY 2023	40
Figure 6: 4(h)(10)(C) Credits Distribution for FY 2022.....	41
Figure 7: 4(h)(10)(C) Credits Distribution for FY 2023.....	42

Figure 8: P-NORM Output Summary Distributions43
Figure 9: Power Services End of Year Financial Reserves44
Figure 10: Power Services ToolKit Inputs.....45
Figure 11: T-NORM Output Summary Distributions.....46
Figure 12: Transmission Services End of Year Financial Reserves47
Figure 13: Transmission Services ToolKit Inputs48

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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	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Table 1:													
2	Federal Hydro Generation (aMW) with Hydro Independents													
3	for FY 2022													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
5	1929	5,815	7,116	7,071	7,026	6,798	6,348	4,649	5,511	8,502	6,112	6,641	6,391	6,494
6	1930	5,327	7,099	6,750	6,652	6,576	5,867	4,664	6,501	6,688	7,308	6,845	6,296	6,382
7	1931	5,342	7,232	7,129	6,107	6,693	6,447	4,730	6,332	6,602	7,325	6,971	6,099	6,418
8	1932	5,258	6,745	7,009	7,001	5,362	8,952	9,048	10,392	11,320	8,687	7,567	6,290	7,816
9	1933	5,689	6,966	9,085	10,900	11,420	8,813	6,493	8,931	13,219	12,111	9,802	6,474	9,149
10	1934	6,479	10,564	13,862	14,922	14,042	11,114	10,961	10,516	9,661	6,592	6,691	5,891	10,085
11	1935	5,311	6,307	7,777	10,278	11,221	8,057	5,718	8,456	8,385	9,368	8,110	5,909	7,895
12	1936	5,569	7,034	7,031	6,386	5,587	6,994	6,645	11,348	10,179	8,463	6,899	6,040	7,361
13	1937	5,512	7,308	7,040	5,667	5,319	5,815	4,643	6,941	7,693	6,771	6,544	6,067	6,283
14	1938	5,563	7,425	8,195	10,886	8,389	10,107	9,250	9,937	10,113	9,509	6,430	6,255	8,508
15	1939	5,683	6,891	6,762	8,251	8,374	7,193	6,312	8,914	7,337	7,720	6,834	6,183	7,201
16	1940	5,491	7,233	7,109	8,983	8,029	9,141	6,940	8,089	7,292	6,637	6,234	5,854	7,251
17	1941	5,485	7,587	8,051	7,215	6,385	6,751	5,386	7,110	7,230	7,028	6,868	6,002	6,764
18	1942	5,540	7,693	10,211	10,473	9,281	6,458	5,649	6,934	10,479	9,906	7,732	6,344	8,054
19	1943	5,560	6,981	8,138	11,418	11,608	9,469	12,077	9,718	12,300	11,706	7,943	6,049	9,396
20	1944	5,358	7,154	6,841	6,870	7,554	5,844	4,119	5,805	6,365	6,423	6,600	5,882	6,228
21	1945	5,389	7,076	7,060	6,372	6,159	6,340	4,379	8,077	10,760	6,606	6,833	6,208	6,773
22	1946	5,293	7,048	8,217	9,885	8,922	9,637	9,914	10,567	10,351	10,234	8,762	6,321	8,765
23	1947	5,483	8,079	11,656	12,323	12,581	10,429	7,018	10,234	10,162	9,913	7,650	6,430	9,318
24	1948	8,455	9,522	9,727	12,415	12,162	8,008	8,101	13,022	13,274	9,863	9,998	6,692	10,094
25	1949	6,076	7,785	7,576	10,409	8,084	10,395	8,910	11,871	9,134	6,795	5,911	5,761	8,230
26	1950	5,275	6,988	8,199	12,720	11,087	11,204	9,265	9,231	12,564	13,550	9,852	6,448	9,696
27	1951	7,071	9,926	11,828	14,163	14,804	11,669	9,681	10,349	9,872	11,797	8,334	6,366	10,469
28	1952	8,182	8,626	9,860	11,772	11,890	9,109	10,336	12,498	10,040	10,009	7,595	6,010	9,652
29	1953	5,328	7,329	6,992	8,483	12,783	7,415	4,763	8,674	13,014	11,374	8,304	6,562	8,388
30	1954	5,781	7,847	9,158	11,988	12,193	9,661	7,235	10,634	11,933	13,132	11,524	8,470	9,956
31	1955	6,448	8,805	9,059	7,920	8,084	5,852	5,337	8,154	12,697	13,064	9,536	6,391	8,450
32	1956	6,138	9,344	11,686	14,474	13,432	11,196	11,313	12,251	12,916	11,422	9,324	6,310	10,805
33	1957	6,164	7,736	9,233	9,630	8,570	9,121	8,860	12,749	13,144	8,709	7,427	6,168	8,962
34	1958	5,399	7,176	7,681	10,749	10,853	8,530	6,931	11,720	11,804	8,164	7,350	6,253	8,537
35	1959	5,594	8,620	10,949	13,622	13,621	9,756	7,833	9,008	12,156	11,964	9,629	9,223	10,144
36	1960	10,253	10,736	10,727	10,836	10,543	8,479	9,609	9,015	10,567	9,621	7,771	6,182	9,523
37	1961	5,746	7,850	8,346	11,467	10,481	10,495	7,350	10,133	12,515	8,277	7,464	6,132	8,845
38	1962	5,101	7,355	8,351	9,729	11,354	6,588	8,365	9,286	10,381	8,199	8,017	6,317	8,230
39	1963	6,098	8,793	10,498	10,316	11,480	7,222	5,608	8,439	10,337	9,442	7,929	6,779	8,562
40	1964	5,668	7,164	8,276	8,301	9,724	6,438	6,372	9,068	13,245	12,612	9,545	7,319	8,637
41	1965	6,828	8,378	12,019	14,515	15,375	11,736	8,263	11,307	11,338	10,701	9,878	6,360	10,540
42	1966	6,042	7,232	8,558	9,374	10,685	7,390	7,178	7,808	9,409	9,166	7,489	6,148	8,024
43	1967	5,361	7,062	9,125	12,059	13,288	9,590	6,566	8,632	12,607	11,400	8,534	6,474	9,203
44	1968	5,908	8,250	8,705	11,346	10,731	10,374	4,836	8,032	10,519	9,731	8,721	7,847	8,743

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Table 1:													
2	Federal Hydro Generation (aMW) with Hydro Independents													
3	for FY 2022													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
45	1969	7,047	9,504	9,874	13,439	13,538	9,976	10,840	11,643	10,699	9,978	7,872	6,281	10,037
46	1970	5,663	7,781	7,729	9,987	11,670	7,775	5,017	9,031	12,745	7,398	7,143	6,258	8,157
47	1971	5,373	7,172	8,034	13,765	15,056	11,339	9,208	12,467	13,192	11,808	10,174	6,718	10,334
48	1972	6,164	8,032	9,108	14,040	12,711	13,710	10,135	11,782	12,993	11,981	10,518	6,927	10,670
49	1973	6,502	7,735	8,602	9,295	8,876	6,735	4,637	7,096	7,213	6,602	6,340	5,823	7,115
50	1974	5,196	7,562	10,076	15,832	14,850	12,929	11,204	11,245	12,995	13,551	10,630	6,886	11,063
51	1975	5,600	7,159	7,844	10,296	10,814	9,751	6,172	8,950	13,103	12,372	8,745	6,995	8,975
52	1976	7,115	9,822	12,973	13,420	13,558	10,958	9,601	12,002	10,807	11,809	12,537	9,025	11,130
53	1977	6,520	7,094	7,196	7,385	7,797	5,514	4,107	6,243	6,111	6,341	6,683	5,551	6,374
54	1978	5,028	6,826	8,707	9,601	8,374	9,437	7,779	9,635	10,048	10,501	7,235	7,623	8,403
55	1979	6,430	7,568	7,311	9,040	7,499	8,215	5,990	9,899	7,872	6,549	6,340	6,219	7,416
56	1980	5,594	7,044	6,530	8,913	6,877	6,721	6,998	11,805	11,238	8,243	6,581	6,189	7,733
57	1981	5,524	7,613	10,688	12,029	12,654	7,450	5,076	8,879	12,868	10,984	9,960	6,661	9,183
58	1982	5,667	8,023	8,882	11,990	14,062	13,480	8,409	10,412	12,806	13,074	10,170	7,761	10,376
59	1983	7,095	8,173	9,528	12,422	11,526	13,073	7,719	9,093	10,264	12,077	9,408	6,875	9,773
60	1984	6,063	10,143	9,774	11,970	11,531	10,902	8,642	9,390	12,981	11,537	8,538	6,928	9,855
61	1985	6,204	8,113	8,567	9,612	9,183	7,343	7,126	8,986	7,710	6,862	5,929	6,093	7,636
62	1986	6,274	8,752	8,829	10,437	11,809	13,555	9,324	8,826	10,614	8,020	6,982	6,026	9,103
63	1987	5,257	7,780	8,677	8,524	7,392	7,714	6,549	9,497	7,683	6,065	5,951	5,650	7,230
64	1988	5,123	7,180	6,767	6,178	6,397	6,365	5,377	6,745	7,452	7,672	6,661	6,137	6,505
65	1989	5,023	7,512	8,033	7,682	5,691	8,372	8,598	8,990	7,521	7,507	6,329	5,908	7,275
66	1990	5,449	7,613	9,417	10,583	11,832	9,273	7,820	8,212	11,054	10,683	8,512	6,078	8,861
67	1991	5,228	10,045	10,110	11,667	12,976	9,508	7,523	9,008	9,996	11,810	9,450	5,903	9,418
68	1992	5,625	7,374	6,682	8,053	7,539	7,506	5,453	8,082	6,821	6,237	6,469	5,883	6,809
69	1993	4,909	7,031	7,312	6,717	5,182	7,044	5,705	10,331	9,196	8,117	7,436	6,452	7,135
70	1994	5,348	7,300	7,369	6,598	7,030	6,460	5,847	7,813	7,060	7,042	6,348	6,124	6,693
71	1995	5,223	6,915	7,555	8,531	8,738	9,962	5,741	8,777	11,813	8,679	7,425	6,595	7,992
72	1996	6,830	11,049	15,004	15,355	15,143	13,617	10,062	10,390	12,399	11,992	8,654	6,380	11,391
73	1997	5,782	7,995	9,958	15,354	15,459	12,889	11,580	12,627	13,173	12,297	10,183	7,687	11,226
74	1998	9,064	9,107	8,563	9,557	11,330	8,296	5,743	10,913	11,774	10,049	8,780	6,394	9,122
75	1999	5,578	6,842	9,247	13,423	12,471	13,127	8,447	9,047	11,923	12,542	11,158	6,386	10,013
76	2000	5,550	9,929	10,559	11,018	10,317	9,583	9,315	9,072	7,289	9,289	7,275	5,835	8,747
77	2001	5,444	7,003	7,119	7,351	7,547	6,156	4,125	5,923	6,029	6,514	6,549	5,692	6,284
78	2002	4,851	6,620	7,847	7,306	6,991	7,036	7,848	8,682	11,670	10,911	7,377	6,042	7,768
79	2003	5,404	7,422	7,087	7,472	7,848	9,251	6,874	7,339	10,404	6,909	6,150	5,744	7,318
80	2004	5,132	7,847	8,649	8,599	7,919	7,004	6,206	7,137	8,577	7,129	6,444	6,185	7,231
81	2005	6,321	7,983	9,515	9,568	10,590	7,340	4,814	7,329	8,178	8,126	6,695	6,092	7,699
82	2006	4,957	8,045	8,610	11,564	13,038	8,748	9,931	11,390	11,192	8,611	6,530	5,790	9,004
83	2007	5,125	7,624	8,678	10,876	9,285	10,913	7,959	8,818	8,980	8,939	6,331	5,506	8,252
84	2008	5,146	7,650	7,360	9,249	8,099	7,853	5,298	9,877	13,025	10,166	7,556	6,246	8,128
85	80 WY Average	5,869	7,876	8,774	10,232	10,159	8,911	7,326	9,320	10,345	9,430	7,927	6,409	8,541
86	Hours	744	721	744	744	672	743	720	744	720	744	744	720	8,760

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Table 2:													
2	Federal Hydro Generation (aMW) with Hydro Independents													
3	for FY 2023													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
5	1929	5,817	7,117	7,073	7,028	6,800	6,328	4,687	5,448	8,539	6,113	6,642	6,392	6,494
6	1930	5,327	7,100	6,752	6,654	6,579	5,850	4,703	6,406	6,698	7,309	6,846	6,297	6,377
7	1931	5,343	7,233	7,130	6,207	6,579	6,409	4,761	6,242	6,600	7,324	6,972	6,100	6,410
8	1932	5,259	6,746	7,011	7,002	5,364	8,883	9,091	10,361	11,372	8,679	7,569	6,291	7,816
9	1933	5,690	6,967	9,086	11,069	11,391	8,802	6,480	8,947	13,366	12,113	9,804	6,475	9,174
10	1934	6,480	10,596	13,676	15,463	14,188	10,958	11,000	10,615	9,638	6,592	6,692	5,892	10,125
11	1935	5,312	6,308	7,778	10,372	11,125	8,007	5,760	8,371	8,452	9,354	8,111	5,910	7,892
12	1936	5,570	7,035	7,032	6,433	5,517	6,974	6,699	11,327	10,323	8,464	6,899	6,041	7,373
13	1937	5,513	7,309	7,041	5,771	5,314	5,792	4,677	6,763	7,700	6,772	6,545	6,068	6,278
14	1938	5,564	7,426	8,197	10,998	8,391	9,962	9,180	9,850	10,159	9,502	6,432	6,256	8,496
15	1939	5,684	6,892	6,764	8,253	8,377	7,165	6,368	8,865	7,403	7,720	6,835	6,184	7,205
16	1940	5,492	7,234	7,111	9,256	7,713	9,049	6,963	7,973	7,287	6,636	6,234	5,856	7,234
17	1941	5,487	7,588	8,053	7,217	6,574	6,562	5,445	7,015	7,238	7,029	6,869	6,003	6,760
18	1942	5,542	7,695	10,214	10,567	9,275	6,447	5,702	6,864	10,475	9,899	7,733	6,345	8,059
19	1943	5,561	6,982	8,140	11,498	11,500	9,415	12,009	9,667	12,331	11,707	7,945	6,051	9,384
20	1944	5,360	7,155	6,843	6,871	7,556	5,821	4,144	5,734	6,379	6,424	6,601	5,884	6,224
21	1945	5,390	7,078	7,061	6,480	6,130	6,226	4,417	7,986	10,856	6,609	6,834	6,210	6,775
22	1946	5,294	7,049	8,219	10,024	8,915	9,603	9,990	10,647	10,465	10,221	8,763	6,322	8,795
23	1947	5,484	8,081	11,642	12,438	12,568	10,351	7,072	10,164	10,227	9,923	7,652	6,432	9,325
24	1948	8,456	9,524	9,730	12,476	12,079	7,985	8,110	13,219	14,302	9,852	9,997	6,694	10,193
25	1949	6,077	7,787	7,578	10,532	8,086	10,243	8,999	11,795	9,162	6,794	5,912	5,763	8,232
26	1950	5,276	6,989	8,201	12,803	10,986	11,075	9,303	9,165	12,622	13,769	9,851	6,449	9,706
27	1951	7,072	9,928	11,836	14,246	14,655	11,427	9,748	10,376	9,978	11,721	8,336	6,367	10,456
28	1952	8,184	8,628	9,862	11,845	11,828	9,060	10,432	12,474	10,178	10,002	7,596	6,011	9,667
29	1953	5,329	7,331	6,994	8,554	12,622	7,386	4,806	8,571	13,715	11,313	8,305	6,563	8,427
30	1954	5,782	7,848	9,160	12,072	12,099	9,559	7,208	10,633	12,104	13,251	11,532	8,471	9,971
31	1955	6,449	8,806	9,061	7,922	8,086	5,845	5,389	8,061	12,915	13,279	9,350	6,392	8,467
32	1956	6,139	9,345	11,686	14,565	13,246	11,046	11,413	12,623	13,808	11,374	9,326	6,312	10,895
33	1957	6,165	7,738	9,235	9,632	9,293	8,780	8,493	12,870	13,379	8,702	7,428	6,169	8,988
34	1958	5,400	7,177	7,683	10,801	10,747	8,483	6,930	11,640	11,859	8,163	7,351	6,255	8,528
35	1959	5,595	8,622	10,952	13,713	13,592	9,698	7,847	8,897	12,304	11,951	9,630	9,220	10,147
36	1960	10,255	10,764	10,729	10,995	10,455	8,447	9,703	8,937	10,664	9,619	7,772	6,183	9,539
37	1961	5,747	7,851	8,347	11,542	10,375	10,326	7,403	10,009	13,341	8,269	7,465	6,134	8,891
38	1962	5,102	7,356	8,353	9,853	11,264	6,550	8,403	9,253	10,608	8,199	8,018	6,319	8,250
39	1963	6,099	8,795	10,503	10,318	11,386	7,169	5,642	8,334	10,330	9,434	7,931	6,781	8,544
40	1964	5,670	7,166	8,278	8,303	9,726	6,418	6,456	8,976	14,045	12,621	9,546	7,321	8,702
41	1965	6,829	8,379	12,017	14,548	15,284	11,486	8,225	11,230	11,389	10,696	9,880	6,359	10,509
42	1966	6,044	7,233	8,560	9,377	10,649	7,358	7,247	7,732	9,524	9,167	7,490	6,149	8,028
43	1967	5,362	7,063	9,127	12,035	13,251	9,608	6,617	8,585	12,945	11,380	8,535	6,476	9,226
44	1968	5,909	8,252	8,707	11,422	10,625	10,277	4,866	7,948	10,550	9,715	8,723	7,845	8,730

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Table 2:													
2	Federal Hydro Generation (aMW) with Hydro Independents													
3	for FY 2023													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
45	1969	7,048	9,506	9,878	13,534	13,481	9,823	10,913	11,553	10,758	9,995	7,873	6,282	10,033
46	1970	5,664	7,783	7,731	9,974	11,570	7,737	5,035	8,932	12,747	7,401	7,145	6,260	8,139
47	1971	5,375	7,174	8,037	13,801	14,951	11,199	9,235	12,517	14,077	11,863	10,176	6,720	10,402
48	1972	6,166	8,034	9,110	14,104	12,657	13,568	10,209	12,078	14,213	11,961	10,519	6,929	10,790
49	1973	6,503	7,736	8,605	9,297	8,878	6,700	4,669	7,003	7,255	6,602	6,341	5,824	7,112
50	1974	5,197	7,564	10,081	16,547	15,261	12,654	11,205	11,612	13,925	13,786	10,632	6,888	11,261
51	1975	5,601	7,161	7,846	10,314	10,765	9,653	6,163	8,766	13,312	12,416	8,746	6,996	8,970
52	1976	7,117	9,824	12,939	13,478	13,391	10,931	9,681	11,921	10,925	11,787	12,541	9,027	11,125
53	1977	6,521	7,095	7,198	7,387	7,799	5,494	4,134	6,158	6,112	6,342	6,683	5,552	6,368
54	1978	5,029	6,827	8,711	9,742	8,367	9,418	7,851	9,610	10,011	10,469	7,236	7,625	8,412
55	1979	6,431	7,569	7,312	9,064	7,455	8,215	6,053	9,784	7,888	6,550	6,341	6,220	7,412
56	1980	5,595	7,045	6,531	8,916	6,879	6,697	7,054	11,720	11,424	8,239	6,582	6,191	7,744
57	1981	5,525	7,614	10,691	11,982	12,560	7,372	5,100	8,733	13,268	10,974	9,961	6,662	9,187
58	1982	5,668	8,024	8,885	12,034	13,902	13,104	8,357	10,402	12,744	12,981	10,172	7,762	10,319
59	1983	7,097	8,175	9,531	12,350	11,424	12,671	7,724	9,049	10,351	12,065	9,410	6,877	9,728
60	1984	6,065	10,145	9,776	12,026	11,437	10,709	8,670	9,311	13,160	11,506	8,540	6,930	9,845
61	1985	6,205	8,116	8,569	9,765	9,185	7,321	7,205	8,985	7,767	6,867	5,930	6,095	7,659
62	1986	6,276	8,754	8,831	10,882	12,225	12,439	9,386	8,735	10,677	8,012	6,983	6,027	9,081
63	1987	5,259	7,781	8,679	8,526	7,366	7,707	6,586	9,436	7,678	6,066	5,952	5,651	7,226
64	1988	5,124	7,181	6,768	6,257	6,313	6,338	5,404	6,647	7,441	7,671	6,661	6,138	6,496
65	1989	5,023	7,513	8,035	7,806	5,693	8,343	8,605	8,933	7,538	7,509	6,329	5,910	7,281
66	1990	5,450	7,614	9,419	10,598	11,787	9,212	7,850	8,090	10,971	10,646	8,513	6,079	8,836
67	1991	5,229	10,047	10,114	11,764	12,924	9,581	7,472	8,901	10,000	11,645	9,451	5,904	9,402
68	1992	5,626	7,376	6,684	8,054	7,541	7,487	5,512	7,993	6,822	6,238	6,469	5,884	6,806
69	1993	4,910	7,033	7,314	6,755	5,182	6,996	5,708	10,277	9,277	8,065	7,437	6,453	7,133
70	1994	5,349	7,302	7,371	6,700	6,913	6,440	5,881	7,723	7,072	7,042	6,348	6,125	6,688
71	1995	5,224	6,917	7,556	8,534	8,736	9,848	5,781	8,674	11,795	8,680	7,426	6,596	7,976
72	1996	6,832	11,083	14,882	15,670	15,145	13,156	10,109	10,354	12,312	11,969	8,655	6,382	11,363
73	1997	5,783	7,996	9,960	15,293	15,614	12,743	11,604	13,245	14,336	12,253	10,185	7,689	11,367
74	1998	9,066	9,109	8,565	9,965	10,770	8,238	5,755	10,823	11,830	10,029	8,781	6,395	9,106
75	1999	5,579	6,844	9,249	13,482	12,385	12,841	8,459	9,006	12,066	12,493	11,164	6,387	9,993
76	2000	5,551	9,931	10,562	11,138	10,252	9,550	9,382	8,993	7,279	9,284	7,276	5,837	8,748
77	2001	5,445	7,004	7,120	7,353	7,549	6,137	4,158	5,852	6,034	6,515	6,550	5,693	6,280
78	2002	4,852	6,621	7,849	7,433	6,993	7,000	7,866	8,593	11,709	10,880	7,379	6,043	7,771
79	2003	5,405	7,423	7,088	7,572	7,735	9,233	6,942	7,274	10,536	6,909	6,151	5,745	7,327
80	2004	5,133	7,849	8,650	8,601	7,921	6,959	6,239	7,049	8,528	7,129	6,446	6,187	7,219
81	2005	6,322	7,985	9,518	9,570	10,544	7,292	4,841	7,246	8,197	8,125	6,696	6,094	7,689
82	2006	4,958	8,047	8,611	11,590	12,944	8,706	9,954	11,308	11,249	8,607	6,531	5,791	8,995
83	2007	5,126	7,626	8,680	10,925	9,288	10,723	8,039	8,792	9,033	8,932	6,332	5,508	8,249
84	2008	5,148	7,651	7,362	9,375	8,101	7,832	5,341	9,766	13,184	10,150	7,558	6,247	8,144
85	80 WY Average	5,870	7,878	8,771	10,316	10,126	8,811	7,357	9,280	10,509	9,429	7,926	6,411	8,550
86	Hours	744	721	744	744	672	743	720	744	720	744	744	720	8760

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Table 3:													
2	Heavy-Load Hydro Generation													
3	for FY 2022													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
5	1929	7,139	8,351	7,952	8,861	8,015	7,222	5,247	7,090	10,570	7,576	7,957	7,714	7,778
6	1930	6,461	8,358	7,606	8,348	7,577	6,672	5,241	8,658	8,410	9,593	8,250	7,614	7,694
7	1931	6,471	8,482	8,036	7,606	7,893	7,397	5,296	8,459	8,391	9,679	8,498	7,380	7,766
8	1932	6,381	7,909	7,890	8,774	6,091	10,014	10,453	12,993	12,302	11,335	9,218	7,566	9,229
9	1933	6,986	8,051	10,449	14,103	12,949	10,351	7,499	11,047	13,651	13,240	11,658	7,778	10,597
10	1934	8,074	12,394	14,166	16,412	14,517	12,733	11,924	11,720	10,490	8,535	8,180	7,149	11,296
11	1935	6,469	7,345	8,841	13,362	12,651	9,533	6,694	10,665	10,147	12,148	9,766	7,072	9,498
12	1936	6,813	8,292	7,911	7,963	6,469	7,847	7,632	13,687	11,078	11,092	8,323	7,249	8,663
13	1937	6,719	8,591	7,914	7,000	6,113	6,642	5,230	9,097	9,731	8,818	7,878	7,313	7,561
14	1938	6,813	8,636	9,266	14,156	9,923	11,739	10,258	12,164	11,948	12,323	7,769	7,492	10,161
15	1939	6,946	8,119	7,589	10,543	10,024	8,131	7,415	11,571	9,286	10,145	8,262	7,434	8,736
16	1940	6,668	8,453	7,953	11,552	9,521	10,437	8,212	10,886	9,203	8,656	7,481	6,952	8,791
17	1941	6,678	8,818	9,087	9,062	7,406	7,694	6,298	9,593	9,089	9,107	8,237	7,059	8,145
18	1942	6,712	8,947	11,845	13,568	11,097	7,291	6,554	9,214	11,488	12,732	9,206	7,525	9,620
19	1943	6,798	8,041	9,129	14,642	13,543	10,810	13,613	12,029	13,433	13,978	9,595	7,244	11,012
20	1944	6,486	8,379	7,628	8,643	8,954	6,683	4,556	7,656	7,910	8,217	7,899	7,013	7,459
21	1945	6,523	8,319	7,897	7,943	7,152	7,213	4,952	10,538	12,028	8,258	8,212	7,427	8,009
22	1946	6,377	8,206	9,240	12,524	10,472	11,070	11,047	12,444	11,234	12,852	10,742	7,538	10,275
23	1947	6,626	9,316	13,364	14,909	14,498	11,986	8,226	13,164	11,233	12,600	9,328	7,694	11,010
24	1948	10,469	11,090	11,205	15,582	13,964	9,245	9,289	14,696	13,295	12,670	11,922	7,994	11,715
25	1949	7,514	9,089	8,538	13,033	9,616	12,031	10,163	14,659	10,877	8,733	6,983	6,892	9,801
26	1950	6,389	8,145	9,244	15,238	13,211	12,898	10,330	11,821	13,191	13,949	11,716	7,706	11,108
27	1951	8,627	11,528	13,253	16,300	15,874	13,059	10,783	12,496	11,402	13,285	10,154	7,575	11,958
28	1952	10,045	10,061	11,402	14,914	13,720	10,434	11,772	14,657	11,774	12,786	9,230	7,223	11,432
29	1953	6,423	8,588	7,855	10,611	14,661	8,511	5,442	11,452	13,194	13,762	10,033	7,861	9,789
30	1954	7,105	9,124	10,517	14,865	13,855	11,191	8,217	12,410	12,063	13,568	12,622	10,030	11,237
31	1955	7,991	10,375	10,392	10,117	9,739	6,726	6,121	10,931	13,110	13,799	11,210	7,629	9,796
32	1956	7,593	10,874	13,357	16,617	15,023	12,567	12,027	13,548	13,096	13,258	11,228	7,502	12,162
33	1957	7,592	9,031	10,585	12,391	10,132	10,171	9,936	14,898	13,434	11,377	9,071	7,407	10,456
34	1958	6,495	8,423	8,597	13,646	13,092	9,903	8,065	14,602	12,565	10,715	8,994	7,533	10,150
35	1959	6,818	9,975	12,706	16,108	14,807	11,165	9,008	11,264	12,694	13,393	11,650	10,860	11,634
36	1960	12,612	12,596	12,305	13,945	12,408	9,869	11,180	11,464	11,807	12,326	9,513	7,431	11,398
37	1961	7,062	9,127	9,456	14,082	12,659	12,281	8,637	11,900	12,511	10,854	9,160	7,408	10,377
38	1962	6,151	8,592	9,499	12,529	13,175	7,435	9,566	11,479	11,758	10,723	9,776	7,621	9,792
39	1963	7,439	10,251	12,260	13,327	13,433	8,290	6,551	11,170	11,807	12,228	9,590	8,080	10,296
40	1964	6,907	8,319	9,366	10,720	11,574	7,261	7,414	11,470	13,586	13,865	11,477	8,677	9,997
41	1965	8,474	9,835	13,615	16,928	16,261	13,140	9,516	13,091	12,888	13,395	11,791	7,494	12,139
42	1966	7,374	8,485	9,640	12,160	12,516	8,582	8,544	10,520	10,633	11,908	9,151	7,387	9,680
43	1967	6,486	8,227	10,487	14,871	14,472	11,123	7,509	10,962	12,830	13,282	10,410	7,784	10,639
44	1968	7,202	9,627	9,861	14,163	12,942	11,980	5,434	10,695	11,567	12,440	10,434	9,226	10,407

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Table 3:													
2	Heavy-Load Hydro Generation													
3	for FY 2022													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
45	1969	8,682	11,094	11,382	16,315	14,814	11,336	11,700	14,158	11,769	12,587	9,638	7,616	11,682
46	1970	6,915	9,123	8,745	12,731	13,523	8,902	5,582	11,943	13,599	9,215	8,590	7,423	9,622
47	1971	6,417	8,299	9,015	16,517	15,853	13,003	10,382	14,539	13,485	13,679	11,934	8,041	11,696
48	1972	7,477	9,292	10,336	16,481	14,970	14,071	11,271	12,953	13,008	13,412	12,233	8,246	11,927
49	1973	7,895	9,009	9,755	12,040	10,630	7,747	5,242	9,541	9,024	8,493	7,634	6,937	8,606
50	1974	6,225	8,631	11,554	17,294	15,328	14,123	12,457	12,504	13,204	13,952	12,300	8,274	12,101
51	1975	6,812	8,387	8,834	13,348	12,783	11,337	7,080	11,586	13,957	14,171	10,495	8,295	10,535
52	1976	8,633	11,531	14,005	16,187	14,934	12,456	10,776	14,205	12,237	13,314	13,147	10,665	12,611
53	1977	7,973	8,292	8,029	9,305	9,273	6,273	4,538	8,328	7,763	8,220	8,071	6,558	7,673
54	1978	6,050	7,944	9,740	12,115	9,719	10,846	9,228	11,563	11,944	13,274	8,728	9,054	9,973
55	1979	7,951	8,888	8,258	11,623	8,909	9,475	7,128	12,826	9,898	8,404	7,605	7,488	8,993
56	1980	6,838	8,263	7,293	11,420	7,931	7,636	8,254	13,792	12,300	10,773	7,944	7,366	9,101
57	1981	6,721	8,889	12,333	14,406	14,006	8,643	5,893	11,657	12,948	13,033	11,746	8,024	10,624
58	1982	6,953	9,421	10,119	14,774	15,814	14,576	9,507	12,761	14,070	14,319	12,061	9,195	11,907
59	1983	8,670	9,558	10,976	15,068	13,671	14,153	8,629	11,701	11,973	13,696	11,326	8,186	11,421
60	1984	7,334	11,894	11,245	15,304	13,388	12,343	10,071	12,210	14,246	13,839	10,328	8,171	11,637
61	1985	7,497	9,325	9,666	12,201	10,973	8,419	8,264	11,546	9,290	8,966	7,083	7,118	9,135
62	1986	7,669	10,172	9,975	13,332	13,229	14,558	10,986	11,721	11,926	10,490	8,457	7,120	10,760
63	1987	6,299	8,996	9,755	10,940	8,766	8,998	7,867	11,494	9,538	7,734	7,099	6,709	8,642
64	1988	6,154	8,400	7,588	7,713	7,482	7,254	6,292	9,087	9,472	10,170	8,080	7,417	7,891
65	1989	6,042	8,758	9,020	9,638	6,549	9,410	9,784	11,433	9,315	9,881	7,560	7,028	8,675
66	1990	6,612	8,885	10,802	13,518	13,423	10,800	9,181	10,707	11,904	12,814	10,236	7,254	10,456
67	1991	6,335	11,786	11,703	14,690	14,041	11,054	8,503	11,288	11,293	13,216	11,289	6,991	10,952
68	1992	6,881	8,573	7,440	10,203	8,907	8,709	6,447	10,738	8,676	7,954	7,735	7,026	8,233
69	1993	5,887	8,289	8,281	8,423	5,952	7,996	6,613	13,422	11,186	10,316	8,758	7,652	8,535
70	1994	6,486	8,603	8,297	8,305	8,289	7,364	6,995	10,508	8,982	9,163	7,629	7,388	8,126
71	1995	6,331	8,128	8,499	10,842	10,098	11,688	6,648	11,622	12,819	11,042	8,940	7,853	9,507
72	1996	8,437	12,851	14,872	17,042	16,080	14,465	11,332	12,694	13,759	13,474	10,493	7,618	12,695
73	1997	7,091	9,254	11,527	17,520	15,830	14,013	12,387	13,714	13,187	13,657	11,907	9,106	12,370
74	1998	11,226	10,691	9,648	12,366	13,129	9,615	6,748	13,990	12,953	12,870	10,530	7,542	10,878
75	1999	6,724	7,913	10,585	15,951	14,623	14,311	9,370	11,669	13,277	13,684	12,508	7,618	11,477
76	2000	6,759	11,697	12,251	14,065	12,443	11,144	10,429	11,453	8,862	12,006	8,863	6,956	10,516
77	2001	6,571	8,219	7,958	9,227	8,992	7,006	4,604	7,813	7,603	8,433	7,873	6,803	7,549
78	2002	5,751	7,782	8,811	9,071	8,051	7,970	9,029	10,942	12,470	13,102	8,804	7,242	9,049
79	2003	6,565	8,734	7,985	9,399	9,310	10,797	8,108	9,809	11,694	8,968	7,320	6,859	8,766
80	2004	6,199	9,191	9,786	10,970	9,378	7,998	7,426	9,536	10,563	9,221	7,587	7,240	8,711
81	2005	7,821	9,379	11,002	12,379	12,185	8,523	5,487	9,612	10,096	10,633	8,036	7,240	9,302
82	2006	5,953	9,436	9,704	14,823	14,492	10,124	11,096	14,296	12,098	11,285	7,928	6,885	10,596
83	2007	6,158	8,777	9,846	13,705	11,285	12,661	9,476	11,474	10,440	11,708	7,595	6,500	9,921
84	2008	6,199	8,936	8,256	11,863	9,609	9,039	6,059	12,750	13,511	13,012	9,168	7,484	9,604
85	80 WY Average	7,151	9,196	9,910	12,690	11,633	10,127	8,359	11,656	11,526	11,517	9,473	7,646	10,021
86	Hours	416	400	416	400	384	432	416	400	416	400	432	400	4928

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Table 3a:													
2	Light-Load Hydro Generation													
3	for FY 2022													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
5	1929	4,137	5,577	5,954	4,892	5,176	5,134	3,830	3,674	5,673	4,410	4,819	4,736	4,813
6	1930	3,887	5,531	5,664	4,681	5,242	4,748	3,875	3,993	4,331	4,650	4,900	4,649	4,665
7	1931	3,910	5,675	5,978	4,363	5,092	5,128	3,954	3,860	4,153	4,586	4,857	4,498	4,656
8	1932	3,834	5,295	5,892	4,938	4,390	7,476	7,125	7,367	9,975	5,608	5,282	4,694	5,962
9	1933	4,044	5,614	7,355	7,175	9,382	6,675	5,116	6,471	12,627	10,799	7,233	4,843	7,243
10	1934	4,457	8,284	13,476	13,191	13,408	8,866	9,645	9,115	8,526	4,333	4,630	4,319	8,474
11	1935	3,842	5,013	6,426	6,691	9,315	6,008	4,384	5,886	5,973	6,135	5,816	4,456	5,797
12	1936	3,991	5,467	5,915	4,552	4,410	5,809	5,293	8,629	8,949	5,406	4,926	4,529	5,651
13	1937	3,982	5,710	5,931	4,116	4,260	4,665	3,840	4,434	4,903	4,390	4,696	4,510	4,611
14	1938	3,977	5,917	6,838	7,083	6,343	7,841	7,871	7,347	7,601	6,237	4,577	4,709	6,343
15	1939	4,082	5,359	5,712	5,586	6,174	5,889	4,801	5,824	4,670	4,902	4,858	4,619	5,194
16	1940	3,998	5,712	6,040	5,996	6,041	7,340	5,200	4,838	4,677	4,289	4,506	4,483	5,237
17	1941	3,973	6,053	6,738	5,068	5,024	5,442	4,139	4,223	4,687	4,610	4,972	4,681	4,956
18	1942	4,055	6,131	8,138	6,873	6,860	5,300	4,410	4,283	9,099	6,619	5,692	4,867	6,003
19	1943	3,990	5,660	6,881	7,670	9,027	7,607	9,975	7,031	10,750	9,064	5,657	4,555	7,274
20	1944	3,929	5,628	5,844	4,808	5,688	4,679	3,520	3,654	4,250	4,338	4,802	4,469	4,616
21	1945	3,951	5,528	5,997	4,544	4,835	5,128	3,595	5,216	9,026	4,685	4,923	4,685	5,152
22	1946	3,919	5,604	6,919	6,816	6,856	7,647	8,363	8,384	9,142	7,191	6,021	4,799	6,780
23	1947	4,032	6,536	9,490	9,317	10,025	8,266	5,365	6,826	8,697	6,790	5,328	4,851	7,098
24	1948	5,900	7,569	7,853	8,733	9,758	6,290	6,475	11,075	13,244	6,601	7,333	5,065	7,960
25	1949	4,252	6,161	6,357	7,358	6,041	8,122	7,195	8,629	6,749	4,542	4,427	4,347	6,171
26	1950	3,862	5,545	6,874	9,793	8,254	8,851	7,809	6,219	11,707	13,086	7,270	4,875	7,832
27	1951	5,097	7,929	10,021	11,677	13,378	9,737	8,174	7,853	7,778	10,066	5,815	4,854	8,502
28	1952	5,819	6,837	7,903	8,119	9,451	7,268	8,370	9,989	7,668	6,781	5,331	4,493	7,317
29	1953	3,939	5,762	5,898	6,008	10,279	5,893	3,834	5,444	12,766	8,598	5,909	4,938	6,545
30	1954	4,101	6,255	7,433	8,643	9,977	7,536	5,892	8,570	11,755	12,624	10,005	6,519	8,258
31	1955	4,490	6,849	7,370	5,365	5,878	4,638	4,263	4,926	12,133	12,209	7,219	4,843	6,678
32	1956	4,293	7,438	9,567	11,982	11,311	9,292	10,337	10,742	12,670	9,288	6,688	4,820	9,003
33	1957	4,354	6,123	7,518	6,419	6,486	7,663	7,387	10,251	12,747	5,608	5,152	4,619	6,997
34	1958	4,009	5,622	6,518	7,381	7,867	6,622	5,379	8,368	10,764	5,198	5,073	4,654	6,423
35	1959	4,040	6,932	8,720	10,731	12,039	7,799	6,226	6,384	11,420	10,302	6,829	7,177	8,176
36	1960	7,261	8,419	8,724	7,222	8,056	6,547	7,459	6,167	8,870	6,477	5,359	4,620	7,067
37	1961	4,078	6,258	6,938	8,427	7,577	8,016	5,589	8,079	12,520	5,280	5,117	4,538	6,832
38	1962	3,769	5,813	6,895	6,474	8,927	5,412	6,722	6,737	8,497	5,263	5,581	4,688	6,183
39	1963	4,397	6,976	8,264	6,814	8,876	5,739	4,317	5,264	8,327	6,202	5,630	5,153	6,294
40	1964	4,098	5,726	6,895	5,490	7,257	5,294	4,945	6,274	12,778	11,155	6,869	5,622	6,845
41	1965	4,740	6,561	9,994	11,709	14,193	9,786	6,549	9,233	9,217	7,569	7,230	4,941	8,430
42	1966	4,354	5,670	7,185	6,136	8,245	5,734	5,309	4,655	7,734	5,978	5,188	4,599	5,858
43	1967	3,934	5,609	7,397	8,789	11,709	7,460	5,276	5,922	12,303	9,212	5,936	4,837	7,309
44	1968	4,268	6,534	7,239	8,070	7,783	8,142	4,017	4,936	9,085	6,581	6,350	6,124	6,563

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Table 3a:													
2	Light-Load Hydro Generation													
3	for FY 2022													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
45	1969	4,972	7,523	7,961	10,094	11,836	8,088	9,663	8,720	9,235	6,944	5,428	4,612	7,872
46	1970	4,075	6,109	6,440	6,796	9,199	6,211	4,245	5,645	11,578	5,285	5,140	4,802	6,234
47	1971	4,049	5,768	6,791	10,565	13,992	9,027	7,601	10,059	12,791	9,632	7,738	5,064	8,529
48	1972	4,499	6,463	7,551	11,202	9,698	13,210	8,580	10,422	12,973	10,318	8,142	5,278	8,998
49	1973	4,736	6,146	7,140	6,102	6,537	5,330	3,808	4,253	4,735	4,403	4,547	4,431	5,166
50	1974	3,890	6,229	8,202	14,131	14,212	11,270	9,489	9,781	12,709	13,086	8,317	5,152	9,669
51	1975	4,063	5,630	6,587	6,748	8,189	7,548	4,931	5,885	11,934	10,281	6,322	5,368	6,926
52	1976	5,189	7,692	11,664	10,203	11,723	8,877	7,992	9,440	8,850	10,059	11,691	6,975	9,168
53	1977	4,677	5,601	6,139	5,153	5,830	4,459	3,516	3,817	3,851	4,156	4,761	4,291	4,675
54	1978	3,731	5,432	7,396	6,676	6,580	7,480	5,797	7,393	7,453	7,276	5,166	5,834	6,344
55	1979	4,500	5,923	6,109	6,036	5,620	6,465	4,432	6,496	5,099	4,392	4,588	4,632	5,354
56	1980	4,016	5,524	5,561	5,999	5,472	5,451	5,281	9,495	9,785	5,301	4,693	4,718	5,937
57	1981	4,006	6,022	8,602	9,264	10,852	5,793	3,958	5,648	12,758	8,602	7,486	4,957	7,284
58	1982	4,036	6,280	7,314	8,752	11,726	11,958	6,907	7,680	11,075	11,627	7,553	5,968	8,356
59	1983	5,098	6,447	7,692	9,346	8,666	11,573	6,473	6,060	7,927	10,194	6,754	5,236	7,605
60	1984	4,451	7,961	7,908	8,094	9,055	8,899	6,685	6,110	11,251	8,860	6,060	5,374	7,516
61	1985	4,564	6,604	7,172	6,602	6,795	5,847	5,569	6,010	5,548	4,416	4,333	4,812	5,673
62	1986	4,506	6,982	7,376	7,071	9,916	12,161	7,049	5,460	8,819	5,147	4,941	4,658	6,928
63	1987	3,937	6,264	7,310	5,714	5,561	5,930	4,744	7,176	5,145	4,126	4,362	4,326	5,381
64	1988	3,817	5,659	5,724	4,392	4,951	5,131	4,124	4,022	4,689	4,766	4,695	4,538	4,693
65	1989	3,730	5,960	6,781	5,408	4,546	6,931	6,976	6,150	5,065	4,747	4,623	4,509	5,441
66	1990	3,974	6,028	7,661	7,171	9,711	7,152	5,957	5,311	9,891	8,206	6,125	4,608	6,767
67	1991	3,823	7,875	8,091	8,152	11,556	7,359	6,182	6,358	8,221	10,176	6,904	4,544	7,399
68	1992	4,033	5,881	5,722	5,552	5,715	5,835	4,092	4,992	4,281	4,240	4,715	4,454	4,947
69	1993	3,668	5,464	6,084	4,732	4,155	5,722	4,462	6,736	6,472	5,561	5,606	4,951	5,302
70	1994	3,903	5,677	6,192	4,613	5,350	5,204	4,276	4,679	4,430	4,576	4,574	4,543	4,821
71	1995	3,818	5,404	6,357	5,845	6,925	7,563	4,500	5,470	10,435	5,932	5,328	5,022	6,007
72	1996	4,793	8,804	15,170	13,394	13,894	12,439	8,324	7,711	10,537	10,269	6,106	4,834	9,653
73	1997	4,121	6,425	7,967	12,835	14,965	11,327	10,477	11,363	13,155	10,715	7,797	5,913	9,694
74	1998	6,323	7,133	7,187	6,292	8,930	6,464	4,367	7,335	10,161	6,769	6,356	4,959	6,822
75	1999	4,124	5,508	7,550	10,483	9,600	11,484	7,183	5,998	10,071	11,214	9,289	4,846	8,080
76	2000	4,017	7,726	8,414	7,475	7,483	7,414	7,791	6,303	5,137	6,130	5,076	4,434	6,431
77	2001	4,014	5,487	6,054	5,170	5,620	4,974	3,468	3,725	3,874	4,283	4,716	4,303	4,627
78	2002	3,710	5,172	6,625	5,254	5,578	5,737	6,231	6,055	10,576	8,363	5,402	4,543	6,083
79	2003	3,932	5,786	5,948	5,231	5,898	7,103	5,186	4,467	8,639	4,514	4,529	4,351	5,421
80	2004	3,779	6,174	7,207	5,843	5,974	5,623	4,538	4,347	5,858	4,696	4,862	4,866	5,293
81	2005	4,419	6,244	7,628	6,299	8,464	5,698	3,892	4,674	5,554	5,211	4,839	4,658	5,603
82	2006	3,694	6,312	7,222	7,774	11,100	6,835	8,337	8,010	9,954	5,502	4,594	4,421	6,914
83	2007	3,816	6,187	7,196	7,587	6,619	8,485	5,882	5,728	6,983	5,720	4,581	4,265	6,068
84	2008	3,812	6,046	6,224	6,210	6,085	6,206	4,256	6,536	12,359	6,857	5,325	4,698	6,191
85	80 WY Average	4,242	6,230	7,333	7,374	8,193	7,222	5,913	6,604	8,729	7,003	5,786	4,863	6,595
86	Hours	328	321	328	344	288	311	304	344	304	344	312	320	3856

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Table 4:													
2	Heavy-Load Hydro Generation													
3	for FY 2023													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
5	1929	7,177	8,418	8,278	8,594	8,006	7,193	5,523	6,747	10,561	7,582	7,953	7,728	7,811
6	1930	6,497	8,427	7,910	8,076	7,585	6,649	5,474	8,255	8,334	9,591	8,247	7,625	7,711
7	1931	6,505	8,546	8,366	7,487	7,744	7,360	5,535	8,037	8,246	9,682	8,491	7,384	7,776
8	1932	6,412	7,975	8,211	8,500	6,104	9,912	10,862	12,485	12,749	11,340	9,215	7,575	9,296
9	1933	7,021	8,097	10,779	13,970	13,145	10,320	7,747	10,862	14,157	13,542	11,706	7,785	10,746
10	1934	8,136	12,501	14,793	16,763	15,019	12,599	12,467	11,743	10,843	8,541	8,168	7,158	11,534
11	1935	6,503	7,382	9,177	13,121	12,853	9,460	6,991	10,357	10,194	12,240	9,785	7,076	9,567
12	1936	6,849	8,362	8,239	7,772	6,357	7,804	7,983	13,495	11,623	11,111	8,318	7,259	8,762
13	1937	6,751	8,662	8,241	6,901	6,123	6,622	5,473	8,595	9,698	8,816	7,868	7,319	7,589
14	1938	6,845	8,705	9,620	13,930	9,923	11,508	10,606	11,743	12,010	12,344	7,762	7,502	10,196
15	1939	6,981	8,172	7,904	10,233	10,020	8,077	7,747	11,037	9,336	10,143	8,256	7,438	8,756
16	1940	6,701	8,522	8,273	11,566	9,105	10,317	8,518	10,331	9,247	8,655	7,472	6,957	8,797
17	1941	6,717	8,888	9,446	8,775	7,623	7,468	6,609	9,040	9,037	9,107	8,243	7,068	8,163
18	1942	6,753	8,995	12,232	13,307	11,083	7,266	6,843	8,812	11,893	12,759	9,210	7,535	9,696
19	1943	6,833	8,074	9,477	14,307	13,408	10,709	14,071	11,675	13,883	14,345	9,602	7,254	11,115
20	1944	6,516	8,427	7,944	8,364	8,954	6,656	4,759	7,276	7,795	8,215	7,890	7,019	7,468
21	1945	6,558	8,382	8,220	7,831	7,106	7,072	5,214	10,138	12,542	8,263	8,207	7,438	8,079
22	1946	6,408	8,253	9,581	12,310	10,469	10,988	11,540	12,335	11,738	13,086	10,727	7,548	10,413
23	1947	6,660	9,362	13,921	14,961	14,534	11,850	8,573	12,462	11,703	12,799	9,329	7,705	11,124
24	1948	10,547	11,120	11,533	15,531	13,901	9,196	9,626	14,687	14,339	12,696	11,972	7,998	11,899
25	1949	7,565	9,156	8,868	12,727	9,626	11,788	10,583	13,976	11,145	8,733	6,971	6,900	9,827
26	1950	6,419	8,193	9,617	15,104	13,090	12,671	10,761	11,213	13,563	14,327	11,742	7,718	11,194
27	1951	8,686	11,532	13,951	16,277	16,042	12,721	11,266	12,142	11,735	13,491	10,147	7,585	12,100
28	1952	10,099	10,105	11,726	14,794	13,653	10,340	12,345	14,384	12,148	12,901	9,251	7,232	11,551
29	1953	6,453	8,658	8,173	10,402	14,619	8,467	5,691	10,799	14,066	14,023	10,039	7,870	9,897
30	1954	7,140	9,194	10,829	14,857	13,978	11,035	8,484	12,243	12,553	13,829	12,709	10,050	11,384
31	1955	8,050	10,415	10,736	9,820	9,736	6,727	6,386	10,305	13,682	14,283	11,153	7,639	9,896
32	1956	7,637	10,899	13,945	16,744	14,869	12,312	12,681	13,909	14,218	13,532	11,234	7,513	12,437
33	1957	7,645	9,097	10,882	12,004	11,112	9,680	9,819	14,701	13,937	11,379	9,093	7,417	10,547
34	1958	6,524	8,474	8,927	13,305	12,953	9,836	8,338	13,935	12,937	10,720	9,018	7,544	10,177
35	1959	6,854	10,001	13,183	16,425	15,141	11,054	9,368	10,735	13,280	13,668	11,657	10,871	11,820
36	1960	12,659	12,695	12,911	13,786	12,314	9,798	11,672	11,025	12,236	12,507	9,500	7,439	11,529
37	1961	7,098	9,190	9,822	13,773	12,555	12,034	9,027	11,659	13,352	10,867	9,161	7,419	10,482
38	1962	6,183	8,635	9,859	12,289	13,104	7,382	9,958	11,161	12,322	10,726	9,778	7,634	9,887
39	1963	7,488	10,282	12,716	12,973	13,343	8,225	6,795	10,710	12,124	12,243	9,600	8,095	10,346
40	1964	6,944	8,356	9,727	10,410	11,582	7,236	7,747	11,002	14,750	14,173	11,505	8,674	10,155
41	1965	8,538	9,903	14,224	17,072	16,785	12,788	9,804	12,891	13,040	13,583	11,834	7,504	12,304
42	1966	7,423	8,540	10,032	11,796	12,492	8,539	8,891	9,967	11,060	11,916	9,164	7,397	9,742
43	1967	6,519	8,272	10,823	15,045	14,789	11,091	7,819	10,458	13,536	13,563	10,393	7,796	10,813
44	1968	7,247	9,681	10,229	13,800	12,827	11,823	5,701	10,124	11,964	12,513	10,446	9,226	10,444

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Table 4:													
2	Heavy-Load Hydro Generation													
3	for FY 2023													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
45	1969	8,739	11,112	11,732	16,532	15,000	11,123	12,317	13,560	12,219	12,849	9,645	7,629	11,834
46	1970	6,951	9,192	9,072	12,341	13,438	8,841	5,809	11,331	13,987	9,227	8,600	7,432	9,651
47	1971	6,447	8,340	9,352	16,303	16,230	12,760	10,754	14,363	14,565	14,123	11,982	8,055	11,909
48	1972	7,525	9,345	10,687	16,480	15,007	14,379	11,760	13,293	14,263	13,699	12,282	8,258	12,238
49	1973	7,949	9,057	10,109	11,681	10,636	7,701	5,495	9,025	8,999	8,488	7,629	6,944	8,617
50	1974	6,254	8,669	11,909	17,460	15,823	13,795	12,909	12,778	14,152	14,372	12,359	8,286	12,381
51	1975	6,844	8,432	9,159	12,977	12,737	11,190	7,343	10,800	14,448	14,594	10,499	8,299	10,591
52	1976	8,680	11,538	14,856	16,425	14,997	12,373	11,295	13,884	12,592	13,607	13,275	10,697	12,831
53	1977	8,028	8,336	8,353	9,012	9,275	6,255	4,769	7,930	7,585	8,208	8,058	6,564	7,679
54	1978	6,083	7,988	10,043	11,899	9,724	10,791	9,619	11,359	11,927	13,391	8,729	9,057	10,040
55	1979	8,006	8,954	8,577	11,291	8,847	9,439	7,417	12,147	9,901	8,408	7,594	7,497	8,994
56	1980	6,870	8,326	7,588	11,091	7,937	7,596	8,581	13,624	12,746	10,776	7,948	7,379	9,187
57	1981	6,755	8,949	12,940	14,617	14,270	8,555	6,132	10,955	13,505	13,313	11,806	8,032	10,787
58	1982	6,989	9,492	10,444	14,352	15,963	14,334	9,795	12,423	14,101	14,541	12,071	9,195	11,957
59	1983	8,726	9,609	11,289	14,651	13,529	13,693	8,964	11,276	12,093	14,043	11,341	8,197	11,443
60	1984	7,373	11,906	11,562	14,944	13,259	12,148	10,428	11,648	14,721	14,142	10,334	8,180	11,700
61	1985	7,548	9,366	10,053	11,994	10,957	8,375	8,620	11,162	9,349	8,965	7,069	7,135	9,187
62	1986	7,721	10,203	10,377	13,217	13,854	13,709	11,421	11,120	12,380	10,485	8,453	7,129	10,828
63	1987	6,326	9,048	10,155	10,608	8,730	8,976	8,144	11,368	9,564	7,719	7,083	6,714	8,692
64	1988	6,185	8,467	7,900	7,570	7,367	7,234	6,539	8,619	9,409	10,174	8,081	7,428	7,907
65	1989	6,079	8,828	9,381	9,472	6,539	9,337	10,147	10,931	9,316	9,889	7,547	7,039	8,713
66	1990	6,644	8,945	11,128	13,500	13,510	10,701	9,511	10,149	12,211	13,067	10,241	7,262	10,553
67	1991	6,368	11,808	12,156	14,748	14,376	11,076	8,770	10,809	11,555	13,320	11,327	6,997	11,081
68	1992	6,914	8,624	7,744	9,896	8,913	8,677	6,710	10,286	8,541	7,940	7,731	7,032	8,238
69	1993	5,922	8,345	8,624	8,197	5,981	7,911	6,833	12,838	11,209	10,251	8,785	7,665	8,547
70	1994	6,519	8,664	8,642	8,172	8,163	7,346	7,227	10,009	8,912	9,161	7,614	7,396	8,139
71	1995	6,363	8,173	8,836	10,516	10,111	11,470	6,930	11,113	13,194	11,038	8,947	7,856	9,543
72	1996	8,495	12,952	15,791	17,336	16,521	14,066	11,797	12,290	13,922	13,751	10,506	7,626	12,896
73	1997	7,126	9,314	11,853	17,540	16,563	13,898	12,915	14,134	14,391	13,891	11,932	9,106	12,697
74	1998	11,301	10,740	10,035	12,590	12,609	9,514	6,972	13,357	13,493	12,880	10,518	7,552	10,939
75	1999	6,756	7,936	10,910	15,740	14,567	14,044	9,729	11,108	13,632	13,952	12,618	7,629	11,548
76	2000	6,793	11,738	12,776	13,763	12,340	11,057	10,882	10,984	8,842	12,047	8,865	6,965	10,564
77	2001	6,601	8,259	8,284	8,937	8,995	6,976	4,835	7,429	7,455	8,431	7,857	6,810	7,556
78	2002	5,786	7,837	9,156	8,924	8,060	7,918	9,349	10,591	12,914	13,369	8,804	7,254	9,158
79	2003	6,597	8,797	8,317	9,255	9,160	10,752	8,460	9,428	12,233	8,966	7,303	6,865	8,847
80	2004	6,238	9,268	10,173	10,650	9,380	7,931	7,719	9,143	10,531	9,219	7,573	7,252	8,740
81	2005	7,876	9,439	11,317	12,048	12,293	8,468	5,726	9,207	10,196	10,644	8,021	7,248	9,342
82	2006	5,989	9,509	10,074	14,508	14,630	10,065	11,534	13,628	12,549	11,294	7,931	6,891	10,673
83	2007	6,185	8,827	10,232	13,418	11,272	12,357	9,899	10,906	10,754	11,713	7,589	6,506	9,958
84	2008	6,231	9,000	8,585	11,624	9,614	8,992	6,331	12,151	14,058	13,051	9,168	7,496	9,672
85	80 WY Average	7,191	9,248	10,294	12,525	11,686	10,005	8,696	11,258	11,875	11,635	9,482	7,656	10,111
86	Hours	416	400	416	400	384	432	416	400	416	400	432	400	4912

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Table 4a:													
2	Light-Load Hydro Generation													
3	for FY 2023													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
5	1929	4,091	5,497	5,544	5,206	5,191	5,125	3,544	3,938	5,771	4,405	4,826	4,721	4,814
6	1930	3,844	5,447	5,282	5,000	5,237	4,740	3,648	4,256	4,460	4,655	4,906	4,637	4,675
7	1931	3,869	5,598	5,562	4,719	5,026	5,089	3,703	4,153	4,348	4,582	4,868	4,495	4,666
8	1932	3,797	5,215	5,489	5,260	4,378	7,454	6,669	7,891	9,487	5,586	5,288	4,686	5,926
9	1933	4,002	5,559	6,940	7,695	9,052	6,692	4,746	6,722	12,283	10,451	7,169	4,836	7,167
10	1934	4,381	8,223	12,258	13,951	13,081	8,679	8,993	9,303	7,988	4,325	4,648	4,310	8,327
11	1935	3,801	4,970	6,004	7,176	8,821	5,987	4,074	6,062	6,068	5,998	5,792	4,454	5,755
12	1936	3,946	5,381	5,501	4,876	4,398	5,822	4,942	8,806	8,542	5,386	4,936	4,519	5,600
13	1937	3,943	5,624	5,519	4,456	4,236	4,639	3,586	4,633	4,966	4,397	4,712	4,504	4,605
14	1938	3,938	5,833	6,393	7,588	6,348	7,815	7,227	7,648	7,626	6,199	4,590	4,700	6,327
15	1939	4,040	5,297	5,318	5,951	6,186	5,898	4,481	6,339	4,758	4,904	4,868	4,616	5,225
16	1940	3,959	5,630	5,638	6,570	5,858	7,288	4,836	5,231	4,603	4,288	4,521	4,479	5,238
17	1941	3,926	5,969	6,287	5,405	5,175	5,304	3,852	4,661	4,776	4,612	4,966	4,673	4,970
18	1942	4,006	6,076	7,654	7,380	6,866	5,309	4,140	4,599	8,535	6,574	5,689	4,858	5,969
19	1943	3,948	5,621	6,446	8,232	8,956	7,617	9,188	7,331	10,208	8,639	5,651	4,546	7,173
20	1944	3,893	5,570	5,448	5,136	5,692	4,662	3,302	3,939	4,442	4,341	4,817	4,464	4,637
21	1945	3,909	5,452	5,591	4,910	4,829	5,052	3,327	5,483	8,548	4,686	4,933	4,675	5,109
22	1946	3,881	5,549	6,492	7,366	6,843	7,678	7,868	8,683	8,722	6,890	6,044	4,790	6,730
23	1947	3,993	6,484	8,752	9,505	9,948	8,270	5,018	7,491	8,208	6,579	5,329	4,841	7,027
24	1948	5,804	7,536	7,443	8,924	9,650	6,304	6,036	11,512	14,251	6,545	7,263	5,064	8,014
25	1949	4,189	6,081	5,941	7,979	6,034	8,098	6,831	9,260	6,449	4,539	4,446	4,340	6,194
26	1950	3,827	5,489	6,405	10,126	8,181	8,859	7,306	6,784	11,335	13,121	7,233	4,863	7,807
27	1951	5,026	7,929	9,152	11,886	12,806	9,629	7,673	8,322	7,572	9,663	5,828	4,845	8,357
28	1952	5,754	6,787	7,498	8,416	9,395	7,283	7,816	10,254	7,482	6,632	5,305	4,485	7,261
29	1953	3,904	5,677	5,498	6,404	9,958	5,885	3,595	5,979	13,235	8,162	5,905	4,930	6,551
30	1954	4,060	6,172	7,043	8,833	9,593	7,510	5,463	8,762	11,490	12,579	9,901	6,498	8,166
31	1955	4,418	6,802	6,936	5,714	5,886	4,620	4,026	5,452	11,866	12,110	6,853	4,834	6,643
32	1956	4,240	7,410	8,821	12,031	11,082	9,288	9,678	11,126	13,247	8,864	6,684	4,810	8,927
33	1957	4,289	6,044	7,146	6,874	6,869	7,530	6,677	10,740	12,615	5,589	5,124	4,610	6,999
34	1958	3,975	5,561	6,105	7,890	7,807	6,604	5,003	8,972	10,384	5,191	5,044	4,643	6,423
35	1959	3,998	6,905	8,124	10,559	11,527	7,813	5,764	6,759	10,969	9,953	6,823	7,157	8,012
36	1960	7,206	8,359	7,962	7,749	7,977	6,570	7,008	6,509	8,512	6,261	5,380	4,612	6,999
37	1961	4,035	6,183	6,477	8,948	7,468	7,953	5,182	8,091	13,325	5,248	5,118	4,527	6,859
38	1962	3,731	5,763	6,443	7,021	8,811	5,396	6,276	7,034	8,263	5,262	5,582	4,674	6,160
39	1963	4,338	6,942	7,695	7,231	8,775	5,701	4,065	5,571	7,875	6,169	5,619	5,137	6,244
40	1964	4,053	5,683	6,441	5,853	7,251	5,281	4,690	6,619	13,080	10,817	6,834	5,630	6,846
41	1965	4,661	6,480	9,217	11,614	13,282	9,678	6,066	9,299	9,131	7,339	7,174	4,927	8,218
42	1966	4,295	5,605	6,692	6,563	8,192	5,717	4,997	5,132	7,422	5,969	5,173	4,588	5,841
43	1967	3,895	5,556	6,975	8,536	11,200	7,549	4,973	6,406	12,137	8,841	5,962	4,825	7,201
44	1968	4,213	6,471	6,778	8,658	7,689	8,130	3,722	5,419	8,616	6,461	6,336	6,120	6,543

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Table 4a:													
2	Light-Load Hydro Generation													
3	for FY 2023													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
45	1969	4,903	7,505	7,526	10,048	11,456	8,018	8,991	9,218	8,759	6,675	5,420	4,599	7,734
46	1970	4,032	6,026	6,030	7,223	9,079	6,202	3,976	6,143	11,051	5,278	5,130	4,795	6,210
47	1971	4,014	5,722	6,368	10,892	13,245	9,030	7,157	10,371	13,411	9,235	7,676	5,051	8,477
48	1972	4,442	6,401	7,110	11,342	9,525	12,443	8,086	10,665	14,145	9,941	8,078	5,267	8,942
49	1973	4,670	6,092	6,697	6,526	6,534	5,309	3,538	4,651	4,867	4,408	4,557	4,425	5,190
50	1974	3,856	6,188	7,763	15,485	14,510	11,068	8,874	10,256	13,615	13,105	8,241	5,140	9,832
51	1975	4,025	5,577	6,181	7,216	8,136	7,519	4,548	6,401	11,759	9,883	6,320	5,368	6,900
52	1976	5,133	7,688	10,508	10,052	11,249	8,929	7,471	9,639	8,643	9,672	11,526	6,940	8,948
53	1977	4,611	5,550	5,732	5,497	5,831	4,438	3,266	4,097	4,096	4,171	4,781	4,287	4,696
54	1978	3,691	5,381	7,022	7,234	6,558	7,511	5,431	7,575	7,390	7,072	5,169	5,834	6,333
55	1979	4,433	5,843	5,708	6,475	5,600	6,516	4,186	7,037	5,135	4,390	4,605	4,624	5,392
56	1980	3,978	5,449	5,190	6,386	5,469	5,449	4,963	9,507	9,613	5,288	4,690	4,706	5,902
57	1981	3,964	5,951	7,838	8,919	10,279	5,730	3,688	6,148	12,945	8,254	7,406	4,950	7,146
58	1982	3,992	6,196	6,907	9,338	11,155	11,396	6,389	8,050	10,888	11,167	7,544	5,972	8,228
59	1983	5,030	6,388	7,300	9,673	8,617	11,251	6,028	6,459	7,967	9,764	6,737	5,226	7,540
60	1984	4,406	7,951	7,511	8,634	9,008	8,709	6,265	6,594	11,023	8,442	6,057	5,368	7,476
61	1985	4,503	6,557	6,687	7,174	6,822	5,857	5,268	6,454	5,603	4,428	4,354	4,795	5,710
62	1986	4,444	6,948	6,871	8,167	10,053	10,675	6,600	5,963	8,345	5,137	4,949	4,650	6,850
63	1987	3,905	6,203	6,808	6,104	5,548	5,944	4,453	7,190	5,096	4,144	4,386	4,322	5,355
64	1988	3,779	5,579	5,333	4,729	4,907	5,093	3,851	4,354	4,748	4,762	4,695	4,527	4,695
65	1989	3,684	5,875	6,327	5,869	4,564	6,963	6,497	6,611	5,104	4,741	4,643	4,498	5,454
66	1990	3,936	5,957	7,253	7,224	9,489	7,143	5,577	5,696	9,273	7,831	6,120	4,601	6,645
67	1991	3,784	7,853	7,523	8,295	10,988	7,505	5,697	6,682	7,873	9,698	6,854	4,539	7,259
68	1992	3,993	5,821	5,340	5,912	5,712	5,834	3,872	5,327	4,470	4,260	4,723	4,447	4,977
69	1993	3,626	5,397	5,652	5,078	4,117	5,726	4,169	7,299	6,633	5,523	5,571	4,938	5,328
70	1994	3,865	5,603	5,758	4,989	5,248	5,183	4,039	5,066	4,555	4,578	4,596	4,535	4,836
71	1995	3,780	5,351	5,933	6,229	6,901	7,594	4,207	5,837	9,879	5,938	5,322	5,022	5,976
72	1996	4,722	8,753	13,729	13,733	13,310	11,891	7,798	8,103	10,109	9,897	6,092	4,828	9,407
73	1997	4,079	6,355	7,560	12,682	14,348	11,138	9,810	12,211	14,261	10,348	7,767	5,917	9,670
74	1998	6,232	7,077	6,702	6,913	8,318	6,466	4,091	7,876	9,553	6,713	6,375	4,950	6,767
75	1999	4,088	5,483	7,143	10,857	9,475	11,169	6,720	6,562	9,923	10,798	9,152	4,836	8,008
76	2000	3,976	7,679	7,753	8,086	7,469	7,458	7,330	6,679	5,141	6,071	5,075	4,426	6,429
77	2001	3,979	5,441	5,645	5,512	5,620	4,971	3,232	4,018	4,090	4,287	4,741	4,297	4,652
78	2002	3,669	5,107	6,191	5,700	5,571	5,725	5,836	6,271	10,060	7,987	5,404	4,530	6,001
79	2003	3,893	5,710	5,530	5,614	5,836	7,123	4,865	4,769	8,213	4,518	4,555	4,346	5,388
80	2004	3,731	6,080	6,718	6,219	5,976	5,610	4,215	4,613	5,787	4,699	4,885	4,856	5,277
81	2005	4,351	6,173	7,236	6,688	8,212	5,658	3,630	4,965	5,461	5,195	4,861	4,650	5,580
82	2006	3,650	6,225	6,756	8,195	10,696	6,817	7,792	8,612	9,470	5,482	4,592	4,416	6,854
83	2007	3,783	6,130	6,711	8,026	6,642	8,455	5,493	6,334	6,677	5,698	4,591	4,260	6,067
84	2008	3,774	5,971	5,811	6,760	6,085	6,220	3,988	6,992	11,988	6,777	5,327	4,686	6,192
85	80 WY Average	4,194	6,171	6,841	7,749	8,046	7,153	5,523	6,981	8,640	6,863	5,771	4,854	6,557
86	Hours	328	321	328	344	288	311	304	344	304	344	312	320	3848

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Table 5:													
2	Federal Hydro Generation Adjustment for													
3	Stand Ready & Deployment Losses, Light-Load-Hours for FY 2022													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
5	1929	39	21	19	11	13	135	40	29	-10	130	22	161	51
6	1930	27	-2	52	176	3	44	1	21	-26	21	-20	119	36
7	1931	58	7	27	38	15	119	8	138	-8	14	69	102	50
8	1932	22	10	108	18	56	58	-26	45	55	15	10	101	39
9	1933	26	56	-13	113	400	4	53	29	113	631	86	99	133
10	1934	12	84	94	538	973	110	213	219	298	50	1	190	226
11	1935	81	83	54	-3	337	28	-39	32	27	-20	-19	127	55
12	1936	37	16	13	-14	22	26	-29	53	223	-17	18	135	39
13	1937	73	-2	-8	226	48	15	79	35	-10	54	9	116	54
14	1938	-25	11	15	-24	93	16	-5	81	25	-5	44	113	27
15	1939	66	12	96	98	3	13	-24	-2	78	23	31	129	44
16	1940	81	7	-21	-15	75	68	-50	-17	-10	84	28	135	30
17	1941	108	0	3	29	38	75	11	-29	19	49	3	127	36
18	1942	160	20	-16	-23	293	4	32	20	69	3	-61	101	48
19	1943	58	106	7	-17	370	40	17	-26	154	45	32	136	73
20	1944	57	8	19	-19	-1	4	139	2	7	97	9	138	38
21	1945	40	16	-1	80	79	13	93	-8	54	118	27	133	53
22	1946	10	4	15	11	98	12	16	55	37	31	-3	127	34
23	1947	66	10	20	-7	327	15	16	2	93	7	46	125	57
24	1948	-1	-18	-14	97	332	9	-5	60	127	-2	47	98	58
25	1949	22	21	71	-15	156	45	-10	101	-15	85	82	136	56
26	1950	55	10	40	12	317	19	-10	4	78	656	-13	112	108
27	1951	84	-18	-8	699	191	131	-10	24	83	392	-26	126	144
28	1952	18	13	-15	3	346	5	-10	81	-35	-2	1	144	44
29	1953	20	14	9	44	535	-22	69	21	142	16	-61	124	71
30	1954	98	4	-20	-3	393	10	-59	66	244	659	602	-39	162
31	1955	-16	-8	0	24	67	211	73	7	220	660	120	126	125
32	1956	61	-5	-26	-13	364	-20	-11	74	293	-8	119	189	81
33	1957	40	16	-20	-15	13	-30	-10	77	239	13	32	130	40
34	1958	55	20	15	59	394	16	23	1	252	-40	49	126	76
35	1959	84	-1	-9	58	359	16	-13	194	138	430	28	-9	107
36	1960	0	84	-19	-7	329	15	-82	-33	-10	-1	10	124	31
37	1961	80	3	12	-5	339	-3	10	198	240	-34	-29	128	75
38	1962	43	18	100	16	330	12	-10	30	53	-54	-51	127	48
39	1963	5	43	33	6	409	51	62	14	17	12	-61	101	54
40	1964	18	16	56	-25	-41	49	-19	32	145	508	-12	80	70
41	1965	16	47	97	119	189	48	109	18	-12	15	-3	134	64
42	1966	178	16	-21	-12	145	41	18	-6	131	-2	-52	163	48
43	1967	6	78	-16	8	412	-2	48	-25	127	184	-9	95	72
44	1968	115	3	80	35	341	-12	58	71	62	-5	89	148	79

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Table 5:													
2	Federal Hydro Generation Adjustment for													
3	Stand Ready & Deployment Losses, Light-Load-Hours for FY 2022													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
45	1969	31	-18	-15	-8	523	18	-95	51	273	-7	-11	193	73
46	1970	110	4	9	-18	322	-13	32	-3	-35	54	21	147	50
47	1971	17	14	5	40	162	-2	-10	117	164	-13	85	110	56
48	1972	39	12	-20	138	178	8	-25	-9	72	543	150	96	101
49	1973	177	11	3	-7	161	95	473	-2	64	71	18	128	96
50	1974	59	-1	-1	539	969	-8	0	-32	78	641	148	88	205
51	1975	58	39	16	-8	180	5	-59	27	68	187	-28	92	48
52	1976	86	-38	20	62	596	-2	2	11	18	478	1,665	6	237
53	1977	111	10	15	57	2	139	94	17	21	49	56	134	59
54	1978	233	11	11	6	70	12	-11	32	16	15	10	65	39
55	1979	9	-4	14	-27	28	12	-58	-3	81	94	50	125	27
56	1980	-19	12	63	57	-21	-27	3	92	94	-46	47	127	32
57	1981	41	1	93	439	562	70	8	79	227	208	81	95	157
58	1982	48	18	33	50	188	-26	9	-16	-5	352	50	138	71
59	1983	74	43	11	-8	368	65	41	41	21	82	-10	93	66
60	1984	84	-33	-18	24	345	94	72	46	-38	-15	17	113	55
61	1985	57	21	-8	82	66	8	-36	48	23	66	120	147	50
62	1986	42	11	-20	-6	401	6	-5	29	38	24	-7	144	51
63	1987	64	10	56	48	10	13	-27	67	-36	95	58	127	42
64	1988	41	15	40	-3	27	115	94	48	-14	-35	-16	125	36
65	1989	31	20	106	10	100	45	106	-31	17	49	39	131	51
66	1990	116	11	-13	52	459	5	-13	63	234	15	21	128	86
67	1991	76	19	67	163	338	-22	9	-23	136	465	4	129	114
68	1992	62	5	61	-18	14	90	120	-16	48	104	43	128	53
69	1993	55	3	-8	17	5	29	70	26	75	71	66	142	46
70	1994	116	9	15	68	1	83	10	25	-14	41	16	125	42
71	1995	54	17	18	-19	302	10	2	10	-3	28	20	117	44
72	1996	14	67	385	484	219	573	33	89	-43	365	-23	120	193
73	1997	30	16	-20	-3	342	11	30	60	164	461	45	50	98
74	1998	-1	-19	32	70	365	93	47	2	72	11	-3	143	64
75	1999	70	80	-18	-5	396	14	7	4	22	660	315	113	138
76	2000	64	91	135	0	432	11	-8	-22	24	-3	65	133	73
77	2001	70	9	4	8	-2	39	154	39	-28	60	-1	137	41
78	2002	262	17	0	70	-1	25	84	40	208	-21	-11	127	66
79	2003	125	3	13	8	-4	18	32	-21	83	46	76	140	43
80	2004	82	9	-20	-19	11	41	42	-7	-21	51	52	100	27
81	2005	72	16	-14	-9	458	50	62	-32	-9	-26	18	134	55
82	2006	87	33	15	114	363	14	28	25	263	39	29	147	93
83	2007	19	10	38	33	282	-2	26	36	72	-2	56	148	57
84	2008	122	2	12	-17	7	12	42	70	239	-17	154	129	62
85	80 WY Average	61	17	24	60	230	39	27	33	80	126	58	120	72
86	Hours	328	321	328	344	288	311	304	344	304	344	312	320	3848

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Table 6:													
2	Federal Hydro Generation Adjustment for													
3	Stand Ready & Deployment Losses, Heavy-Load-Hours for FY 2022													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
5	1929	-52	-45	-47	-46	-42	-49	-110	-97	-20	-256	-71	-114	-79
6	1930	-50	-16	-51	-46	-48	-43	-108	-64	-46	-64	-48	-298	-73
7	1931	-48	-34	-24	-53	-40	-71	-124	-100	-31	-28	-34	-258	-70
8	1932	-65	-47	-47	-49	-112	-104	-23	-15	-32	-41	-56	-254	-70
9	1933	-66	-68	-9	-22	-12	-32	-82	-24	-104	-188	-137	-241	-82
10	1934	-45	-23	-92	-18	-33	-46	-31	-160	-201	-112	-92	-187	-87
11	1935	-51	-47	-23	0	0	-38	-55	-25	-50	-12	-41	-225	-47
12	1936	-67	-41	-48	-64	-54	-49	-66	-13	-165	-36	-66	-256	-77
13	1937	-47	-16	-37	-90	-66	-52	-143	-62	-11	-115	-103	-287	-85
14	1938	-39	-51	-44	0	-11	-48	-23	-29	-31	-16	-136	-275	-59
15	1939	-58	-50	-54	-14	-17	-48	-56	-8	-24	-33	-134	-267	-64
16	1940	-50	-33	-28	0	-80	-60	-62	0	-13	-83	-128	-197	-61
17	1941	-69	-40	-21	-40	-50	-66	-111	-60	-42	-110	-55	-268	-77
18	1942	-90	-46	-24	0	-70	-82	-108	-60	-95	-30	-53	-252	-76
19	1943	-38	-70	-53	0	-40	-54	-36	0	-172	-6	-66	-279	-68
20	1944	-90	-52	-51	-21	-40	-65	-216	-70	-50	-102	-103	-212	-90
21	1945	-51	-39	-40	-60	-78	-60	-177	-45	-50	-132	-126	-241	-91
22	1946	-72	-48	-44	-24	-25	-45	-35	-39	-43	-32	-26	-268	-58
23	1947	-70	-48	-17	0	0	-22	-53	-1	-85	-32	-68	-70	-39
24	1948	-28	-11	-11	-16	0	-43	-23	0	-152	-27	-63	-240	-51
25	1949	-57	-45	-37	0	-42	-43	-34	-28	-11	-87	-195	-281	-72
26	1950	-72	-50	-12	0	0	-25	-33	0	-107	-183	-19	-273	-64
27	1951	-60	-12	-2	-32	-30	-44	-26	0	-48	-107	-53	-76	-41
28	1952	-47	-22	-12	0	0	-46	-26	-82	0	-23	-51	-335	-54
29	1953	-74	-41	-51	-92	-15	-41	-129	-26	-175	-24	-52	-61	-66
30	1954	-65	-35	-26	0	-22	-21	-56	-7	-194	-187	-169	-71	-72
31	1955	-40	-17	-11	-24	-14	-65	-142	-40	-202	-187	-94	-219	-88
32	1956	-57	-15	0	0	0	-9	-20	-10	-184	0	-92	-187	-48
33	1957	-67	-49	-26	0	-42	-40	-30	-90	-195	-29	-66	-278	-76
34	1958	-71	-46	-45	-15	-35	-46	-58	-3	-165	-31	-68	-220	-67
35	1959	-55	-16	-7	-18	0	-21	-21	-38	-163	-116	-55	-38	-46
36	1960	-13	-12	0	0	0	-47	0	-4	0	-20	-56	-61	-18
37	1961	-48	-37	-31	0	0	-10	-38	-65	-195	-56	-60	-250	-66
38	1962	-64	-47	-20	-18	0	-62	-34	-22	-34	-28	-52	-225	-50
39	1963	-49	-10	-24	0	-37	-53	-115	-42	-10	-50	-56	-253	-58
40	1964	-61	-48	-14	0	0	-61	-78	-25	-177	-147	-19	-204	-70
41	1965	-47	-9	-87	0	-19	-7	-87	-18	-28	-46	-16	-254	-51
42	1966	-47	-38	-27	0	0	-54	-57	-9	-32	-35	-54	-113	-39
43	1967	-51	-50	-15	0	-33	-10	-73	0	-152	0	-42	-247	-56
44	1968	-56	-37	-21	-26	0	-6	-152	-27	-29	-25	-85	-138	-51

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Table 6:													
2	Federal Hydro Generation Adjustment for													
3	Stand Ready & Deployment Losses, Heavy-Load-Hours for FY 2022													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
45	1969	-48	-12	-6	0	0	-16	0	-53	-173	-26	-47	-189	-47
46	1970	-50	-36	-20	0	0	-42	-117	-9	0	-115	-65	-292	-62
47	1971	-72	-53	-19	-33	-5	-6	-19	-49	-190	-37	-137	-291	-76
48	1972	-51	-44	-26	-27	-2	-28	0	0	-96	-115	-179	-250	-69
49	1973	-65	-46	-41	0	0	-63	-200	-56	-63	-135	-64	-249	-82
50	1974	-50	-68	-27	-19	-36	-25	-28	-3	-78	-186	-178	-227	-77
51	1975	-97	-50	-43	0	-2	-40	-57	-7	-36	-63	-52	-230	-56
52	1976	-57	-1	-24	-22	0	-6	-32	0	-15	-155	-136	-52	-42
53	1977	-50	-44	-45	-42	-28	-53	-182	-58	-34	-109	-69	-254	-80
54	1978	-98	-50	-50	-28	-42	-62	-27	-6	-49	-46	-56	-34	-46
55	1979	-50	-31	-46	0	-52	-43	-55	-18	-24	-105	-149	-74	-54
56	1980	-40	-44	-55	-13	-64	-64	-39	-70	-119	-28	-139	-267	-79
57	1981	-56	-38	-17	-33	-26	-60	-110	-47	-204	-66	-135	-244	-87
58	1982	-56	-19	-34	-31	-48	0	-36	0	-1	-159	-61	-134	-48
59	1983	-57	-34	-32	0	-25	-81	-67	-39	-45	-62	-31	-233	-59
60	1984	-61	0	-22	-8	0	-43	-82	-39	0	0	-54	-276	-49
61	1985	-91	-45	-31	-20	-19	-58	-64	-58	-50	-88	-116	-294	-78
62	1986	-67	-18	-27	0	-28	-15	-31	-44	-24	-38	-89	-344	-60
63	1987	-110	-48	-14	-12	-48	-43	-66	-69	0	-94	-156	-228	-74
64	1988	-67	-40	-56	-53	-60	-77	-130	-77	-26	-28	-52	-73	-62
65	1989	-66	-46	-98	-48	-143	-97	-88	-2	-49	-109	-147	-296	-99
66	1990	-58	-46	-7	-32	-16	-40	-30	-50	-170	-45	-46	-242	-65
67	1991	-61	-12	-64	-24	0	-4	-37	-1	-89	-119	-28	-265	-58
68	1992	-72	-48	-27	-19	-41	-64	-142	-6	-61	-206	-135	-254	-90
69	1993	-57	-36	-37	-51	-71	-59	-140	-10	-64	-136	-177	-316	-96
70	1994	-57	-32	-21	-85	-28	-54	-66	-25	-24	-52	-64	-72	-48
71	1995	-41	-48	-48	-20	-55	-21	-102	-35	-16	-36	-64	-290	-64
72	1996	-51	-16	-73	0	-41	0	-44	-37	0	-91	-11	-308	-55
73	1997	-51	-39	-26	0	-10	0	-44	0	-189	-119	-61	-95	-53
74	1998	-28	-14	-11	-74	-6	-63	-111	0	-70	-51	-26	-332	-65
75	1999	-95	-68	-23	0	-51	-13	-46	-10	-24	-187	-197	-277	-83
76	2000	-59	-24	-97	-6	-70	-45	-29	0	-56	-24	-33	-240	-56
77	2001	-65	-51	-48	-25	-41	-38	-221	-79	-62	-129	-87	-244	-91
78	2002	-98	-48	-30	-86	-69	-71	-87	-33	-180	0	-83	-233	-85
79	2003	-47	-37	-48	-52	-43	-45	-86	-64	-81	-95	-182	-291	-90
80	2004	-67	-22	-25	-21	-72	-59	-82	-46	-4	-119	-153	-248	-76
81	2005	-62	-36	-11	-3	-14	-29	-153	-56	-7	-53	-67	-250	-62
82	2006	-67	-35	-29	-23	-8	-47	-26	-11	-196	-48	-125	-288	-76
83	2007	-73	-51	-12	-15	-72	-9	-60	-23	-75	-35	-153	-305	-74
84	2008	-57	-38	-50	-18	-33	-46	-110	-38	-194	-24	-125	-269	-84
85	80 WY Average	-60	-37	-33	-22	-31	-43	-74	-33	-79	-77	-86	-223	-66
86	Hours	416	400	416	400	384	432	416	400	416	400	432	400	4912

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Table 7:													
2	Federal Hydro Generation Adjustment for													
3	Stand Ready & Deployment Losses, Flat Energy for FY 2022													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
5	1929	-12	-16	-18	-20	-19	28	-47	-39	-16	-77	-32	8	-22
6	1930	-16	-10	-6	56	-26	-6	-62	-24	-37	-24	-36	-113	-25
7	1931	-1	-16	-2	-11	-17	9	-68	10	-21	-9	9	-98	-18
8	1932	-27	-22	22	-18	-40	-36	-24	13	5	-15	-28	-96	-22
9	1933	-25	-13	-10	41	165	-17	-25	0	-13	191	-44	-90	13
10	1934	-20	25	-10	239	398	19	72	15	10	-37	-53	-20	51
11	1935	7	11	11	-2	145	-10	-48	1	-18	-16	-32	-69	-2
12	1936	-21	-15	-21	-41	-22	-18	-50	18	-1	-27	-31	-83	-26
13	1937	6	-10	-24	56	-17	-24	-49	-17	-11	-37	-56	-108	-24
14	1938	-33	-23	-18	-11	33	-21	-16	22	-8	-11	-61	-103	-21
15	1939	-4	-23	12	38	-9	-23	-43	-5	19	-7	-65	-91	-17
16	1940	8	-15	-24	-7	-14	-6	-57	-8	-12	-6	-63	-50	-21
17	1941	9	-22	-10	-9	-13	-7	-59	-46	-16	-37	-31	-93	-28
18	1942	20	-17	-21	-10	86	-46	-49	-23	-26	-15	-57	-95	-22
19	1943	4	8	-27	-8	136	-15	-14	-12	-34	17	-25	-95	-6
20	1944	-25	-25	-20	-20	-23	-36	-66	-36	-26	-10	-56	-56	-33
21	1945	-11	-15	-23	5	-11	-30	-63	-28	-6	-16	-62	-74	-28
22	1946	-36	-25	-18	-8	27	-21	-14	4	-9	-3	-16	-93	-18
23	1947	-10	-22	-1	-3	140	-6	-23	0	-10	-14	-20	17	3
24	1948	-16	-14	-12	36	142	-21	-15	28	-34	-15	-17	-90	-3
25	1949	-22	-16	11	-7	43	-6	-24	32	-13	-8	-79	-95	-16
26	1950	-16	-23	11	6	136	-7	-24	2	-29	205	-17	-102	11
27	1951	3	-15	-4	306	65	29	-19	11	7	123	-42	14	40
28	1952	-18	-7	-14	1	148	-24	-20	-7	-15	-13	-29	-122	-11
29	1953	-32	-17	-25	-29	221	-33	-45	-4	-41	-5	-56	21	-5
30	1954	7	-18	-23	-1	156	-8	-57	27	-9	204	154	-57	31
31	1955	-29	-13	-6	-2	21	50	-51	-19	-24	204	-4	-65	6
32	1956	-5	-11	-11	-6	156	-13	-16	29	17	-4	-4	-20	8
33	1957	-20	-20	-23	-7	-19	-36	-21	-13	-12	-9	-25	-97	-25
34	1958	-16	-17	-19	19	149	-20	-24	-1	11	-35	-19	-66	-4
35	1959	6	-9	-8	17	154	-6	-18	70	-35	137	-20	-25	21
36	1960	-8	31	-8	-3	141	-21	-35	-17	-4	-11	-28	21	4
37	1961	9	-19	-12	-2	145	-7	-18	57	-11	-46	-47	-82	-4
38	1962	-17	-18	33	-2	141	-31	-24	2	2	-40	-51	-69	-7
39	1963	-25	14	1	3	154	-9	-40	-16	1	-21	-58	-96	-9
40	1964	-26	-20	17	-12	-18	-15	-53	1	-41	156	-16	-78	-8
41	1965	-19	16	-6	55	70	16	-4	-1	-22	-17	-10	-81	-1
42	1966	52	-14	-24	-6	62	-14	-25	-8	36	-20	-53	10	-1
43	1967	-26	7	-15	4	158	-7	-22	-12	-34	85	-28	-95	0
44	1968	19	-19	24	2	146	-9	-63	19	9	-16	-12	-11	7

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Table 7:													
2	Federal Hydro Generation Adjustment for													
3	Stand Ready & Deployment Losses, Flat Energy for FY 2022													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
45	1969	-13	-15	-10	-4	224	-1	-40	-5	15	-17	-32	-19	5
46	1970	21	-18	-7	-8	138	-30	-54	-6	-15	-37	-29	-97	-13
47	1971	-33	-24	-9	1	67	-4	-16	28	-40	-26	-44	-112	-18
48	1972	-12	-19	-24	49	75	-13	-10	-4	-25	189	-41	-96	6
49	1973	42	-21	-22	-3	69	3	84	-31	-9	-40	-29	-82	-4
50	1974	-2	-38	-16	239	395	-18	-16	-16	-12	196	-41	-87	47
51	1975	-29	-10	-17	-4	76	-21	-58	9	8	52	-42	-87	-11
52	1976	6	-17	-5	17	256	-4	-18	5	-1	138	619	-27	80
53	1977	21	-20	-19	4	-15	27	-65	-23	-11	-36	-17	-81	-19
54	1978	48	-23	-23	-12	6	-31	-20	12	-22	-18	-28	10	-9
55	1979	-24	-19	-20	-13	-18	-20	-56	-11	20	-13	-65	15	-19
56	1980	-30	-19	-3	19	-46	-48	-22	5	-29	-36	-61	-92	-30
57	1981	-13	-21	32	185	226	-5	-60	11	-22	61	-44	-93	20
58	1982	-10	-3	-5	6	53	-11	-17	-7	-3	78	-15	-13	4
59	1983	1	0	-13	-4	143	-20	-22	-2	-17	5	-22	-88	-4
60	1984	3	-15	-20	7	148	14	-17	0	-16	-7	-24	-103	-3
61	1985	-25	-15	-20	27	17	-30	-52	-9	-19	-17	-17	-98	-22
62	1986	-19	-5	-24	-3	156	-6	-20	-10	2	-9	-55	-127	-11
63	1987	-34	-22	17	16	-23	-19	-49	-6	-15	-7	-66	-70	-23
64	1988	-19	-16	-14	-30	-22	3	-35	-19	-21	-31	-37	15	-19
65	1989	-23	-16	-8	-22	-39	-38	-6	-15	-21	-36	-69	-106	-33
66	1990	19	-20	-10	7	188	-21	-23	3	0	-17	-18	-78	1
67	1991	0	2	-6	63	145	-12	-17	-11	6	151	-14	-90	17
68	1992	-13	-25	12	-19	-17	1	-31	-11	-15	-62	-60	-84	-27
69	1993	-8	-19	-24	-19	-38	-22	-51	7	-5	-40	-75	-112	-34
70	1994	19	-14	-5	-14	-15	3	-34	-2	-20	-9	-30	16	-9
71	1995	1	-19	-19	-20	98	-8	-58	-14	-10	-6	-29	-109	-17
72	1996	-22	21	129	224	71	240	-12	21	-18	119	-16	-117	54
73	1997	-15	-15	-23	-1	141	4	-13	28	-40	149	-17	-30	13
74	1998	-16	-16	8	-8	153	2	-45	1	-10	-23	-16	-121	-8
75	1999	-22	-3	-21	-2	141	-2	-24	-3	-5	205	18	-104	14
76	2000	-5	27	5	-3	145	-21	-20	-10	-22	-14	8	-74	1
77	2001	-5	-24	-25	-10	-25	-6	-63	-24	-47	-42	-51	-74	-33
78	2002	61	-19	-17	-14	-40	-31	-15	1	-16	-10	-53	-73	-19
79	2003	29	-19	-21	-24	-26	-19	-36	-44	-12	-30	-74	-99	-31
80	2004	-1	-8	-23	-20	-37	-17	-29	-28	-11	-40	-67	-93	-31
81	2005	-3	-13	-12	-6	188	4	-63	-45	-8	-41	-31	-80	-10
82	2006	1	-5	-9	41	151	-21	-3	6	-2	-8	-61	-95	-1
83	2007	-33	-24	10	7	80	-6	-24	4	-13	-20	-65	-104	-16
84	2008	22	-20	-22	-18	-16	-21	-46	12	-12	-21	-8	-92	-20
85	80 WY Average	-7	-13	-8	16	81	-9	-31	-2	-12	17	-25	-70	-6
86	Hours	744	721	744	744	672	743	720	744	720	744	744	720	8760

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Table 8:													
2	Federal Hydro Generation Adjustment for													
3	Stand Ready & Deployment Losses, Light-Load-Hours for FY 2023													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
5	1929	143	16	54	51	13	10	70	73	17	123	24	100	59
6	1930	38	73	74	49	21	0	87	-34	75	-4	17	95	40
7	1931	15	75	-5	-6	11	92	14	24	78	13	55	93	38
8	1932	25	16	145	35	201	14	22	5	205	50	62	110	72
9	1933	150	-3	89	-3	222	46	65	-39	91	728	-73	108	117
10	1934	14	-11	509	646	563	-5	104	423	284	32	0	108	223
11	1935	62	37	-4	-3	198	67	39	-31	-15	-20	48	153	42
12	1936	110	88	16	53	217	23	-33	-4	259	11	19	127	72
13	1937	64	-6	-9	167	145	44	72	-9	17	48	20	113	55
14	1938	75	28	-9	-20	38	26	-4	-19	69	-2	59	113	28
15	1939	132	6	105	25	-8	63	-56	-27	14	-62	-2	112	25
16	1940	64	49	68	44	0	17	12	65	-15	23	37	148	44
17	1941	96	59	-2	43	92	104	-56	47	-16	33	40	128	48
18	1942	8	15	65	-30	-7	46	137	8	87	-4	81	126	43
19	1943	95	51	53	80	198	33	30	66	68	-11	2	134	66
20	1944	11	0	9	141	59	47	55	44	-24	80	39	131	50
21	1945	14	78	104	23	-7	111	103	18	-10	108	20	158	61
22	1946	43	15	82	1	28	15	-31	179	373	21	45	144	76
23	1947	15	48	-44	79	285	95	61	-35	60	-38	93	119	58
24	1948	-7	30	72	7	206	11	10	23	160	-3	1	113	50
25	1949	76	91	101	-3	13	64	-10	49	50	72	123	132	64
26	1950	8	13	-5	-2	206	-2	-9	-28	68	686	-19	152	91
27	1951	34	5	93	792	234	5	12	82	-12	576	-5	162	172
28	1952	43	-4	55	32	192	6	-43	-9	152	-16	40	129	46
29	1953	6	33	101	25	321	57	31	-31	141	70	57	118	74
30	1954	95	109	17	34	202	21	54	178	590	674	358	-6	194
31	1955	7	-19	99	-19	-7	24	78	41	102	645	-19	150	94
32	1956	26	-19	-23	345	301	119	29	10	114	185	49	129	105
33	1957	49	57	-21	-27	20	20	-1	27	83	34	72	130	36
34	1958	8	11	59	-5	178	13	34	53	450	13	37	120	78
35	1959	48	-5	-36	160	351	73	9	-39	10	597	-19	-48	93
36	1960	36	-10	12	-13	87	17	-17	-31	3	-55	14	117	12
37	1961	115	62	4	42	155	-22	6	123	152	27	10	121	66
38	1962	10	11	37	-5	202	23	-10	37	-11	-60	28	116	30
39	1963	32	2	-29	-3	238	-9	47	15	7	-3	83	98	37
40	1964	46	67	0	19	-9	23	78	49	96	701	65	90	106
41	1965	47	2	-47	441	174	-14	70	262	16	-46	-19	130	87
42	1966	84	16	-20	36	45	36	97	77	-17	-4	-45	117	35
43	1967	32	92	58	36	240	-2	78	36	28	396	39	100	95
44	1968	134	-4	4	9	176	-9	61	-4	162	-20	-8	56	44

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Table 8:													
2	Federal Hydro Generation Adjustment for													
3	Stand Ready & Deployment Losses, Light-Load-Hours for FY 2023													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
45	1969	36	-2	-36	175	252	31	-35	1	96	-11	-32	115	48
46	1970	23	-5	-5	23	199	18	30	6	52	93	8	130	46
47	1971	48	15	60	266	84	-22	-10	-3	67	10	-19	117	52
48	1972	8	61	-20	216	158	322	-39	53	14	497	-35	104	114
49	1973	64	39	-2	-1	-27	26	97	24	16	60	32	143	40
50	1974	41	14	-11	662	572	32	73	-28	-8	676	-17	90	177
51	1975	33	33	97	42	53	-9	-58	-28	11	95	27	101	34
52	1976	69	67	211	339	203	30	7	10	-15	487	676	-29	174
53	1977	9	79	-9	1	18	195	49	13	21	21	48	127	47
54	1978	7	17	96	-3	-8	19	-38	71	18	-5	42	72	25
55	1979	14	-8	104	-18	9	14	-28	-26	-6	68	49	110	24
56	1980	71	-20	5	-9	58	17	10	53	3	-61	39	131	24
57	1981	67	82	14	2	242	6	69	-38	345	99	-5	92	78
58	1982	42	10	-1	19	29	136	16	-23	0	600	1	53	76
59	1983	8	17	-20	155	168	330	68	11	58	361	20	103	107
60	1984	139	64	13	15	229	241	61	13	150	-23	-5	125	82
61	1985	26	14	-1	-17	-8	36	-54	-34	46	40	123	145	26
62	1986	37	-5	-20	-19	204	439	16	46	-13	-62	2	136	60
63	1987	20	41	0	-4	33	5	-39	-2	64	87	73	126	34
64	1988	30	95	17	-13	216	41	8	-17	17	16	11	106	42
65	1989	43	-20	-1	47	54	14	9	-33	76	-8	53	130	29
66	1990	23	16	-36	0	202	32	9	50	475	37	21	157	79
67	1991	6	-28	-17	24	265	-19	9	-19	-14	644	-18	134	82
68	1992	156	-1	13	-17	13	1	-44	-36	14	88	42	122	30
69	1993	229	47	-8	31	322	53	33	-34	14	96	37	128	77
70	1994	48	83	-8	91	22	17	-44	72	17	48	34	104	41
71	1995	-13	2	-9	0	18	-5	85	-11	167	28	16	119	32
72	1996	13	-9	891	709	75	538	17	23	-16	536	30	152	254
73	1997	24	74	-20	317	478	214	-45	9	113	644	-38	63	154
74	1998	1	-6	-1	-7	177	7	54	42	30	-3	44	131	37
75	1999	10	39	-1	392	242	31	9	47	153	721	123	147	163
76	2000	39	-14	-9	-9	84	24	28	-37	-18	-20	39	132	19
77	2001	8	-1	69	-1	91	59	58	58	-39	41	2	145	41
78	2002	18	18	0	-2	52	34	32	-19	466	-11	50	140	62
79	2003	-13	72	80	29	12	2	-40	11	-11	82	69	128	36
80	2004	51	34	14	14	-1	31	-56	-17	0	95	64	132	31
81	2005	8	-5	-34	-31	182	19	51	21	33	11	24	126	32
82	2006	9	14	-21	-7	346	16	-14	-26	252	52	32	129	61
83	2007	12	16	-1	16	-8	-19	27	-33	-6	-1	54	130	15
84	2008	9	39	100	-6	-2	21	58	-4	1	-22	19	154	30
85	80 WY Average	45	27	42	84	139	54	22	23	83	146	40	116	68
86	Hours	328	321	328	344	288	311	304	344	304	344	312	320	3848

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Table 9:													
2	Federal Hydro Generation Adjustment for													
3	Stand Ready & Deployment Losses, Heavy-Load-Hours for FY 2023													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
5	1929	-69	-25	-18	-65	-39	-55	-144	-107	-48	-261	-105	-216	-96
6	1930	-60	-21	-29	-34	-56	-73	-134	-55	-82	-78	-50	-221	-74
7	1931	-52	-23	-47	-55	-43	-73	-131	-59	-63	-28	-58	-213	-70
8	1932	-61	-25	-18	-39	-117	-43	-45	-14	-43	-45	-58	-233	-61
9	1933	-69	-57	-31	0	-11	-41	-85	0	-54	-30	-10	-226	-51
10	1934	-50	0	-205	0	0	0	-47	-29	0	-120	-44	-226	-60
11	1935	-70	-49	-46	0	0	-40	-85	0	-28	-7	-60	-118	-42
12	1936	-69	-30	-56	-78	-82	-52	-76	0	-100	-53	-50	-192	-69
13	1937	-70	-43	-55	-60	-60	-57	-142	-44	-49	-135	-98	-162	-81
14	1938	-70	-27	-55	0	-27	-32	-24	-9	-64	-23	-90	-162	-49
15	1939	-60	-48	-51	-25	-9	-78	-59	0	-42	-52	-41	-239	-59
16	1940	-70	-16	-47	-8	-38	-52	-55	-58	-28	-115	-69	-121	-56
17	1941	-48	-17	-39	-43	-59	-70	-59	-57	-60	-124	-62	-153	-66
18	1942	-67	-26	-43	0	-5	-58	-165	-53	-47	-18	-58	-183	-61
19	1943	-62	-53	-36	-29	-7	-33	-46	-43	-41	0	-40	-217	-51
20	1944	-94	-50	-55	-61	-47	-59	-163	-78	-63	-101	-56	-207	-86
21	1945	-52	-12	-35	-66	-70	-43	-177	-52	0	-229	-99	-118	-79
22	1946	-63	-53	-26	-29	-42	-44	-28	-17	-100	-31	-51	-122	-51
23	1947	-84	-38	-7	-61	0	-40	-85	0	-35	-16	-57	-151	-48
24	1948	-30	-24	-26	-5	0	-41	-34	-12	-122	-31	-31	-164	-43
25	1949	-69	-31	-34	0	-25	-25	-35	-28	-57	-93	-92	-189	-57
26	1950	-83	-54	-47	0	0	-11	-31	-10	-32	0	-9	-120	-33
27	1951	-47	-18	-58	0	0	-8	-24	-46	0	-12	-41	-120	-31
28	1952	-28	-37	-23	-11	0	-41	-59	0	-119	-26	-51	-162	-47
29	1953	-72	-14	-35	-41	0	-67	-136	0	-112	-47	-64	-148	-62
30	1954	-59	-20	-19	0	0	-21	-80	0	-112	0	-53	-96	-39
31	1955	-46	-9	-27	-23	-6	-56	-151	-54	-84	-1	-8	-121	-49
32	1956	-41	-10	-1	-26	0	-50	-47	0	-91	0	-47	-162	-40
33	1957	-70	-40	-16	0	-27	-51	-32	0	-55	-49	-46	-203	-49
34	1958	-82	-27	-43	0	0	-50	-69	-29	-54	-29	-51	-156	-50
35	1959	-65	-42	-4	0	-23	-41	-41	0	-7	-10	-9	-26	-22
36	1960	-34	0	0	0	-7	-45	0	0	-18	-14	-48	-145	-26
37	1961	-68	-21	-28	-19	0	-5	-48	0	-131	-48	-47	-160	-48
38	1962	-89	-27	-31	-8	0	-52	-35	-23	-2	-51	-55	-172	-46
39	1963	-49	-30	0	0	-23	-49	-142	-38	0	-33	-64	-215	-54
40	1964	-52	-53	-35	-23	-19	-62	-119	-39	-67	-31	-54	-126	-57
41	1965	-22	-30	-10	0	-62	-8	-86	-11	-39	-15	-10	-169	-38
42	1966	-69	-25	-27	-27	0	-25	-100	-27	0	-25	-49	-145	-43
43	1967	-48	-53	-31	-15	-17	-6	-87	-31	0	0	-56	-215	-46
44	1968	-59	-41	-30	-6	0	0	-161	-9	-27	-8	-34	-71	-37

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Table 9:													
2	Federal Hydro Generation Adjustment for													
3	Stand Ready & Deployment Losses, Heavy-Load-Hours for FY 2023													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
45	1969	-30	-16	-4	-55	-19	-39	0	0	-55	-23	-36	-168	-37
46	1970	-48	-41	-47	-24	0	-41	-136	-12	-23	-122	-86	-171	-63
47	1971	-67	-53	-15	-42	0	0	-32	-8	-46	0	-19	-145	-35
48	1972	-48	-18	-15	-10	-31	0	0	-47	-9	-4	-16	-235	-35
49	1973	-70	-31	-38	-7	-3	-31	-145	-46	-50	-74	-61	-122	-57
50	1974	-55	-38	-16	0	0	-47	-60	0	0	0	-19	-123	-30
51	1975	-53	-48	-33	-28	-22	-23	-61	-10	0	0	-51	-220	-46
52	1976	-26	-23	-63	-86	-11	-2	-34	0	0	-6	-75	-30	-30
53	1977	-26	-25	-55	-30	-9	-74	-135	-40	-61	-108	-53	-135	-63
54	1978	-80	-52	-46	-40	-55	-41	-52	-44	-34	-28	-62	-74	-51
55	1979	-50	-45	-35	0	-43	-49	-68	0	-35	-93	-83	-231	-61
56	1980	-70	-33	-58	-12	-75	-60	-35	-8	-2	-52	-68	-208	-56
57	1981	-59	-12	0	0	-17	-45	-148	0	-156	0	-26	-207	-56
58	1982	-51	-40	-37	-12	0	-8	-55	0	0	-21	-34	-74	-28
59	1983	-46	-46	-15	-83	-11	-57	-86	-50	-64	0	-35	-229	-60
60	1984	-46	-23	-24	0	-12	-37	-89	-35	-52	0	-46	-182	-46
61	1985	-70	-26	-42	-21	-5	-65	-56	-4	-67	-88	-83	-282	-67
62	1986	-62	-37	-15	0	-46	-61	-46	-55	0	-52	-43	-198	-51
63	1987	-104	-39	-35	-7	-30	-46	-53	0	-63	-190	-97	-127	-66
64	1988	-70	-32	-52	-62	-82	-49	-95	-55	-47	-27	-44	-216	-69
65	1989	-62	-33	-39	-59	-108	-49	-39	0	-82	-40	-74	-175	-63
66	1990	-65	-25	-6	0	0	-22	-36	-40	0	0	-44	-119	-30
67	1991	-74	0	0	-23	0	0	-42	0	0	-13	-4	-216	-31
68	1992	-61	-50	-40	-22	-39	-35	-62	0	-59	-197	-69	-164	-66
69	1993	-47	-43	-46	-65	-129	-92	-137	0	-58	-85	-70	-150	-77
70	1994	-65	-25	-47	-49	-23	-44	-62	-27	-43	-136	-64	-162	-62
71	1995	-49	-46	-55	-30	-62	-17	-152	-28	-59	-114	-50	-152	-68
72	1996	-45	0	-118	-27	-8	0	-44	-19	-4	0	-55	-120	-37
73	1997	-49	-11	-13	-6	0	-27	0	-12	-91	-14	-20	-78	-27
74	1998	-11	-10	-37	-10	0	-45	-150	-37	-19	-34	-56	-180	-49
75	1999	-92	-60	-37	-110	-48	0	-37	-57	-119	-27	-41	-122	-62
76	2000	-71	0	0	0	0	-25	-46	0	-59	-7	-51	-190	-38
77	2001	-85	-50	-47	-39	-47	-59	-165	-84	-58	-119	-46	-122	-77
78	2002	-95	-52	-44	-51	-75	-74	-65	0	0	0	-60	-123	-53
79	2003	-49	-20	-29	-50	-42	-36	-59	-49	-1	-86	-88	-146	-54
80	2004	-64	-39	-19	-22	-35	-48	-59	-55	-28	-85	-155	-200	-68
81	2005	-43	-37	-1	0	0	-20	-131	-57	-35	-29	-104	-184	-54
82	2006	-86	-39	-26	0	-2	-24	-31	0	-46	-51	-59	-159	-44
83	2007	-79	-52	-37	-10	-5	-4	-27	0	0	-19	-72	-174	-40
84	2008	-89	-15	-35	-9	-29	-42	-133	-9	-5	-14	-42	-117	-45
85	80 WY Average	-60	-31	-34	-24	-26	-39	-77	-24	-45	-49	-54	-162	-52
86	Hours	416	400	416	400	384	432	416	400	416	400	432	400	4912

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Table 10:													
2	Federal Hydro Generation Adjustment for													
3	Stand Ready & Deployment Losses, Flat Energy for FY 2023													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
5	1929	24	-7	14	-11	-17	-28	-54	-24	-21	-84	-51	-75	-28
6	1930	-17	21	17	5	-23	-42	-41	-45	-16	-43	-22	-81	-24
7	1931	-22	21	-28	-32	-20	-4	-70	-20	-4	-9	-10	-77	-23
8	1932	-23	-7	54	-5	19	-19	-17	-5	62	-1	-7	-80	-3
9	1933	28	-33	22	-1	89	-4	-22	-18	7	321	-37	-77	23
10	1934	-22	-5	110	299	241	-2	17	180	120	-50	-25	-78	64
11	1935	-12	-11	-27	-1	85	5	-32	-14	-22	-13	-15	3	-5
12	1936	10	23	-24	-18	46	-20	-58	-2	52	-24	-21	-50	-8
13	1937	-11	-27	-35	45	28	-15	-52	-28	-21	-51	-49	-40	-21
14	1938	-6	-3	-35	-9	1	-7	-16	-14	-8	-13	-28	-40	-15
15	1939	25	-24	18	-2	-9	-19	-58	-12	-18	-57	-25	-83	-22
16	1940	-11	13	4	16	-22	-23	-27	-1	-22	-51	-24	-1	-13
17	1941	15	16	-23	-3	6	3	-58	-9	-41	-51	-19	-28	-16
18	1942	-34	-8	5	-14	-6	-15	-38	-25	10	-11	0	-46	-15
19	1943	7	-7	3	21	81	-5	-14	7	5	-5	-23	-61	0
20	1944	-48	-28	-27	32	-2	-15	-71	-22	-47	-17	-16	-57	-26
21	1945	-23	28	26	-25	-43	21	-59	-20	-4	-73	-49	5	-18
22	1946	-16	-23	22	-15	-12	-19	-29	74	100	-7	-11	-4	5
23	1947	-40	1	-23	4	122	16	-23	-16	5	-26	6	-31	-1
24	1948	-20	0	17	0	88	-19	-15	4	-3	-18	-18	-41	-3
25	1949	-5	24	26	-1	-9	12	-24	8	-11	-17	-2	-46	-4
26	1950	-43	-24	-29	-1	88	-7	-22	-18	11	317	-13	1	21
27	1951	-11	-8	9	366	100	-3	-9	13	-5	260	-26	6	58
28	1952	3	-22	11	9	82	-21	-52	-4	-5	-21	-13	-33	-6
29	1953	-38	7	25	-10	138	-15	-66	-14	-5	7	-13	-30	-2
30	1954	9	38	-3	16	87	-3	-24	82	185	312	120	-56	64
31	1955	-23	-13	29	-21	-7	-23	-54	-10	-5	298	-12	-1	14
32	1956	-12	-14	-11	146	129	21	-15	4	-4	85	-7	-33	24
33	1957	-17	3	-18	-13	-7	-21	-19	12	4	-11	3	-55	-12
34	1958	-43	-10	2	-2	76	-23	-26	9	159	-9	-14	-34	6
35	1959	-15	-25	-18	74	137	7	-19	-18	0	271	-13	-36	28
36	1960	-3	-5	5	-6	34	-19	-7	-14	-9	-33	-22	-29	-9
37	1961	12	16	-14	9	66	-12	-25	57	-12	-14	-23	-35	2
38	1962	-46	-10	-1	-7	86	-20	-24	5	-6	-55	-20	-44	-13
39	1963	-13	-16	-13	-2	89	-32	-62	-13	3	-19	-2	-76	-14
40	1964	-9	1	-19	-4	-15	-26	-36	1	2	308	-4	-30	15
41	1965	8	-16	-26	204	39	-10	-20	115	-16	-30	-14	-36	17
42	1966	-1	-7	-24	2	19	1	-17	21	-7	-16	-47	-29	-9
43	1967	-13	12	8	9	93	-4	-17	0	12	183	-16	-75	16
44	1968	26	-25	-15	1	75	-4	-67	-7	53	-13	-23	-15	-2

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Table 10:													
2	Federal Hydro Generation Adjustment for													
3	Stand Ready & Deployment Losses, Flat Energy for FY 2023													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
45	1969	-1	-10	-18	52	97	-10	-15	1	8	-17	-34	-42	0
46	1970	-17	-25	-29	-2	85	-17	-66	-4	9	-22	-47	-38	-15
47	1971	-16	-23	18	100	36	-9	-23	-6	1	5	-19	-28	3
48	1972	-23	17	-17	95	50	135	-16	-1	1	228	-24	-85	30
49	1973	-11	0	-22	-4	-13	-7	-43	-14	-22	-12	-22	-4	-14
50	1974	-13	-15	-14	306	245	-14	-4	-13	-3	313	-18	-28	61
51	1975	-15	-12	24	4	10	-17	-59	-18	4	44	-18	-77	-11
52	1976	16	17	58	110	80	12	-17	5	-6	222	240	-29	59
53	1977	-11	21	-35	-16	3	38	-57	-15	-26	-48	-11	-19	-15
54	1978	-42	-21	17	-23	-35	-16	-46	9	-12	-17	-18	-9	-18
55	1979	-22	-29	26	-8	-21	-23	-51	-12	-23	-19	-27	-80	-24
56	1980	-8	-27	-30	-10	-18	-28	-16	21	0	-56	-23	-57	-21
57	1981	-3	30	6	1	94	-24	-56	-18	56	46	-17	-74	3
58	1982	-10	-18	-21	2	12	52	-25	-11	0	266	-19	-17	18
59	1983	-22	-18	-17	27	66	105	-21	-22	-12	167	-12	-82	13
60	1984	35	16	-7	7	91	79	-26	-13	33	-11	-29	-45	10
61	1985	-27	-8	-24	-19	-6	-23	-55	-18	-19	-29	4	-92	-26
62	1986	-18	-23	-17	-9	61	148	-20	-8	-6	-57	-24	-50	-2
63	1987	-49	-3	-19	-6	-3	-25	-47	-1	-9	-62	-26	-15	-22
64	1988	-26	25	-21	-40	46	-12	-51	-38	-20	-7	-21	-73	-20
65	1989	-16	-27	-22	-10	-38	-23	-19	-15	-15	-25	-21	-40	-23
66	1990	-26	-7	-20	0	87	0	-17	2	201	17	-17	4	18
67	1991	-39	-12	-7	-1	114	-8	-21	-9	-6	291	-10	-61	19
68	1992	35	-28	-17	-20	-17	-20	-54	-16	-28	-65	-23	-37	-24
69	1993	75	-3	-29	-21	64	-31	-65	-16	-28	-1	-25	-27	-9
70	1994	-15	23	-30	16	-4	-18	-54	19	-18	-51	-23	-44	-17
71	1995	-33	-24	-35	-16	-28	-12	-52	-20	36	-49	-22	-31	-24
72	1996	-19	-4	327	313	28	225	-18	0	-9	248	-19	1	91
73	1997	-17	27	-16	144	205	74	-19	-2	-5	290	-28	-15	53
74	1998	-6	-9	-21	-8	76	-23	-64	-1	2	-19	-14	-42	-11
75	1999	-47	-16	-21	122	77	13	-17	-9	-4	318	28	-2	37
76	2000	-22	-6	-4	-4	36	-4	-15	-17	-42	-13	-13	-47	-13
77	2001	-44	-28	4	-22	12	-10	-71	-18	-50	-45	-26	-3	-25
78	2002	-45	-21	-25	-28	-21	-29	-24	-9	197	-5	-13	-6	-3
79	2003	-33	21	19	-14	-19	-20	-51	-21	-6	-8	-22	-24	-15
80	2004	-13	-7	-5	-5	-20	-15	-58	-37	-16	-2	-63	-52	-24
81	2005	-21	-23	-16	-14	78	-4	-54	-21	-6	-10	-51	-46	-16
82	2006	-44	-15	-23	-3	147	-7	-24	-12	79	-3	-21	-31	2
83	2007	-39	-22	-21	2	-6	-10	-4	-15	-3	-11	-19	-39	-16
84	2008	-45	9	25	-7	-17	-16	-52	-6	-2	-17	-16	3	-12
85	80 WY Average	-14	-5	-1	26	45	0	-35	-2	9	41	-15	-39	1
86	Hours	744	721	744	744	672	743	720	744	720	744	744	720	8760

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
	Table 11:													
1	Value of PS Wind Generation at Expected Wind Generation for FY 2022													
2														
3														
4														
5		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
6	Expected Generation (aMW)	39	55	42	23	37	43	71	61	61	59	38	43	48
7	Contract Prices (\$/MWh)	\$ 84.31	\$ 77.67	\$ 82.30	\$ 102.31	\$ 88.88	\$ 83.09	\$ 75.11	\$ 84.45	\$ 79.16	\$ 79.01	\$ 87.34	\$ 85.74	\$ 84.13
8														
9	Power Purchase Costs for Expected Wind Generation (\$1,000)													
10														
11		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
12	Expected Wind Generation Cost (\$000)	\$ 2,420	\$ 3,096	\$ 2,580	\$ 1,716	\$ 2,227	\$ 2,647	\$ 3,818	\$ 3,850	\$ 3,453	\$ 3,481	\$ 2,500	\$ 2,631	\$ 34,418
13														
14														
15	Average, Median, 5th Percentile, and 95th Percentile Spot Market Electricity Prices Estimated by AURORA (\$/MWh)													
16														
17		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
18	5%	\$ 18.70	\$ 21.57	\$ 25.83	\$ 16.36	\$ 16.28	\$ 6.02	\$ 4.77	\$ -	\$ -	\$ 10.25	\$ 20.92	\$ 20.73	\$ 18.56
19	50%	\$ 28.81	\$ 30.28	\$ 35.85	\$ 31.68	\$ 32.62	\$ 28.90	\$ 23.50	\$ 16.60	\$ 14.13	\$ 31.36	\$ 33.14	\$ 29.23	\$ 28.05
20	Average	\$ 29.24	\$ 30.61	\$ 36.40	\$ 31.33	\$ 32.34	\$ 27.54	\$ 22.58	\$ 15.49	\$ 14.16	\$ 30.74	\$ 33.77	\$ 29.57	\$ 27.82
21	95%	\$ 41.31	\$ 40.96	\$ 49.09	\$ 44.75	\$ 45.88	\$ 39.48	\$ 35.76	\$ 27.79	\$ 30.43	\$ 49.29	\$ 48.12	\$ 39.56	\$ 36.19
22														
23	Revenues from Expected Wind Generation at Various AURORA Price Percentiles (\$1,000)													
24														
25		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
26	5%	\$ 537	\$ 860	\$ 810	\$ 274	\$ 408	\$ 192	\$ 242	\$ -	\$ -	\$ 452	\$ 599	\$ 636	\$ 7,738
27	50%	\$ 827	\$ 1,207	\$ 1,124	\$ 531	\$ 817	\$ 920	\$ 1,194	\$ 757	\$ 616	\$ 1,382	\$ 949	\$ 897	\$ 11,699
28	Average	\$ 839	\$ 1,220	\$ 1,141	\$ 525	\$ 810	\$ 877	\$ 1,148	\$ 706	\$ 617	\$ 1,354	\$ 966	\$ 907	\$ 11,599
29	95%	\$ 1,186	\$ 1,633	\$ 1,539	\$ 750	\$ 1,150	\$ 1,257	\$ 1,818	\$ 1,267	\$ 1,327	\$ 2,172	\$ 1,377	\$ 1,214	\$ 15,090

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
	Table 12:													
1	Value of PS Wind Generation at Expected Wind Generation for FY 2023													
2														
3														
4														
5		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
6	Expected Generation (aMW)	25	36	28	15	24	28	46	45	45	44	28	31	33
7	Contract Prices (\$/MWh)	\$ 114.30	\$ 97.74	\$ 109.30	\$ 157.21	\$ 123.70	\$ 109.24	\$ 89.34	\$ 89.00	\$ 90.49	\$ 90.15	\$ 108.60	\$ 105.06	\$ 107.00
8														
9	Power Purchase Costs for Expected Wind Generation (\$1,000)													
10														
11		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
12	Expected Wind Generation Cost (\$000)	\$ 2,149	\$ 2,552	\$ 2,245	\$ 1,727	\$ 2,030	\$ 2,280	\$ 2,975	\$ 2,994	\$ 2,912	\$ 2,931	\$ 2,294	\$ 2,379	\$ 29,467
13														
14														
15	Average, Median, 5th Percentile, and 95th Percentile Spot Market Electricity Prices Estimated by AURORA (\$/MWh)													
16														
17		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
18	5%	\$ 17.92	\$ 21.00	\$ 23.95	\$ 13.97	\$ 14.06	\$ 3.03	\$ 3.10	\$ -	\$ -	\$ 7.39	\$ 18.21	\$ 19.37	\$ 17.22
19	50%	\$ 28.64	\$ 30.15	\$ 34.72	\$ 29.94	\$ 32.26	\$ 30.24	\$ 23.81	\$ 17.91	\$ 14.88	\$ 29.29	\$ 29.80	\$ 27.17	\$ 27.27
20	Average	\$ 29.14	\$ 30.52	\$ 35.20	\$ 29.45	\$ 31.67	\$ 28.32	\$ 23.15	\$ 17.07	\$ 14.63	\$ 28.62	\$ 30.41	\$ 27.45	\$ 27.13
21	95%	\$ 41.84	\$ 41.03	\$ 48.07	\$ 42.58	\$ 45.74	\$ 41.54	\$ 38.69	\$ 30.36	\$ 32.43	\$ 46.54	\$ 44.45	\$ 36.47	\$ 36.11
22														
23	Revenues from Expected Wind Generation at Various AURORA Price Percentiles (\$1,000)													
24														
25		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
26	5%	\$ 337	\$ 548	\$ 492	\$ 153	\$ 231	\$ 63	\$ 103	\$ -	\$ -	\$ 240	\$ 385	\$ 439	\$ 4,980
27	50%	\$ 538	\$ 787	\$ 713	\$ 329	\$ 529	\$ 631	\$ 793	\$ 602	\$ 479	\$ 952	\$ 629	\$ 615	\$ 7,884
28	Average	\$ 548	\$ 797	\$ 723	\$ 324	\$ 520	\$ 591	\$ 771	\$ 574	\$ 471	\$ 930	\$ 642	\$ 622	\$ 7,845
29	95%	\$ 787	\$ 1,071	\$ 987	\$ 468	\$ 751	\$ 867	\$ 1,288	\$ 1,021	\$ 1,044	\$ 1,513	\$ 939	\$ 826	\$ 10,439

	A	B	C	D	E	F	G
1	Table 13:						
2	4(h)(10)(C) Credits (\$ Million) for FY 2022 and FY 2023						
3	Fiscal Year	Purchase Expense	Direct Expense	Pisces	Capital	%	Credit
4	2022	\$ 132	\$ 248	\$ -	43.0	22.3%	\$ 94.2
5	2023	\$ 132	\$ 247	\$ -	43.0	22.3%	\$ 94.2

	A	B	C	D	E
1	Table 14:				
2	Augmentation Power Purchases for FY 2022 and FY 2023				
3	Average Annual Price for WY 1937 from Risk Analysis				
4	Used for Rate Calculations				
5					
6	FY	MW	Hours	\$/MWh	Exp. (\$ 000)
7	2022	0	8,760	34.48	\$ -
8	2023	0	8,760	34.17	\$ -

	A	B	C	D	E
1	Table 15:				
2	Firm Surplus Power Sale for FY 2022 and FY 2023				
3	Firm Surplus Price				
4	Used for Rate Calculations				
5					
6	FY	MW	Hours	\$/MWh	Rev. (\$ 000)
7	2022	152	8,760	32.13	\$ 42,638
8	2023	20	8,760	30.73	\$ 5,456

Tables 16 and 17 are not used in this study.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
	Table 18:													
	Monthly Secondary Energy Sales and Revenues for FY 2022 and FY2023													
1														
2														
3														
4	<u>Secondary Energy Sales and Revenues for FY 2022</u>													
5		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
6	Hours	744	721	744	744	672	743	720	744	720	744	744	720	8,760
7	Surplus Energy Sales (aMW)	374	955	993	2,270	2,618	1,997	1,410	3,075	3,665	2,499	1,424	596	1,818
8	Secondary Energy Sales Revenues	\$ 6,606	\$ 20,151	\$ 24,469	\$ 49,422	\$ 50,005	\$ 32,530	\$ 15,326	\$ 29,387	\$ 29,378	\$ 52,327	\$ 34,109	\$ 11,723	\$ 355,433
9														
10	Forward Sales (aMW)	206	206	206	0	0	0	0	0	0	0	0	0	52
11	Forward Sales Revenue (\$000)	\$6,797	\$6,635	\$6,929	\$1,527	\$1,527	\$1,527	\$1,527	\$1,527	\$1,527	\$1,527	\$1,527	\$1,527	\$34,103
12														
13	DSI TF Sales Revenue (\$000)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
14														
15	Extra Regional Sales Revenue Delta (\$000)	\$298	\$679	\$734	\$1,944	\$1,944	\$2,056	\$1,560	\$2,966	\$5,306	\$4,313	\$2,539	\$1,000	\$25,339
16														
17	Total Net Secondary Sales	\$ 13,702	\$ 27,464	\$ 32,132	\$ 52,893	\$ 53,476	\$ 36,113	\$ 18,413	\$ 33,880	\$ 36,211	\$ 58,167	\$ 38,175	\$ 14,250	\$ 414,876
18														
19	<u>Secondary Energy Sales and Revenues for FY 2023</u>													
20														
21		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
22	Hours	744	721	744	744	672	743	720	744	720	744	744	720	8760
23	Surplus Energy Sales (aMW)	528	1,173	1,224	2,334	2,593	1,958	1,413	2,599	3,349	2,556	1,466	647	1,815
24	Secondary Energy Sales Revenues	\$ 9,495	\$ 24,615	\$ 29,958	\$ 46,263	\$ 47,979	\$ 31,491	\$ 14,012	\$ 25,580	\$ 24,997	\$ 48,898	\$ 31,921	\$ 11,736	\$ 346,946
25														
26	Forward Sales (aMW)	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Forward Sales Revenue (\$000)	\$1,527	\$1,527	\$1,527	\$1,527	\$1,527	\$1,527	\$1,527	\$1,527	\$1,527	\$1,527	\$1,527	\$1,527	\$18,324
28														
29	DSI TF Sales Revenue (\$000)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
30														
31	Extra Regional Sales Revenue Delta (\$000)	\$456	\$927	\$891	\$2,161	\$2,019	\$2,228	\$1,748	\$2,858	\$5,937	\$5,225	\$2,714	\$1,027	\$28,193
32														
33	Total Net Secondary Sales	\$ 11,478	\$ 27,069	\$ 32,376	\$ 49,951	\$ 51,526	\$ 35,246	\$ 17,287	\$ 29,965	\$ 32,462	\$ 55,650	\$ 36,162	\$ 14,291	\$ 393,462

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
	Table 19:													
	Monthly Power Purchases and Expenses for FY 2022 and FY 2023													
1														
2														
3														
4	Power Purchases and Expenses for FY 2022													
5		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
6	Monthly Hours	744	721	744	744	672	743	720	744	720	744	744	720	8,760
7	Balancing Power Purchases (aMW)	282	55	165	217	142	52	186	24	15	93	103	69	117
8	Balancing Power Purchases Expenses (\$000)	\$ 6,264	\$ 1,252	\$ 4,701	\$ 5,445	\$ 3,795	\$ 1,278	\$ 4,179	\$ 418	\$ 248	\$ 2,146	\$ 2,472	\$ 1,584	\$ 33,783
9														
10	Transmission re-dispatch for Gen Inputs adjustment	\$ 31	\$ 31	\$ 31	\$ 31	\$ 31	\$ 31	\$ 31	\$ 31	\$ 31	\$ 31	\$ 31	\$ 31	\$ 370
11														
12	SILS Forward Power Purchases (aMW)	-	38	135	110	73	38	-	-	-	-	-	-	33
13	SILS Forward Power Purchases Expenses (\$000)	\$ -	\$ 803	\$ 3,573	\$ 2,500	\$ 1,504	\$ 734	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,114
14														
15	Total Power Purchases (aMW)	282	92	300	327	215	91	186	24	15	93	103	69	150
16	Total Power Purchases Expenses (\$000)	\$ 6,295	\$ 2,086	\$ 8,305	\$ 7,976	\$ 5,329	\$ 2,044	\$ 4,210	\$ 449	\$ 279	\$ 2,177	\$ 2,502	\$ 1,614	\$ 43,266
17														
18														
19	Power Purchases and Expenses for FY 2023													
20														
21		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
22	Monthly Hours	744	721	744	744	672	743	720	744	720	744	744	720	8,760
23	Balancing Power Purchases (aMW)	166	21	152	150	135	49	193	57	48	86	90	63	101
24	Balancing Power Purchases Expenses (\$000)	\$ 3,872	\$ 512	\$ 4,133	\$ 3,765	\$ 3,478	\$ 1,308	\$ 4,693	\$ 1,118	\$ 877	\$ 1,893	\$ 1,916	\$ 1,360	\$ 28,925
25														
26														
27														
28	Transmission re-dispatch for Gen Inputs adjustment	\$ 31	\$ 31	\$ 31	\$ 31	\$ 31	\$ 31	\$ 31	\$ 31	\$ 31	\$ 31	\$ 31	\$ 31	\$ 370
29														
30	SILS Forward Power Purchases (aMW)	-	38	135	110	73	38	-	-	-	-	-	-	33
31	SILS Forward Power Purchases Expenses (\$000)	\$ -	\$ 796	\$ 3,475	\$ 2,312	\$ 1,469	\$ 742	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,793
32														
33	Total Power Purchases (aMW)	166	59	287	260	208	88	193	57	48	86	90	63	133
34	Total Power Purchases Expenses (\$000)	\$ 3,903	\$ 1,339	\$ 7,638	\$ 6,107	\$ 4,977	\$ 2,081	\$ 4,724	\$ 1,149	\$ 908	\$ 1,924	\$ 1,947	\$ 1,391	\$ 38,088

	A	B	C
1	Table 20:		
	Annual Secondary Energy Sales/Revenues and Power Purchases/Expenses for FY 2022 and FY 2023		
2		FY 2022	FY 2023
3	Annual Hours	8,760	8,760
4	Secondary Energy Sales (aMW)	1,818	1,815
5	Secondary Energy Revenues (\$000)	\$ 355,433	\$ 346,946
6	Forward Power Sales (aMW)	52	0
7	Forward Sales Revenue (\$000)	\$ 34,103	\$ 18,324
8			
9	DSI TF Sales Revenue (\$000)	\$ -	
10			
11	Extra Regional Sales Revenue Delta (\$000)	\$ 25,339	\$ 28,193
12			
13	Total Power Sales (aMW)	1,870	1,815
14	Total Power Sales Revenue (\$000)	\$ 414,876	\$ 393,462
15			
16	Balancing Power Purchases (aMW)	117	101
17	Balancing Power Purchases Expenses (\$000)	\$ 33,783	\$ 28,925
18	Transmission Re-dispatch for Gen Inputs Adjustment (\$000)	\$ 370	\$ 370
19	SILS Power Purchases (aMW)	33	33
20	SILS Power Purchases Expenses (\$000)	\$ 9,114	\$ 8,793
21			
22	Total Power Purchases (aMW)	150	133
23	Total Power Purchases Expenses (\$000)	\$ 43,266	\$ 38,088

**Table 21:
Power Net Revenue to Cash Adjustments (\$000)**

	A	B	C	D
		FY21	FY22	FY23
1	Net Revenue	\$ 155,675	\$ 136,383	\$ 97,467
2	Non-cash Adj.	\$ 480,438	\$ 487,197	\$ 482,271
3	Cash Adj.	\$ (622,434)	\$ (554,243)	\$ (584,922)
4	Other	\$ -	\$ -	\$ -
5	Accrual to Cash Adj.	\$ (141,996)	\$ (67,046)	\$ (102,651)
6	Cash Flow	\$ 13,679	\$ 69,337	\$ (5,184)

**Table 22:
Transmission Net Revenue to Cash Adjustments (\$000)**

	A	B	C	D
		FY21	FY22	FY23
1	Net Revenue	\$ (15,340)	\$ 40,023	\$ 40,012
2	Non-cash Adj.	\$ 329,238	\$ 331,197	\$ 335,318
3	Cash Adj.	\$ (418,217)	\$ (371,220)	\$ (375,330)
4	Other	\$ -	\$ -	\$ -
5	Accrual to Cash Adj.	\$ (88,979)	\$ (40,023)	\$ (40,012)
6	Cash Flow	\$ (104,319)	\$ 0	\$ (0)

Figure 1: Simulated Total PS Wind Generation for FY 2022-2023

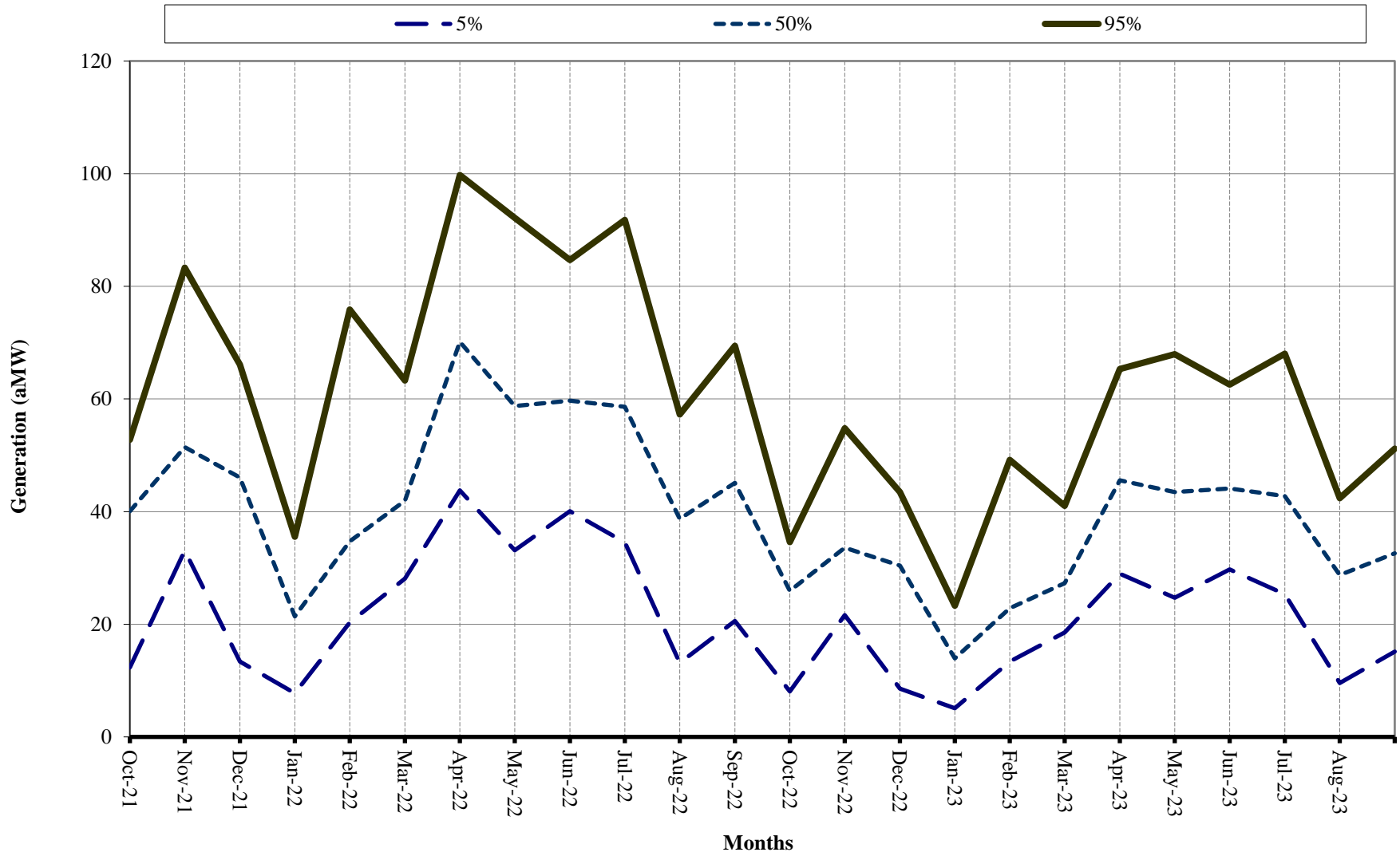


Figure 2: PS Transmission & Ancillary Services Expenses by Amount of Surplus Energy Sales for FY 2022

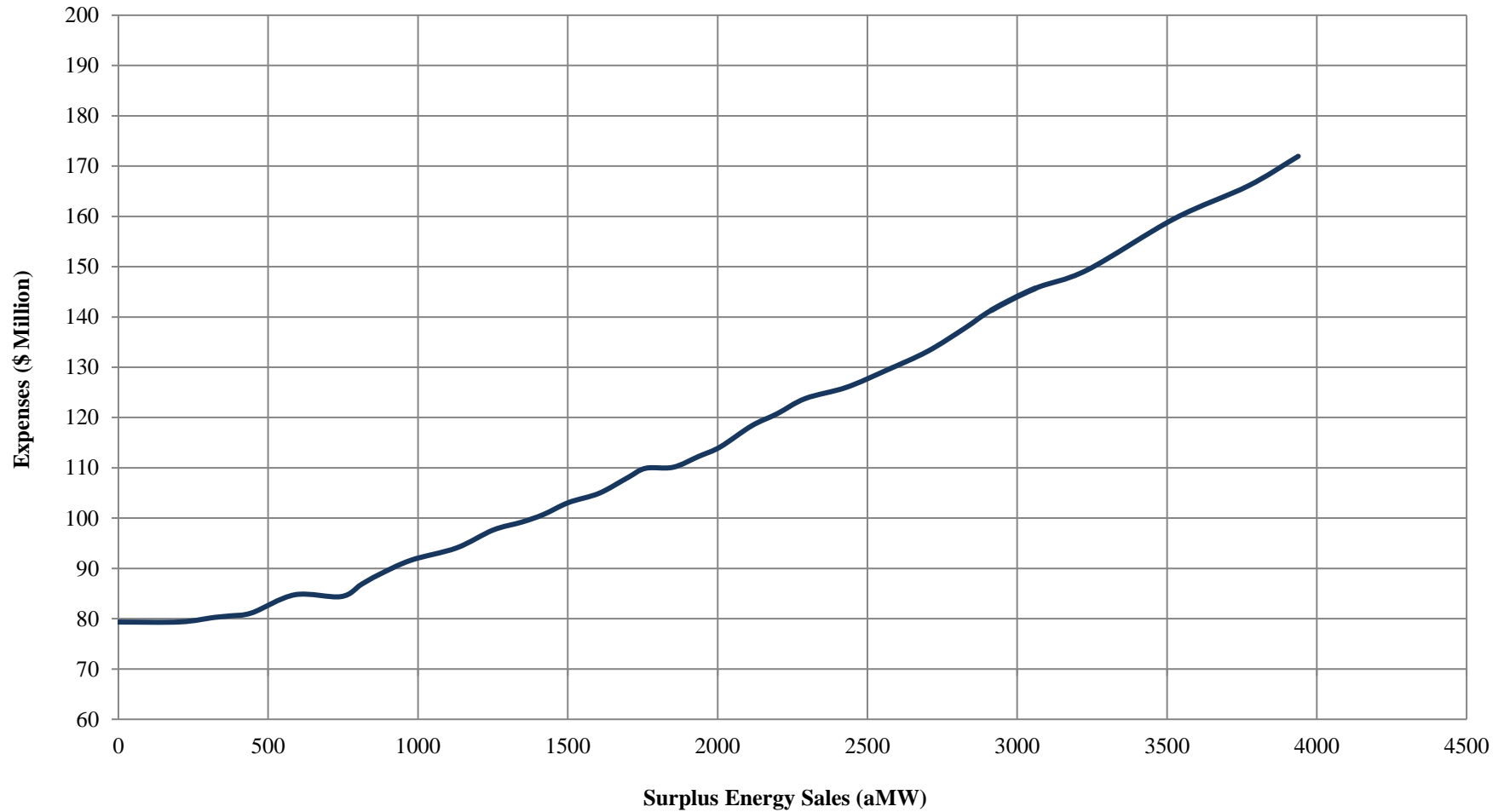


Figure 3: PS Transmission & Ancillary Services Expenses by Amount of Surplus Energy Sales for FY 2023

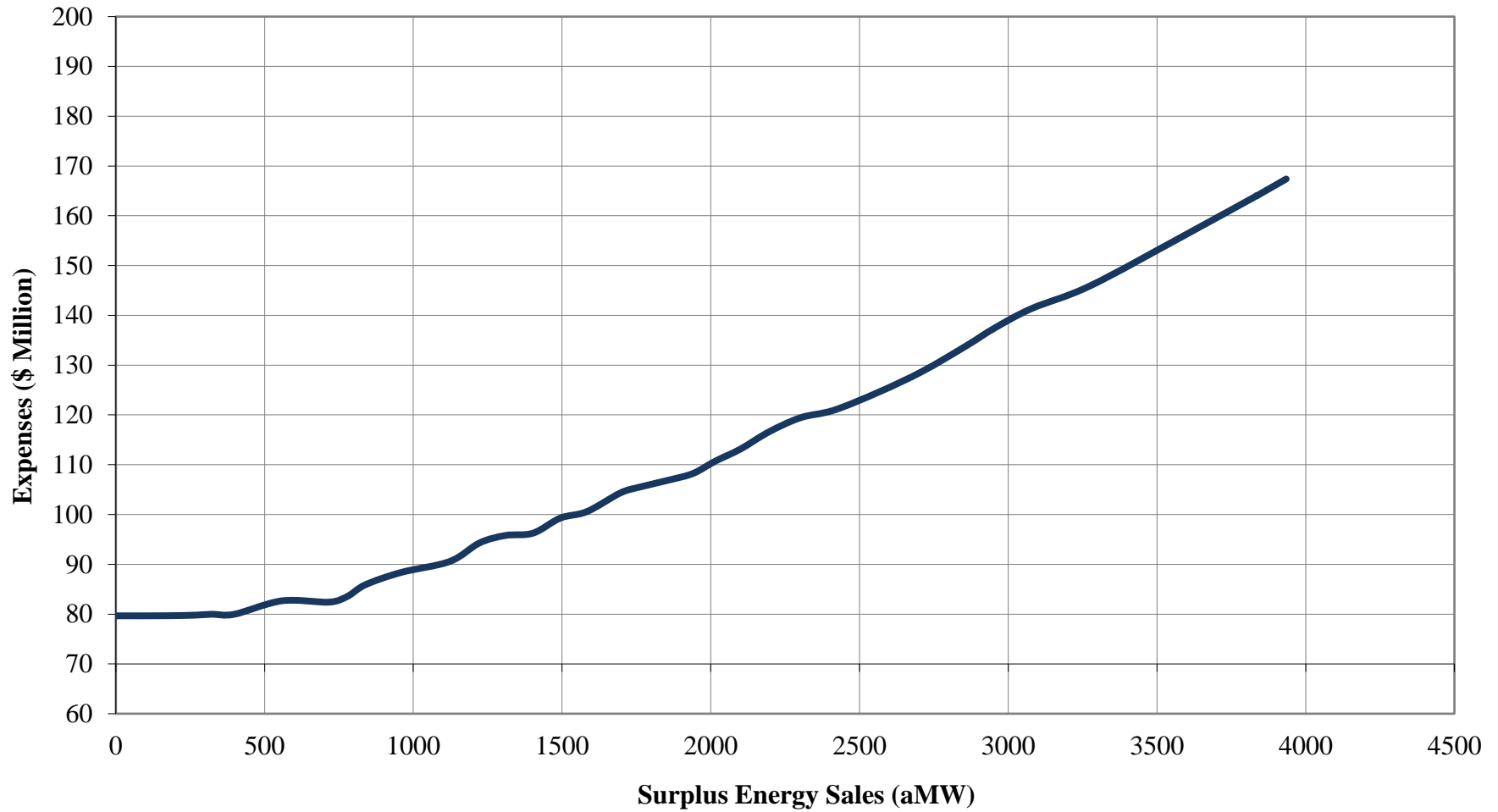


Figure 4: PS Transmission and Ancillary Service Expense Distribution for FY 2022

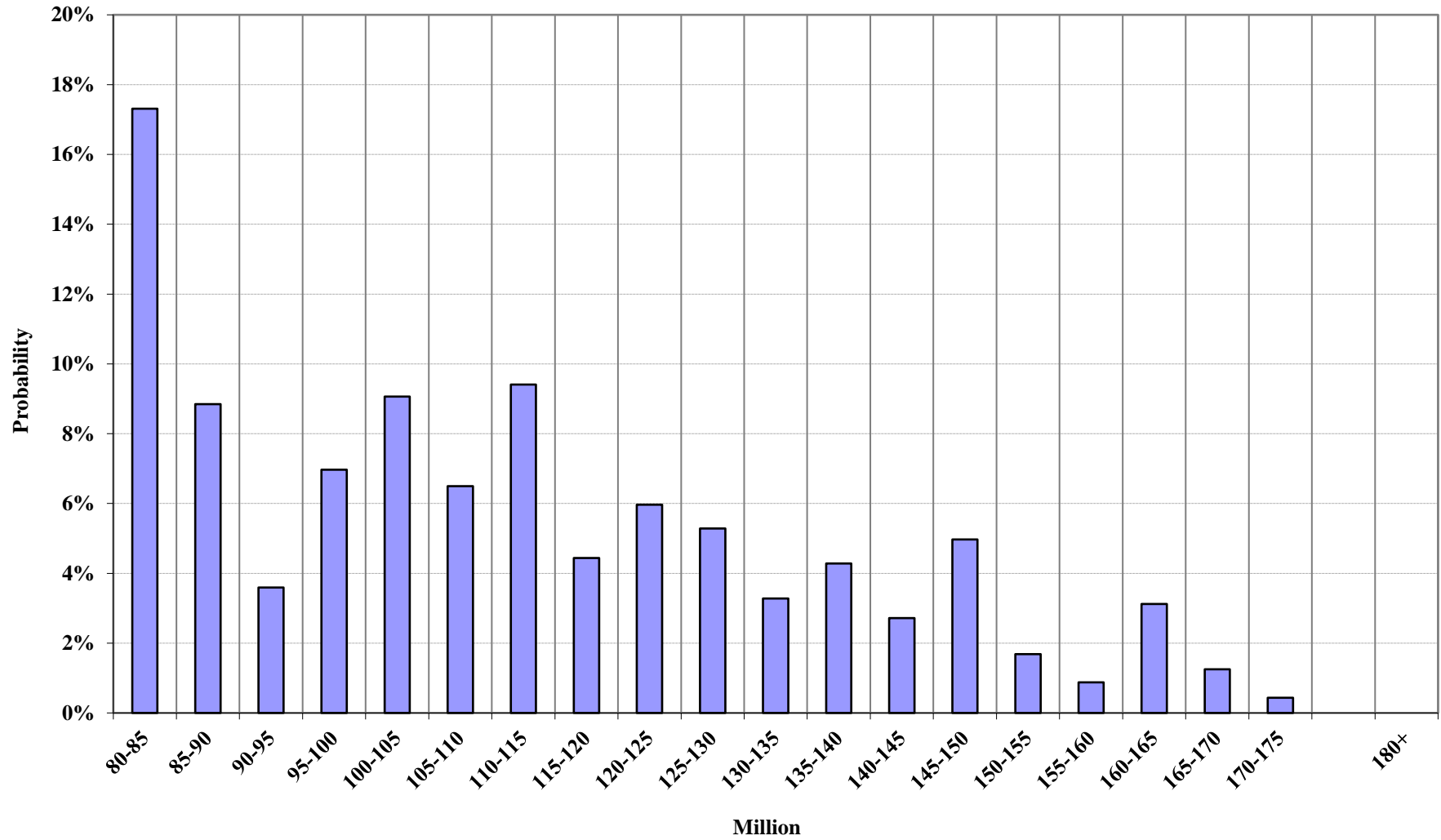


Figure 5: PS Transmission and Ancillary Service Expense Distribution for FY 2023

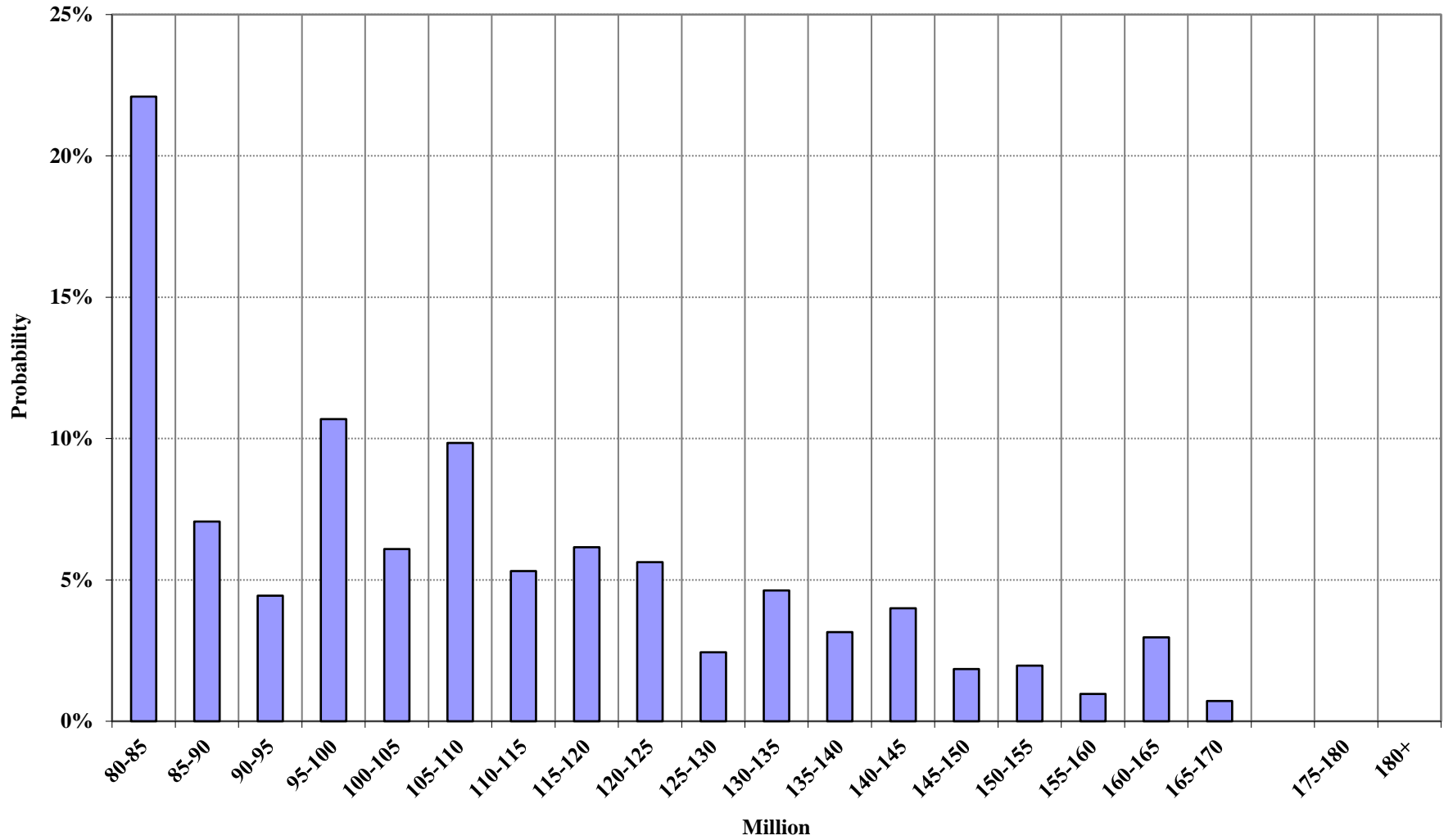


Figure 6: 4(h)(10)(C) Credits Distribution for FY 2022

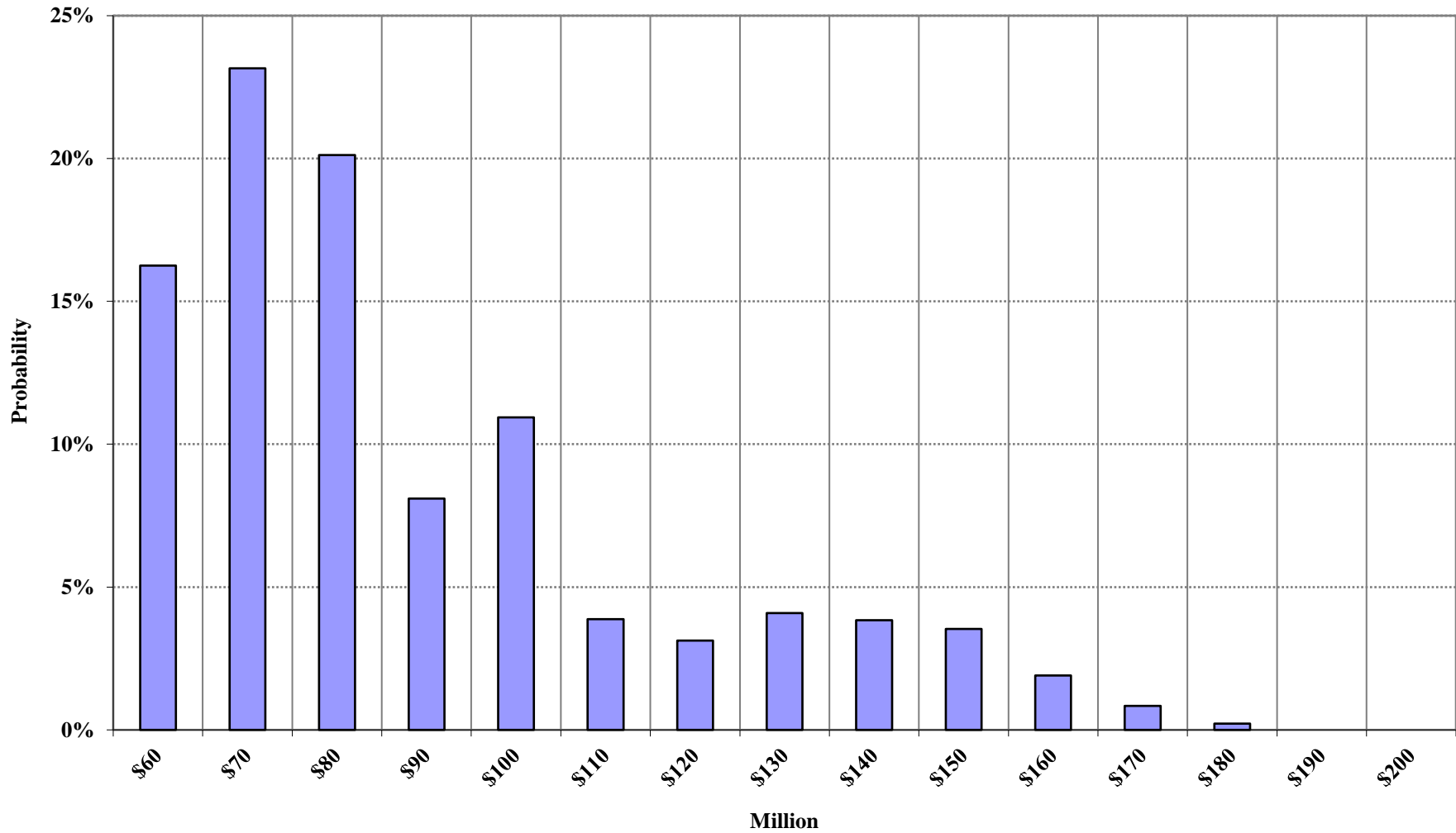
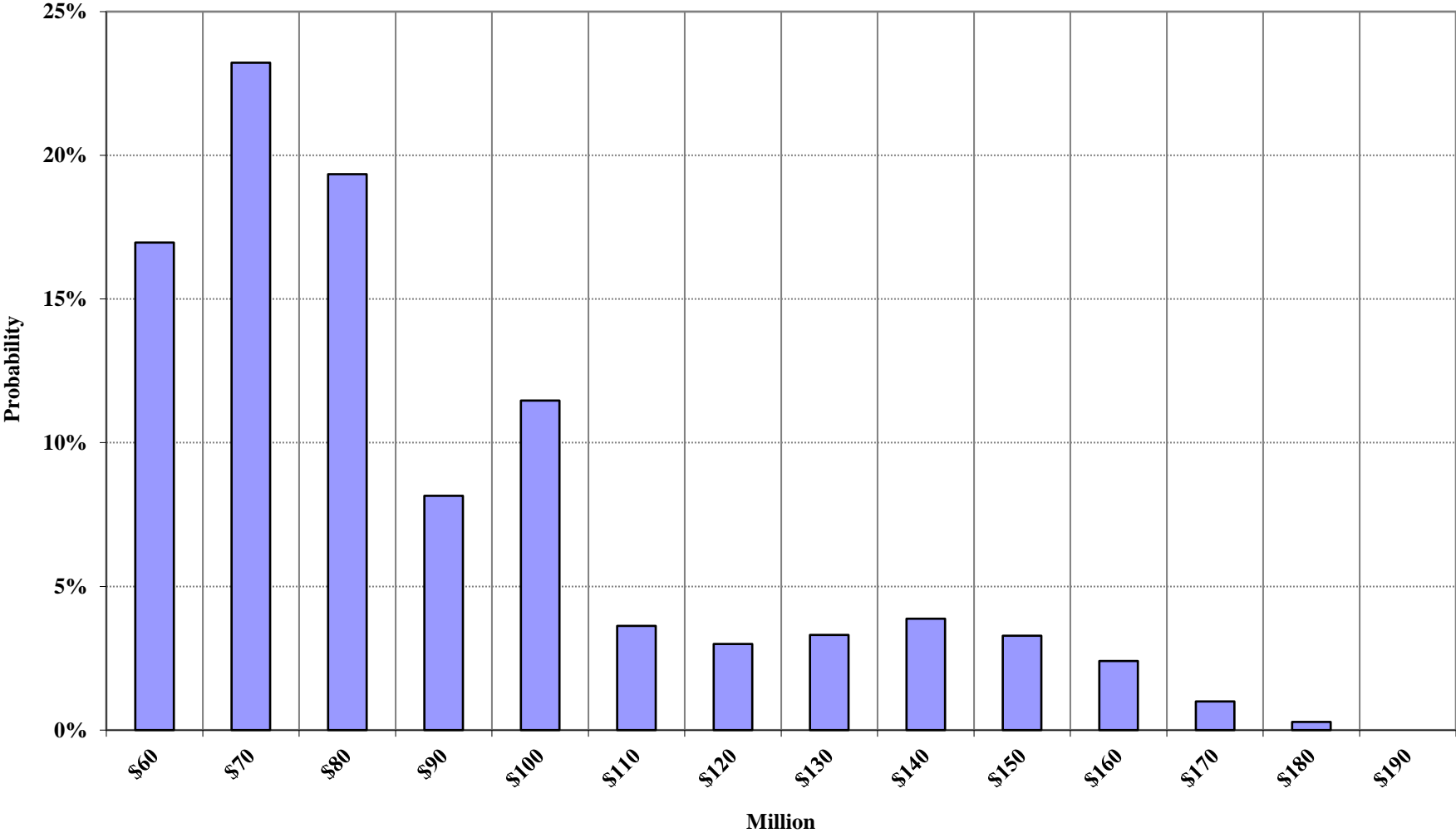
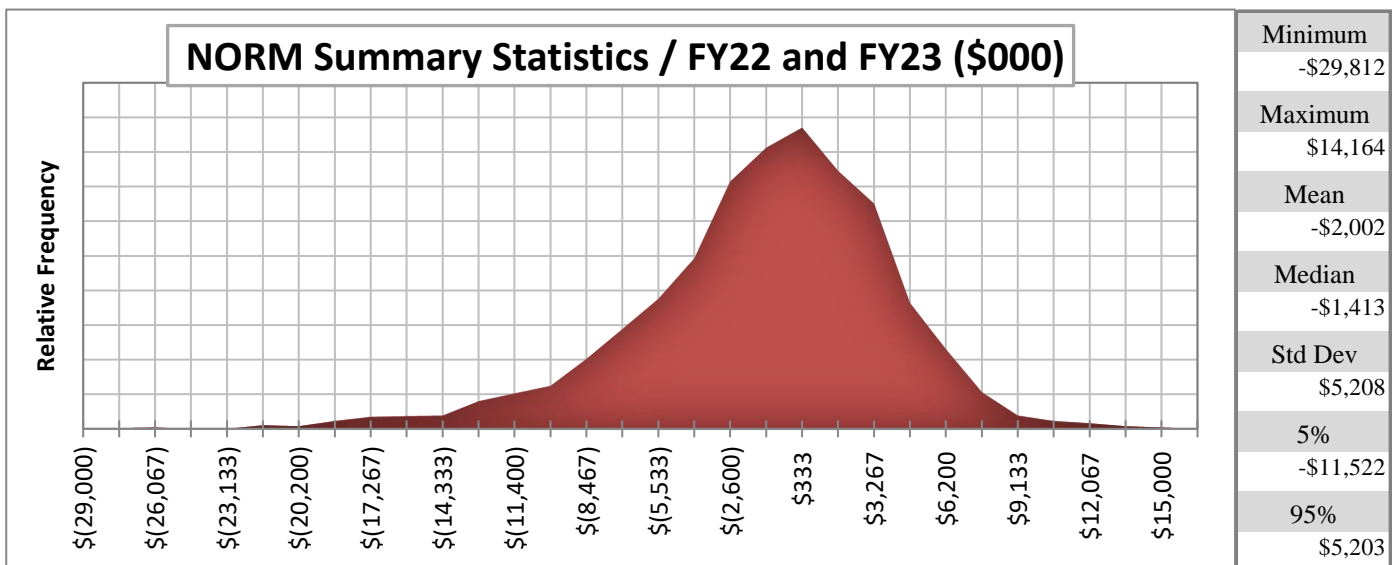
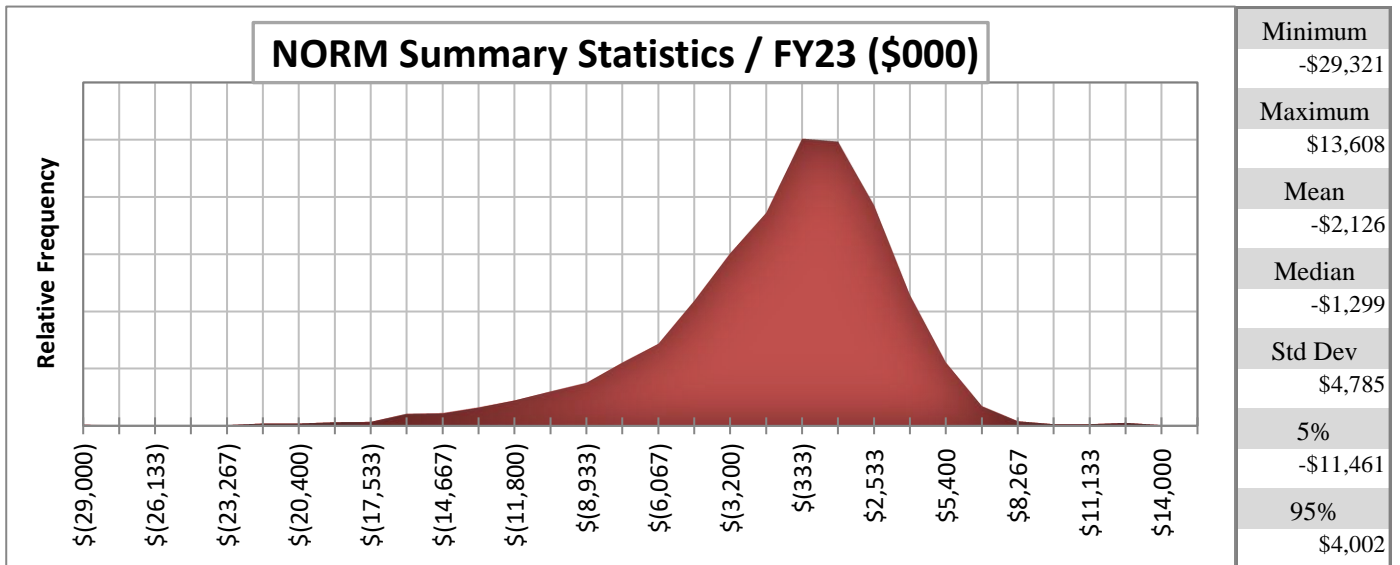
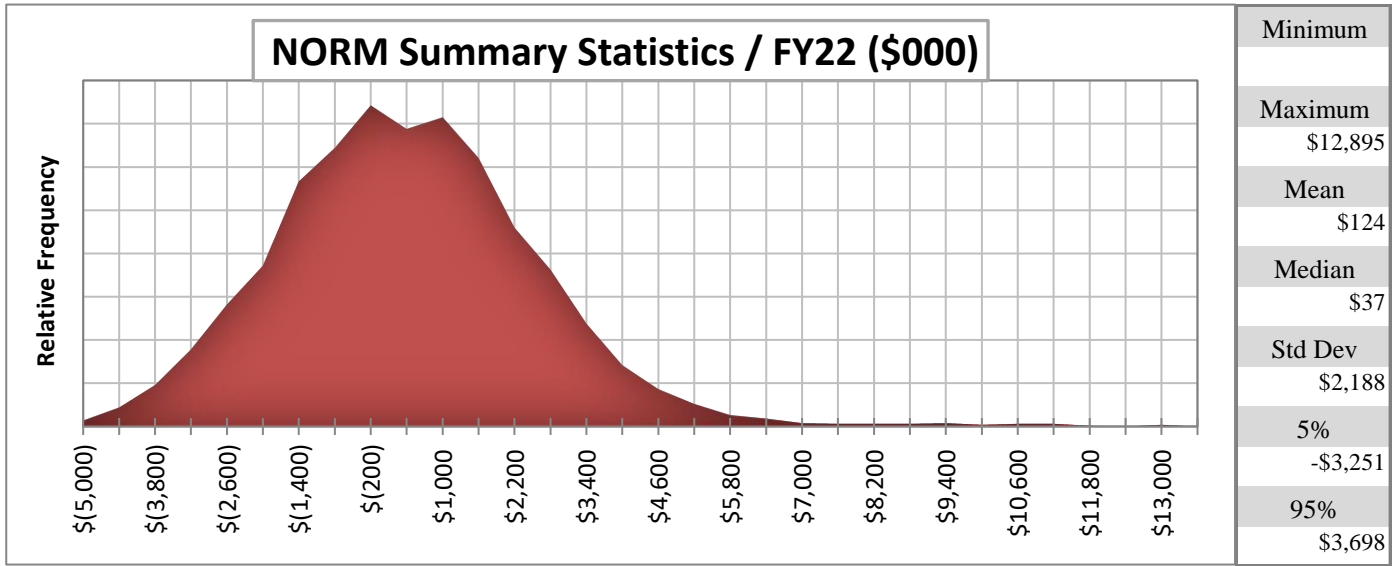


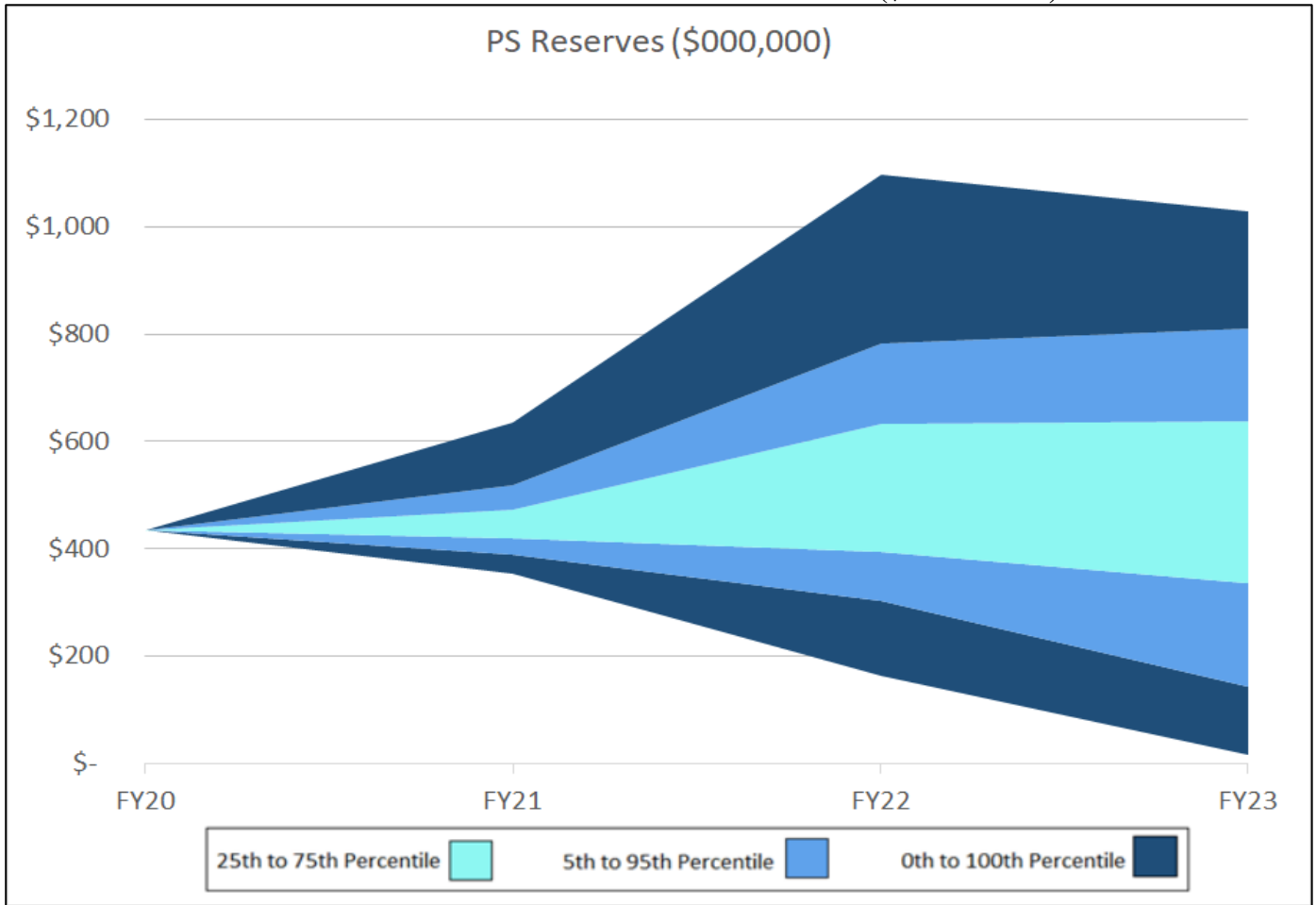
Figure 7: 4(h)(10)(C) Credits Distribution for FY 2023



**Figure 8:
P-NORM Output Summary Distributions**



**Figure 9:
Power Services End of Year Financial Reserves (\$ in Millions)**



**Figure 10:
Power Services ToolKit Inputs**

ToolKitXL_BP22IP

12/16/2020

Static and starting Inputs

	PS	TS	
Starting RFR	435.3	272.3	StartRFR
Borrowing Liquidity	750	0	BorrowGross
Agency Liquidity Reliance	0	0	AgencyReli
Agency Liquidity Provided	0	0	AgencyProv
W/in Year Liquidity Borrowing Level	320	0	WinYrBorrow
W/in Year Liquidity RFR Level	0	100	WinYrRFR
De Minimis Threshold	5		DeMin

Input cells are highlighted in yellow.

To update input Monte Carlo simulation data, modify the "P_RM_Input.xls", "P_NORM_Input.xls", and "T_NORM_Input.xls" files. Model results update in realtime.

Annual Inputs

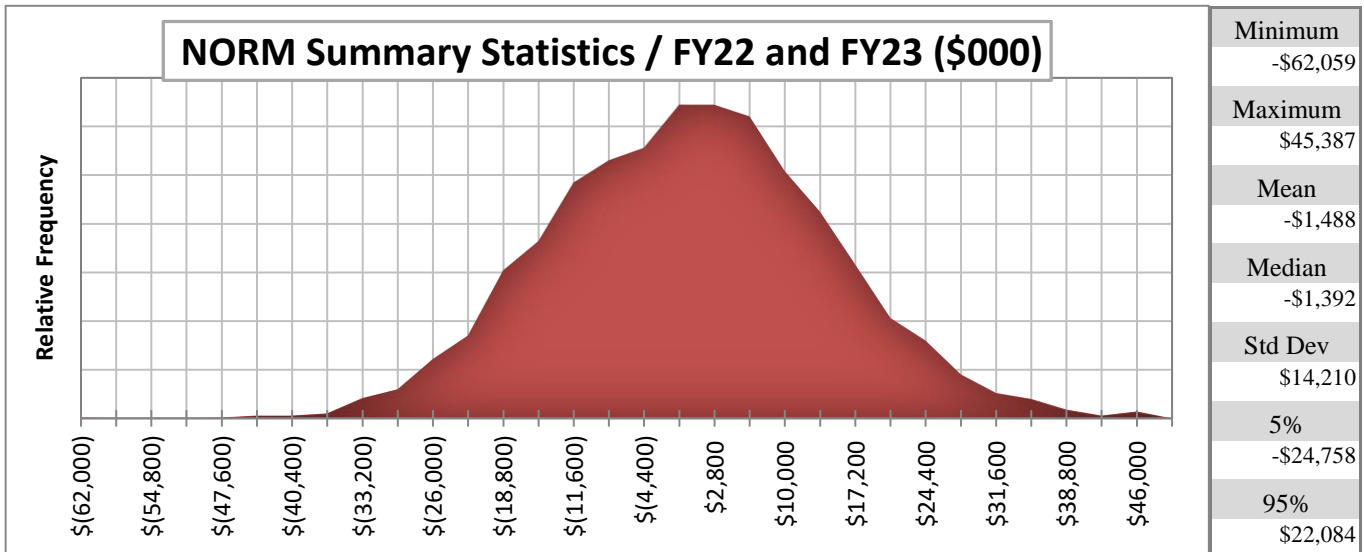
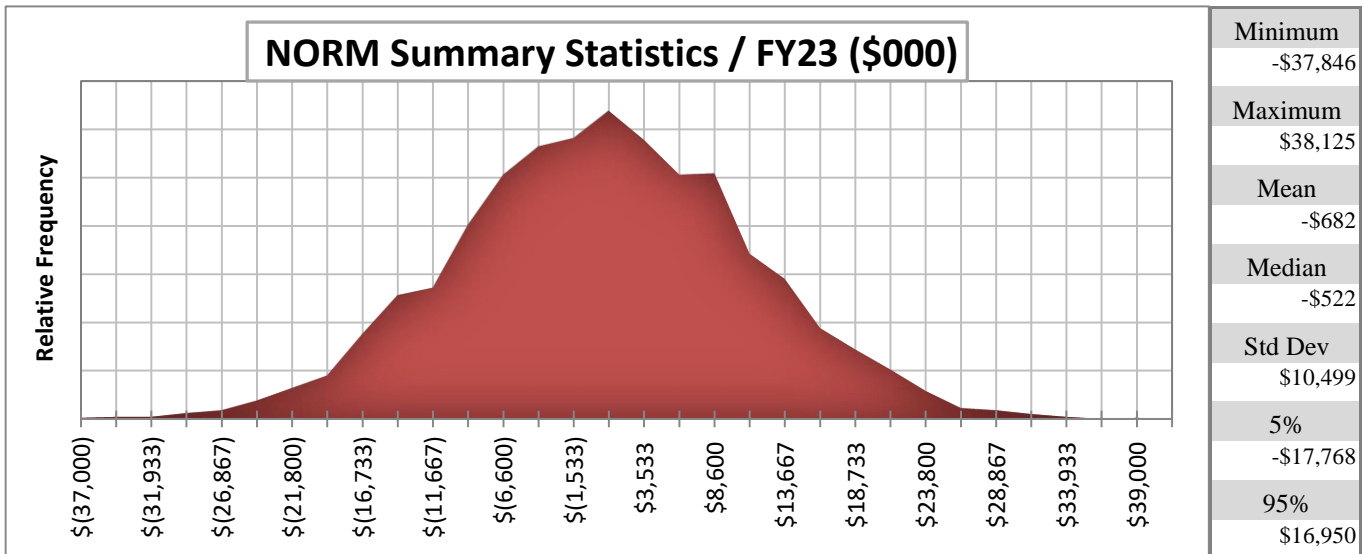
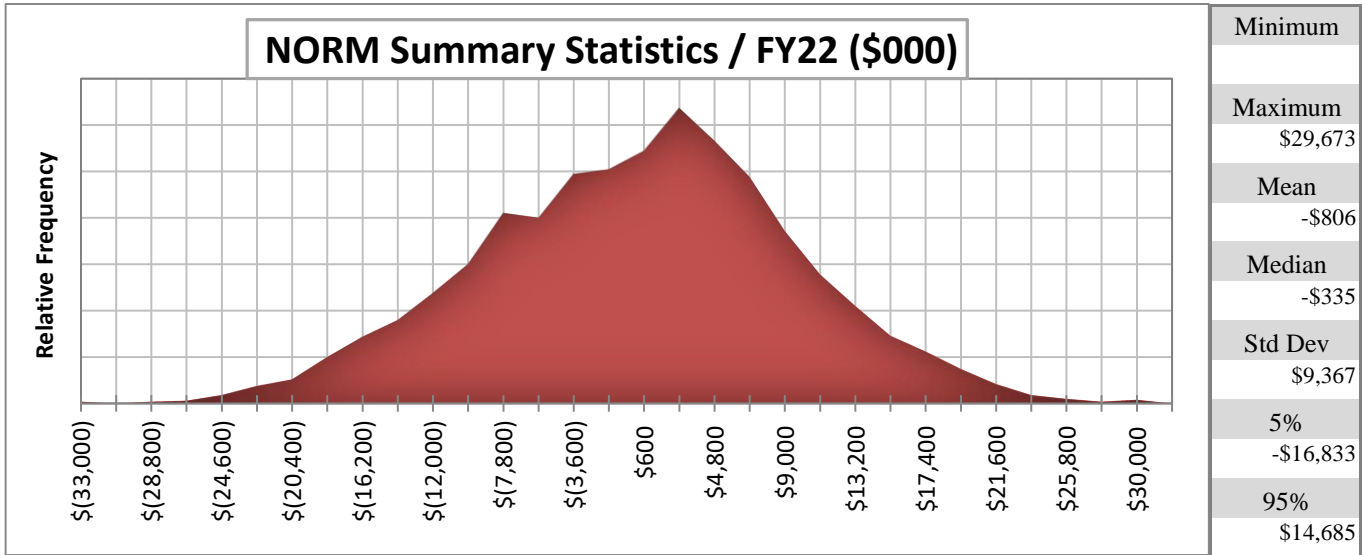
	PS_FY22	PS_FY23	TS_FY22	TS_FY23	
PNRR	0	0	0	0	PNRR
CRAC Threshold	0	0	0	0	CRAC_T
CRAC CAP	300	300	100	100	CRAC_C
FRPS Threshold	302	302	105	105	FRPS_T
FRPS CAP	40	40	15	15	FRPS_C
RDC Threshold	604	604	210	210	RDC_T
FRPS Agency Threshold	611	611	611	611	RDC_TA
RDC CAP	500	500	200	200	RDC_C
Revenue Financing	30	31	40	40	RevFin

Summary Results

	PS FY21	PS FY22	PS FY23	TS FY21	TS FY22	TS FY23
Two-Year TPP	NA	>99.9%		NA	99.5%	
PNRR for TPP*		\$0	\$0		\$0	\$0
CRAC Frequency		0%	0%			0%
Expected Value (EV) CRAC Revenue		\$0	\$0		\$0	\$0
RDC Frequency		0%	30%		1%	4%
EV RDC		\$0	\$31		\$0	\$1
FRP Surcharge Frequency		0%	4%		0%	0%
EV Surcharge Revenue		\$0	\$1		\$0	\$0
Revenue Financing Adjustment		\$2	\$6		\$0	\$2
Treasury Deferral Frequency		0.0%	0.0%		0.0%	0.0%
EV Treasury Deferral	\$0	\$0	\$0	\$0	\$0	\$0
EV End of Year Financial Reserves	\$448	\$520	\$488	\$166	\$165	\$165
Financial Reserves, 5th percentile	\$389	\$302	\$142	\$136	\$115	\$105
Financial Reserves, 25th percentile	\$419	\$393	\$334	\$153	\$143	\$132
Financial Reserves, 50th percentile	\$445	\$515	\$498	\$165	\$164	\$163
Financial Reserves, 75th percentile	\$472	\$632	\$637	\$178	\$185	\$191
Financial Reserves, 95th percentile	\$518	\$784	\$810	\$199	\$218	\$236
Probability Reserves Fall below \$0	0%	0%	0%	0%	0%	0%

*\$31 million in PNRR from settlement is embedded in Power Net Revenue

**Figure 11:
T-NORM Output Summary Distributions**



**Figure 12:
Transmission Services End of Year Financial Reserves (\$ in Millions)**

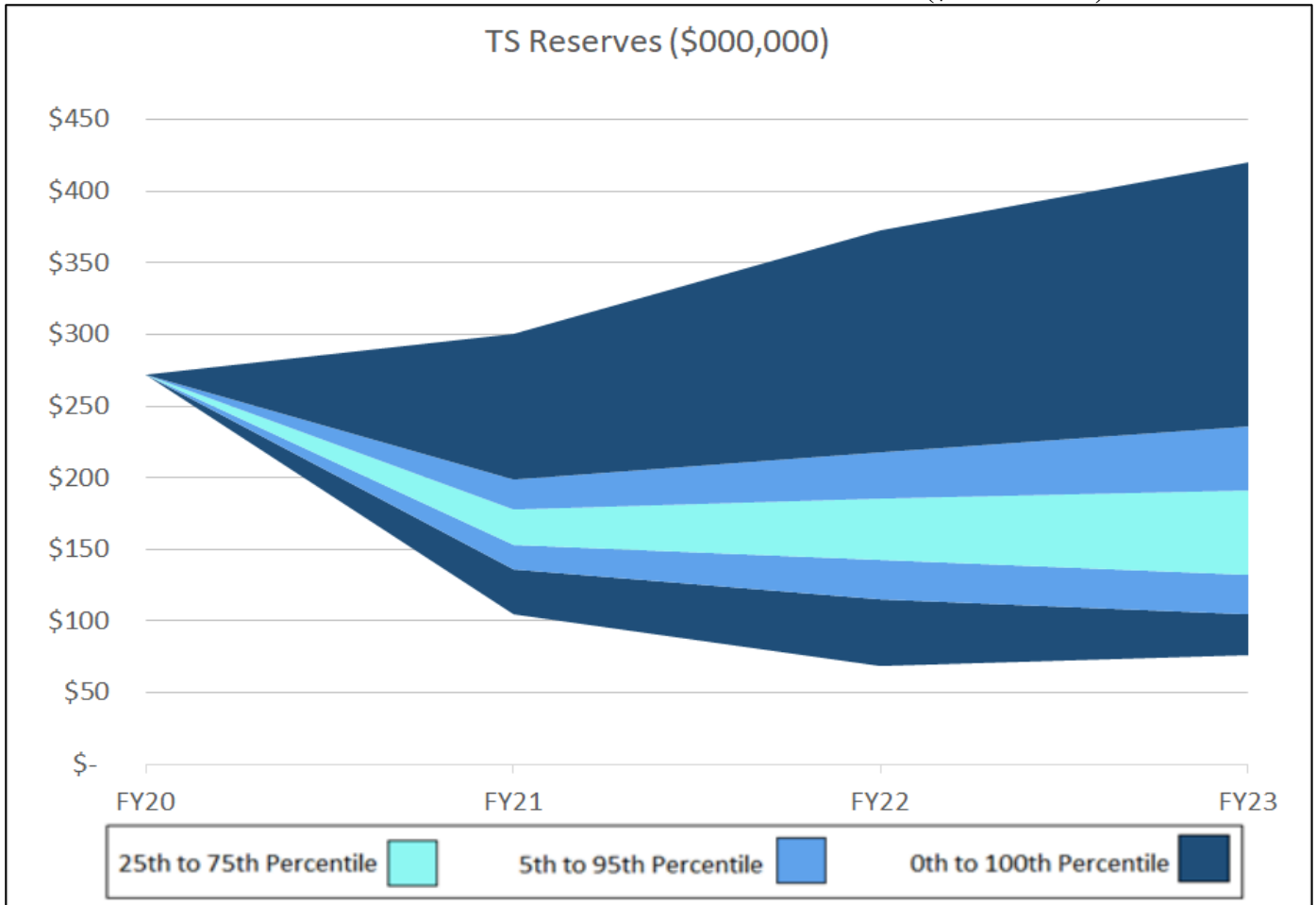


Figure 13:

Transmission Services ToolKit Inputs

ToolKitXL_BP22IP

12/16/2020

Static and starting Inputs

	PS	TS	
Starting RFR	435.3	272.3	StartRFR
Borrowing Liquidity	750	0	BorrowGross
Agency Liquidity Reliance	0	0	AgencyReli
Agency Liquidity Provided	0	0	AgencyProv
W/in Year Liquidity Borrowing Level	320	0	WinYrBorrow
W/in Year Liquidity RFR Level	0	100	WinYrRFR
De Minimis Threshold	5		DeMin

Input cells are highlighted in yellow.

To update input Monte Carlo simulation data, modify the "P_RM_Input.xls", P_NORM_Input.xls", and T_NORM_Input.xls" files. Model results update in realtime.

Annual Inputs

	PS_FY22	PS_FY23	TS_FY22	TS_FY23	
PNRR	0	0	0	0	PNRR
CRAC Threshold	0	0	0	0	CRAC_T
CRAC CAP	300	300	100	100	CRAC_C
FRPS Threshold	302	302	105	105	FRPS_T
FRPS CAP	40	40	15	15	FRPS_C
RDC Threshold	604	604	210	210	RDC_T
FRPS Agency Threshold	611	611	611	611	RDC_TA
RDC CAP	500	500	200	200	RDC_C
Revenue Financing	30	31	40	40	RevFin

Summary Results

	PS FY21	PS FY22	PS FY23	TS FY21	TS FY22	TS FY23
Two-Year TPP		>99.9%			99.5%	
PNRR for TPP*		\$0	\$0		\$0	\$0
CRAC Frequency		0%	0%		0%	0%
Expected Value (EV) CRAC Revenue		\$0	\$0		\$0	\$0
RDC Frequency	NA	0%	30%	NA	1%	4%
EV RDC		\$0	\$31		\$0	\$1
FRP Surcharge Frequency		0%	4%		0%	0%
EV Surcharge Revenue		\$0	\$1		\$0	\$0
Revenue Financing Adjustment		\$2	\$6		\$0	\$2
Treasury Deferral Frequency	0.0%	0.0%	0.0%	0.0%	0.1%	0.4%
EV Treasury Deferral	\$0	\$0	\$0	\$0	\$0	\$0
EV End of Year Financial Reserves	\$448	\$520	\$488	\$166	\$165	\$165
Financial Reserves, 5th percentile	\$389	\$302	\$142	\$136	\$115	\$105
Financial Reserves, 25th percentile	\$419	\$393	\$334	\$153	\$143	\$132
Financial Reserves, 50th percentile	\$445	\$515	\$498	\$165	\$164	\$163
Financial Reserves, 75th percentile	\$472	\$632	\$637	\$178	\$185	\$191
Financial Reserves, 95th percentile	\$518	\$784	\$810	\$199	\$218	\$236
Probability Reserves Fall below \$0	0%	0%	0%	0%	0%	0%

*\$31 million in PNRR from settlement is embedded in Power Net Revenue

