

BP-24 Rate Proceeding

Final Proposal

Power and Transmission Risk Study Documentation

BP-24-FS-BPA-05A

July2023



POWER AND TRANSMISSION RISK STUDY DOCUMENTATION

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COMMONLY USED ACRONYMS AND SHORT FORMS

AAC	Anticipated Accumulation of Cash
ACNR	Accumulated Calibrated Net Revenue
ACS	Ancillary and Control Area Services
AF	Advance Funding
AFUDC	Allowance for Funds Used During Construction
AGC	automatic generation control
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
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
GI	generation imbalance
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)
HYDSIM	Hydrosystem Simulator (computer model)
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
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
MO	market operator
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)
NWPA	Northwest Power Act/Pacific Northwest Electric Power Planning and Conservation Act
NWPP	Northwest Power Pool
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
OATT	Open Access Transmission Tariff
O&M	operations and maintenance
OATI	Open Access Technology International, Inc.
ODE	Over Delivery Event
OS	oversupply
OY	operating year (August through July)
P10	tenth percentile of a given dataset
PDCI	Pacific DC Intertie
PF	Priority Firm Power
PFp	Priority Firm Public
PFx	Priority Firm Exchange
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)
RAS	Remedial Action Scheme
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
RRHL	Regional Residual Hydro Load
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
SCADA	Supervisory Control and Data Acquisition
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
UDE	Under Delivery Event
UFE	unaccounted for energy
UFT	Use of Facilities Transmission
UIC	Unauthorized Increase Charge
UIE	Uninstructed Imbalance Energy
ULS	Unanticipated Load Service
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
WPP	Western Power Pool
WRAP	Western Resource Adequacy Program
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 2024													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
5	1989	5,114	7,240	7,943	8,010	6,000	8,115	9,108	9,322	8,314	7,182	6,654	5,942	7,417
6	1990	5,597	7,983	9,184	10,363	12,010	8,484	8,597	8,909	11,410	9,578	9,027	6,131	8,927
7	1991	5,388	9,950	9,891	11,998	12,450	10,083	8,265	9,351	10,810	11,603	9,373	5,930	9,585
8	1992	5,522	7,395	6,748	8,148	8,222	6,539	5,912	8,728	7,292	6,316	6,502	6,016	6,941
9	1993	5,073	7,136	7,229	7,019	5,299	7,331	5,795	10,128	9,384	8,060	7,231	6,577	7,198
10	1994	5,600	7,289	7,291	7,049	6,961	6,657	6,456	8,241	7,505	6,902	6,350	6,049	6,862
11	1995	5,321	7,047	7,645	8,328	8,987	10,243	6,507	8,722	11,036	9,447	7,425	6,678	8,114
12	1996	6,849	10,628	14,522	15,053	14,733	14,182	10,468	10,530	11,943	12,511	9,507	6,418	11,444
13	1997	5,902	7,919	10,072	15,174	14,501	13,145	11,751	13,222	13,975	12,909	10,229	7,779	11,375
14	1998	8,733	9,224	8,650	9,957	10,975	8,659	6,747	12,083	11,443	9,981	8,096	6,465	9,250
15	1999	5,604	6,804	9,100	13,516	12,353	13,679	9,419	9,638	12,010	12,643	10,715	6,368	10,158
16	2000	5,678	9,526	10,607	11,391	10,738	10,085	9,662	9,547	8,743	8,347	7,353	5,912	8,961
17	2001	5,606	6,978	6,939	7,260	7,460	6,355	4,497	6,584	6,593	6,629	6,585	5,681	6,430
18	2002	5,013	6,583	7,768	7,580	7,127	7,398	8,596	9,129	11,604	10,901	7,395	6,003	7,926
19	2003	5,529	7,420	7,090	7,446	7,810	9,141	7,568	8,261	10,604	6,900	6,173	5,804	7,473
20	2004	5,309	8,035	8,532	8,023	6,705	7,270	6,770	8,354	9,363	7,428	6,495	6,234	7,378
21	2005	6,390	7,993	9,572	9,559	10,629	7,606	5,491	7,787	8,764	8,479	6,753	6,050	7,917
22	2006	5,059	7,967	8,536	11,774	12,839	9,177	9,822	11,577	10,589	9,245	6,585	5,861	9,071
23	2007	5,316	7,597	8,675	11,193	9,069	11,765	8,410	9,072	9,385	8,462	6,365	5,543	8,408
24	2008	5,290	7,690	7,333	9,063	8,332	8,013	5,901	10,090	12,848	10,375	8,187	6,324	8,288
25	2009	5,536	7,563	7,320	10,496	8,245	6,712	9,038	9,332	9,315	7,319	5,985	5,927	7,727
26	2010	5,449	7,136	7,748	7,268	6,963	6,177	5,494	6,623	11,422	9,225	6,789	6,217	7,207
27	2011	5,339	6,910	9,293	12,045	12,830	10,704	10,365	11,141	14,300	14,699	10,064	6,518	10,346
28	2012	6,067	7,740	8,318	10,165	10,338	10,997	12,401	11,329	12,738	13,149	10,043	6,105	9,949
29	2013	5,632	8,917	10,768	9,706	8,671	7,260	9,690	10,081	10,605	9,623	7,276	6,418	8,719
30	2014	5,751	7,262	7,269	10,476	7,156	11,525	9,929	10,252	10,612	10,067	7,956	6,245	8,718
31	2015	5,421	8,856	10,562	11,652	12,276	12,320	7,298	6,984	7,037	6,158	6,222	5,602	8,357
32	2016	5,380	6,951	8,052	8,796	7,131	11,569	10,424	9,588	8,507	7,101	6,908	6,140	8,051
33	2017	5,324	9,513	8,908	11,358	10,953	14,898	12,567	13,119	12,661	8,907	8,770	5,923	10,238
34	2018	5,469	6,481	8,750	12,337	12,797	11,202	9,512	12,611	10,953	8,182	7,288	5,634	9,261
35	30 WY Average	5,642	7,858	8,677	10,074	9,685	9,576	8,415	9,678	10,392	9,278	7,677	6,150	8,590
36	Hours	744	721	744	744	696	743	720	744	720	744	744	720	8,784

	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 2025													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
5	1989	5,116	6,904	7,945	8,013	6,002	8,437	9,021	9,314	8,606	7,052	6,656	5,945	7,427
6	1990	5,598	7,999	9,186	10,368	12,069	8,410	9,188	8,466	11,447	9,583	9,359	6,134	8,962
7	1991	5,388	9,770	9,869	11,979	12,555	10,033	8,513	8,880	11,037	11,364	9,448	5,932	9,548
8	1992	5,527	7,400	6,750	8,150	8,225	6,543	5,887	7,369	8,897	6,317	6,503	6,018	6,954
9	1993	5,070	7,133	7,231	7,107	5,296	7,320	5,783	9,677	8,978	9,156	7,212	6,579	7,229
10	1994	5,599	7,291	7,293	7,052	6,963	6,659	6,315	7,285	8,742	6,904	6,351	6,051	6,872
11	1995	5,324	7,048	7,647	8,332	8,990	10,202	6,376	8,786	11,221	9,486	7,396	6,681	8,120
12	1996	6,852	10,573	14,631	15,377	14,719	14,086	10,688	10,357	12,285	12,796	9,585	6,421	11,521
13	1997	5,899	7,913	10,065	15,101	15,288	12,958	12,289	14,123	14,599	13,067	10,300	7,788	11,596
14	1998	8,636	9,133	8,654	10,045	10,885	8,664	6,777	12,319	10,801	9,989	8,893	6,468	9,269
15	1999	5,607	6,805	9,103	13,632	12,407	13,544	9,864	9,138	12,154	12,650	10,783	6,370	10,167
16	2000	5,675	9,413	10,563	11,383	10,744	10,078	9,601	9,459	9,190	8,349	7,354	5,914	8,967
17	2001	5,608	6,983	6,941	7,262	7,462	6,358	4,505	6,300	6,968	6,631	6,587	5,684	6,437
18	2002	5,013	6,584	7,770	7,584	7,130	7,396	8,621	8,675	11,777	10,896	7,910	6,005	7,950
19	2003	5,530	7,424	7,093	7,535	7,713	9,133	7,386	8,125	10,930	6,902	6,175	5,805	7,473
20	2004	5,309	8,020	8,534	8,025	6,707	7,271	6,898	7,840	9,787	7,432	6,497	6,237	7,382
21	2005	6,393	7,982	9,574	9,563	10,627	7,634	5,670	7,676	8,698	8,481	6,755	6,052	7,912
22	2006	5,059	7,969	8,538	11,775	12,996	9,147	9,780	11,583	10,926	9,194	6,528	5,863	9,087
23	2007	5,318	7,608	8,677	11,187	9,073	11,791	9,199	8,840	9,358	8,060	6,367	5,545	8,418
24	2008	5,290	7,693	7,335	9,066	8,334	8,012	6,215	10,012	12,840	10,382	8,211	6,326	8,310
25	2009	5,535	7,559	7,322	10,486	8,247	6,708	8,747	9,051	9,671	7,320	5,987	5,928	7,706
26	2010	5,450	7,139	7,751	7,271	6,965	6,179	5,779	6,585	11,350	9,226	6,657	6,219	7,212
27	2011	5,338	6,912	9,295	12,040	13,055	10,672	10,317	10,901	14,415	15,463	10,394	6,521	10,432
28	2012	6,067	7,743	8,321	10,249	10,247	10,960	12,898	10,574	13,457	13,977	10,088	6,107	10,055
29	2013	5,632	8,857	10,724	9,709	8,674	7,290	9,685	9,583	11,265	9,627	7,278	6,420	8,726
30	2014	5,751	7,264	7,272	10,467	7,149	11,491	9,905	10,350	10,692	10,073	8,565	6,247	8,784
31	2015	5,422	8,776	10,517	11,708	12,392	12,279	7,253	6,490	7,721	6,160	6,224	5,604	8,357
32	2016	5,382	6,961	8,054	8,799	7,135	11,564	11,673	9,171	8,922	6,564	6,371	6,142	8,065
33	2017	5,323	9,335	8,910	11,194	11,131	14,676	12,976	12,934	13,039	8,904	8,290	5,924	10,210
34	2018	5,471	6,482	8,754	12,354	13,004	11,138	9,382	13,368	11,019	8,182	7,315	5,637	9,325
35	30 WY Average	5,639	7,822	8,677	10,094	9,739	9,554	8,573	9,441	10,693	9,340	7,735	6,152	8,616
36	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 2024													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
5	1989	5,708	8,306	9,372	9,227	6,893	9,213	10,275	10,657	9,870	8,316	7,651	6,892	8,538
6	1990	6,331	9,104	10,530	11,834	13,324	9,545	9,579	9,994	12,710	11,222	10,490	7,051	10,147
7	1991	6,097	10,941	11,173	13,406	13,408	11,358	9,119	10,611	12,298	13,309	10,867	6,818	10,795
8	1992	6,232	8,524	7,988	9,343	9,430	7,440	6,456	9,765	8,364	7,160	7,441	6,886	7,916
9	1993	5,639	8,163	8,579	8,121	6,049	8,371	6,532	11,480	11,142	9,364	8,383	7,649	8,291
10	1994	6,351	8,322	8,549	8,154	7,937	7,564	7,115	9,233	8,614	7,895	7,264	6,942	7,825
11	1995	5,936	8,067	9,012	9,600	10,353	11,622	7,243	10,035	12,719	11,111	8,666	7,787	9,345
12	1996	7,828	11,807	15,743	15,774	15,352	14,960	11,530	12,000	13,329	13,968	11,085	7,453	12,578
13	1997	6,747	9,075	11,459	15,802	15,263	13,956	12,500	13,429	14,174	14,264	11,897	9,089	12,322
14	1998	10,132	10,417	10,111	11,381	12,312	9,760	7,509	13,275	13,103	11,754	9,477	7,570	10,571
15	1999	6,387	7,842	10,514	14,501	13,414	14,658	10,569	10,982	13,438	14,075	12,339	7,341	11,368
16	2000	6,444	10,552	11,984	12,945	12,107	11,374	10,735	10,842	10,309	9,761	8,522	6,883	10,207
17	2001	6,399	8,010	8,140	8,338	8,505	7,199	4,911	7,323	7,519	7,606	7,597	6,523	7,336
18	2002	5,557	7,573	9,132	8,732	8,187	8,354	9,602	10,293	12,932	12,548	8,581	6,946	9,043
19	2003	6,220	8,455	8,324	8,624	8,979	10,360	8,470	9,361	12,376	7,953	7,095	6,706	8,572
20	2004	5,922	9,074	9,970	9,269	7,762	8,216	7,514	9,511	10,972	8,622	7,446	7,248	8,452
21	2005	7,306	9,133	10,970	10,896	11,952	8,606	5,992	8,808	10,113	9,858	7,737	6,967	9,018
22	2006	5,670	9,061	9,914	13,051	13,970	10,271	10,964	12,825	12,205	10,837	7,576	6,778	10,261
23	2007	5,989	8,693	10,075	12,789	10,400	12,992	9,236	10,286	10,910	9,863	7,287	6,380	9,583
24	2008	5,946	8,807	8,637	10,354	9,532	9,067	6,498	11,155	14,203	12,164	9,529	7,320	9,437
25	2009	6,273	8,669	8,552	11,873	9,441	7,606	10,138	10,865	11,136	8,529	6,877	6,906	8,905
26	2010	6,168	8,162	9,054	8,354	8,018	7,022	6,080	7,366	13,056	10,862	7,826	7,224	8,254
27	2011	6,058	7,936	10,593	13,223	13,760	11,949	11,444	12,411	14,729	15,160	11,673	7,572	11,396
28	2012	6,983	8,838	9,678	11,585	11,709	12,278	13,476	12,104	13,200	14,146	11,561	7,005	11,077
29	2013	6,361	9,961	12,132	11,037	9,970	8,177	10,600	11,365	11,971	11,234	8,391	7,468	9,885
30	2014	6,572	8,279	8,513	11,963	8,246	12,766	10,912	11,620	12,153	11,802	9,255	7,192	9,963
31	2015	6,113	9,917	11,894	13,013	13,137	13,504	8,043	7,725	8,113	7,004	7,085	6,431	9,324
32	2016	6,026	7,970	9,319	10,023	8,233	12,713	11,540	10,981	9,955	8,228	7,959	7,137	9,187
33	2017	6,023	10,544	10,251	12,901	12,081	15,276	13,364	14,089	14,090	10,485	10,221	6,855	11,369
34	2018	6,238	7,538	10,110	13,594	13,693	12,529	10,549	13,335	12,429	9,559	8,412	6,474	10,383
35	30 WY Average	6,388	8,925	10,009	11,324	10,781	10,624	9,283	10,791	11,738	10,622	8,873	7,117	9,712
36	Hours	416	400	400	416	400	416	416	416	400	416	432	384	4912

	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 2024													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
5	1989	4,362	5,912	6,282	6,468	4,792	6,718	7,512	7,629	6,369	5,745	5,274	4,857	5,995
6	1990	4,667	6,585	7,619	8,496	10,233	7,136	7,254	7,532	9,786	7,493	7,002	5,081	7,379
7	1991	4,490	8,716	8,401	10,213	11,155	8,461	7,098	7,752	8,950	9,438	7,303	4,915	8,050
8	1992	4,623	5,989	5,305	6,633	6,590	5,393	5,166	7,412	5,952	5,245	5,201	5,022	5,705
9	1993	4,354	5,856	5,658	5,623	4,284	6,007	4,787	8,413	7,185	6,407	5,636	5,352	5,812
10	1994	4,648	6,002	5,828	5,648	5,641	5,503	5,555	6,983	6,119	5,643	5,085	5,029	5,641
11	1995	4,541	5,775	6,056	6,715	7,143	8,487	5,499	7,058	8,933	7,335	5,707	5,410	6,552
12	1996	5,608	9,158	13,102	14,139	13,898	13,192	9,015	8,664	10,212	10,662	7,322	5,234	10,006
13	1997	4,831	6,479	8,460	14,378	13,470	12,114	10,727	12,960	13,727	11,191	7,921	6,282	10,175
14	1998	6,958	7,737	6,952	8,151	9,169	7,258	5,705	10,571	9,369	7,732	6,183	5,203	7,575
15	1999	4,612	5,510	7,454	12,266	10,920	12,433	7,844	7,933	10,225	10,828	8,466	5,255	8,622
16	2000	4,707	8,247	9,005	9,421	8,888	8,445	8,193	7,904	6,785	6,554	5,733	4,801	7,380
17	2001	4,600	5,693	5,542	5,892	6,047	5,282	3,930	5,647	5,435	5,391	5,184	4,719	5,282
18	2002	4,325	5,350	6,181	6,120	5,694	6,182	7,219	7,653	9,943	8,811	5,752	4,925	6,509
19	2003	4,653	6,130	5,656	5,953	6,230	7,590	6,334	6,866	8,389	5,563	4,897	4,773	6,079
20	2004	4,532	6,740	6,859	6,441	5,276	6,067	5,752	6,887	7,352	5,913	5,179	5,075	6,015
21	2005	5,229	6,571	7,948	7,865	8,841	6,333	4,806	6,493	7,076	6,731	5,390	5,002	6,521
22	2006	4,283	6,604	6,933	10,155	11,311	7,786	8,259	9,994	8,568	7,226	5,214	4,813	7,562
23	2007	4,463	6,232	7,046	9,169	7,269	10,204	7,278	7,533	7,480	6,684	5,089	4,585	6,917
24	2008	4,458	6,298	5,816	7,426	6,709	6,672	5,084	8,739	11,154	8,107	6,328	5,186	6,830
25	2009	4,602	6,183	5,887	8,750	6,628	5,574	7,531	7,387	7,039	5,784	4,749	4,807	6,233
26	2010	4,537	5,859	6,230	5,890	5,536	5,101	4,692	5,681	9,379	7,149	5,354	5,065	5,878
27	2011	4,426	5,633	7,781	10,552	11,573	9,121	8,889	9,531	13,764	14,115	7,836	5,314	9,013
28	2012	4,905	6,372	6,737	8,364	8,486	9,369	10,929	10,345	12,160	11,885	7,941	5,076	8,517
29	2013	4,706	7,616	9,183	8,018	6,916	6,094	8,444	8,452	8,898	7,581	5,732	5,217	7,240
30	2014	4,709	5,995	5,823	8,590	5,682	9,946	8,585	8,517	8,687	7,866	6,158	5,162	7,139
31	2015	4,543	7,535	9,013	9,926	11,113	10,814	6,280	6,044	5,692	5,084	5,028	4,655	7,129
32	2016	4,561	5,682	6,578	7,240	5,642	10,114	8,897	7,822	6,697	5,671	5,453	5,000	6,609
33	2017	4,437	8,227	7,346	9,401	9,430	14,416	11,476	11,890	10,875	6,906	6,762	4,857	8,804
34	2018	4,493	5,164	7,170	10,744	11,586	9,513	8,094	11,693	9,109	6,435	5,733	4,675	7,837
35	30 WY Average	4,696	6,528	7,128	8,488	8,205	8,244	7,228	8,266	8,710	7,573	6,020	5,045	7,167
36	Hours	328	321	344	328	296	327	304	328	320	328	312	336	3872

	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 2025													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
5	1989	5,659	7,872	9,353	9,230	6,902	9,599	10,092	10,667	10,200	8,151	7,711	6,808	8,521
6	1990	6,268	9,097	10,553	11,796	13,513	9,469	10,151	9,508	12,966	11,217	10,986	6,991	10,179
7	1991	6,046	10,865	11,199	13,503	13,726	11,304	9,260	10,148	12,515	13,201	11,111	6,759	10,775
8	1992	6,166	8,491	7,971	9,364	9,426	7,432	6,445	8,158	10,323	7,149	7,481	6,798	7,912
9	1993	5,584	8,133	8,548	8,215	6,054	8,385	6,444	11,049	10,673	10,722	8,426	7,562	8,317
10	1994	6,281	8,282	8,536	8,144	7,943	7,562	6,976	8,089	10,189	7,883	7,305	6,845	7,822
11	1995	5,879	8,028	8,996	9,621	10,358	11,558	7,031	10,110	12,926	11,127	8,694	7,705	9,317
12	1996	7,773	11,830	15,808	16,139	15,355	14,826	11,749	11,856	13,659	14,334	11,293	7,393	12,641
13	1997	6,663	9,039	11,531	15,808	15,906	13,796	13,071	14,456	14,911	14,561	12,087	9,020	12,549
14	1998	9,824	10,384	10,121	11,430	12,339	9,765	7,504	13,541	12,569	11,750	10,529	7,464	10,594
15	1999	6,316	7,777	10,557	14,837	13,748	14,499	10,950	10,537	13,563	14,291	12,605	7,294	11,404
16	2000	6,363	10,537	11,997	12,966	12,226	11,376	10,615	10,801	10,828	9,766	8,595	6,789	10,215
17	2001	6,338	7,961	8,129	8,339	8,516	7,183	4,927	6,996	8,014	7,604	7,657	6,444	7,328
18	2002	5,506	7,532	9,123	8,730	8,195	8,366	9,596	9,816	13,209	12,629	9,292	6,873	9,065
19	2003	6,156	8,430	8,310	8,723	8,881	10,365	8,198	9,219	12,660	7,938	7,133	6,615	8,536
20	2004	5,865	9,042	9,952	9,274	7,775	8,230	7,626	8,906	11,486	8,609	7,486	7,165	8,435
21	2005	7,233	9,104	11,005	10,846	12,012	8,629	6,198	8,683	10,083	9,854	7,801	6,878	8,999
22	2006	5,629	9,038	9,947	13,164	14,317	10,254	10,914	12,875	12,577	10,770	7,561	6,701	10,281
23	2007	5,931	8,684	10,102	12,825	10,383	12,992	9,973	10,032	10,917	9,358	7,343	6,301	9,560
24	2008	5,898	8,789	8,645	10,346	9,514	9,057	6,851	11,185	14,326	12,149	9,645	7,263	9,457
25	2009	6,206	8,646	8,571	11,870	9,417	7,626	9,722	10,533	11,455	8,518	6,906	6,813	8,845
26	2010	6,108	8,131	9,056	8,350	8,029	7,012	6,403	7,344	12,989	10,832	7,713	7,133	8,239
27	2011	5,996	7,879	10,643	13,411	14,190	11,955	11,383	12,244	14,977	16,032	12,197	7,490	11,515
28	2012	6,913	8,814	9,696	11,651	11,661	12,231	13,822	11,883	14,018	14,916	11,771	6,949	11,194
29	2013	6,300	9,948	12,138	10,983	9,927	8,247	10,553	10,900	12,630	11,204	8,456	7,377	9,868
30	2014	6,499	8,241	8,522	11,933	8,252	12,753	10,876	11,855	12,442	11,810	10,078	7,113	10,044
31	2015	6,051	9,871	11,906	13,185	13,522	13,473	7,873	7,140	9,005	6,998	7,141	6,353	9,340
32	2016	5,967	7,948	9,320	10,021	8,247	12,735	12,651	10,503	10,483	7,547	7,331	7,047	9,151
33	2017	5,967	10,458	10,253	12,749	12,465	15,076	13,651	14,130	14,476	10,464	9,781	6,804	11,343
34	2018	6,170	7,467	10,140	13,765	14,098	12,452	10,381	14,120	12,695	9,548	8,521	6,432	10,462
35	30 WY Average	6,318	8,877	10,021	11,374	10,897	10,607	9,396	10,576	12,125	10,698	9,021	7,039	9,730
36	Hours	432	400	400	416	384	416	416	416	400	416	416	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 2025													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
5	1989	4,364	5,697	6,308	6,471	4,802	6,958	7,556	7,600	6,612	5,659	5,318	4,865	6,030
6	1990	4,671	6,631	7,596	8,556	10,142	7,062	7,872	7,145	9,549	7,511	7,295	5,062	7,408
7	1991	4,477	8,405	8,322	10,048	10,994	8,416	7,491	7,271	9,190	9,034	7,339	4,898	7,981
8	1992	4,643	6,039	5,330	6,612	6,625	5,411	5,123	6,369	7,114	5,262	5,263	5,044	5,732
9	1993	4,359	5,887	5,699	5,701	4,285	5,966	4,879	7,937	6,859	7,169	5,673	5,351	5,840
10	1994	4,654	6,057	5,848	5,666	5,656	5,512	5,410	6,266	6,934	5,662	5,142	5,059	5,660
11	1995	4,554	5,826	6,078	6,697	7,165	8,476	5,480	7,107	9,089	7,405	5,750	5,401	6,591
12	1996	5,576	9,006	13,261	14,410	13,872	13,145	9,236	8,456	10,567	10,845	7,419	5,205	10,091
13	1997	4,841	6,511	8,360	14,205	14,465	11,893	11,219	13,701	14,209	11,172	8,033	6,247	10,379
14	1998	6,992	7,575	6,947	8,287	8,946	7,264	5,781	10,770	8,591	7,756	6,817	5,223	7,579
15	1999	4,625	5,594	7,411	12,103	10,619	12,330	8,379	7,363	10,393	10,569	8,471	5,215	8,589
16	2000	4,722	8,012	8,896	9,376	8,767	8,428	8,212	7,758	7,141	6,553	5,781	4,820	7,374
17	2001	4,598	5,763	5,560	5,896	6,056	5,308	3,929	5,417	5,659	5,397	5,230	4,733	5,300
18	2002	4,331	5,403	6,196	6,130	5,710	6,161	7,287	7,228	9,986	8,698	6,157	4,921	6,527
19	2003	4,662	6,171	5,678	6,027	6,156	7,565	6,276	6,737	8,768	5,588	4,959	4,794	6,115
20	2004	4,539	6,747	6,885	6,442	5,284	6,051	5,903	6,487	7,662	5,938	5,243	5,078	6,037
21	2005	5,229	6,583	7,911	7,936	8,781	6,369	4,948	6,400	6,967	6,741	5,428	5,018	6,525
22	2006	4,271	6,637	6,901	10,014	11,236	7,738	8,229	9,944	8,862	7,197	5,217	4,816	7,562
23	2007	4,470	6,267	7,021	9,111	7,327	10,263	8,141	7,328	7,410	6,415	5,128	4,599	6,960
24	2008	4,448	6,326	5,812	7,443	6,761	6,683	5,344	8,525	10,983	8,142	6,392	5,156	6,846
25	2009	4,606	6,204	5,869	8,729	6,688	5,541	7,412	7,171	7,441	5,801	4,821	4,823	6,253
26	2010	4,539	5,902	6,233	5,902	5,547	5,120	4,925	5,624	9,300	7,189	5,317	5,077	5,901
27	2011	4,427	5,707	7,727	10,301	11,540	9,039	8,859	9,198	13,712	14,741	8,107	5,309	9,049
28	2012	4,897	6,408	6,722	8,470	8,362	9,344	11,634	8,913	12,755	12,786	7,954	5,055	8,602
29	2013	4,708	7,498	9,079	8,094	7,003	6,074	8,497	7,913	9,558	7,626	5,784	5,223	7,267
30	2014	4,717	6,046	5,817	8,607	5,678	9,885	8,575	8,441	8,504	7,869	6,647	5,165	7,177
31	2015	4,550	7,411	8,902	9,835	10,884	10,761	6,404	5,666	6,115	5,096	5,061	4,668	7,102
32	2016	4,572	5,730	6,583	7,250	5,651	10,074	10,335	7,482	6,970	5,317	5,154	5,011	6,677
33	2017	4,431	7,935	7,348	9,221	9,352	14,167	12,051	11,417	11,243	6,926	6,399	4,825	8,765
34	2018	4,502	5,255	7,141	10,564	11,545	9,465	8,013	12,414	8,924	6,449	5,785	4,642	7,873
35	30 WY Average	4,699	6,508	7,115	8,470	8,197	8,216	7,447	8,002	8,902	7,617	6,103	5,043	7,193
36	Hours	312	321	344	328	288	327	304	328	320	328	328	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 2024													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
5	1989	29	5	19	64	25	12	-48	-28	-23	-5	67	134	21
6	1990	18	15	44	48	318	-3	-31	16	660	-16	-51	138	95
7	1991	167	-2	63	109	402	-16	15	10	108	782	-34	130	144
8	1992	9	13	76	18	-87	25	45	2	23	86	50	148	35
9	1993	9	-3	2	27	264	4	89	29	-9	36	65	128	52
10	1994	113	4	-48	-13	55	63	-13	-19	-26	17	45	116	25
11	1995	23	22	2	1	292	97	78	-24	-37	-39	35	116	45
12	1996	13	-33	182	771	475	707	9	7	63	214	133	136	223
13	1997	3	0	-11	49	1,056	264	-24	151	404	653	-35	69	209
14	1998	7	-6	27	95	352	107	137	-13	39	6	-18	130	70
15	1999	107	90	-21	153	327	366	-9	-2	197	802	260	139	200
16	2000	109	46	56	-36	356	10	14	-9	-35	63	91	135	65
17	2001	149	12	14	4	1	41	71	128	17	95	15	137	58
18	2002	35	1	30	60	16	4	14	41	335	-13	-8	140	55
19	2003	105	11	2	1	93	9	-56	50	44	38	157	129	48
20	2004	68	42	-8	6	19	0	-13	-9	21	49	91	133	34
21	2005	12	30	12	-24	371	8	32	-38	-16	21	32	143	46
22	2006	34	20	1	-25	510	7	-6	6	154	4	68	131	72
23	2007	42	29	52	-11	194	-16	-26	1	49	2	64	135	42
24	2008	70	5	14	72	-16	51	22	106	288	-15	100	138	70
25	2009	98	70	86	37	16	138	-31	76	6	98	112	128	71
26	2010	89	93	12	-3	15	-11	79	11	-2	-29	89	135	40
27	2011	94	6	-7	55	451	-2	0	33	229	1,218	-34	138	181
28	2012	11	1	30	-40	255	8	-20	219	436	1,107	71	128	184
29	2013	77	34	-19	-12	110	31	-17	3	1,292	-17	44	153	139
30	2014	6	18	15	30	-2	284	31	3	90	17	-15	132	51
31	2015	53	-3	57	-17	551	446	43	-8	24	83	40	128	114
32	2016	41	7	2	31	101	57	-25	53	61	75	37	141	49
33	2017	61	-34	1	59	442	342	99	256	267	20	-82	135	128
34	2018	55	-29	13	46	466	31	-2	195	987	-38	-1	140	152
35	30 WY Average	57	15	23	52	248	102	15	42	188	177	46	132	91
36	Hours	328	321	344	328	296	327	304	328	320	328	312	336	3872

	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 2024													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
5	1989	-86	-40	-46	-49	-117	-67	-30	-7	-50	-42	-144	-259	-77
6	1990	-72	-73	-36	-58	-7	-22	-45	-30	-144	-16	-48	-191	-61
7	1991	-87	-14	-27	-26	-7	-5	-39	-39	-49	-147	-16	-249	-58
8	1992	-58	-56	-74	-42	-69	-78	-66	-30	-56	-153	-118	-139	-78
9	1993	-60	-58	-59	-42	-181	-76	-130	-3	-51	-118	-160	-207	-95
10	1994	-57	-39	-63	-49	-24	-161	-75	-20	-67	-104	-111	-275	-86
11	1995	-57	-62	-60	-38	-87	-38	-105	-52	-26	-33	-118	-278	-79
12	1996	-40	0	-27	7	-5	3	-26	-22	-74	-31	-51	-182	-37
13	1997	-55	-56	-22	-8	-36	6	-57	-39	-203	-86	-9	-190	-62
14	1998	-20	-23	-33	-27	-19	-77	-145	-35	-16	-26	-20	-251	-57
15	1999	-80	-81	-29	0	-3	2	-46	7	-24	-163	-180	-197	-66
16	2000	-69	-38	-30	-3	3	-32	-41	-43	-62	-76	-74	-277	-61
17	2001	-67	-53	-57	-44	-18	-98	-177	-127	-61	-90	-84	-188	-88
18	2002	-77	-56	-53	-77	-73	-72	-54	-40	-75	2	-40	-203	-67
19	2003	-56	-38	-49	-51	-70	-35	-54	-84	-16	-127	-111	-238	-77
20	2004	-72	-11	-22	-30	-53	-69	-68	-51	-42	-116	-91	-344	-80
21	2005	-42	-33	-21	1	0	-29	-111	-63	-26	-41	-102	-145	-51
22	2006	-81	-23	-34	-2	-7	-32	-23	-34	-192	4	-145	-309	-72
23	2007	-65	-59	-42	-1	-51	-1	-7	-38	-85	-35	-160	-274	-67
24	2008	-66	-43	-57	-46	-24	-67	-100	-65	-136	-13	-72	-187	-72
25	2009	-68	-52	-115	-1	-29	-156	-36	-97	-53	-252	-167	-197	-102
26	2010	-74	-64	-39	-42	-7	-74	-258	-85	-38	-19	-96	-401	-99
27	2011	-83	-57	-20	-3	-2	-38	-23	-34	-78	-165	0	-220	-59
28	2012	-57	-36	-34	0	24	-36	1	-69	-180	-167	-91	-211	-71
29	2013	-68	-20	0	19	-42	-47	1	-14	-263	-24	-70	-138	-55
30	2014	-68	-54	-46	12	-69	-29	-24	-25	-54	-45	-39	-114	-46
31	2015	-71	-11	-21	0	-53	0	-66	-62	-44	-155	-118	-217	-68
32	2016	-57	-49	-48	-42	-125	-57	3	-44	-65	-177	-155	-132	-79
33	2017	-87	-12	-8	-14	-85	-4	-24	-63	-53	-42	-48	-276	-58
34	2018	-82	-65	-30	-16	5	-24	-14	-36	-231	-42	-65	-289	-72
35	30 WY Average	-66	-42	-40	-22	-41	-47	-61	-45	-84	-83	-90	-226	-70
36	Hours	416	400	400	416	400	416	416	416	400	416	432	384	4912

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Table 7:													
2	Federal Hydro Generation Adjustment for Stand Ready & Deployment Losses, Flat Energy for FY 2024													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
5	1989	-35	-20	-16	1	-57	-33	-38	-16	-38	-26	-55	-76	-34
6	1990	-32	-34	1	-11	131	-14	-39	-10	213	-16	-49	-38	8
7	1991	25	-9	14	33	167	-10	-16	-18	21	263	-24	-72	31
8	1992	-29	-26	-5	-16	-77	-33	-19	-16	-21	-48	-48	-5	-28
9	1993	-30	-34	-31	-12	8	-41	-38	11	-32	-50	-65	-51	-30
10	1994	18	-20	-56	-33	9	-62	-49	-19	-49	-51	-46	-93	-38
11	1995	-22	-24	-31	-20	74	22	-28	-40	-31	-36	-54	-94	-24
12	1996	-17	-15	70	344	199	313	-11	-9	-13	77	26	-33	78
13	1997	-30	-31	-17	17	428	119	-43	45	66	240	-20	-69	58
14	1998	-8	-15	-5	27	139	4	-26	-25	8	-12	-19	-73	-1
15	1999	3	-5	-25	67	137	162	-30	3	74	263	4	-40	51
16	2000	10	0	10	-18	153	-13	-18	-28	-50	-15	-5	-85	-5
17	2001	29	-24	-24	-23	-10	-37	-72	-14	-26	-8	-42	-36	-24
18	2002	-28	-31	-14	-17	-35	-39	-25	-4	107	-4	-27	-43	-13
19	2003	15	-16	-25	-28	-1	-16	-55	-25	11	-54	2	-67	-22
20	2004	-10	13	-16	-14	-22	-38	-45	-33	-14	-43	-15	-122	-30
21	2005	-18	-4	-6	-10	158	-13	-51	-52	-21	-14	-45	-11	-8
22	2006	-31	-4	-18	-12	213	-15	-16	-16	-38	4	-56	-103	-9
23	2007	-18	-20	1	-5	53	-7	-15	-21	-26	-18	-66	-83	-19
24	2008	-6	-22	-24	6	-20	-15	-49	10	52	-14	0	-35	-10
25	2009	5	3	-22	16	-10	-27	-34	-21	-26	-98	-50	-46	-26
26	2010	-2	6	-15	-25	2	-46	-115	-43	-22	-23	-19	-151	-38
27	2011	-5	-29	-14	22	191	-22	-13	-4	59	445	-14	-53	47
28	2012	-27	-20	-4	-18	122	-17	-8	58	94	395	-23	-53	42
29	2013	-4	4	-9	6	23	-13	-6	-7	428	-21	-22	-2	31
30	2014	-35	-22	-18	20	-41	109	-1	-13	10	-18	-29	1	-3
31	2015	-17	-7	15	-7	204	196	-20	-38	-14	-50	-52	-56	12
32	2016	-14	-24	-25	-10	-29	-7	-9	-1	-9	-66	-75	-5	-23
33	2017	-22	-22	-4	18	139	148	28	78	89	-15	-62	-85	24
34	2018	-22	-49	-10	11	201	0	-9	66	311	-40	-38	-89	27
35	30 WY Average	-12	-17	-11	10	82	19	-29	-7	37	32	-33	-59	1
36	Hours	744	721	744	744	696	743	720	744	720	744	744	720	8784

	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 2025													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
5	1989	-83	-62	-38	-40	-94	-78	-34	-8	-58	-92	-127	-241	-79
6	1990	-71	18	-11	5	1	-46	0	-62	-104	-77	-15	-180	-45
7	1991	-84	-1	0	-1	-46	-6	-102	-41	-10	7	-11	-182	-39
8	1992	-57	-41	-70	-20	-68	-82	-87	-57	-71	-157	-112	-242	-89
9	1993	-58	-30	-53	-96	-131	-81	-169	-47	-64	-82	-128	-182	-93
10	1994	-55	-33	-61	-82	-86	-89	-93	-72	-54	-107	-105	-256	-91
11	1995	-56	-31	-52	-39	-79	-17	-137	-48	4	-85	-91	-229	-71
12	1996	-39	0	-134	-45	7	2	-18	-26	-13	5	8	-178	-37
13	1997	-55	-46	-32	-11	4	3	-11	0	-160	13	-35	-116	-37
14	1998	-19	-17	-48	-25	-38	-58	-121	-20	-43	-27	-32	-184	-52
15	1999	-77	-47	-54	-39	-16	2	-15	-45	2	-66	-61	-181	-50
16	2000	-68	11	0	-4	-5	-20	-88	-32	-79	-68	-78	-253	-57
17	2001	-65	-42	-63	-80	-90	-104	-187	-138	-60	-96	-51	-180	-96
18	2002	-75	-56	-30	-86	-101	-77	-49	-33	-54	2	-20	-181	-63
19	2003	-63	-48	-49	-71	-44	-36	-104	-34	-9	-129	-153	-174	-76
20	2004	-69	-49	-35	0	-76	-75	-87	-46	-38	-100	-130	-229	-77
21	2005	-41	-37	-6	-2	0	-28	-101	-111	-33	-45	-83	-281	-64
22	2006	-79	-44	-27	-4	-4	-40	-19	-32	-79	5	-149	-206	-57
23	2007	-64	-59	-43	-20	-5	25	-11	-33	0	-65	-83	-251	-51
24	2008	-64	-32	-64	-16	-60	-64	-115	-11	-54	-13	-44	-182	-59
25	2009	-66	-43	-27	-37	-24	-74	-58	-105	7	-150	-146	-195	-77
26	2010	-73	-60	-39	-55	-94	-80	-158	-167	3	-27	-87	-254	-90
27	2011	-80	-42	-46	-4	-22	-27	-14	-10	-28	-53	-10	-184	-43
28	2012	-56	-51	-48	-30	-22	-23	-11	-19	-159	-53	-31	-187	-58
29	2013	-66	-20	0	-41	-18	-89	-9	-88	-154	-25	-57	-235	-67
30	2014	-67	-39	-36	-2	-100	-15	-50	-45	-57	-49	-35	-266	-63
31	2015	-70	-23	0	-40	3	-1	-85	-118	-39	-159	-98	-185	-68
32	2016	-65	-44	-50	-7	-127	-27	8	-25	-101	-164	-131	-253	-82
33	2017	-84	-22	-46	0	-8	-1	-19	-88	-45	-46	-22	-252	-53
34	2018	-80	-101	-46	-1	4	-25	-40	18	-115	-42	-53	-272	-63
35	30 WY Average	-65	-36	-40	-30	-45	-41	-66	-51	-56	-65	-72	-213	-65
36	Hours	312	321	344	328	288	327	304	328	320	328	328	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 2025													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
5	1989	-83	-62	-38	-40	-94	-78	-34	-8	-58	-92	-127	-241	-79
6	1990	-71	18	-11	5	1	-46	0	-62	-104	-77	-15	-180	-45
7	1991	-84	-1	0	-1	-46	-6	-102	-41	-10	7	-11	-182	-40
8	1992	-57	-41	-70	-20	-68	-82	-87	-57	-71	-157	-112	-242	-88
9	1993	-58	-30	-53	-96	-131	-81	-169	-47	-64	-82	-128	-182	-93
10	1994	-55	-33	-61	-82	-86	-89	-93	-72	-54	-107	-105	-256	-91
11	1995	-56	-31	-52	-39	-79	-17	-137	-48	4	-85	-91	-229	-71
12	1996	-39	0	-134	-45	7	2	-18	-26	-13	5	8	-178	-36
13	1997	-55	-46	-32	-11	4	3	-11	0	-160	13	-35	-116	-37
14	1998	-19	-17	-48	-25	-38	-58	-121	-20	-43	-27	-32	-184	-52
15	1999	-77	-47	-54	-39	-16	2	-15	-45	2	-66	-61	-181	-50
16	2000	-68	11	0	-4	-5	-20	-88	-32	-79	-68	-78	-253	-57
17	2001	-65	-42	-63	-80	-90	-104	-187	-138	-60	-96	-51	-180	-97
18	2002	-75	-56	-30	-86	-101	-77	-49	-33	-54	2	-20	-181	-63
19	2003	-63	-48	-49	-71	-44	-36	-104	-34	-9	-129	-153	-174	-76
20	2004	-69	-49	-35	0	-76	-75	-87	-46	-38	-100	-130	-229	-78
21	2005	-41	-37	-6	-2	0	-28	-101	-111	-33	-45	-83	-281	-64
22	2006	-79	-44	-27	-4	-4	-40	-19	-32	-79	5	-149	-206	-56
23	2007	-64	-59	-43	-20	-5	25	-11	-33	0	-65	-83	-251	-51
24	2008	-64	-32	-64	-16	-60	-64	-115	-11	-54	-13	-44	-182	-60
25	2009	-66	-43	-27	-37	-24	-74	-58	-105	7	-150	-146	-195	-77
26	2010	-73	-60	-39	-55	-94	-80	-158	-167	3	-27	-87	-254	-91
27	2011	-80	-42	-46	-4	-22	-27	-14	-10	-28	-53	-10	-184	-43
28	2012	-56	-51	-48	-30	-22	-23	-11	-19	-159	-53	-31	-187	-57
29	2013	-66	-20	0	-41	-18	-89	-9	-88	-154	-25	-57	-235	-67
30	2014	-67	-39	-36	-2	-100	-15	-50	-45	-57	-49	-35	-266	-63
31	2015	-70	-23	0	-40	3	-1	-85	-118	-39	-159	-98	-185	-68
32	2016	-65	-44	-50	-7	-127	-27	8	-25	-101	-164	-131	-253	-81
33	2017	-84	-22	-46	0	-8	-1	-19	-88	-45	-46	-22	-252	-53
34	2018	-80	-101	-46	-1	4	-25	-40	18	-115	-42	-53	-272	-62
35	30 WY Average	-65	-36	-40	-30	-45	-41	-66	-51	-56	-65	-72	-213	-65
36	Hours	432	400	400	416	384	416	416	416	400	416	416	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 2025													
4	Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Wtd Avg.
5	1929	-83	-62	-38	-40	-94	-78	-34	-8	-58	-92	-127	-241	-79
6	1930	-71	18	-11	5	1	-46	0	-62	-104	-77	-15	-180	-45
7	1931	-84	-1	0	-1	-46	-6	-102	-41	-10	7	-11	-182	-39
8	1932	-57	-41	-70	-20	-68	-82	-87	-57	-71	-157	-112	-242	-89
9	1933	-58	-30	-53	-96	-131	-81	-169	-47	-64	-82	-128	-182	-93
10	1934	-55	-33	-61	-82	-86	-89	-93	-72	-54	-107	-105	-256	-91
11	1935	-56	-31	-52	-39	-79	-17	-137	-48	4	-85	-91	-229	-71
12	1936	-39	0	-134	-45	7	2	-18	-26	-13	5	8	-178	-36
13	1937	-55	-46	-32	-11	4	3	-11	0	-160	13	-35	-116	-37
14	1938	-19	-17	-48	-25	-38	-58	-121	-20	-43	-27	-32	-184	-52
15	1939	-77	-47	-54	-39	-16	2	-15	-45	2	-66	-61	-181	-50
16	1940	-68	11	0	-4	-5	-20	-88	-32	-79	-68	-78	-253	-57
17	1941	-65	-42	-63	-80	-90	-104	-187	-138	-60	-96	-51	-180	-96
18	1942	-75	-56	-30	-86	-101	-77	-49	-33	-54	2	-20	-181	-63
19	1943	-63	-48	-49	-71	-44	-36	-104	-34	-9	-129	-153	-174	-76
20	1944	-69	-49	-35	0	-76	-75	-87	-46	-38	-100	-130	-229	-78
21	1945	-41	-37	-6	-2	0	-28	-101	-111	-33	-45	-83	-281	-64
22	1946	-79	-44	-27	-4	-4	-40	-19	-32	-79	5	-149	-206	-57
23	1947	-64	-59	-43	-20	-5	25	-11	-33	0	-65	-83	-251	-51
24	1948	-64	-32	-64	-16	-60	-64	-115	-11	-54	-13	-44	-182	-60
25	1949	-66	-43	-27	-37	-24	-74	-58	-105	7	-150	-146	-195	-77
26	1950	-73	-60	-39	-55	-94	-80	-158	-167	3	-27	-87	-254	-90
27	1951	-80	-42	-46	-4	-22	-27	-14	-10	-28	-53	-10	-184	-43
28	1952	-56	-51	-48	-30	-22	-23	-11	-19	-159	-53	-31	-187	-57
29	1953	-66	-20	0	-41	-18	-89	-9	-88	-154	-25	-57	-235	-67
30	1954	-67	-39	-36	-2	-100	-15	-50	-45	-57	-49	-35	-266	-63
31	1955	-70	-23	0	-40	3	-1	-85	-118	-39	-159	-98	-185	-68
32	1956	-65	-44	-50	-7	-127	-27	8	-25	-101	-164	-131	-253	-82
33	1957	-84	-22	-46	0	-8	-1	-19	-88	-45	-46	-22	-252	-53
34	1958	-80	-101	-46	-1	4	-25	-40	18	-115	-42	-53	-272	-63
35	80 WY Average	-65	-36	-40	-30	-45	-41	-66	-51	-56	-65	-72	-213	-65
36	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:													
	Value of PS Wind Generation at Expected Wind Generation for FY 2024													
1														
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)	\$ 66.68	\$ 57.35	\$ 63.86	\$ 90.38	\$ 69.05	\$ 63.38	\$ 52.18	\$ 51.99	\$ 52.83	\$ 52.64	\$ 63.02	\$ 61.03	\$ 62.06
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)	\$ 1,254	\$ 1,498	\$ 1,312	\$ 993	\$ 1,174	\$ 1,323	\$ 1,737	\$ 1,749	\$ 1,700	\$ 1,711	\$ 1,331	\$ 1,382	\$ 17,163
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%	\$ 19.31	\$ 14.96	\$ 29.88	\$ 17.98	\$ 16.90	\$ 7.31	\$ 3.75	\$ 0.34	\$ -	\$ 13.08	\$ 31.50	\$ 29.16	\$ 21.21
19	50%	\$ 37.81	\$ 33.57	\$ 53.67	\$ 41.36	\$ 43.72	\$ 34.43	\$ 18.97	\$ 13.07	\$ 10.70	\$ 42.52	\$ 54.79	\$ 43.71	\$ 36.42
20	Average	\$ 41.95	\$ 36.62	\$ 58.78	\$ 44.57	\$ 46.80	\$ 35.36	\$ 21.32	\$ 15.81	\$ 14.33	\$ 47.22	\$ 60.42	\$ 49.60	\$ 39.46
21	95%	\$ 78.41	\$ 68.31	\$ 105.30	\$ 82.00	\$ 87.04	\$ 67.15	\$ 46.70	\$ 38.91	\$ 40.07	\$ 97.70	\$ 110.72	\$ 94.26	\$ 68.46
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%	\$ 363	\$ 391	\$ 614	\$ 198	\$ 287	\$ 153	\$ 125	\$ 12	\$ -	\$ 425	\$ 665	\$ 660	\$ 6,144
27	50%	\$ 711	\$ 877	\$ 1,102	\$ 454	\$ 743	\$ 719	\$ 632	\$ 440	\$ 344	\$ 1,382	\$ 1,157	\$ 990	\$ 10,549
28	Average	\$ 789	\$ 956	\$ 1,207	\$ 490	\$ 796	\$ 738	\$ 710	\$ 532	\$ 461	\$ 1,535	\$ 1,276	\$ 1,123	\$ 11,430
29	95%	\$ 1,474	\$ 1,784	\$ 2,163	\$ 901	\$ 1,480	\$ 1,401	\$ 1,555	\$ 1,309	\$ 1,290	\$ 3,176	\$ 2,338	\$ 2,134	\$ 19,831

	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 2025													
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)	\$ 68.84	\$ 58.91	\$ 65.85	\$ 94.92	\$ 74.83	\$ 66.17	\$ 54.24	\$ 54.04	\$ 54.93	\$ 54.72	\$ 65.79	\$ 63.66	\$ 64.73
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)	\$ 1,294	\$ 1,538	\$ 1,352	\$ 1,043	\$ 1,228	\$ 1,381	\$ 1,806	\$ 1,818	\$ 1,768	\$ 1,779	\$ 1,389	\$ 1,442	\$ 17,838
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%	\$ 19.19	\$ 14.02	\$ 30.31	\$ 16.36	\$ 15.04	\$ 5.74	\$ 2.21	\$ 0.29	\$ -	\$ 11.17	\$ 30.81	\$ 31.48	\$ 20.47
19	50%	\$ 36.02	\$ 32.26	\$ 51.11	\$ 40.50	\$ 42.42	\$ 34.50	\$ 17.83	\$ 15.81	\$ 11.39	\$ 43.49	\$ 57.55	\$ 49.50	\$ 36.78
20	Average	\$ 40.74	\$ 36.05	\$ 56.21	\$ 43.61	\$ 45.13	\$ 35.46	\$ 20.58	\$ 18.96	\$ 14.70	\$ 47.51	\$ 63.16	\$ 54.59	\$ 39.79
21	95%	\$ 81.45	\$ 71.90	\$ 101.65	\$ 81.71	\$ 87.25	\$ 67.90	\$ 47.19	\$ 45.74	\$ 39.32	\$ 97.45	\$ 112.72	\$ 98.46	\$ 70.21
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%	\$ 361	\$ 366	\$ 623	\$ 180	\$ 247	\$ 120	\$ 74	\$ 10	\$ -	\$ 363	\$ 651	\$ 713	\$ 5,918
27	50%	\$ 677	\$ 842	\$ 1,050	\$ 445	\$ 696	\$ 720	\$ 594	\$ 532	\$ 367	\$ 1,414	\$ 1,215	\$ 1,121	\$ 10,634
28	Average	\$ 766	\$ 941	\$ 1,155	\$ 479	\$ 741	\$ 740	\$ 685	\$ 638	\$ 473	\$ 1,544	\$ 1,334	\$ 1,236	\$ 11,502
29	95%	\$ 1,531	\$ 1,877	\$ 2,088	\$ 898	\$ 1,432	\$ 1,417	\$ 1,571	\$ 1,539	\$ 1,265	\$ 3,168	\$ 2,380	\$ 2,230	\$ 20,298

	A	B	C	D	E	F	G
1	Table 13:						
2	4(h)(10)(C) Credits (\$ Million) for FY 2024 and FY 2025						
3	Fiscal Year	Purchase Expense	Direct Expense	Pisces	Capital	%	Credit
4	2024	\$ 188	\$ 269	\$ -	41.3	22.3%	\$ 111.3
5	2025	\$ 190	\$ 269	\$ -	41.3	22.3%	\$ 111.5
6							

	A	B	C	D	E
1	Table 14:				
2	Augmentation Power Purchases for FY 2024 and FY 2025				
3	Average Annual Price for P10 Critical (Firm) Water from Risk Analysis				
4	Used for Rate Calculations				
5					
6	FY	MW	Hours	\$/MWh	Exp. (\$ 000)
7	2024	0	8,784	50.39	\$ -
8	2025	0	8,760	51.14	\$ -

	A	B	C	D	E
1	Table 15:				
2	Firm Surplus Power Sale for FY 2024 and FY 2025				
3	Firm Surplus Price				
4	Used for Rate Calculations				
5					
6	FY	MW	Hours	\$/MWh	Rev. (\$ 000)
7	2024	147	8,784	60.31	\$ 77,875
8	2025	0	8,760	56.87	\$ -
9					

Tables 16 and 17 are not used in this study.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Table 18:													
2	Monthly Secondary Energy Sales and Revenues for FY 2024 and FY2025													
3	<u>Secondary Energy Sales and Revenues for FY 2024</u>													
4														
5		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
6	Hours	744	721	744	744	696	743	720	744	720	744	744	720	8,784
7	Surplus Energy Sales (aMW)	133	826	753	1,668	2,080	2,127	1,909	3,079	3,580	2,240	934	127	1,619
8	Secondary Energy Sales Revenues	\$ 2,582	\$ 18,730	\$ 25,687	\$ 42,974	\$ 49,688	\$ 37,721	\$ 18,361	\$ 28,342	\$ 27,148	\$ 61,838	\$ 38,790	\$ 4,065	\$ 355,927
9														
10	Forward Sales (aMW)	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Forward Sales Revenue (\$000)	\$1,538	\$1,538	\$1,538	\$1,538	\$1,538	\$1,538	\$1,538	\$1,538	\$1,538	\$1,538	\$1,538	\$1,538	\$18,456
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)	\$1,084	\$4,532	\$3,012	\$6,946	\$4,766	\$5,258	\$5,030	\$8,881	\$13,478	\$6,328	\$2,370	\$409	\$62,094
16														
17	Total Net Secondary Sales	\$ 5,204	\$ 24,800	\$ 30,237	\$ 51,459	\$ 55,992	\$ 44,517	\$ 24,929	\$ 38,761	\$ 42,164	\$ 69,704	\$ 42,698	\$ 6,013	\$ 436,476
18														
19	<u>Secondary Energy Sales and Revenues for FY 2025</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)	157	863	802	1,736	2,044	2,178	2,074	2,385	3,383	2,266	1,010	173	1,585
24	Secondary Energy Sales Revenues	\$ 3,107	\$ 19,093	\$ 26,616	\$ 43,220	\$ 46,919	\$ 38,621	\$ 17,684	\$ 22,699	\$ 27,523	\$ 60,943	\$ 41,913	\$ 6,636	\$ 354,973
25														
26	Forward Sales (aMW)	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Forward Sales Revenue (\$000)	\$1,538	\$1,538	\$1,538	\$1,538	\$1,538	\$1,538	\$1,538	\$1,538	\$1,538	\$1,538	\$1,538	\$1,538	\$18,456
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)	\$988	\$4,680	\$2,996	\$6,802	\$4,678	\$5,703	\$6,023	\$8,637	\$14,040	\$7,173	\$3,316	\$676	\$65,713
32														
33	Total Net Secondary Sales	\$ 5,633	\$ 25,311	\$ 31,150	\$ 51,560	\$ 53,134	\$ 45,862	\$ 25,246	\$ 32,874	\$ 43,100	\$ 69,654	\$ 46,768	\$ 8,850	\$ 439,142

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Table 19:													
2	Monthly Power Purchases and Expenses for FY 2024 and FY 2025													
3	Power Purchases and Expenses for FY 2024													
4														
5		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
6	Monthly Hours	744	721	744	744	696	743	720	744	720	744	744	720	8,784
7	Balancing Power Purchases (aMW)	274	49	239	178	165	65	92	0	0	26	101	147	111
8	Balancing Power Purchases Expenses (\$000)	\$ 9,815	\$ 1,465	\$ 12,222	\$ 7,670	\$ 7,414	\$ 2,480	\$ 2,532	\$ 0	\$ 1	\$ 1,175	\$ 4,522	\$ 5,781	\$ 55,078
9														
10	Transmission re-dispatch for Gen Inputs adjustment	\$ 28	\$ 28	\$ 28	\$ 28	\$ 28	\$ 28	\$ 28	\$ 28	\$ 28	\$ 28	\$ 28	\$ 28	\$ 332
11														
12	SILS Forward Power Purchases (aMW)	62	86	134	159	121	86	62	-	-	-	-	24	61
13	SILS Forward Power Purchases Expenses (\$000)	\$ 2,334	\$ 2,538	\$ 5,914	\$ 5,511	\$ 4,151	\$ 2,483	\$ 1,260	\$ -	\$ -	\$ -	\$ -	\$ 1,000	\$ 25,191
14														
15	Total Power Purchases (aMW)	336	135	373	337	286	151	154	0	0	26	101	171	173
16	Total Power Purchases Expenses (\$000)	\$ 12,177	\$ 4,031	\$ 18,164	\$ 13,209	\$ 11,592	\$ 4,991	\$ 3,820	\$ 28	\$ 28	\$ 1,203	\$ 4,550	\$ 6,808	\$ 80,601
17														
18														
19	Power Purchases and Expenses for FY 2025													
20														
22		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
23	Monthly Hours	744	721	744	744	672	743	720	744	720	744	744	720	8760
24	Balancing Power Purchases (aMW)	214	32	209	158	170	51	63	5	0	28	65	107	92
25	Balancing Power Purchases Expenses (\$000)	\$ 7,110	\$ 944	\$ 10,360	\$ 6,765	\$ 7,384	\$ 1,963	\$ 1,811	\$ 145	\$ 1	\$ 1,376	\$ 3,633	\$ 4,383	\$ 45,875
26														
27														
28	Transmission re-dispatch for Gen Inputs adjustment	\$ 28	\$ 28	\$ 28	\$ 28	\$ 28	\$ 28	\$ 28	\$ 28	\$ 28	\$ 28	\$ 28	\$ 28	\$ 332
29														
30	SILS Forward Power Purchases (aMW)	63	86	134	159	121	86	62	-	-	-	-	24	61
31	SILS Forward Power Purchases Expenses (\$000)	\$ 2,308	\$ 2,489	\$ 5,625	\$ 5,394	\$ 4,003	\$ 2,489	\$ 1,223	\$ -	\$ -	\$ -	\$ -	\$ 1,064	\$ 24,594
32														
33	Total Power Purchases (aMW)	276	118	343	317	291	138	125	5	0	28	65	131	153
34	Total Power Purchases Expenses (\$000)	\$ 9,446	\$ 3,461	\$ 16,012	\$ 12,187	\$ 11,414	\$ 4,480	\$ 3,062	\$ 172	\$ 28	\$ 1,404	\$ 3,661	\$ 5,474	\$ 70,802

	A	B	C
1	Table 20: Annual Secondary Energy Sales/Revenues and Power Purchases/Expenses for FY 2024 and FY 2025		
2		FY 2024	FY 2025
3	Annual Hours	8,784	8,760
4	Secondary Energy Sales (aMW)	1,619	1,585
5	Secondary Energy Revenues (\$000)	\$ 355,927	\$ 354,973
6	Forward Power Sales (aMW)	0	0
7	Forward Sales Revenue (\$000)	\$ 18,456	\$ 18,456
8			
9	DSI TF Sales Revenue (\$000)	\$ -	
10			
11	Extra Regional Sales Revenue Delta (\$000)	\$ 62,094	\$ 65,713
12			
13	Total Power Sales (aMW)	1,619	1,585
14	Total Power Sales Revenue (\$000)	\$ 436,476	\$ 439,142
15			
16	Balancing Power Purchases (aMW)	111	92
17	Balancing Power Purchases Expenses (\$000)	\$ 55,078	\$ 45,875
18	Transmission Re-dispatch for Gen Inputs Adjustment (\$000)	\$ 332	\$ 332
19	SILS Power Purchases (aMW)	61	61
20	SILS Power Purchases Expenses (\$000)	\$ 25,191	\$ 24,594
21			
22	Total Power Purchases (aMW)	173	153
23	Total Power Purchases Expenses (\$000)	\$ 80,601	\$ 70,802

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

A	B	C	D
	FY23	FY24	FY25
Net Revenue	\$ 429,174	\$ 325,397	\$ 241,020
Non-cash Adj.	\$ 143,062	\$ 371,319	\$ 375,161
Cash Adj.	\$ (746,919)	\$ (526,476)	\$ (530,488)
Other	\$ -	\$ -	\$ -
Accrual to Cash Adj.	\$ (603,857)	\$ (155,158)	\$ (155,327)
Cash Flow	\$ (174,682)	\$ 170,239	\$ 85,693

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

A	B	C	D
	FY23	FY24	FY25
Net Revenue	\$ 66,068	\$ 54,770	\$ 54,729
Non-cash Adj.	\$ 287,958	\$ 343,245	\$ 328,466
Cash Adj.	\$ (322,287)	\$ (397,996)	\$ (383,190)
Other	\$ -	\$ -	\$ -
Accrual to Cash Adj.	\$ (34,329)	\$ (54,751)	\$ (54,723)
Cash Flow	\$ 31,739	\$ 18	\$ 5

Figure 1: Simulated Total PS Wind Generation for FY 2024-2025

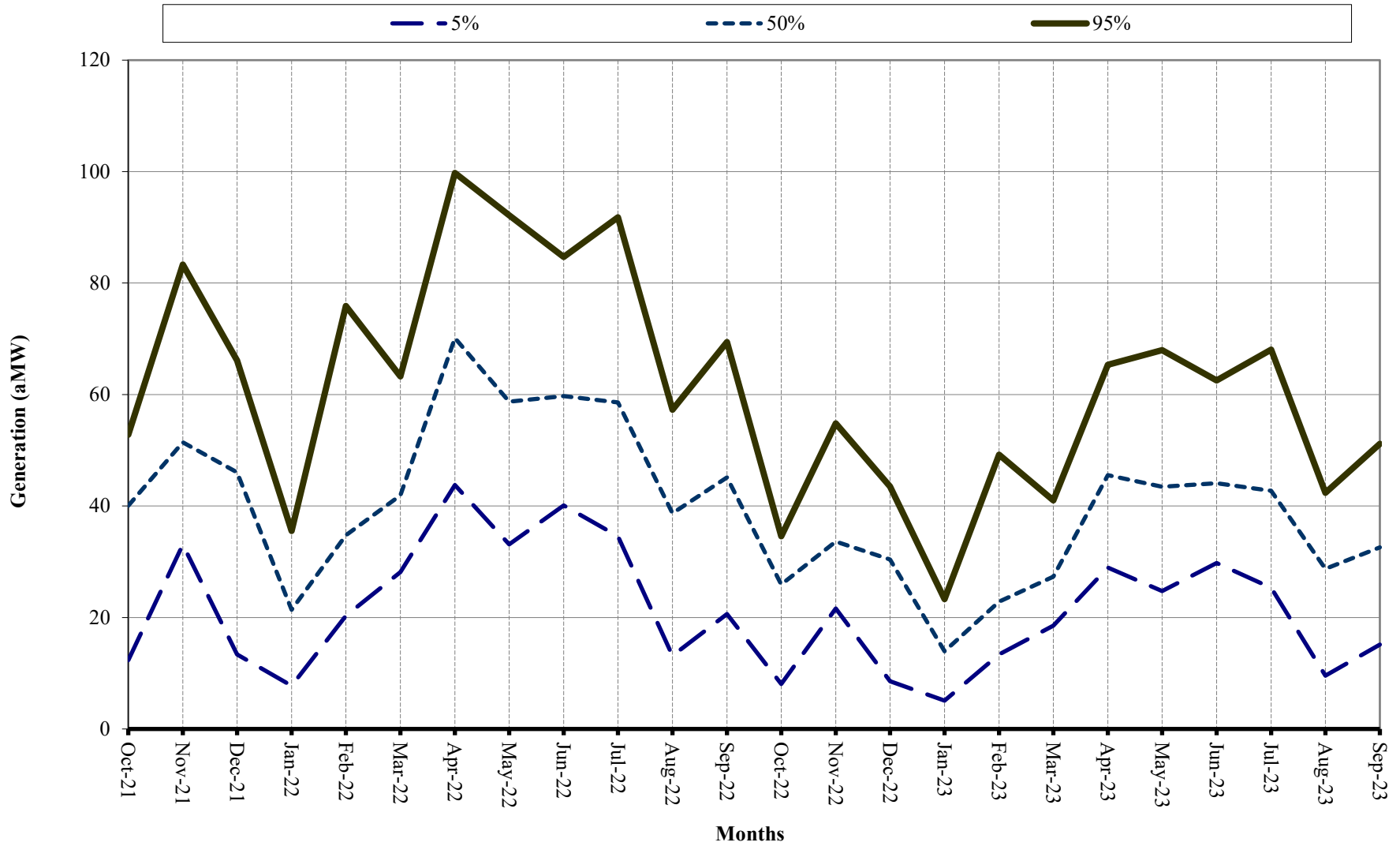


Figure 2: PS Transmission & Ancillary Services Expenses by Amount of Surplus Energy Sales for FY 2024

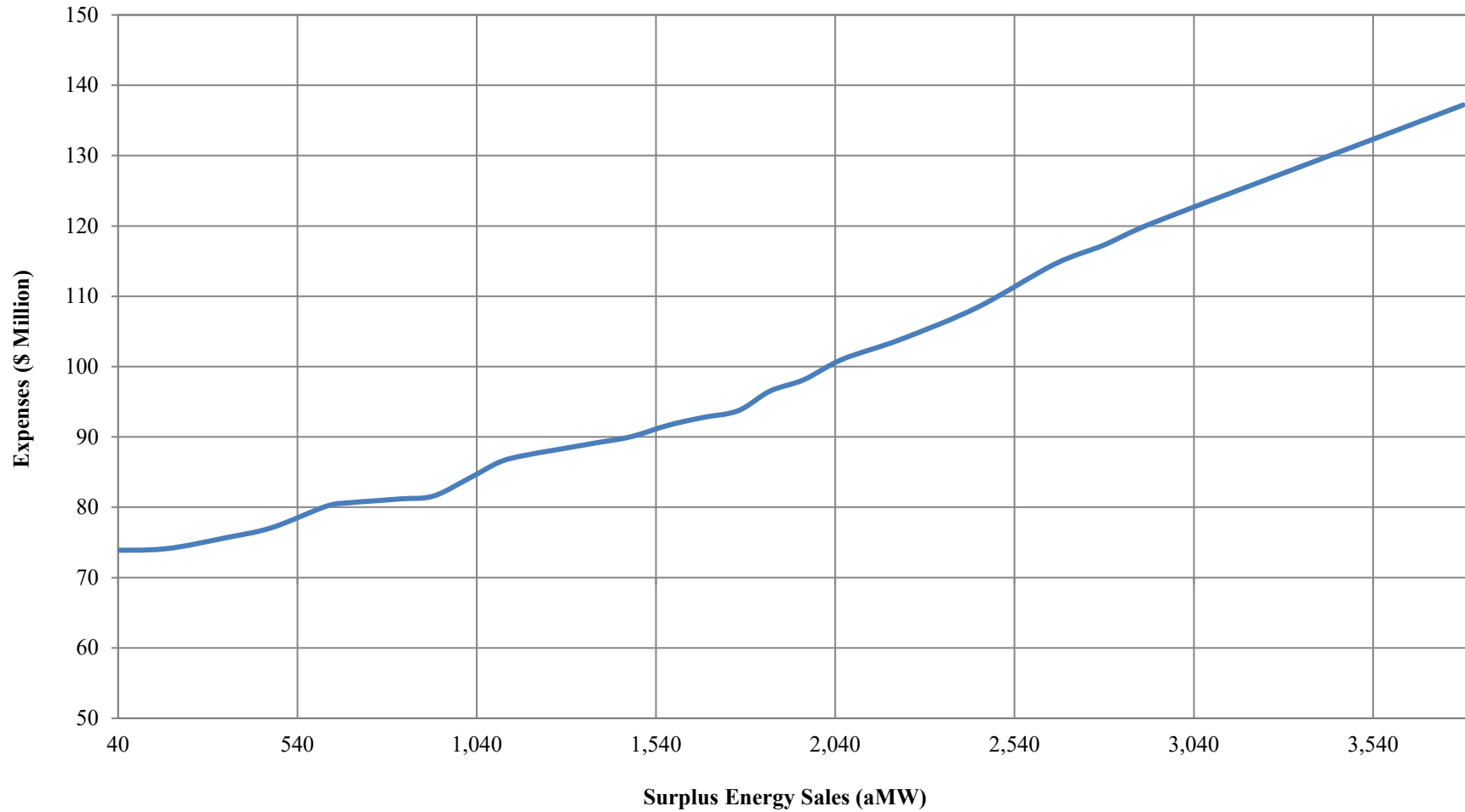


Figure 3: PS Transmission & Ancillary Services Expenses by Amount of Surplus Energy Sales for FY 2025

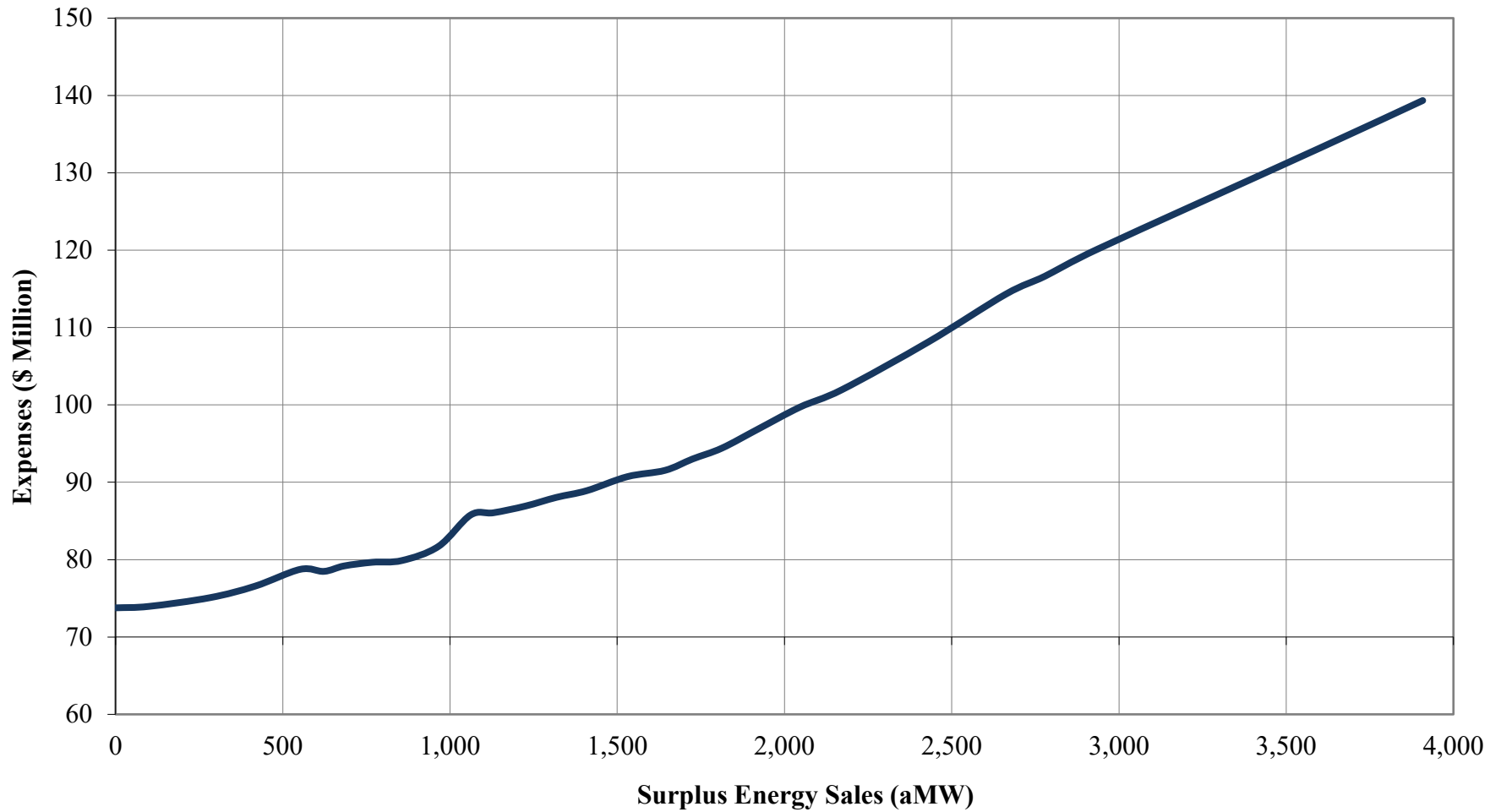


Figure 4: PS Transmission and Ancillary Service Expense Distribution for FY 2024

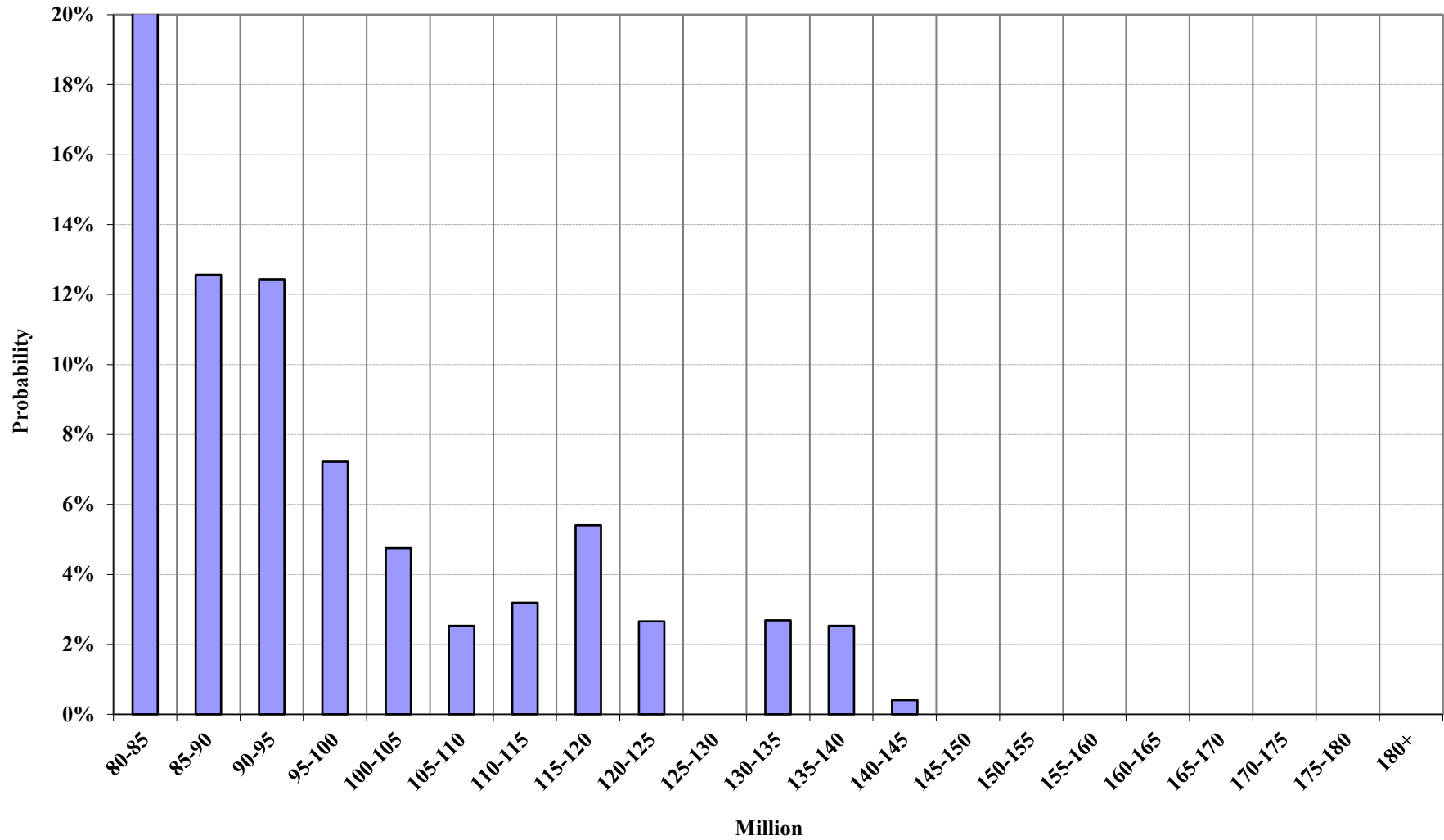


Figure 5: PS Transmission and Ancillary Service Expense Distribution for FY 2025

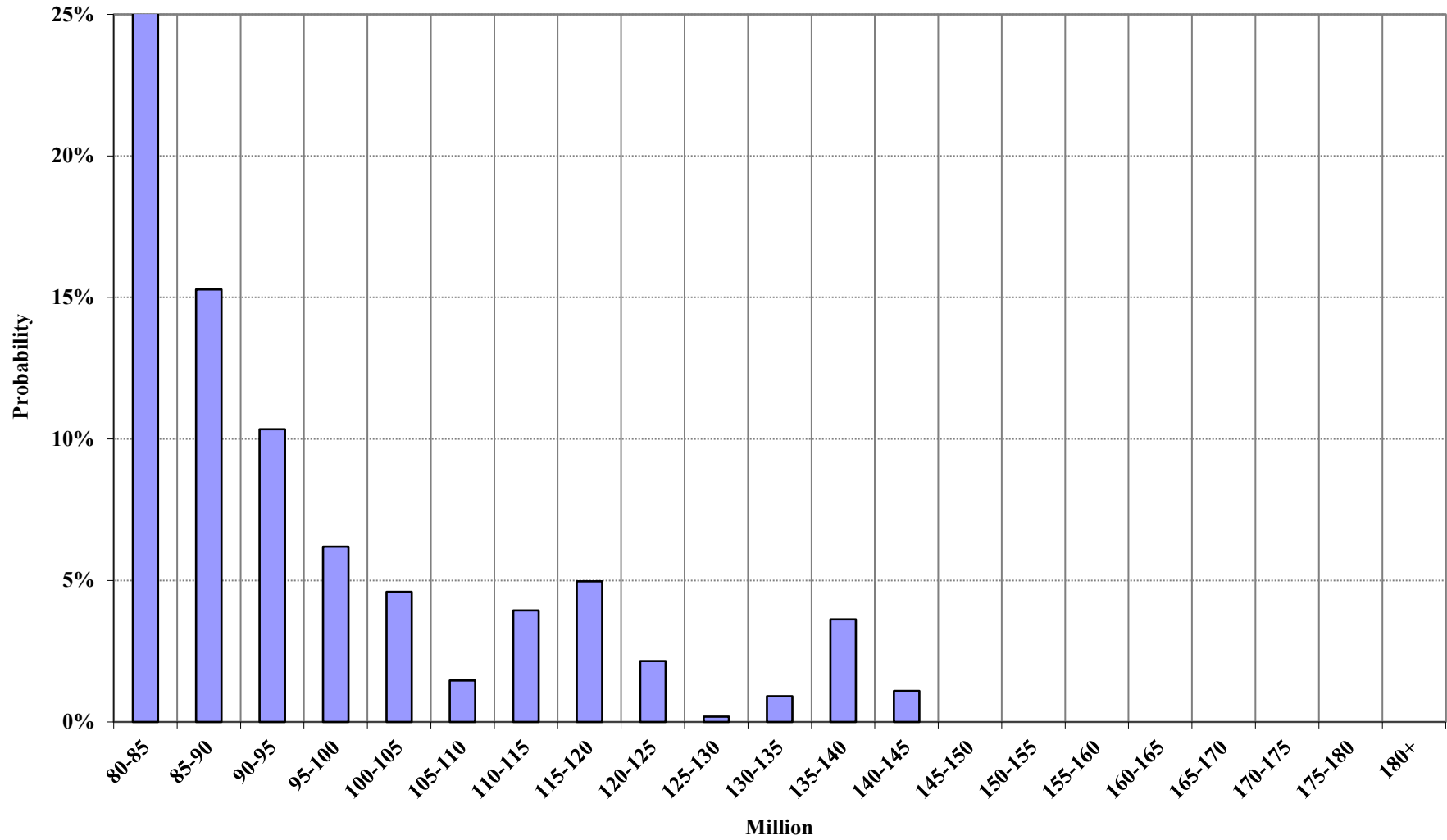


Figure 6: 4(h)(10)(C) Credits Distribution for FY 2024

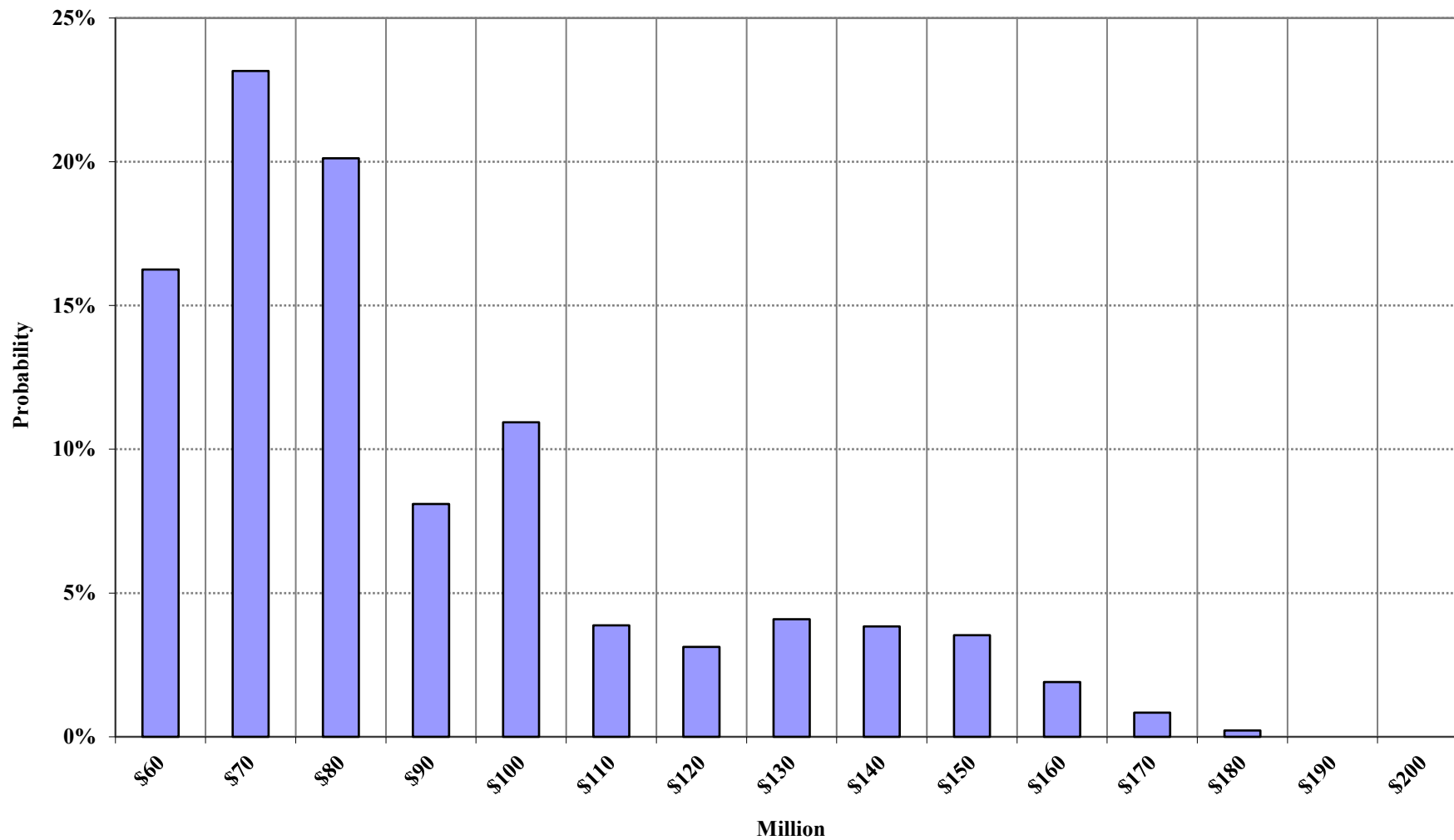
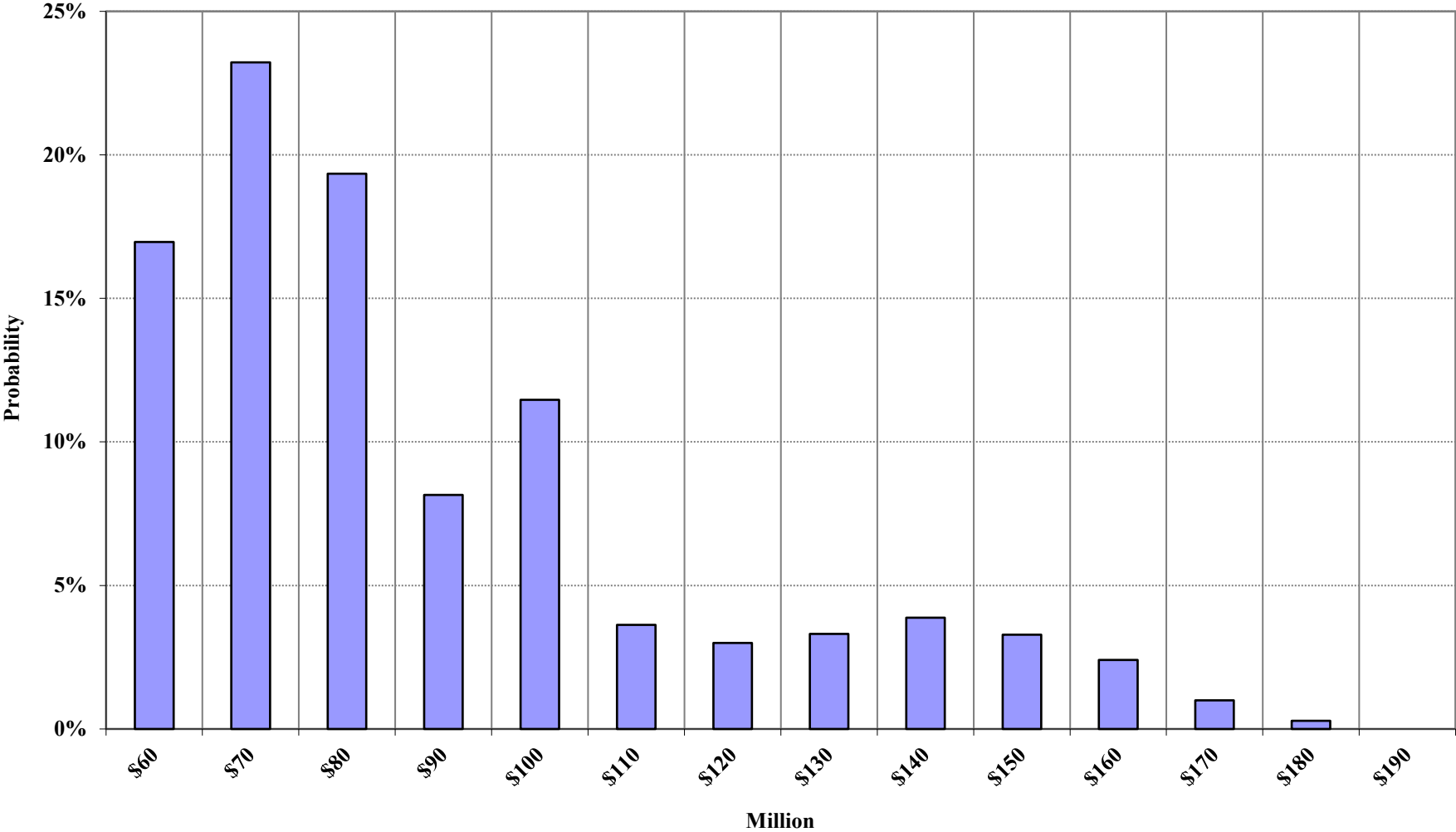
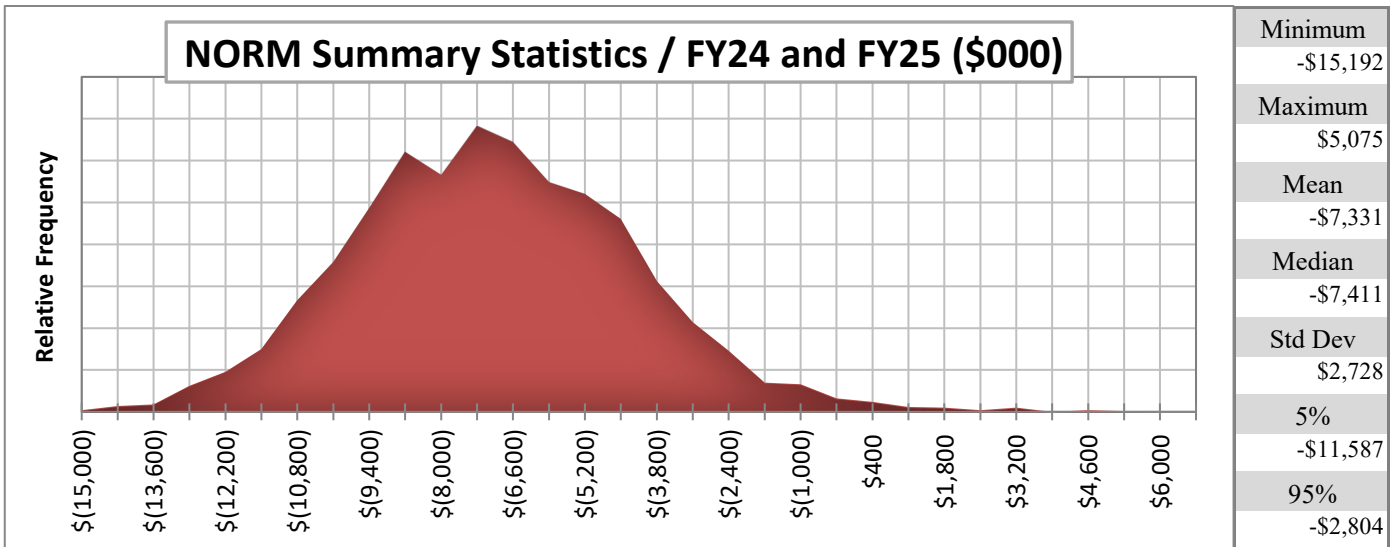
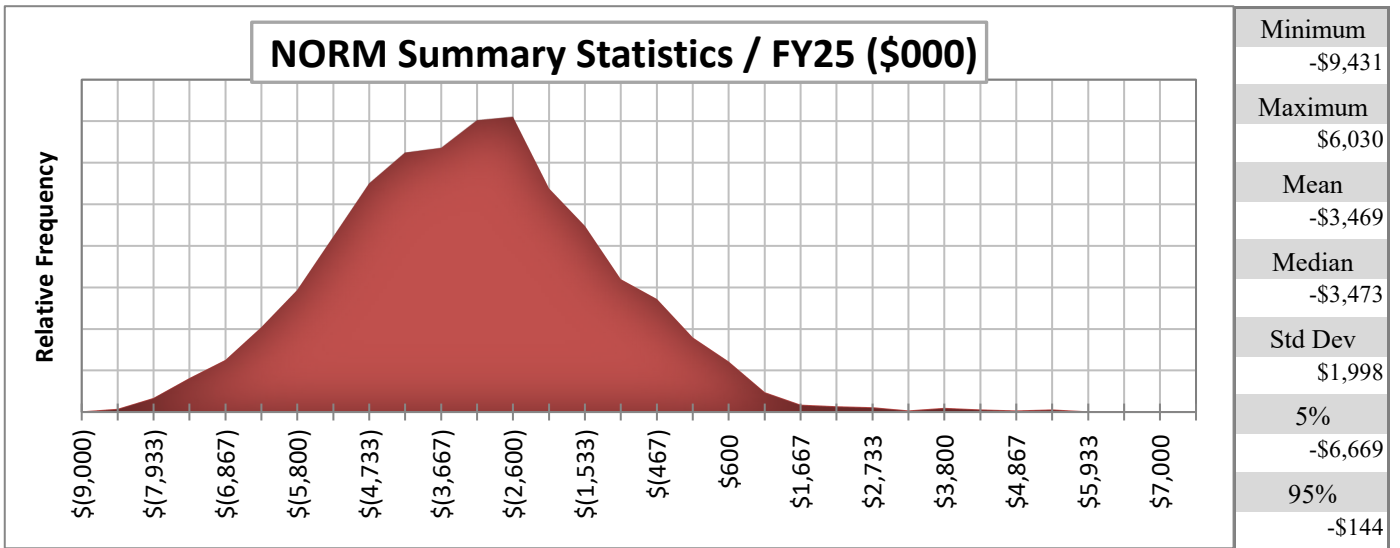
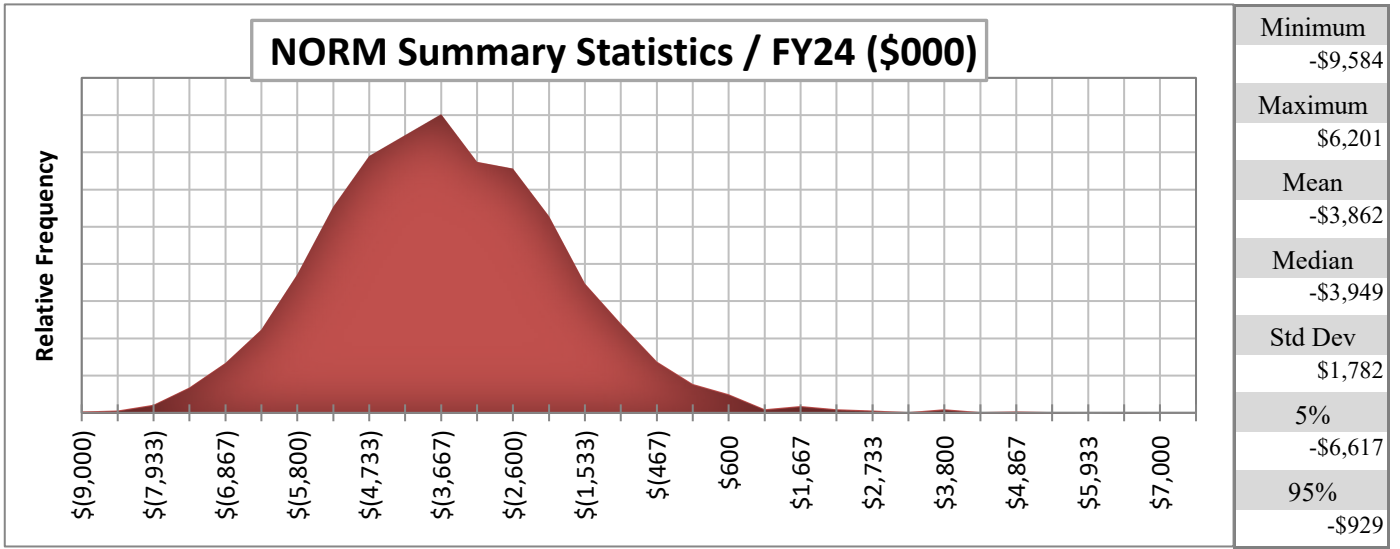


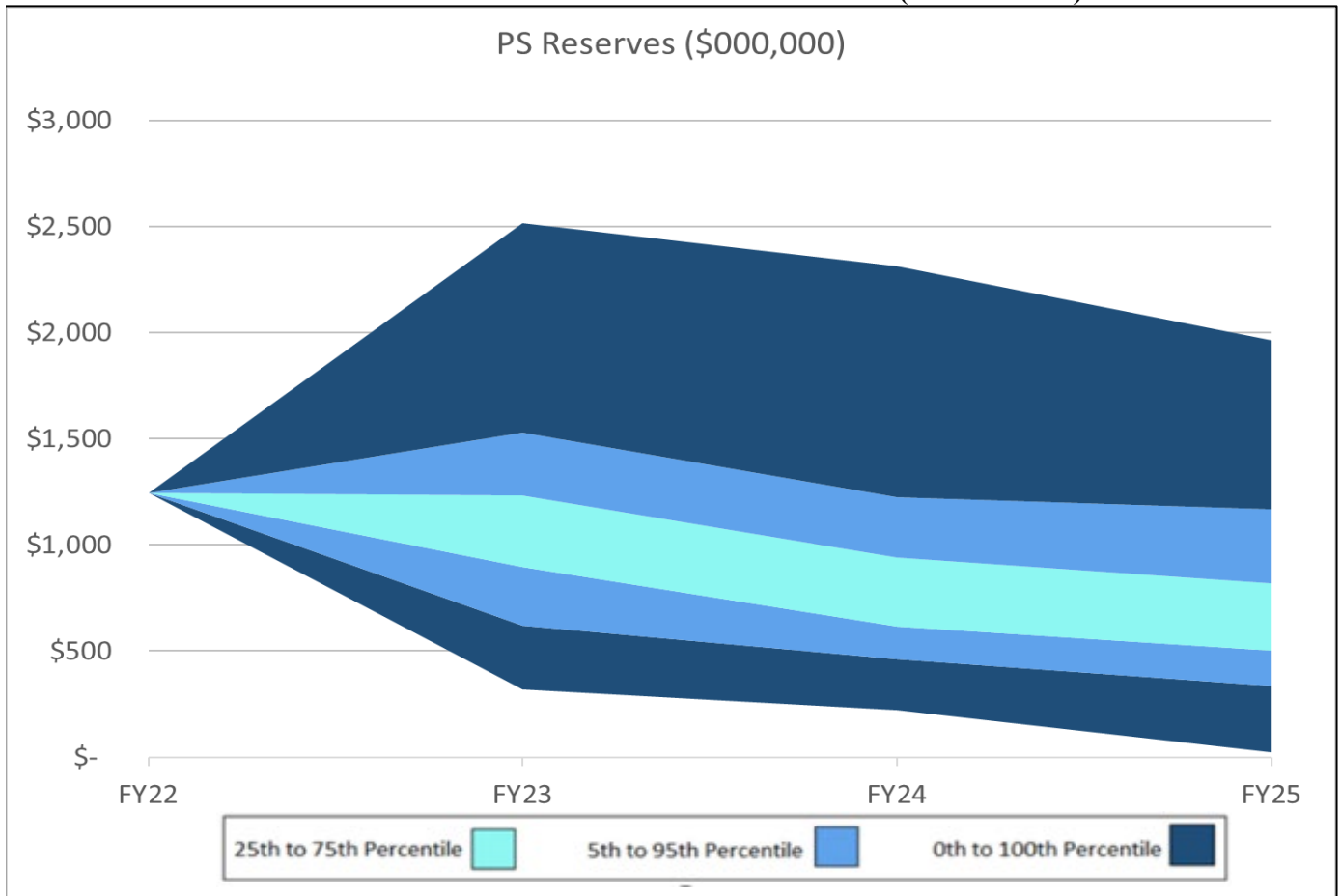
Figure 7: 4(h)(10)(C) Credits Distribution for FY 2025



**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	1244.3	267.1	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_FY24	PS_FY25	TS_FY24	TS_FY25	
PNRR for TPP*	0	0	0	0	PNRR
CRAC Threshold	0	0	0	0	CRAC_T
CRAC CAP	300	300	100	100	CRAC_C
FRPS Threshold	319	319	116	116	FRPS_T
FRPS CAP	40	40	15	15	FRPS_C
RDC Threshold	638	638	233	233	RDC_T
FRPS Agency Threshold	653	653	653	653	RDC_TA
RDC CAP					RDC_C
Revenue Financing	27	27	55	55	RevFin

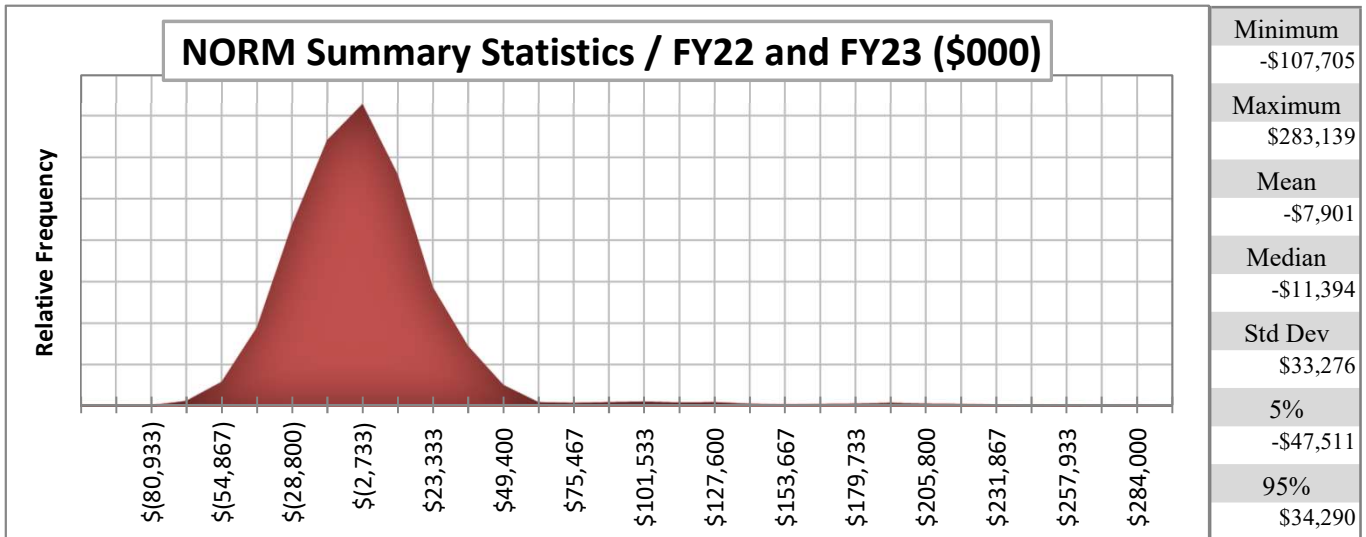
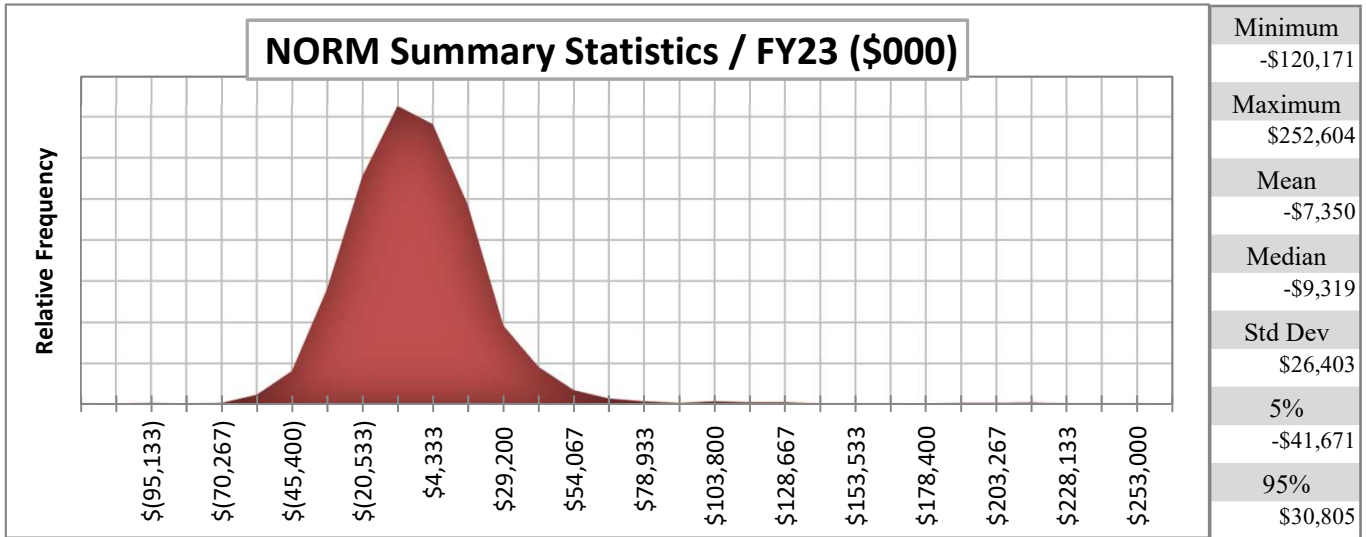
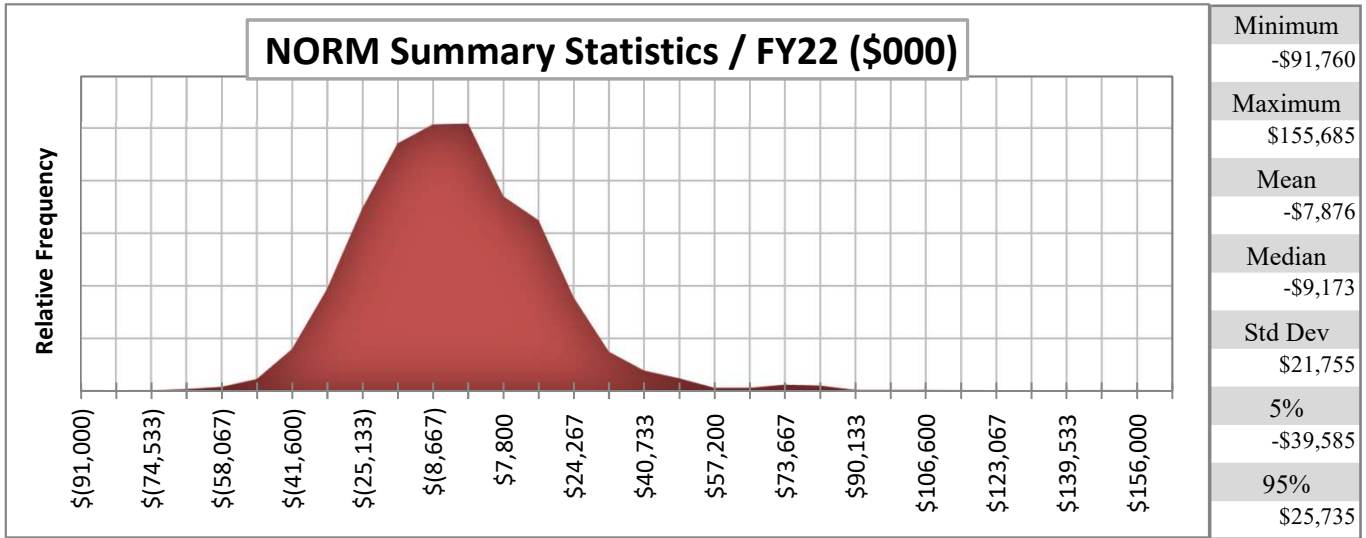
Summary Results

	PS FY23	PS FY24	PS FY25
Two-Year TPP		>99.9%	
PNRR for TPP*		\$0	\$0
CRAC Frequency		0%	0%
Expected Value (EV) CRAC Revenue		\$0	\$0
RDC Frequency	NA	93%	71%
EV RDC		\$437	\$194
FRP Surcharge Frequency		0%	0%
EV Surcharge Revenue		\$0	\$0
Revenue Financing Adjustment		\$0	\$1
Treasury Deferral Frequency	0.0%	0.0%	0.0%
EV Treasury Deferral	\$0	\$0	\$0
EV End of Year Financial Reserves	\$1,070	\$803	\$691
Financial Reserves, 5th percentile	\$618	\$463	\$334
Financial Reserves, 25th percentile	\$895	\$617	\$500
Financial Reserves, 50th percentile	\$1,085	\$790	\$677
Financial Reserves, 75th percentile	\$1,231	\$940	\$819
Financial Reserves, 95th percentile	\$1,527	\$1,225	\$1,168
Probability Reserves Fall below \$0	0%	0%	0%

	TS FY23	TS FY24	TS FY25
		>99.9%	
		\$0	\$0
		0%	0%
		\$0	\$0
	NA	100%	26%
		\$58	\$6
		0%	0%
		\$0	\$0
		\$0	\$0
	0.0%	0.0%	0.0%
	\$0	\$0	\$0
	\$291	\$226	\$212
	\$260	\$191	\$161
	\$276	\$209	\$191
	\$290	\$224	\$210
	\$303	\$239	\$227
	\$325	\$264	\$257
	0%	0%	0%

*\$129 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)**

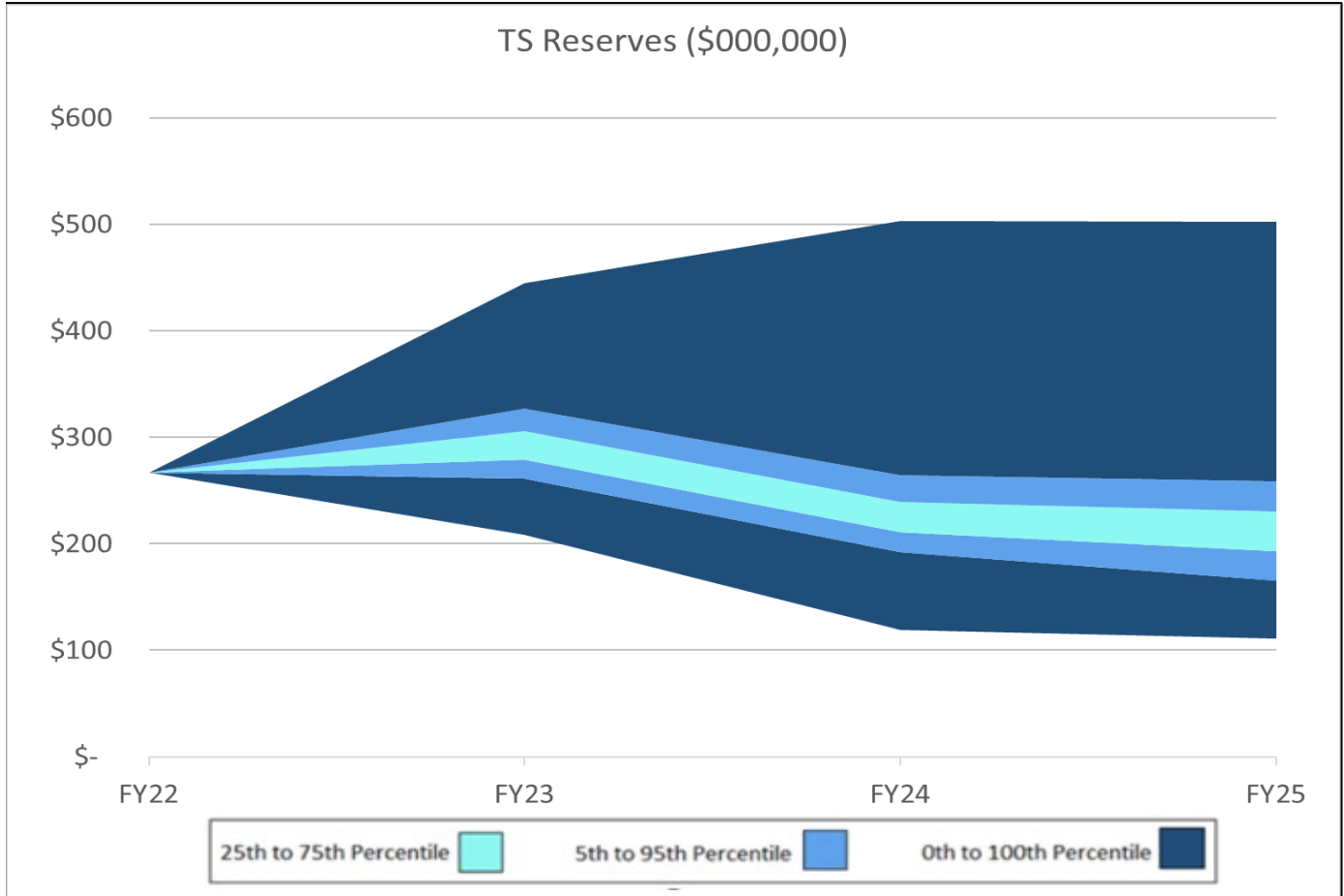


Figure 13:

Transmission Services ToolKit Inputs

ToolKitXL_BP22IP

12/16/2020

Static and starting Inputs

	PS	TS	
Starting RFR	1244.3	267.1	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_FY24	PS_FY25	TS_FY24	TS_FY25	
PNRR	129	129	0	0	PNRR
CRAC Threshold	0	0	0	0	CRAC_T
CRAC CAP	300	300	100	100	CRAC_C
FRPS Threshold	319	319	116	116	FRPS_T
FRPS CAP	40	40	15	15	FRPS_C
RDC Threshold	233	233	233	233	RDC_T
FRPS Agency Threshold	653	653	653	653	RDC_TA
RDC CAP					RDC_C
Revenue Financing	27	27	55	55	RevFin

Summary Results

	PS FY23	PS FY24	PS FY25
Two-Year TPP		>99.9%	
PNRR for TPP*		\$0	\$0
CRAC Frequency		0%	0%
Expected Value (EV) CRAC Revenue		\$0	\$0
RDC Frequency	NA	93%	71%
EV RDC		\$437	\$194
FRP Surcharge Frequency		0%	0%
EV Surcharge Revenue		\$0	\$0
Revenue Financing Adjustment		\$0	\$1
Treasury Deferral Frequency	0.0%	0.0%	0.0%
EV Treasury Deferral	\$0	\$0	\$0
EV End of Year Financial Reserves	\$1,070	\$803	\$691
Financial Reserves, 5th percentile	\$618	\$463	\$334
Financial Reserves, 25th percentile	\$895	\$617	\$500
Financial Reserves, 50th percentile	\$1,085	\$790	\$677
Financial Reserves, 75th percentile	\$1,231	\$940	\$819
Financial Reserves, 95th percentile	\$1,527	\$1,225	\$1,168
Probability Reserves Fall below \$0	0%	0%	0%

	TS FY23	TS FY24	TS FY25
		>99.9%	
		\$0	\$0
		0%	0%
		\$0	\$0
	NA	100%	26%
		\$58	\$6
		0%	0%
		\$0	\$0
		\$0	\$0
	0.0%	0.0%	0.0%
	\$0	\$0	\$0
	\$291	\$226	\$212
	\$260	\$191	\$161
	\$276	\$209	\$191
	\$290	\$224	\$210
	\$303	\$239	\$227
	\$325	\$264	\$257
	0%	0%	0%

*\$129 million in PNRR from settlement is embedded in Power Net Revenue

