

BP-14 Final Rate Proposal

# Power Risk and Market Price Study Documentation

BP-14-FS-BPA-04A

July 2013





## TABLE OF CONTENTS

|  | <b>Page</b> |
|--|-------------|
| COMMONLY USED ACRONYMS AND SHORT FORMS .....   | iii         |
| <br>   |             |
| <b>TABLES</b>  |             |
| Table 1: Control Area to AURORAxmp Zone Mapping.....   | 1           |
| Table 2: Control Area Load Forecast.....   | 2           |
| Table 3: Federal Hydro Generation (aMW) with Hydro Independents for FY 2014 .....  | 10          |
| Table 4: Federal Hydro Generation (aMW) with Hydro Independents for FY 2015 .....  | 12          |
| Table 5: Heavy-Load Hydro Generation Ratios for FY 2014.....   | 14          |
| Table 6: Heavy-Load Hydro Generation Ratios for FY 2015.....   | 16          |
| Table 7: Federal Hydro Generation Adjustment for Stand Ready & Deployment<br>Losses, Light-Load-Hours for FY 2014.....     | 18          |
| Table 8: Federal Hydro Generation Adjustment for Stand Ready & Deployment<br>Losses, Heavy-Load-Hours for FY 2014.....     | 20          |
| Table 9: Federal Hydro Generation Adjustment for Stand Ready & Deployment<br>Losses, Flat Energy for FY 2014 .....         | 22          |
| Table 10: Federal Hydro Generation Adjustment for Stand Ready & Deployment<br>Losses, Light-Load-Hours for FY 2015.....    | 24          |
| Table 11: Federal Hydro Generation Adjustment for Stand Ready & Deployment<br>Losses, Heavy-Load-Hours for FY 2015.....    | 26          |
| Table 12: Federal Hydro Generation Adjustment for Stand Ready & Deployment<br>Losses, Flat Energy for FY 2015 .....        | 28          |
| Table 13: Value of PS Wind Generation at Expected Wind Generation for FY 2014 .....  | 31          |
| Table 14: Value of PS Wind Generation at Expected Wind Generation for FY 2015 .....  | 32          |
| Table 15: 4h10c Credits .....  | 37          |
| Table 16: Augmentation Power Purchases .....   | 40          |
| Table 17: Augmentation Power Purchases - Risk Analysis.....  | 41          |
| Table 18: Calculation of Surplus Energy Sales Revenue and Balancing Purchase<br>Expenses Provided to RAM2014, FY 2014..... | 42          |
| Table 19: Calculation of Surplus Energy Sales Revenue and Balancing Purchase<br>Expenses Provided to RAM2015, FY 2015..... | 43          |
| Table 20: Secondary Sales .....  | 44          |
| Table 21: Balancing Purchases .....  | 45          |
| Table 22: Annual Secondary Sales and Balancing Purchases .....   | 46          |
| Table 23: Interest Rate Forecasts .....  | 58          |
| Table 24: PS End of Year Balances .....  | 68          |

FIGURES

Figure 1: Simulated CGS Output Distribution for October 2013.....4

Figure 2: WECC Renewable Resource Additions.....5

Figure 3: HLH Market Prices for FY 2014 - 2015 .....6

Figure 4: LLH Market Prices for FY 2014 - 2015 .....7

Figure 5: HLH Market Prices for the Critical Water Run .....8

Figure 6: LLH Market Prices for the Critical Water Run .....9

Figure 7: Simulated Total PS Wind Generation for FY 2014-2015.....30

Figure 8: PS Transmission & Ancillary Services Expenses by Amount of Surplus  
Energy Sales For FY 2014.....33

Figure 9: PS Transmission & Ancillary Services Expenses by Amount of Surplus  
Energy Sales For FY 2015.....34

Figure 10: PS Transmission and Ancillary Service Expense Distribution for FY 2014 .....35

Figure 11: PS Transmission and Ancillary Service Expense Distribution for FY 2015 .....36

Figure 12: 4(h)(10)(C) Credits Distribution for FY 2014 .....38

Figure 13: 4(h)(10)(C) Credits Distribution for FY 2015 .....39

Figure 14: CGS O&M Distributions .....47

Figure 15: Corps of Engineers (COE) and Bureau of Reclamation (Reclamation) O&M  
Distributions.....48

Figure 16: Conservation Acquisition Expense Distributions .....49

Figure 17: Spokane Settlement Payment Distributions.....50

Figure 18: Third-Party GTA Wheeling Expense Distributions.....51

Figure 19: Internal Operations Expense Distributions .....52

Figure 20: F&W Direct Program Cost Distributions .....53

Figure 21: Lower Snake River Hatcheries Expense Distributions .....54

Figure 22: Leavenworth Complex O&M Expense Distributions.....55

Figure 23: Fish Passage Facilities Expense Distributions.....56

Figure 24: BiOp Related Court Ordered Spill Revenue Distributions .....57

Figure 25: Federal and Non-Federal Interest Expense Distributions .....59

Figure 26: Federal Appropriations Expense Distributions.....60

Figure 27: CGS Refueling Outage Duration Distributions .....61

Figure 28: CGS Refueling Outage Revenue Impact Distributions .....62

Figure 29: Variable Energy Resource Balancing Services (VERBS) Revenue  
Distributions.....63

Figure 30: Operating Reserve Revenue Distributions.....64

Figure 31: NORM Output Summary Distributions .....65

Figure 32: ToolKit "Main" Sheet .....66

Figure 33: Power Services End of Year Net Reserves .....67

## COMMONLY USED ACRONYMS AND SHORT FORMS

|                                    |  |
|------------------------------------|--|
| AAC                                | Anticipated Accumulation of Cash                                     |
| AGC                                | Automatic Generation Control   |
| ALF                                | Agency Load Forecast (computer model)                                |
| aMW                                | average megawatt(s)  |
| AMNR                               | Accumulated Modified Net Revenues                                    |
| ANR                                | Accumulated Net Revenues   |
| ASC                                | Average System Cost  |
| BiOp                               | Biological Opinion   |
| BPA                                | Bonneville Power Administration                                      |
| Btu                                | British thermal unit   |
| CDD                                | cooling degree day(s)  |
| CDQ                                | Contract Demand Quantity   |
| CGS                                | Columbia Generating Station  |
| CHWM                               | Contract High Water Mark   |
| COE, Corps, or USACE<br>Commission | U.S. Army Corps of Engineers<br>Federal Energy Regulatory Commission |
| Corps, COE, or USACE               | U.S. Army Corps of Engineers   |
| COSA                               | Cost of Service Analysis   |
| COU                                | consumer-owned utility   |
| Council or NPCC                    | Northwest Power and Conservation Council                             |
| CP                                 | Coincidental Peak  |
| CRAC                               | Cost Recovery Adjustment Clause                                      |
| CSP                                | Customer System Peak   |
| CT                                 | combustion turbine   |
| CY                                 | calendar year (January through December)                             |
| DDC                                | Dividend Distribution Clause   |
| <i>dec</i>                         | decrease, decrement, or decremental                                  |
| DERBS                              | Dispatchable Energy Resource Balancing Service                       |
| DFS                                | Diurnal Flattening Service   |
| DOE                                | Department of Energy   |
| DSI                                | direct-service industrial customer or direct-service industry        |
| DSO                                | Dispatcher Standing Order  |
| EIA                                | Energy Information Administration                                    |
| EIS                                | Environmental Impact Statement                                       |
| EN                                 | Energy Northwest, Inc.   |
| EPP                                | Environmentally Preferred Power                                      |
| ESA                                | Endangered Species Act   |
| e-Tag                              | electronic interchange transaction information                       |
| FBS                                | Federal base system  |
| FCRPS                              | Federal Columbia River Power System                                  |
| FCRTS                              | Federal Columbia River Transmission System                           |
| FELCC                              | firm energy load carrying capability                                 |
| FHFO                               | Funds Held for Others  |
| FORS                               | Forced Outage Reserve Service  |

|                     |  |
|---------------------|--|
| FPS                 | Firm Power Products and Services (rate)  |
| FY                  | fiscal year (October through September)  |
| GARD                | Generation and Reserves Dispatch (computer model)  |
| GEP                 | Green Energy Premium   |
| GRSPs               | General Rate Schedule Provisions   |
| GTA                 | General Transfer Agreement   |
| GWh                 | gigawatthour   |
| HDD                 | heating degree day(s)  |
| HLH                 | Heavy Load Hour(s)   |
| HOSS                | Hourly Operating and Scheduling Simulator (computer model)   |
| HYDSIM              | Hydrosystem Simulator (computer model)   |
| ICE                 | Intercontinental Exchange  |
| <i>inc</i>          | increase, increment, or incremental  |
| IOU                 | investor-owned utility   |
| IP                  | Industrial Firm Power (rate)   |
| IPR                 | Integrated Program Review  |
| IRD                 | Irrigation Rate Discount   |
| IRM                 | Irrigation Rate Mitigation   |
| IRMP                | Irrigation Rate Mitigation Product   |
| JOE                 | Joint Operating Entity   |
| kW                  | kilowatt (1000 watts)  |
| kWh                 | kilowatthour   |
| LDD                 | Low Density Discount   |
| LLH                 | Light Load Hour(s)   |
| LRA                 | Load Reduction Agreement   |
| Maf                 | million acre-feet  |
| Mid-C               | Mid-Columbia   |
| MMBtu               | million British thermal units  |
| MNR                 | Modified Net Revenues  |
| MRNR                | Minimum Required Net Revenue   |
| MW                  | megawatt (1 million watts)   |
| MWh                 | megawatthour   |
| NCP                 | Non-Coincidental Peak  |
| NEPA                | National Environmental Policy Act  |
| NERC                | North American Electric Reliability Corporation  |
| NFB                 | National Marine Fisheries Service (NMFS) Federal Columbia River Power System (FCRPS) Biological Opinion (BiOp) |
| NLSL                | New Large Single Load  |
| NMFS                | National Marine Fisheries Service  |
| NOAA Fisheries      | National Oceanographic and Atmospheric Administration Fisheries  |
| NORM                | Non-Operating Risk Model (computer model)  |
| Northwest Power Act | Pacific Northwest Electric Power Planning and Conservation Act   |
| NPCC or Council     | Pacific Northwest Electric Power and Conservation Planning Council   |

|                     |  |
|---------------------|--|
| NPV                 | net present value                                |
| NR                  | New Resource Firm Power (rate)                   |
| NT                  | Network Transmission                             |
| NTSA                | Non-Treaty Storage Agreement                     |
| NUG                 | non-utility generation                           |
| NWPP                | Northwest Power Pool                             |
| OATT                | Open Access Transmission Tariff                  |
| O&M                 | operation and maintenance                        |
| OATI                | Open Access Technology International, Inc.       |
| OMB                 | Office of Management and Budget                  |
| OY                  | operating year (August through July)             |
| PF                  | Priority Firm Power (rate)                       |
| PFp                 | Priority Firm Public (rate)                      |
| PFx                 | Priority Firm Exchange (rate)                    |
| PNCA                | Pacific Northwest Coordination Agreement         |
| PNRR                | Planned Net Revenues for Risk                    |
| PNW                 | Pacific Northwest                                |
| POD                 | Point of Delivery                                |
| POI                 | Point of Integration or Point of Interconnection |
| POM                 | Point of Metering                                |
| POR                 | Point of Receipt                                 |
| Project Act         | Bonneville Project Act                           |
| PRS                 | Power Rates Study                                |
| PS                  | BPA Power Services                               |
| PSW                 | Pacific Southwest                                |
| PTP                 | Point to Point Transmission (rate)               |
| PUD                 | public or people's utility district              |
| RAM                 | Rate Analysis Model (computer model)             |
| RAS                 | Remedial Action Scheme                           |
| RD                  | Regional Dialogue                                |
| REC                 | Renewable Energy Certificate                     |
| Reclamation or USBR | U.S. Bureau of Reclamation                       |
| REP                 | Residential Exchange Program                     |
| RevSim              | Revenue Simulation Model (component of RiskMod)  |
| RFA                 | Revenue Forecast Application (database)          |
| RHWM                | Rate Period High Water Mark                      |
| RiskMod             | Risk Analysis Model (computer model)             |
| RiskSim             | Risk Simulation Model (component of RiskMod)     |
| ROD                 | Record of Decision                               |
| RPSA                | Residential Purchase and Sale Agreement          |
| RR                  | Resource Replacement (rate)                      |
| RRS                 | Resource Remarketing Service                     |
| RSS                 | Resource Support Services                        |
| RT1SC               | RHWM Tier 1 System Capability                    |
| RTO                 | Regional Transmission Operator                   |
| SCADA               | Supervisory Control and Data Acquisition         |

|                         |  |
|-------------------------|--|
| SCS                     | Secondary Crediting Service                              |
| Slice                   | Slice of the System (product)                            |
| T1SFCO                  | Tier 1 System Firm Critical Output                       |
| TCMS                    | Transmission Curtailment Management Service              |
| TOCA                    | Tier 1 Cost Allocator                                    |
| TPP                     | Treasury Payment Probability                             |
| TRAM                    | Transmission Risk Analysis Model                         |
| Transmission System Act | Federal Columbia River Transmission System Act           |
| TRL                     | Total Retail Load  |
| TRM                     | Tiered Rate Methodology                                  |
| TS                      | BPA Transmission Services                                |
| TSS                     | Transmission Scheduling Service                          |
| UAI                     | Unauthorized Increase                                    |
| ULS                     | Unanticipated Load Service                               |
| USACE, Corps, or COE    | U.S. Army Corps of Engineers                             |
| USBR or Reclamation     | U.S. Bureau of Reclamation                               |
| USFWS                   | U.S. Fish and Wildlife Service                           |
| VERBS                   | Variable Energy Resources Balancing Service (rate)       |
| VOR                     | Value of Reserves  |
| VR1-2014                | First Vintage rate of the BP-14 rate period              |
| WECC                    | Western Electricity Coordinating Council (formerly WSCC) |
| WIT                     | Wind Integration Team                                    |
| WSPP                    | Western Systems Power                                    |



|    | A  | B       | C       | D               | E      | F        | G               | H            | I              | J      | K       | L       | M        | N       | O         | P           | Q           | R         | S             | T              | U           | V              | W              | X             | Y                   | Z                 | AA          | AB                    | AC   | AD      |      |  |
|----|--|---------|---------|-----------------|--------|----------|-----------------|--------------|----------------|--------|---------|---------|----------|---------|-----------|-------------|-------------|-----------|---------------|----------------|-------------|----------------|----------------|---------------|---------------------|-------------------|-------------|-----------------------|------|---------|------|--|
| 1  | <b>Table 1: Control Area to AURORAxmp Zone Mapping</b> |         |         |                 |        |          |                 |              |                |        |         |         |          |         |           |             |             |           |               |                |             |                |                |               |                     |                   |             |                       |      |         |      |  |
| 2  | BA   | Alberta | Arizona | BritishColumbia | CA_IID | CA_LADWP | CA_PGandE_North | CA_PGandE_SF | CA_PGandE_ZP26 | CA_SCE | CA_SDGE | CA_SMUD | Colorado | Montana | MontanaNW | NevadaNorth | NevadaSouth | NewMexico | PNW_IdahoEast | PNW_IdahoSouth | PNW_Olympia | PNW_OregonEast | PNW_OregonWest | PNW_PACWSouth | PNW_PugetSoundNorth | PNW_SeattleTacoma | PNW_Spokane | PNW_WashingtonCentral | Utah | Wyoming |      |  |
| 3  | AESO   | 1.00    | 0.00    | 0.00            | 0.00   | 0.00     | 0.00            | 0.00         | 0.00           | 0.00   | 0.00    | 0.00    | 0.00     | 0.00    | 0.00      | 0.00        | 0.00        | 0.00      | 0.00          | 0.00           | 0.00        | 0.00           | 0.00           | 0.00          | 0.00                | 0.00              | 0.00        | 0.00                  | 0.00 | 0.00    | 0.00 |  |
| 4  | APS  | 0.00    | 1.00    | 0.00            | 0.00   | 0.00     | 0.00            | 0.00         | 0.00           | 0.00   | 0.00    | 0.00    | 0.00     | 0.00    | 0.00      | 0.00        | 0.00        | 0.00      | 0.00          | 0.00           | 0.00        | 0.00           | 0.00           | 0.00          | 0.00                | 0.00              | 0.00        | 0.00                  | 0.00 | 0.00    | 0.00 |  |
| 5  | AVA  | 0.00    | 0.00    | 0.00            | 0.00   | 0.00     | 0.00            | 0.00         | 0.00           | 0.00   | 0.00    | 0.00    | 0.00     | 0.00    | 0.00      | 0.00        | 0.00        | 0.00      | 0.00          | 0.00           | 0.00        | 0.00           | 0.00           | 0.00          | 0.00                | 0.00              | 0.00        | 1.00                  | 0.00 | 0.00    | 0.00 |  |
| 6  | BCHA   | 0.00    | 0.00    | 1.00            | 0.00   | 0.00     | 0.00            | 0.00         | 0.00           | 0.00   | 0.00    | 0.00    | 0.00     | 0.00    | 0.00      | 0.00        | 0.00        | 0.00      | 0.00          | 0.00           | 0.00        | 0.00           | 0.00           | 0.00          | 0.00                | 0.00              | 0.00        | 0.00                  | 0.00 | 0.00    | 0.00 |  |
| 7  | BPA  | 0.00    | 0.00    | 0.00            | 0.00   | 0.00     | 0.00            | 0.00         | 0.00           | 0.00   | 0.00    | 0.00    | 0.00     | 0.00    | 0.07      | 0.00        | 0.00        | 0.00      | 0.01          | 0.01           | 0.12        | 0.09           | 0.39           | 0.01          | 0.15                | 0.01              | 0.03        | 0.10                  | 0.00 | 0.01    |      |  |
| 8  | CHPD   | 0.00    | 0.00    | 0.00            | 0.00   | 0.00     | 0.00            | 0.00         | 0.00           | 0.00   | 0.00    | 0.00    | 0.00     | 0.00    | 0.00      | 0.00        | 0.00        | 0.00      | 0.00          | 0.00           | 0.00        | 0.00           | 0.00           | 0.00          | 0.00                | 0.00              | 0.00        | 1.00                  | 0.00 | 0.00    |      |  |
| 9  | CISO   | 0.00    | 0.00    | 0.00            | 0.00   | 0.00     | 0.39            | 0.02         | 0.04           | 0.46   | 0.09    | 0.00    | 0.00     | 0.00    | 0.00      | 0.00        | 0.00        | 0.00      | 0.00          | 0.00           | 0.00        | 0.00           | 0.00           | 0.00          | 0.00                | 0.00              | 0.00        | 0.00                  | 0.00 | 0.00    |      |  |
| 10 | DOPD   | 0.00    | 0.00    | 0.00            | 0.00   | 0.00     | 0.00            | 0.00         | 0.00           | 0.00   | 0.00    | 0.00    | 0.00     | 0.00    | 0.00      | 0.00        | 0.00        | 0.00      | 0.00          | 0.00           | 0.00        | 0.00           | 0.00           | 0.00          | 0.00                | 0.00              | 0.00        | 1.00                  | 0.00 | 0.00    |      |  |
| 11 | EPE  | 0.00    | 0.00    | 0.00            | 0.00   | 0.00     | 0.00            | 0.00         | 0.00           | 0.00   | 0.00    | 0.00    | 0.00     | 0.00    | 0.00      | 0.00        | 0.00        | 1.00      | 0.00          | 0.00           | 0.00        | 0.00           | 0.00           | 0.00          | 0.00                | 0.00              | 0.00        | 0.00                  | 0.00 | 0.00    |      |  |
| 12 | GCPD   | 0.00    | 0.00    | 0.00            | 0.00   | 0.00     | 0.00            | 0.00         | 0.00           | 0.00   | 0.00    | 0.00    | 0.00     | 0.00    | 0.00      | 0.00        | 0.00        | 0.00      | 0.00          | 0.00           | 0.00        | 0.00           | 0.00           | 0.00          | 0.00                | 0.00              | 0.00        | 1.00                  | 0.00 | 0.00    |      |  |
| 13 | IID  | 0.00    | 0.00    | 0.00            | 1.00   | 0.00     | 0.00            | 0.00         | 0.00           | 0.00   | 0.00    | 0.00    | 0.00     | 0.00    | 0.00      | 0.00        | 0.00        | 0.00      | 0.00          | 0.00           | 0.00        | 0.00           | 0.00           | 0.00          | 0.00                | 0.00              | 0.00        | 0.00                  | 0.00 | 0.00    |      |  |
| 14 | IPC  | 0.00    | 0.00    | 0.00            | 0.00   | 0.00     | 0.00            | 0.00         | 0.00           | 0.00   | 0.00    | 0.00    | 0.00     | 0.00    | 0.00      | 0.00        | 0.00        | 0.00      | 0.00          | 1.00           | 0.00        | 0.00           | 0.00           | 0.00          | 0.00                | 0.00              | 0.00        | 0.00                  | 0.00 | 0.00    |      |  |
| 15 | LDWP   | 0.00    | 0.00    | 0.00            | 0.00   | 1.00     | 0.00            | 0.00         | 0.00           | 0.00   | 0.00    | 0.00    | 0.00     | 0.00    | 0.00      | 0.00        | 0.00        | 0.00      | 0.00          | 0.00           | 0.00        | 0.00           | 0.00           | 0.00          | 0.00                | 0.00              | 0.00        | 0.00                  | 0.00 | 0.00    |      |  |
| 16 | NEVP   | 0.00    | 0.00    | 0.00            | 0.00   | 0.00     | 0.00            | 0.00         | 0.00           | 0.00   | 0.00    | 0.00    | 0.00     | 0.00    | 0.00      | 0.00        | 1.00        | 0.00      | 0.00          | 0.00           | 0.00        | 0.00           | 0.00           | 0.00          | 0.00                | 0.00              | 0.00        | 0.00                  | 0.00 | 0.00    |      |  |
| 17 | NWE  | 0.00    | 0.00    | 0.00            | 0.00   | 0.00     | 0.00            | 0.00         | 0.00           | 0.00   | 0.00    | 0.00    | 0.00     | 0.82    | 0.15      | 0.00        | 0.00        | 0.00      | 0.00          | 0.00           | 0.00        | 0.00           | 0.00           | 0.00          | 0.00                | 0.00              | 0.00        | 0.00                  | 0.00 | 0.03    |      |  |
| 18 | PAC  | 0.00    | 0.01    | 0.00            | 0.00   | 0.00     | 0.00            | 0.00         | 0.00           | 0.00   | 0.00    | 0.00    | 0.00     | 0.00    | 0.00      | 0.00        | 0.00        | 0.00      | 0.10          | 0.00           | 0.00        | 0.00           | 0.01           | 0.03          | 0.00                | 0.00              | 0.00        | 0.00                  | 0.64 | 0.22    |      |  |
| 19 | PGE  | 0.00    | 0.00    | 0.00            | 0.00   | 0.00     | 0.00            | 0.00         | 0.00           | 0.00   | 0.00    | 0.00    | 0.00     | 0.00    | 0.00      | 0.00        | 0.00        | 0.00      | 0.00          | 0.00           | 0.00        | 1.00           | 0.00           | 0.00          | 0.00                | 0.00              | 0.00        | 0.00                  | 0.00 | 0.00    |      |  |
| 20 | PNM  | 0.00    | 0.00    | 0.00            | 0.00   | 0.00     | 0.00            | 0.00         | 0.00           | 0.00   | 0.00    | 0.00    | 0.00     | 0.00    | 0.00      | 0.00        | 1.00        | 0.00      | 0.00          | 0.00           | 0.00        | 0.00           | 0.00           | 0.00          | 0.00                | 0.00              | 0.00        | 0.00                  | 0.00 | 0.00    |      |  |
| 21 | PSC  | 0.00    | 0.00    | 0.00            | 0.00   | 0.00     | 0.00            | 0.00         | 0.00           | 0.00   | 0.00    | 0.00    | 0.85     | 0.00    | 0.00      | 0.00        | 0.00        | 0.13      | 0.00          | 0.00           | 0.00        | 0.00           | 0.00           | 0.00          | 0.00                | 0.00              | 0.00        | 0.00                  | 0.00 | 0.02    |      |  |
| 22 | PSE  | 0.00    | 0.00    | 0.00            | 0.00   | 0.00     | 0.00            | 0.00         | 0.00           | 0.00   | 0.00    | 0.00    | 0.00     | 0.00    | 0.00      | 0.00        | 0.00        | 0.00      | 0.00          | 0.00           | 0.00        | 0.00           | 0.00           | 0.00          | 0.60                | 0.40              | 0.00        | 0.00                  | 0.00 |         |      |  |
| 23 | SCL  | 0.00    | 0.00    | 0.00            | 0.00   | 0.00     | 0.00            | 0.00         | 0.00           | 0.00   | 0.00    | 0.00    | 0.00     | 0.00    | 0.00      | 0.00        | 0.00        | 0.00      | 0.00          | 0.00           | 0.00        | 0.00           | 0.00           | 0.00          | 0.00                | 1.00              | 0.00        | 0.00                  | 0.00 |         |      |  |
| 24 | SMUD   | 0.00    | 0.00    | 0.00            | 0.00   | 0.00     | 0.00            | 0.00         | 0.00           | 0.00   | 1.00    | 0.00    | 0.00     | 0.00    | 0.00      | 0.00        | 0.00        | 0.00      | 0.00          | 0.00           | 0.00        | 0.00           | 0.00           | 0.00          | 0.00                | 0.00              | 0.00        | 0.00                  | 0.00 | 0.00    |      |  |
| 25 | SPR  | 0.00    | 0.00    | 0.00            | 0.00   | 0.00     | 0.01            | 0.00         | 0.00           | 0.00   | 0.00    | 0.00    | 0.00     | 0.00    | 0.00      | 0.97        | 0.00        | 0.00      | 0.00          | 0.00           | 0.00        | 0.02           | 0.00           | 0.00          | 0.00                | 0.00              | 0.00        | 0.00                  | 0.00 | 0.00    |      |  |
| 26 | SRP  | 0.00    | 1.00    | 0.00            | 0.00   | 0.00     | 0.00            | 0.00         | 0.00           | 0.00   | 0.00    | 0.00    | 0.00     | 0.00    | 0.00      | 0.00        | 0.00        | 0.00      | 0.00          | 0.00           | 0.00        | 0.00           | 0.00           | 0.00          | 0.00                | 0.00              | 0.00        | 0.00                  | 0.00 | 0.00    |      |  |
| 27 | TEP  | 0.00    | 1.00    | 0.00            | 0.00   | 0.00     | 0.00            | 0.00         | 0.00           | 0.00   | 0.00    | 0.00    | 0.00     | 0.00    | 0.00      | 0.00        | 0.00        | 0.00      | 0.00          | 0.00           | 0.00        | 0.00           | 0.00           | 0.00          | 0.00                | 0.00              | 0.00        | 0.00                  | 0.00 | 0.00    |      |  |
| 28 | TID  | 0.00    | 0.00    | 0.00            | 0.00   | 0.00     | 1.00            | 0.00         | 0.00           | 0.00   | 0.00    | 0.00    | 0.00     | 0.00    | 0.00      | 0.00        | 0.00        | 0.00      | 0.00          | 0.00           | 0.00        | 0.00           | 0.00           | 0.00          | 0.00                | 0.00              | 0.00        | 0.00                  | 0.00 | 0.00    |      |  |
| 29 | TPWR   | 0.00    | 0.00    | 0.00            | 0.00   | 0.00     | 0.00            | 0.00         | 0.00           | 0.00   | 0.00    | 0.00    | 0.00     | 0.00    | 0.00      | 0.00        | 0.00        | 0.00      | 0.00          | 0.00           | 0.00        | 0.00           | 0.00           | 0.00          | 0.00                | 1.00              | 0.00        | 0.00                  | 0.00 | 0.00    |      |  |
| 30 | WACM   | 0.00    | 0.00    | 0.00            | 0.00   | 0.00     | 0.00            | 0.00         | 0.00           | 0.00   | 0.00    | 0.00    | 0.26     | 0.00    | 0.00      | 0.00        | 0.00        | 0.00      | 0.00          | 0.00           | 0.00        | 0.00           | 0.00           | 0.00          | 0.00                | 0.00              | 0.00        | 0.00                  | 0.00 | 0.11    |      |  |
| 31 | WALC   | 0.00    | 0.93    | 0.00            | 0.00   | 0.00     | 0.00            | 0.00         | 0.00           | 0.01   | 0.00    | 0.00    | 0.00     | 0.00    | 0.00      | 0.00        | 0.00        | 0.06      | 0.00          | 0.00           | 0.00        | 0.00           | 0.00           | 0.00          | 0.00                | 0.00              | 0.00        | 0.00                  | 0.00 | 0.00    |      |  |
| 32 | WAUW   | 0.00    | 0.00    | 0.00            | 0.00   | 0.00     | 0.00            | 0.00         | 0.00           | 0.00   | 0.00    | 0.00    | 0.00     | 0.18    | 0.00      | 0.00        | 0.00        | 0.00      | 0.00          | 0.00           | 0.00        | 0.00           | 0.00           | 0.00          | 0.00                | 0.00              | 0.00        | 0.00                  | 0.00 | 0.00    |      |  |

**Table 2: Control Area Load Forecast (MWh)**

| Date   | APS     | AVA     | BPA     | CHPD   | CISO     | DOPD   | EPE    | GCPD   | IID    | IPC     | LDWP    | NEVP    | NWE     | PAC     |
|--------|---------|---------|---------|--------|----------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| Oct-13 | 2560486 | 999327  | 4322478 | 291800 | 20023512 | 98288  | 670327 | 345418 | 299218 | 1177404 | 2221783 | 1809835 | 873157  | 4856903 |
| Nov-13 | 2161020 | 1122092 | 4991799 | 337941 | 18793758 | 131210 | 616347 | 351634 | 245681 | 1277357 | 2056221 | 1687041 | 914939  | 5134893 |
| Dec-13 | 2442020 | 1288643 | 5675863 | 393088 | 19969226 | 168228 | 661149 | 403412 | 255858 | 1523945 | 2233360 | 1855149 | 1025674 | 5656104 |
| Jan-14 | 2492932 | 1202383 | 5682097 | 393334 | 19091394 | 169264 | 662398 | 394754 | 251918 | 1443770 | 2244565 | 1861798 | 1028878 | 5727540 |
| Feb-14 | 2157584 | 1015705 | 4935524 | 319479 | 17013754 | 126864 | 587947 | 351795 | 228120 | 1226194 | 2004372 | 1616005 | 906612  | 5025674 |
| Mar-14 | 2318901 | 1015791 | 4833597 | 306302 | 18596712 | 103716 | 631709 | 339925 | 247214 | 1179171 | 2187448 | 1725733 | 933155  | 5092136 |
| Apr-14 | 2354522 | 932194  | 4614767 | 281950 | 17900574 | 95247  | 629518 | 352910 | 249884 | 1148111 | 2075283 | 1652511 | 854209  | 4771508 |
| May-14 | 2904036 | 965193  | 4640845 | 276670 | 19781834 | 102980 | 697825 | 381643 | 334064 | 1484620 | 2252980 | 2045608 | 862002  | 4835887 |
| Jun-14 | 3222449 | 951568  | 4644748 | 269169 | 21253978 | 101782 | 769596 | 407463 | 397858 | 1563281 | 2435325 | 2483579 | 866322  | 4985619 |
| Jul-14 | 3823083 | 1047835 | 4883401 | 292717 | 24508770 | 123599 | 842755 | 451662 | 469087 | 1989982 | 2723921 | 3003631 | 974919  | 5701957 |
| Aug-14 | 3779673 | 1030690 | 4716018 | 289737 | 24611240 | 125834 | 853389 | 439237 | 460541 | 1886817 | 2760352 | 2857441 | 945532  | 5687537 |
| Sep-14 | 3216963 | 921918  | 4337156 | 272657 | 22206012 | 99542  | 746922 | 373257 | 396548 | 1468710 | 2548673 | 2296254 | 849326  | 4835788 |
| Oct-14 | 2624727 | 1009123 | 4476888 | 292936 | 20401628 | 99645  | 681824 | 357639 | 304739 | 1203500 | 2253059 | 1839773 | 894453  | 4973774 |
| Nov-14 | 2225204 | 1131861 | 5146209 | 339077 | 19171874 | 132567 | 627844 | 363814 | 251201 | 1303435 | 2087456 | 1716928 | 936199  | 5251578 |
| Dec-14 | 2506148 | 1298387 | 5830273 | 394224 | 20347342 | 169584 | 672646 | 415553 | 261379 | 1550005 | 2264555 | 1884985 | 1046898 | 5772604 |
| Jan-15 | 2558157 | 1204049 | 5828520 | 394279 | 19310288 | 170410 | 673883 | 406854 | 257896 | 1461270 | 2275394 | 1892251 | 1049786 | 5844654 |
| Feb-15 | 2222754 | 1017371 | 5081947 | 320423 | 17232648 | 128010 | 599432 | 363856 | 234098 | 1243693 | 2035161 | 1646408 | 927485  | 5142607 |
| Mar-15 | 2384017 | 1017457 | 4980020 | 307247 | 18815604 | 104861 | 643194 | 351947 | 253192 | 1196671 | 2218197 | 1756086 | 953992  | 5208887 |
| Apr-15 | 2419583 | 933859  | 4761190 | 282894 | 18119468 | 96393  | 641002 | 364893 | 255862 | 1165611 | 2105994 | 1682814 | 875012  | 4888079 |
| May-15 | 2969042 | 969255  | 4787268 | 277615 | 20090692 | 104646 | 709310 | 393588 | 340043 | 1512054 | 2283652 | 2075862 | 882771  | 4952280 |
| Jun-15 | 3287401 | 955624  | 4791171 | 270113 | 21562836 | 103448 | 781080 | 419369 | 403837 | 1590683 | 2465958 | 2513784 | 887056  | 5101834 |
| Jul-15 | 3887982 | 1051883 | 5029824 | 293662 | 24817628 | 125265 | 854240 | 463530 | 475065 | 2017353 | 2754515 | 3033788 | 995619  | 5817996 |
| Aug-15 | 3844519 | 1034730 | 4862441 | 290681 | 24920098 | 127501 | 864874 | 451067 | 466519 | 1914157 | 2790908 | 2887549 | 966198  | 5803400 |
| Sep-15 | 3281756 | 925950  | 4483579 | 273601 | 22514870 | 101209 | 758407 | 385049 | 402527 | 1496018 | 2579191 | 2326314 | 869958  | 4951478 |

**Table 2 (cont.): Control Area Load Forecast (MWh)**

| Date   | PGE     | PNM     | PSC     | PSE     | SCL     | SMUD    | SPP     | SRP     | TEP     | TID    | TPWR   | WACM    | WALC   | WAUW  |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|---------|--------|-------|
| Oct-13 | 1690423 | 876479  | 3399192 | 2030300 | 832875  | 865643  | 902150  | 2429050 | 1166165 | 216419 | 393876 | 1909192 | 550928 | 73262 |
| Nov-13 | 1852088 | 880287  | 3438935 | 2329953 | 925625  | 847319  | 899480  | 2129554 | 1089648 | 191662 | 465185 | 1935615 | 480859 | 82883 |
| Dec-13 | 2049581 | 980661  | 3867524 | 2565971 | 979101  | 968659  | 1007164 | 2341963 | 1175921 | 202837 | 513586 | 2153642 | 563657 | 89951 |
| Jan-14 | 2039599 | 934811  | 3749837 | 2583430 | 1006784 | 957465  | 989755  | 2456650 | 1178401 | 202855 | 508116 | 2117187 | 550171 | 92816 |
| Feb-14 | 1767029 | 808087  | 3294472 | 2265271 | 878350  | 821792  | 865798  | 2139423 | 1092382 | 180928 | 450400 | 1909481 | 457396 | 81974 |
| Mar-14 | 1786365 | 855986  | 3504177 | 2238475 | 880076  | 873367  | 931900  | 2286194 | 1119036 | 196493 | 447473 | 1977966 | 496176 | 81632 |
| Apr-14 | 1667513 | 804513  | 3329003 | 2042822 | 823827  | 820384  | 873543  | 2288831 | 1091388 | 192619 | 407126 | 1844809 | 508016 | 71346 |
| May-14 | 1715785 | 840222  | 3347086 | 1914492 | 797470  | 883375  | 932777  | 2731858 | 1235769 | 222136 | 379809 | 1904843 | 603226 | 73575 |
| Jun-14 | 1664173 | 919215  | 3529560 | 1851172 | 772185  | 1023823 | 960184  | 3014137 | 1412083 | 245054 | 359873 | 1926681 | 707716 | 76450 |
| Jul-14 | 1803383 | 1036743 | 4115920 | 1936860 | 800527  | 1209701 | 1106433 | 3413338 | 1583205 | 281055 | 369856 | 2184265 | 763969 | 94247 |
| Aug-14 | 1818558 | 1029372 | 3979568 | 1967301 | 788184  | 1185846 | 1067095 | 3356296 | 1559689 | 275021 | 376316 | 2146201 | 715754 | 86440 |
| Sep-14 | 1689580 | 887454  | 3364801 | 1884725 | 760228  | 1013389 | 936041  | 2973494 | 1392739 | 243324 | 363816 | 1903572 | 636017 | 75976 |
| Oct-14 | 1730389 | 906828  | 3445567 | 2049374 | 841630  | 873349  | 906165  | 2477065 | 1200097 | 221024 | 396270 | 1922717 | 559070 | 73262 |
| Nov-14 | 1892054 | 910637  | 3485311 | 2349027 | 934380  | 855025  | 903495  | 2183875 | 1125101 | 196258 | 467580 | 1949096 | 488975 | 82883 |
| Dec-14 | 2089547 | 1011011 | 3913900 | 2585044 | 987856  | 976366  | 1011178 | 2391534 | 1209378 | 207425 | 515980 | 2167079 | 571746 | 89951 |
| Jan-15 | 2074235 | 953655  | 3797800 | 2601300 | 1012642 | 966289  | 993957  | 2512731 | 1215466 | 207572 | 510325 | 2130580 | 558234 | 92816 |
| Feb-15 | 1801665 | 826931  | 3342434 | 2283142 | 884208  | 830615  | 870000  | 2200950 | 1130838 | 185636 | 452609 | 1922831 | 465432 | 81974 |
| Mar-15 | 1821000 | 874830  | 3552140 | 2256346 | 885934  | 882191  | 936101  | 2344973 | 1156894 | 201193 | 449682 | 1991272 | 504186 | 81632 |
| Apr-15 | 1702149 | 823357  | 3376966 | 2060692 | 829685  | 829207  | 877745  | 2347408 | 1129608 | 197311 | 409335 | 1858072 | 516000 | 71346 |
| May-15 | 1758872 | 863853  | 3395049 | 1932362 | 803503  | 892198  | 936978  | 2782457 | 1271313 | 226819 | 382018 | 1918063 | 611184 | 73575 |
| Jun-15 | 1707261 | 942846  | 3577523 | 1869042 | 778219  | 1032647 | 964385  | 3059598 | 1444389 | 249730 | 362082 | 1939858 | 715649 | 76450 |
| Jul-15 | 1846471 | 1060375 | 4163883 | 1954730 | 806560  | 1218524 | 1110635 | 3451597 | 1612366 | 285722 | 372065 | 2197400 | 771876 | 94247 |
| Aug-15 | 1861645 | 1053004 | 4027530 | 1985171 | 794218  | 1194670 | 1071296 | 3395412 | 1589142 | 279680 | 378525 | 2159295 | 723636 | 86440 |
| Sep-15 | 1732668 | 911085  | 3412764 | 1902595 | 766261  | 1022212 | 940242  | 3019220 | 1425017 | 247975 | 366025 | 1916624 | 643874 | 75976 |

Figure 1: Simulated CGS Output Distribution for October 2013

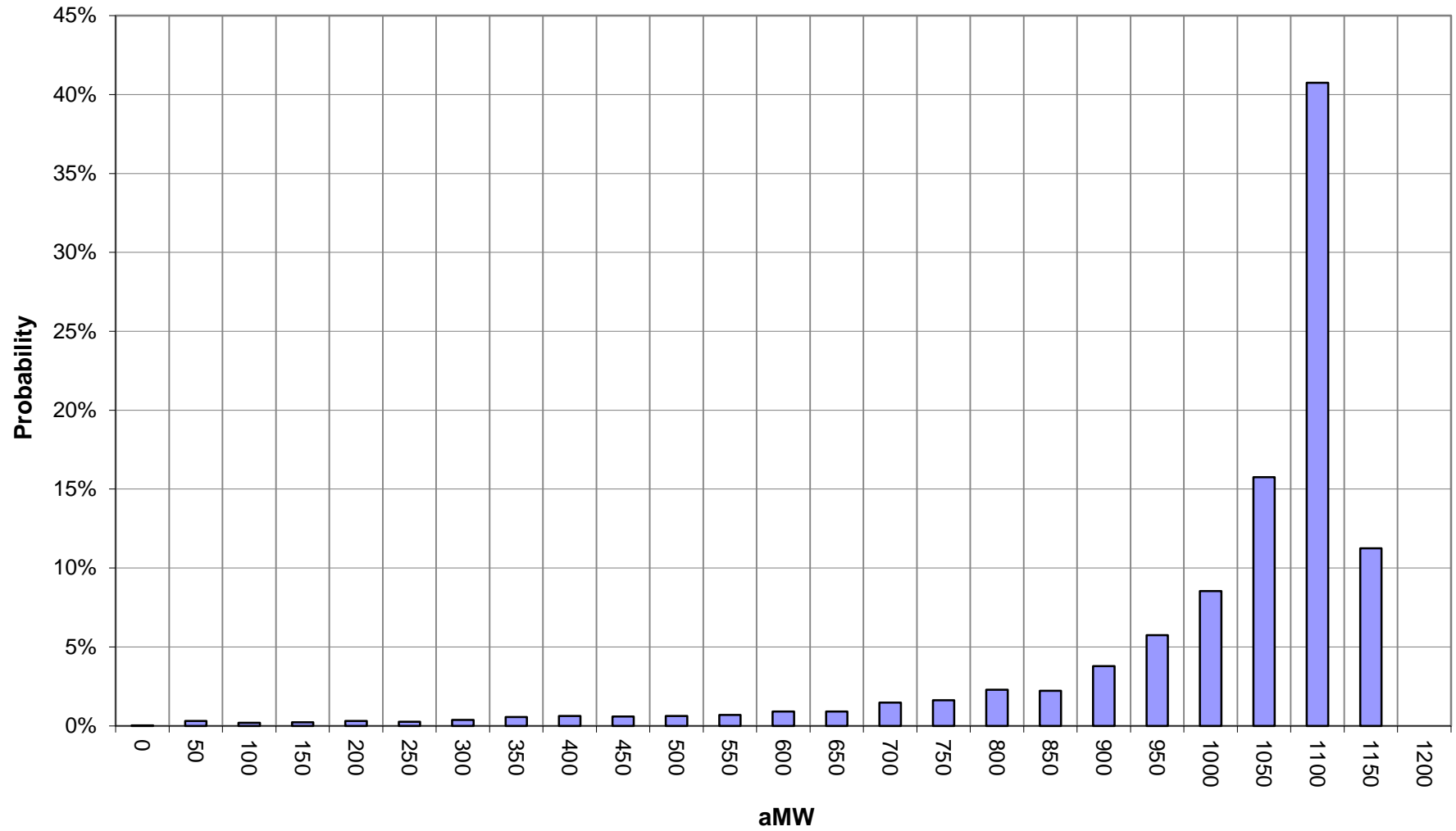
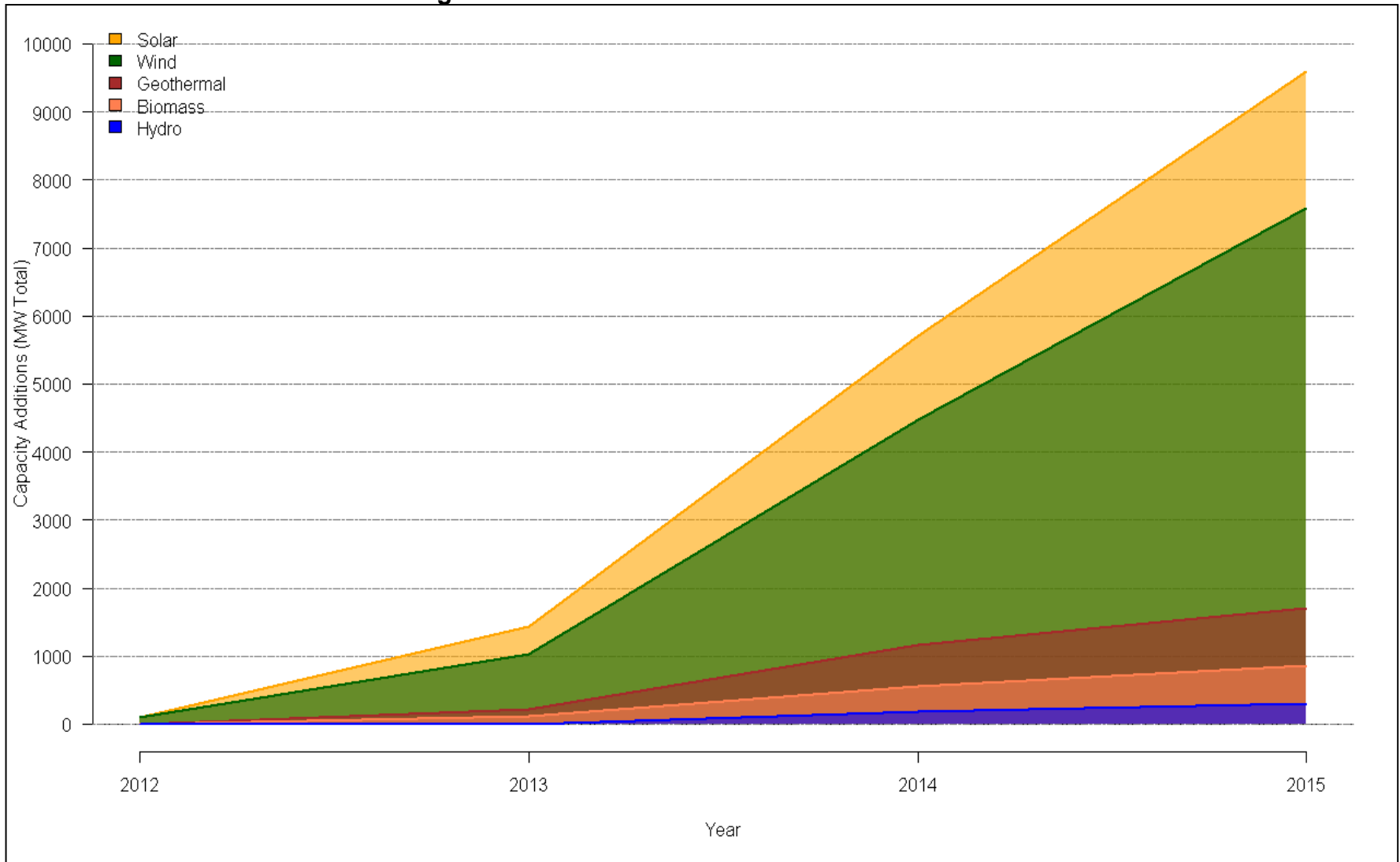


Figure 2: WECC Renewable Resource Additions



**Figure 3: HLH Market Prices for FY 2014 - 2015**

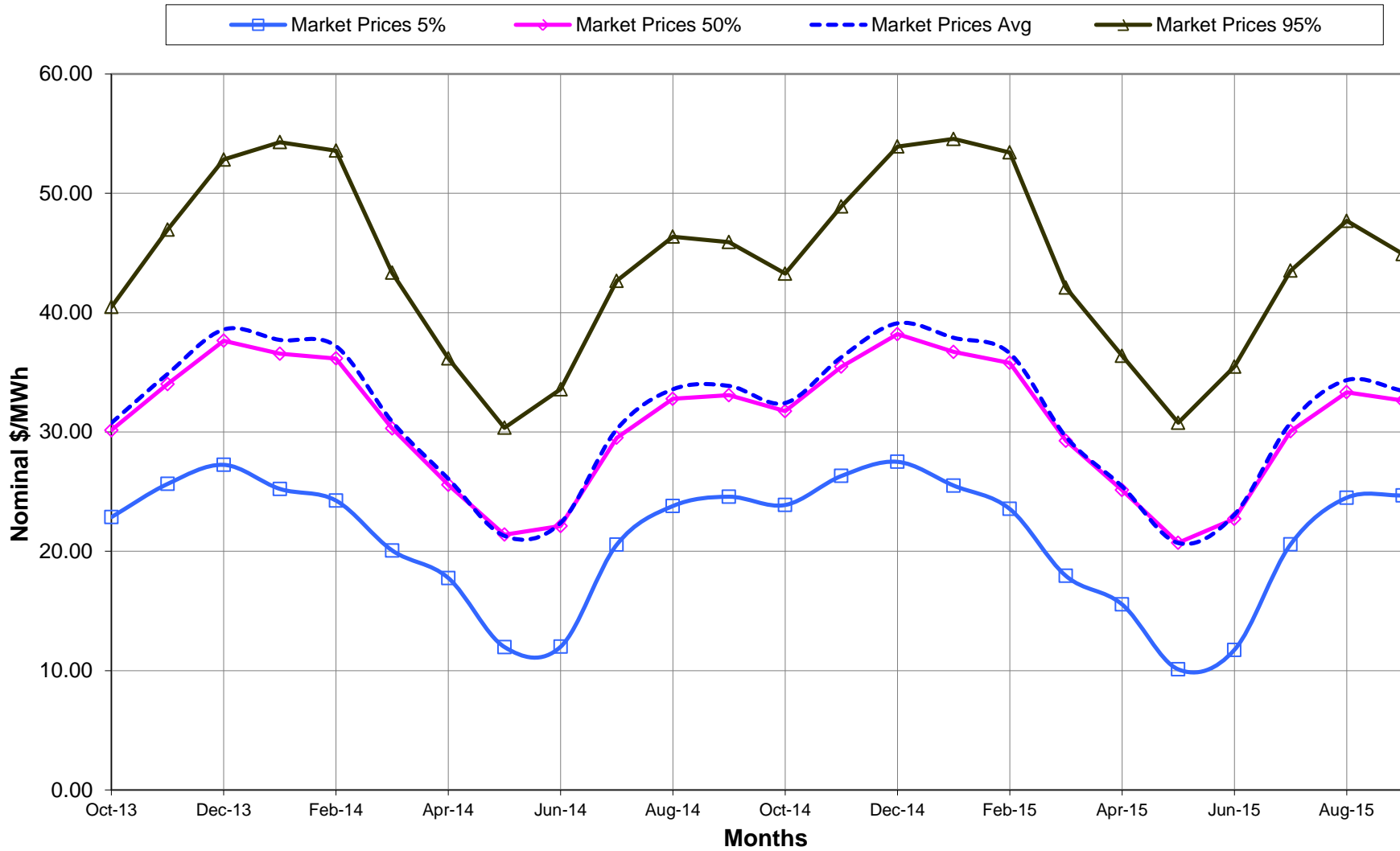
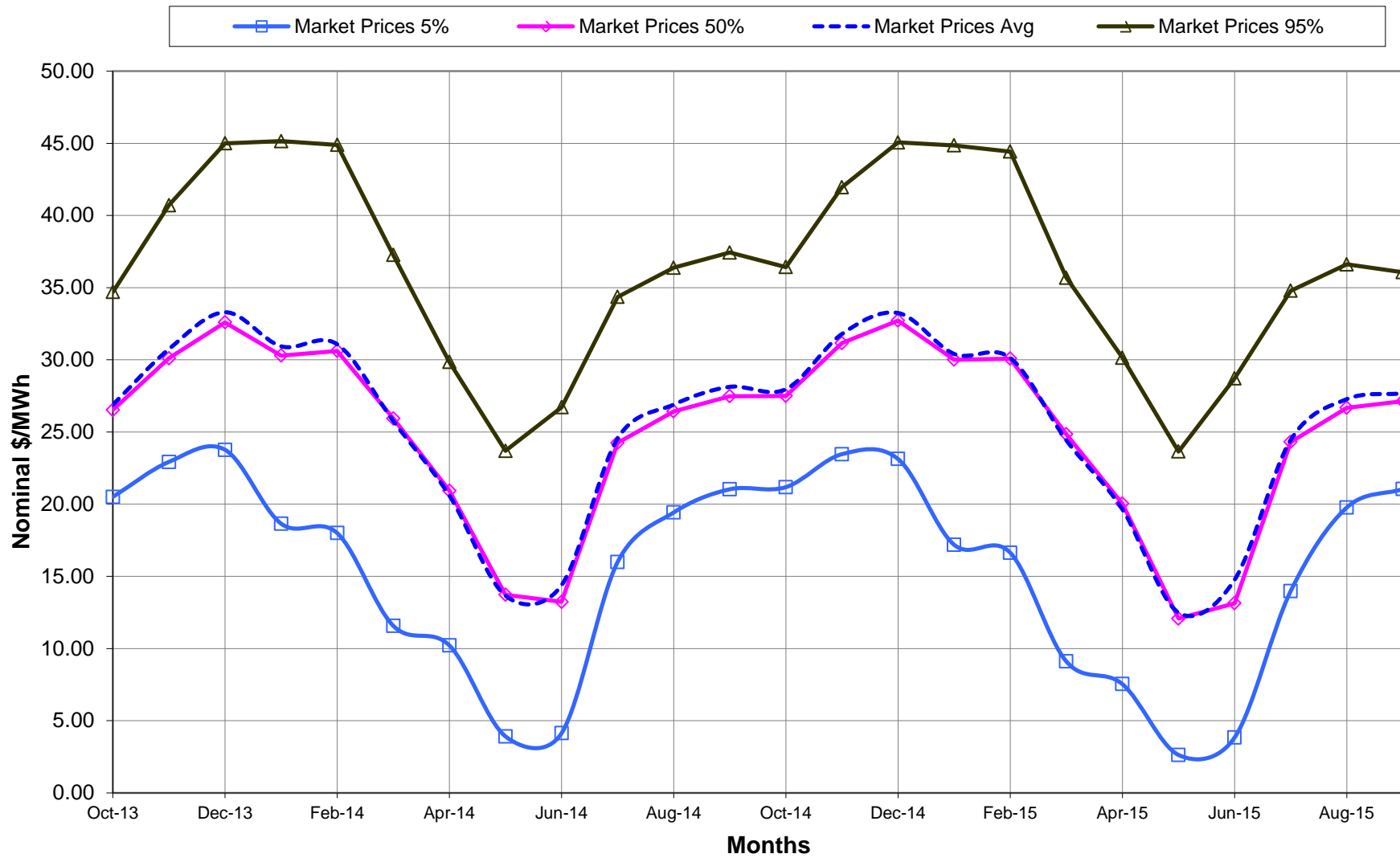
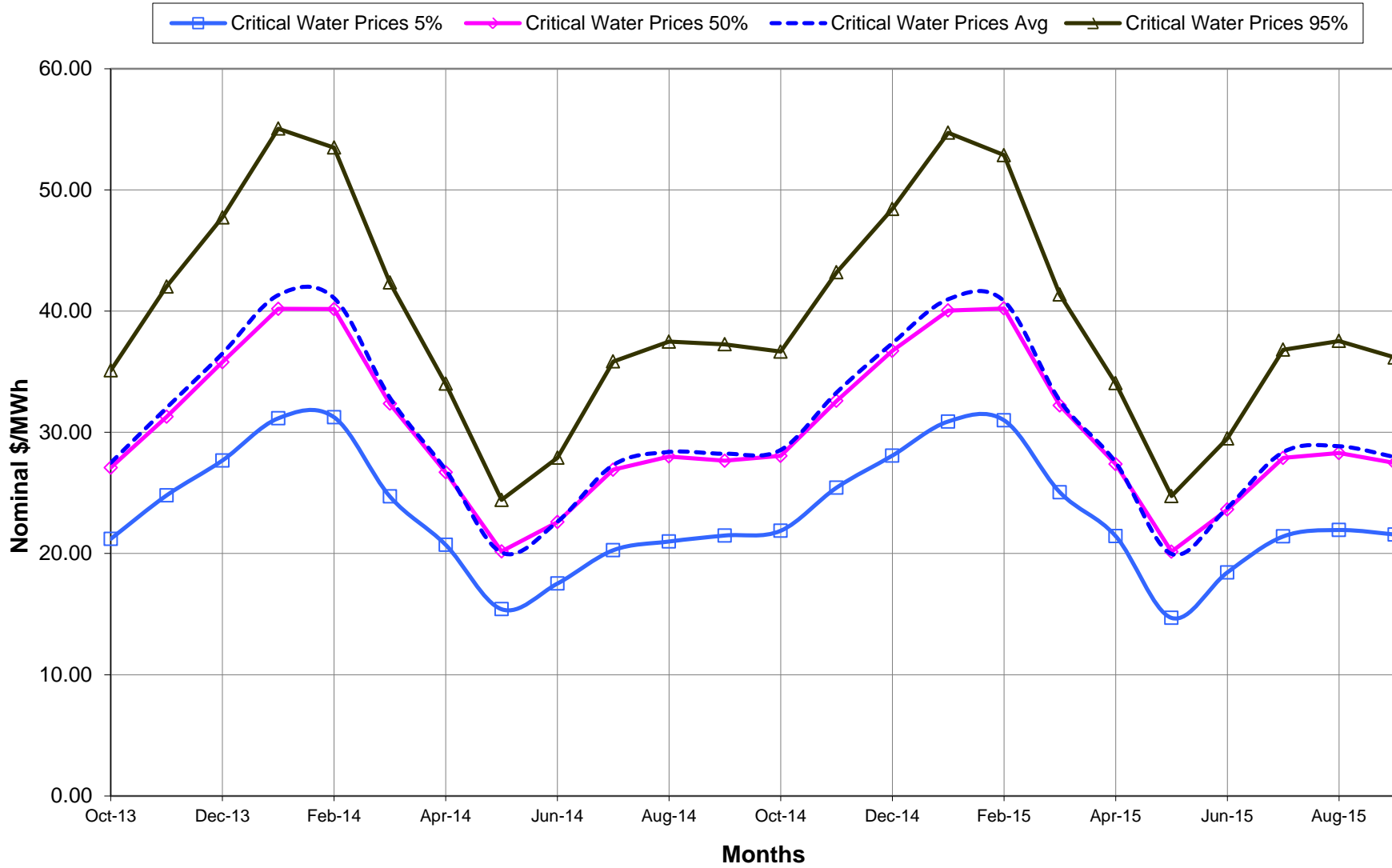


Figure 4: LLH Market Prices for FY 2014 - 2015

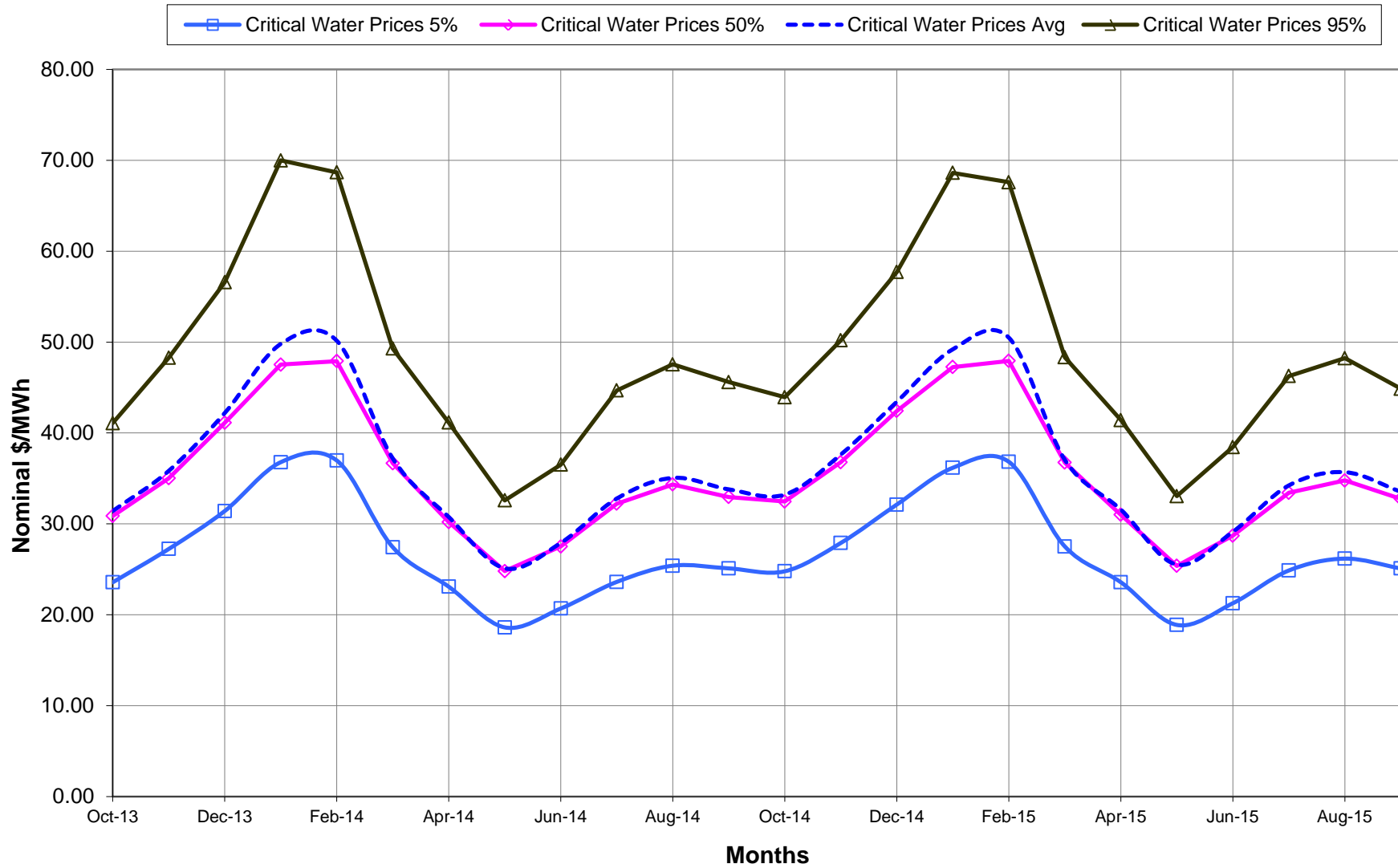


**Figure 5: HLH Market Prices for the Critical Water Run**





**Figure 6: LLH Market Prices for the Critical Water Run**



|    | A  | B     | C      | D      | E      | F      | G      | H      | I      | J      | K      | L     | M     | N        |
|----|--|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|----------|
| 1  | <b>Table 3: Federal Hydro Generation (aMW) with Hydro Independents</b> |       |        |        |        |        |        |        |        |        |        |       |       |          |
| 2  | <b>for FY 2014</b>   |       |        |        |        |        |        |        |        |        |        |       |       |          |
| 3  |  |       |        |        |        |        |        |        |        |        |        |       |       |          |
| 4  | Water Year   | Oct   | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | June   | July   | Aug   | Sep   | Wtd Avg. |
| 5  | 1929   | 5,927 | 7,277  | 7,206  | 7,025  | 6,394  | 6,151  | 6,496  | 9,059  | 9,125  | 7,228  | 6,538 | 6,200 | 7,055    |
| 6  | 1930   | 5,538 | 7,102  | 7,239  | 5,275  | 6,566  | 5,959  | 7,102  | 8,842  | 7,144  | 8,346  | 6,820 | 6,193 | 6,846    |
| 7  | 1931   | 5,309 | 7,430  | 7,113  | 5,407  | 5,296  | 5,236  | 5,729  | 9,617  | 7,475  | 7,888  | 6,802 | 5,339 | 6,565    |
| 8  | 1932   | 5,175 | 6,649  | 7,088  | 4,954  | 4,689  | 8,144  | 12,156 | 13,430 | 13,049 | 8,456  | 7,816 | 6,719 | 8,207    |
| 9  | 1933   | 5,714 | 6,714  | 7,484  | 10,294 | 10,280 | 9,377  | 9,152  | 11,484 | 14,085 | 11,302 | 9,297 | 6,333 | 9,287    |
| 10 | 1934   | 6,775 | 10,325 | 13,603 | 14,593 | 13,653 | 11,483 | 12,620 | 12,163 | 10,388 | 8,793  | 6,696 | 5,848 | 10,561   |
| 11 | 1935   | 5,396 | 6,400  | 7,922  | 9,720  | 9,136  | 8,421  | 8,685  | 10,546 | 9,602  | 9,794  | 7,799 | 5,515 | 8,245    |
| 12 | 1936   | 5,689 | 7,211  | 7,168  | 5,861  | 5,580  | 6,580  | 9,146  | 13,267 | 11,954 | 8,328  | 6,801 | 5,512 | 7,769    |
| 13 | 1937   | 5,648 | 7,574  | 7,314  | 5,768  | 5,618  | 6,133  | 6,158  | 10,163 | 8,168  | 7,918  | 6,386 | 6,171 | 6,928    |
| 14 | 1938   | 5,461 | 6,625  | 8,172  | 9,417  | 8,892  | 9,686  | 11,726 | 12,162 | 11,256 | 9,645  | 7,095 | 6,213 | 8,861    |
| 15 | 1939   | 5,886 | 7,113  | 7,171  | 7,349  | 6,892  | 7,167  | 9,727  | 11,758 | 8,613  | 8,045  | 6,250 | 5,691 | 7,643    |
| 16 | 1940   | 5,943 | 7,848  | 8,114  | 6,966  | 6,887  | 8,681  | 9,890  | 11,199 | 9,891  | 7,466  | 6,119 | 5,964 | 7,917    |
| 17 | 1941   | 5,778 | 6,840  | 7,723  | 6,684  | 6,513  | 5,943  | 6,836  | 9,855  | 9,391  | 8,139  | 6,786 | 6,785 | 7,277    |
| 18 | 1942   | 5,202 | 7,240  | 9,084  | 9,469  | 7,044  | 6,480  | 8,092  | 10,452 | 12,092 | 10,569 | 7,838 | 7,143 | 8,400    |
| 19 | 1943   | 5,732 | 6,621  | 8,050  | 10,504 | 9,870  | 9,933  | 12,955 | 12,236 | 13,098 | 9,195  | 7,801 | 5,915 | 9,318    |
| 20 | 1944   | 5,719 | 7,377  | 7,176  | 7,149  | 6,609  | 5,839  | 6,743  | 8,409  | 6,363  | 7,405  | 6,501 | 5,975 | 6,775    |
| 21 | 1945   | 5,506 | 7,115  | 6,497  | 5,827  | 5,699  | 5,581  | 4,809  | 11,443 | 11,703 | 7,079  | 7,080 | 6,125 | 7,046    |
| 22 | 1946   | 5,551 | 7,038  | 8,092  | 9,294  | 8,896  | 9,296  | 11,948 | 12,466 | 11,986 | 9,977  | 8,571 | 6,411 | 9,126    |
| 23 | 1947   | 5,671 | 7,356  | 11,586 | 12,562 | 11,946 | 10,553 | 9,657  | 12,306 | 12,500 | 10,163 | 7,559 | 6,125 | 9,824    |
| 24 | 1948   | 8,525 | 9,260  | 9,750  | 12,379 | 10,218 | 8,643  | 10,839 | 13,693 | 13,603 | 11,032 | 9,643 | 6,736 | 10,364   |
| 25 | 1949   | 6,014 | 7,273  | 8,128  | 9,443  | 7,315  | 11,130 | 11,597 | 13,283 | 12,066 | 7,205  | 6,154 | 5,445 | 8,762    |
| 26 | 1950   | 5,680 | 7,145  | 7,909  | 12,057 | 10,672 | 11,828 | 11,641 | 12,365 | 12,772 | 10,226 | 9,564 | 6,423 | 9,854    |
| 27 | 1951   | 6,904 | 9,692  | 11,773 | 13,894 | 13,391 | 13,100 | 12,059 | 12,403 | 11,958 | 10,752 | 9,227 | 6,369 | 10,950   |
| 28 | 1952   | 7,927 | 8,364  | 9,877  | 11,548 | 10,499 | 10,257 | 12,348 | 13,305 | 12,495 | 9,858  | 8,010 | 5,512 | 9,999    |
| 29 | 1953   | 5,636 | 7,237  | 7,184  | 7,470  | 9,827  | 8,245  | 8,708  | 12,151 | 13,789 | 10,713 | 8,306 | 6,268 | 8,784    |
| 30 | 1954   | 5,907 | 7,676  | 9,189  | 11,639 | 11,147 | 10,300 | 10,041 | 12,443 | 12,563 | 11,833 | 9,956 | 9,197 | 10,152   |
| 31 | 1955   | 6,083 | 8,475  | 8,590  | 8,028  | 6,358  | 5,672  | 7,746  | 11,261 | 13,703 | 12,033 | 9,073 | 5,982 | 8,598    |
| 32 | 1956   | 6,270 | 9,155  | 11,682 | 13,846 | 13,321 | 11,813 | 12,410 | 12,952 | 13,395 | 10,932 | 9,121 | 6,256 | 10,916   |
| 33 | 1957   | 6,226 | 7,208  | 9,295  | 9,513  | 7,442  | 9,788  | 11,213 | 14,112 | 14,302 | 9,529  | 7,433 | 6,069 | 9,356    |
| 34 | 1958   | 5,813 | 7,396  | 7,771  | 9,752  | 9,104  | 9,369  | 10,320 | 13,007 | 13,038 | 9,026  | 7,263 | 5,908 | 8,977    |
| 35 | 1959   | 5,790 | 8,294  | 10,916 | 13,226 | 12,253 | 10,757 | 10,407 | 11,536 | 13,133 | 9,871  | 9,591 | 9,190 | 10,400   |
| 36 | 1960   | 9,455 | 10,441 | 10,723 | 11,135 | 9,039  | 9,374  | 12,629 | 11,591 | 12,037 | 9,526  | 7,391 | 5,756 | 9,929    |
| 37 | 1961   | 5,930 | 7,396  | 8,334  | 10,379 | 10,046 | 10,466 | 10,095 | 12,476 | 13,414 | 9,243  | 7,434 | 5,777 | 9,243    |
| 38 | 1962   | 5,705 | 7,375  | 7,638  | 9,708  | 9,193  | 7,566  | 12,307 | 12,289 | 12,686 | 7,157  | 7,292 | 5,756 | 8,710    |
| 39 | 1963   | 6,324 | 8,562  | 10,456 | 10,145 | 9,043  | 7,811  | 8,681  | 11,507 | 12,761 | 9,896  | 7,614 | 6,413 | 9,101    |
| 40 | 1964   | 5,675 | 6,993  | 8,252  | 8,612  | 7,852  | 7,339  | 9,741  | 12,121 | 13,680 | 11,674 | 9,436 | 7,120 | 9,047    |
| 41 | 1965   | 6,797 | 8,116  | 11,881 | 14,987 | 14,118 | 12,443 | 11,166 | 12,761 | 12,507 | 9,797  | 9,290 | 5,894 | 10,801   |
| 42 | 1966   | 6,164 | 7,758  | 8,652  | 9,552  | 8,549  | 6,730  | 10,872 | 10,939 | 10,354 | 9,841  | 7,560 | 5,948 | 8,575    |
| 43 | 1967   | 5,668 | 7,029  | 8,721  | 11,901 | 12,060 | 11,509 | 7,493  | 11,421 | 12,713 | 10,631 | 8,460 | 6,259 | 9,479    |
| 44 | 1968   | 5,982 | 7,781  | 8,681  | 10,740 | 10,754 | 9,801  | 7,773  | 9,409  | 12,489 | 10,228 | 8,768 | 7,753 | 9,169    |

|    | A  | B     | C      | D      | E      | F      | G      | H      | I      | J      | K      | L      | M     | N        |
|----|--|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|----------|
| 1  | <b>Table 3: Federal Hydro Generation (aMW) with Hydro Independents</b> |       |        |        |        |        |        |        |        |        |        |        |       |          |
| 2  | <b>for FY 2014</b>   |       |        |        |        |        |        |        |        |        |        |        |       |          |
| 3  |  |       |        |        |        |        |        |        |        |        |        |        |       |          |
| 4  | Water Year   | Oct   | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | June   | July   | Aug    | Sep   | Wtd Avg. |
| 45 | 1969   | 6,940 | 9,258  | 9,906  | 13,268 | 13,200 | 10,384 | 11,984 | 12,571 | 12,216 | 10,117 | 8,317  | 6,128 | 10,339   |
| 46 | 1970   | 5,869 | 7,509  | 7,557  | 9,561  | 8,928  | 8,463  | 8,550  | 11,681 | 13,246 | 8,484  | 7,109  | 5,822 | 8,560    |
| 47 | 1971   | 5,716 | 7,244  | 7,940  | 13,596 | 13,907 | 12,590 | 11,726 | 12,975 | 13,145 | 11,745 | 9,754  | 6,871 | 10,582   |
| 48 | 1972   | 6,288 | 7,515  | 9,095  | 13,136 | 13,579 | 13,996 | 11,878 | 13,239 | 13,259 | 11,624 | 9,806  | 7,536 | 10,899   |
| 49 | 1973   | 6,213 | 7,505  | 8,606  | 9,636  | 7,426  | 6,687  | 5,909  | 9,538  | 9,736  | 7,672  | 6,410  | 6,044 | 7,620    |
| 50 | 1974   | 5,421 | 6,949  | 9,253  | 15,428 | 14,857 | 12,801 | 12,064 | 12,451 | 12,849 | 12,014 | 9,814  | 6,891 | 10,879   |
| 51 | 1975   | 5,628 | 7,316  | 7,986  | 9,512  | 10,083 | 9,845  | 8,603  | 11,873 | 13,456 | 12,393 | 9,122  | 6,885 | 9,389    |
| 52 | 1976   | 7,130 | 9,591  | 12,983 | 12,974 | 12,639 | 11,862 | 12,384 | 13,092 | 12,633 | 11,066 | 10,304 | 9,791 | 11,363   |
| 53 | 1977   | 6,288 | 7,385  | 7,214  | 7,077  | 7,046  | 6,143  | 6,322  | 7,849  | 6,084  | 7,058  | 6,420  | 5,530 | 6,703    |
| 54 | 1978   | 4,629 | 6,323  | 10,075 | 8,984  | 8,602  | 8,711  | 10,975 | 12,032 | 10,293 | 9,766  | 7,282  | 7,867 | 8,796    |
| 55 | 1979   | 6,333 | 7,402  | 7,513  | 8,381  | 6,509  | 8,860  | 8,502  | 13,057 | 9,017  | 7,248  | 6,147  | 5,648 | 7,899    |
| 56 | 1980   | 5,667 | 7,333  | 6,853  | 7,561  | 7,165  | 6,602  | 9,994  | 13,605 | 12,717 | 7,897  | 6,900  | 6,145 | 8,203    |
| 57 | 1981   | 5,839 | 7,286  | 11,070 | 11,698 | 9,140  | 7,871  | 8,396  | 13,128 | 14,074 | 10,567 | 9,379  | 6,497 | 9,588    |
| 58 | 1982   | 5,817 | 7,804  | 9,468  | 11,347 | 13,641 | 13,245 | 11,130 | 12,803 | 13,258 | 10,791 | 9,791  | 8,072 | 10,577   |
| 59 | 1983   | 7,000 | 7,916  | 9,833  | 12,002 | 11,359 | 12,774 | 10,576 | 12,467 | 12,565 | 10,740 | 9,603  | 6,739 | 10,298   |
| 60 | 1984   | 6,049 | 9,945  | 9,759  | 11,219 | 10,887 | 10,585 | 12,785 | 12,596 | 13,938 | 11,165 | 8,316  | 6,686 | 10,317   |
| 61 | 1985   | 6,128 | 7,909  | 8,559  | 8,975  | 8,427  | 8,229  | 10,637 | 12,694 | 10,255 | 5,988  | 5,629  | 5,706 | 8,256    |
| 62 | 1986   | 5,606 | 8,813  | 8,657  | 10,052 | 11,018 | 14,061 | 11,658 | 11,194 | 12,415 | 8,956  | 7,197  | 5,896 | 9,614    |
| 63 | 1987   | 5,628 | 7,235  | 8,673  | 7,920  | 5,900  | 7,897  | 7,944  | 11,963 | 9,792  | 7,617  | 5,723  | 5,775 | 7,686    |
| 64 | 1988   | 5,430 | 7,050  | 6,796  | 5,834  | 5,694  | 5,951  | 7,413  | 9,666  | 9,623  | 8,452  | 6,424  | 6,145 | 7,045    |
| 65 | 1989   | 5,116 | 6,626  | 7,803  | 7,176  | 6,624  | 7,651  | 11,247 | 11,856 | 9,858  | 7,445  | 6,351  | 5,831 | 7,802    |
| 66 | 1990   | 5,538 | 7,490  | 8,451  | 10,237 | 10,497 | 9,748  | 11,299 | 11,514 | 12,230 | 9,333  | 8,502  | 5,906 | 9,218    |
| 67 | 1991   | 5,379 | 9,653  | 10,118 | 11,096 | 11,892 | 10,386 | 10,475 | 12,284 | 11,868 | 10,913 | 9,278  | 6,022 | 9,936    |
| 68 | 1992   | 5,571 | 7,319  | 7,295  | 7,202  | 6,550  | 6,860  | 7,242  | 10,943 | 9,105  | 7,093  | 5,853  | 5,943 | 7,252    |
| 69 | 1993   | 5,275 | 7,089  | 7,496  | 5,607  | 5,492  | 7,406  | 8,084  | 11,543 | 10,657 | 8,899  | 6,917  | 6,242 | 7,571    |
| 70 | 1994   | 5,408 | 7,711  | 7,432  | 5,977  | 5,620  | 6,145  | 7,098  | 10,667 | 9,874  | 8,235  | 6,428  | 6,130 | 7,235    |
| 71 | 1995   | 5,141 | 6,602  | 6,934  | 7,192  | 9,606  | 9,933  | 9,566  | 10,875 | 12,655 | 9,144  | 7,275  | 6,993 | 8,478    |
| 72 | 1996   | 6,393 | 10,817 | 14,678 | 15,057 | 13,962 | 13,970 | 12,308 | 12,534 | 13,249 | 11,496 | 9,504  | 5,936 | 11,651   |
| 73 | 1997   | 5,852 | 7,762  | 9,845  | 14,927 | 14,961 | 14,265 | 12,698 | 13,049 | 13,658 | 11,674 | 9,792  | 7,786 | 11,335   |
| 74 | 1998   | 8,784 | 9,068  | 9,347  | 9,120  | 9,237  | 8,184  | 9,063  | 13,674 | 13,689 | 9,734  | 7,876  | 6,112 | 9,493    |
| 75 | 1999   | 5,775 | 6,923  | 9,152  | 12,833 | 12,879 | 12,412 | 10,978 | 12,395 | 13,717 | 11,467 | 9,952  | 7,240 | 10,465   |
| 76 | 2000   | 6,007 | 10,017 | 10,546 | 10,372 | 9,758  | 9,539  | 12,292 | 11,494 | 10,286 | 9,275  | 7,278  | 5,847 | 9,387    |
| 77 | 2001   | 5,785 | 7,239  | 7,233  | 7,086  | 6,753  | 6,023  | 6,456  | 8,957  | 5,657  | 7,521  | 6,247  | 5,448 | 6,706    |
| 78 | 2002   | 4,504 | 6,495  | 7,134  | 6,523  | 6,905  | 6,500  | 11,081 | 10,484 | 12,771 | 10,819 | 8,162  | 6,149 | 8,126    |
| 79 | 2003   | 5,440 | 7,574  | 7,375  | 6,353  | 6,367  | 9,278  | 9,481  | 10,727 | 12,409 | 7,566  | 5,994  | 5,581 | 7,847    |
| 80 | 2004   | 5,748 | 7,465  | 8,331  | 7,197  | 6,275  | 6,855  | 9,039  | 11,397 | 10,677 | 7,843  | 6,565  | 6,445 | 7,826    |
| 81 | 2005   | 6,016 | 7,371  | 9,039  | 9,220  | 7,771  | 7,233  | 7,455  | 11,634 | 10,978 | 8,154  | 6,711  | 6,152 | 8,149    |
| 82 | 2006   | 5,339 | 7,365  | 8,335  | 10,858 | 10,420 | 9,804  | 12,628 | 13,184 | 12,354 | 9,118  | 6,927  | 5,885 | 9,340    |
| 83 | 2007   | 5,479 | 7,593  | 8,258  | 10,312 | 7,934  | 11,393 | 10,174 | 11,702 | 10,084 | 9,561  | 6,507  | 5,504 | 8,719    |
| 84 | 2008   | 5,755 | 7,296  | 7,527  | 7,854  | 6,640  | 7,981  | 7,717  | 13,287 | 14,273 | 10,147 | 7,989  | 5,846 | 8,539    |
| 85 | 80 WY Average  | 5,950 | 7,716  | 8,742  | 9,680  | 9,185  | 9,121  | 9,819  | 11,782 | 11,649 | 9,419  | 7,784  | 6,349 | 8,931    |
| 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  | <b>Table 4: Federal Hydro Generation (aMW) with Hydro Independents</b> |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 2  | <b>for FY 2015</b>   |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 3  |  |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 4  | <b>Water Year</b>  | <b>Oct</b> | <b>Nov</b> | <b>Dec</b> | <b>Jan</b> | <b>Feb</b> | <b>Mar</b> | <b>Apr</b> | <b>May</b> | <b>June</b> | <b>July</b> | <b>Aug</b> | <b>Sep</b> | <b>Wtd Avg.</b> |
| 5  | 1929   | 5,771      | 7,273      | 7,214      | 7,066      | 6,768      | 6,228      | 6,679      | 8,575      | 8,874       | 6,371       | 6,615      | 5,753      | 6,931           |
| 6  | 1930   | 5,654      | 7,285      | 7,298      | 6,168      | 6,906      | 6,313      | 7,300      | 8,802      | 6,106       | 8,356       | 6,763      | 5,414      | 6,867           |
| 7  | 1931   | 5,610      | 7,447      | 7,385      | 5,745      | 5,427      | 5,792      | 6,497      | 9,619      | 7,502       | 7,638       | 6,578      | 5,256      | 6,719           |
| 8  | 1932   | 5,206      | 6,668      | 7,230      | 5,070      | 4,921      | 8,146      | 12,110     | 13,257     | 12,976      | 8,389       | 7,805      | 6,084      | 8,167           |
| 9  | 1933   | 5,800      | 6,720      | 8,042      | 10,253     | 10,297     | 9,452      | 9,121      | 11,478     | 13,921      | 11,307      | 9,313      | 6,094      | 9,312           |
| 10 | 1934   | 6,610      | 10,318     | 13,699     | 14,591     | 13,656     | 11,513     | 12,411     | 11,955     | 10,276      | 8,615       | 6,458      | 5,295      | 10,433          |
| 11 | 1935   | 5,734      | 6,290      | 8,589      | 9,746      | 9,726      | 9,528      | 8,142      | 10,702     | 9,542       | 9,940       | 8,075      | 5,388      | 8,452           |
| 12 | 1936   | 5,577      | 7,132      | 7,231      | 6,550      | 6,017      | 6,604      | 9,386      | 12,485     | 11,685      | 8,076       | 6,754      | 5,339      | 7,743           |
| 13 | 1937   | 5,577      | 7,486      | 7,333      | 6,306      | 5,623      | 6,084      | 6,213      | 9,754      | 7,738       | 7,478       | 6,644      | 5,266      | 6,803           |
| 14 | 1938   | 5,795      | 6,863      | 9,034      | 9,154      | 8,677      | 10,154     | 11,346     | 11,877     | 11,818      | 9,303       | 6,869      | 5,967      | 8,905           |
| 15 | 1939   | 5,865      | 7,112      | 7,190      | 7,723      | 7,635      | 7,639      | 9,280      | 11,548     | 7,660       | 7,763       | 6,384      | 5,453      | 7,606           |
| 16 | 1940   | 5,994      | 7,620      | 8,914      | 7,712      | 6,632      | 10,802     | 9,020      | 10,722     | 8,276       | 7,641       | 6,351      | 5,229      | 7,924           |
| 17 | 1941   | 5,772      | 7,007      | 8,605      | 6,760      | 6,693      | 6,564      | 6,913      | 9,827      | 7,991       | 8,406       | 6,629      | 5,372      | 7,220           |
| 18 | 1942   | 5,655      | 7,846      | 9,188      | 9,095      | 8,071      | 8,121      | 8,363      | 10,219     | 10,698      | 10,482      | 7,732      | 6,579      | 8,509           |
| 19 | 1943   | 5,840      | 6,618      | 8,383      | 10,278     | 10,427     | 10,177     | 12,692     | 11,870     | 12,998      | 9,193       | 7,780      | 5,610      | 9,311           |
| 20 | 1944   | 5,477      | 7,293      | 7,184      | 7,172      | 6,838      | 6,131      | 6,710      | 8,120      | 5,991       | 7,176       | 6,324      | 4,945      | 6,616           |
| 21 | 1945   | 5,705      | 7,210      | 7,176      | 5,859      | 6,289      | 6,125      | 4,947      | 11,279     | 11,665      | 6,864       | 7,023      | 5,461      | 7,139           |
| 22 | 1946   | 5,551      | 7,041      | 8,950      | 9,294      | 9,059      | 9,213      | 11,810     | 12,218     | 12,004      | 9,974       | 8,498      | 6,084      | 9,141           |
| 23 | 1947   | 5,480      | 7,491      | 11,802     | 12,003     | 11,579     | 11,313     | 9,650      | 12,249     | 12,449      | 10,275      | 7,716      | 5,960      | 9,826           |
| 24 | 1948   | 8,337      | 9,251      | 9,993      | 12,376     | 10,435     | 8,957      | 10,840     | 13,332     | 13,373      | 11,122      | 9,650      | 7,055      | 10,396          |
| 25 | 1949   | 5,833      | 7,264      | 8,391      | 9,220      | 8,099      | 11,164     | 11,345     | 12,674     | 12,127      | 7,055       | 6,205      | 5,155      | 8,713           |
| 26 | 1950   | 5,638      | 7,141      | 8,413      | 11,774     | 11,557     | 11,700     | 11,532     | 12,185     | 12,550      | 10,319      | 9,516      | 6,202      | 9,869           |
| 27 | 1951   | 6,709      | 9,684      | 11,988     | 14,028     | 13,896     | 12,596     | 11,842     | 12,079     | 11,401      | 10,962      | 9,323      | 6,145      | 10,875          |
| 28 | 1952   | 7,754      | 8,356      | 10,119     | 11,548     | 10,249     | 10,257     | 12,376     | 12,937     | 12,465      | 9,719       | 7,499      | 5,299      | 9,881           |
| 29 | 1953   | 5,480      | 6,928      | 7,315      | 9,440      | 8,721      | 8,545      | 8,636      | 11,938     | 13,552      | 10,785      | 7,816      | 6,044      | 8,766           |
| 30 | 1954   | 5,713      | 7,667      | 9,439      | 11,216     | 11,036     | 10,328     | 10,025     | 12,096     | 12,466      | 11,790      | 9,981      | 9,002      | 10,058          |
| 31 | 1955   | 5,902      | 8,466      | 8,851      | 8,046      | 7,414      | 6,704      | 8,086      | 10,989     | 13,375      | 11,995      | 9,090      | 5,737      | 8,730           |
| 32 | 1956   | 6,097      | 9,146      | 11,898     | 13,834     | 13,263     | 11,713     | 12,247     | 12,549     | 13,232      | 11,047      | 9,140      | 6,034      | 10,837          |
| 33 | 1957   | 6,030      | 7,200      | 9,539      | 9,650      | 7,846      | 9,782      | 11,048     | 13,610     | 14,179      | 9,775       | 7,441      | 5,783      | 9,333           |
| 34 | 1958   | 5,718      | 7,391      | 7,989      | 9,979      | 9,342      | 9,440      | 10,353     | 12,569     | 12,805      | 8,829       | 7,087      | 5,742      | 8,932           |
| 35 | 1959   | 5,831      | 8,051      | 11,134     | 13,222     | 12,238     | 10,724     | 10,409     | 11,442     | 12,981      | 9,720       | 9,617      | 8,996      | 10,351          |
| 36 | 1960   | 9,308      | 10,434     | 10,941     | 11,135     | 8,934      | 9,392      | 12,488     | 11,505     | 11,966      | 9,722       | 7,514      | 5,605      | 9,918           |
| 37 | 1961   | 5,764      | 7,322      | 8,596      | 10,365     | 10,538     | 10,321     | 9,689      | 12,243     | 13,279      | 9,476       | 7,594      | 5,566      | 9,221           |
| 38 | 1962   | 5,562      | 7,373      | 7,993      | 9,692      | 9,316      | 7,129      | 12,375     | 12,072     | 12,532      | 7,236       | 7,246      | 5,524      | 8,657           |
| 39 | 1963   | 6,215      | 8,478      | 10,696     | 11,009     | 9,506      | 8,875      | 8,270      | 11,045     | 10,953      | 9,854       | 7,588      | 6,195      | 9,060           |
| 40 | 1964   | 5,533      | 6,997      | 8,446      | 8,597      | 7,738      | 7,149      | 9,738      | 11,929     | 13,518      | 11,740      | 9,461      | 6,884      | 8,984           |
| 41 | 1965   | 6,618      | 8,107      | 12,098     | 15,058     | 14,053     | 12,171     | 11,035     | 12,407     | 12,481      | 10,338      | 9,303      | 5,671      | 10,767          |
| 42 | 1966   | 5,980      | 7,741      | 8,911      | 9,536      | 8,534      | 7,193      | 10,929     | 10,347     | 10,315      | 9,847       | 7,790      | 5,764      | 8,573           |
| 43 | 1967   | 5,529      | 7,025      | 8,897      | 12,213     | 11,660     | 10,996     | 7,574      | 11,162     | 12,727      | 10,816      | 8,606      | 6,036      | 9,430           |
| 44 | 1968   | 5,790      | 7,768      | 8,942      | 11,200     | 10,053     | 10,065     | 7,773      | 9,402      | 12,366      | 10,186      | 8,804      | 7,539      | 9,153           |

|    | A  | B          | C          | D          | E          | F          | G          | H          | I          | J           | K           | L          | M          | N               |
|----|--|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|------------|------------|-----------------|
| 1  | <b>Table 4: Federal Hydro Generation (aMW) with Hydro Independents</b> |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 2  | <b>for FY 2015</b>   |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 3  |  |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 4  | <b>Water Year</b>  | <b>Oct</b> | <b>Nov</b> | <b>Dec</b> | <b>Jan</b> | <b>Feb</b> | <b>Mar</b> | <b>Apr</b> | <b>May</b> | <b>June</b> | <b>July</b> | <b>Aug</b> | <b>Sep</b> | <b>Wtd Avg.</b> |
| 45 | 1969   | 6,762      | 9,250      | 10,148     | 13,259     | 13,130     | 10,403     | 11,582     | 12,379     | 12,140      | 10,234      | 8,209      | 5,929      | 10,268          |
| 46 | 1970   | 5,743      | 7,509      | 7,784      | 10,086     | 9,278      | 8,791      | 8,230      | 11,210     | 13,080      | 8,757       | 6,675      | 5,659      | 8,560           |
| 47 | 1971   | 5,537      | 7,239      | 8,112      | 13,538     | 13,892     | 12,554     | 11,670     | 12,846     | 13,147      | 11,675      | 9,779      | 6,649      | 10,535          |
| 48 | 1972   | 6,092      | 7,506      | 9,356      | 13,124     | 13,579     | 13,589     | 11,671     | 12,933     | 13,111      | 11,637      | 9,832      | 7,326      | 10,799          |
| 49 | 1973   | 6,022      | 7,496      | 8,868      | 9,838      | 8,075      | 6,662      | 5,909      | 9,500      | 7,827       | 7,568       | 6,450      | 5,339      | 7,467           |
| 50 | 1974   | 5,677      | 6,634      | 10,387     | 15,424     | 14,828     | 12,870     | 11,587     | 12,162     | 12,685      | 11,986      | 9,784      | 6,994      | 10,901          |
| 51 | 1975   | 5,408      | 7,309      | 8,253      | 9,434      | 10,117     | 9,643      | 8,602      | 11,552     | 13,370      | 12,443      | 9,274      | 6,649      | 9,335           |
| 52 | 1976   | 6,951      | 9,583      | 13,196     | 12,974     | 12,598     | 11,784     | 12,303     | 12,814     | 12,342      | 11,346      | 10,330     | 9,597      | 11,311          |
| 53 | 1977   | 6,108      | 7,379      | 7,216      | 7,094      | 7,141      | 6,488      | 6,292      | 7,897      | 5,182       | 7,113       | 6,290      | 4,505      | 6,562           |
| 54 | 1978   | 5,069      | 6,408      | 9,857      | 9,556      | 9,461      | 9,168      | 10,926     | 11,741     | 10,288      | 10,363      | 7,241      | 6,971      | 8,919           |
| 55 | 1979   | 6,153      | 7,402      | 7,945      | 8,950      | 6,666      | 8,975      | 8,496      | 12,309     | 8,532       | 6,882       | 6,218      | 5,628      | 7,859           |
| 56 | 1980   | 5,643      | 7,320      | 6,871      | 8,349      | 7,513      | 6,552      | 10,041     | 13,373     | 12,674      | 7,940       | 6,720      | 5,965      | 8,245           |
| 57 | 1981   | 5,760      | 7,285      | 11,158     | 11,614     | 10,611     | 9,321      | 7,803      | 11,531     | 13,831      | 10,549      | 9,406      | 6,505      | 9,614           |
| 58 | 1982   | 5,682      | 7,744      | 9,711      | 11,334     | 13,810     | 13,306     | 11,139     | 12,481     | 13,135      | 11,121      | 9,816      | 7,860      | 10,575          |
| 59 | 1983   | 6,821      | 7,908      | 10,076     | 11,967     | 11,415     | 12,615     | 10,346     | 12,017     | 12,163      | 11,220      | 9,770      | 6,502      | 10,236          |
| 60 | 1984   | 5,868      | 9,937      | 10,002     | 11,162     | 11,005     | 10,585     | 12,517     | 12,485     | 13,694      | 11,166      | 8,991      | 6,497      | 10,316          |
| 61 | 1985   | 5,941      | 7,901      | 8,821      | 8,936      | 8,385      | 8,191      | 10,569     | 12,410     | 9,778       | 6,006       | 5,759      | 5,408      | 8,171           |
| 62 | 1986   | 6,432      | 8,966      | 8,805      | 9,974      | 11,043     | 13,660     | 11,608     | 11,173     | 12,359      | 8,986       | 7,145      | 5,712      | 9,643           |
| 63 | 1987   | 5,460      | 7,225      | 8,934      | 8,564      | 6,494      | 8,663      | 7,947      | 10,950     | 9,590       | 7,315       | 6,028      | 5,136      | 7,704           |
| 64 | 1988   | 5,517      | 7,163      | 6,824      | 6,384      | 5,694      | 6,403      | 7,540      | 9,561      | 7,914       | 8,663       | 6,663      | 5,164      | 6,968           |
| 65 | 1989   | 5,458      | 6,872      | 8,557      | 7,004      | 6,607      | 7,942      | 11,249     | 11,813     | 9,811       | 6,918       | 6,463      | 5,478      | 7,852           |
| 66 | 1990   | 5,615      | 7,659      | 9,324      | 10,387     | 10,101     | 9,705      | 11,147     | 11,569     | 12,224      | 9,116       | 8,307      | 5,676      | 9,229           |
| 67 | 1991   | 5,189      | 9,628      | 10,380     | 11,584     | 11,045     | 10,213     | 10,159     | 12,144     | 12,135      | 11,035      | 9,303      | 5,828      | 9,882           |
| 68 | 1992   | 5,380      | 7,311      | 7,644      | 8,023      | 6,579      | 8,447      | 6,985      | 9,207      | 7,105       | 7,147       | 6,074      | 4,866      | 7,073           |
| 69 | 1993   | 5,597      | 7,100      | 7,809      | 6,331      | 5,495      | 7,433      | 8,150      | 11,529     | 10,681      | 8,287       | 7,146      | 5,554      | 7,607           |
| 70 | 1994   | 5,537      | 7,722      | 7,676      | 6,458      | 6,678      | 6,219      | 7,185      | 10,736     | 9,392       | 8,088       | 6,484      | 5,454      | 7,306           |
| 71 | 1995   | 5,408      | 6,615      | 7,920      | 7,353      | 10,502     | 10,612     | 8,423      | 10,498     | 12,254      | 9,435       | 7,146      | 6,089      | 8,506           |
| 72 | 1996   | 6,956      | 10,810     | 14,695     | 15,057     | 13,991     | 13,743     | 11,981     | 12,095     | 13,194      | 11,527      | 9,532      | 5,898      | 11,616          |
| 73 | 1997   | 5,659      | 7,752      | 10,089     | 14,967     | 14,832     | 14,065     | 12,442     | 12,684     | 13,450      | 11,725      | 9,862      | 7,614      | 11,242          |
| 74 | 1998   | 8,636      | 9,059      | 9,606      | 9,227      | 9,527      | 8,343      | 8,657      | 12,804     | 13,348      | 9,832       | 8,531      | 5,886      | 9,456           |
| 75 | 1999   | 5,635      | 6,835      | 9,474      | 12,930     | 12,726     | 12,700     | 10,711     | 12,167     | 13,600      | 11,512      | 9,905      | 7,085      | 10,430          |
| 76 | 2000   | 5,897      | 9,942      | 10,786     | 10,380     | 9,876      | 9,411      | 12,112     | 11,083     | 10,445      | 9,653       | 7,214      | 5,642      | 9,364           |
| 77 | 2001   | 5,663      | 7,233      | 7,235      | 7,123      | 6,812      | 6,503      | 6,605      | 8,872      | 4,765       | 7,267       | 6,204      | 4,345      | 6,559           |
| 78 | 2002   | 4,983      | 6,579      | 8,263      | 7,010      | 7,098      | 6,986      | 10,553     | 10,516     | 12,697      | 10,820      | 7,762      | 5,684      | 8,248           |
| 79 | 2003   | 5,257      | 7,579      | 7,408      | 6,608      | 6,667      | 9,889      | 9,481      | 10,704     | 12,419      | 7,073       | 5,947      | 5,068      | 7,842           |
| 80 | 2004   | 5,770      | 7,380      | 9,291      | 7,232      | 6,258      | 8,566      | 8,532      | 10,759     | 10,623      | 6,976       | 6,370      | 6,924      | 7,898           |
| 81 | 2005   | 5,880      | 7,363      | 9,298      | 9,205      | 8,622      | 7,308      | 7,455      | 11,409     | 10,612      | 7,818       | 6,801      | 5,668      | 8,120           |
| 82 | 2006   | 5,632      | 7,358      | 8,674      | 10,843     | 10,370     | 9,825      | 12,321     | 12,977     | 12,389      | 8,811       | 6,929      | 5,374      | 9,282           |
| 83 | 2007   | 5,122      | 7,760      | 8,852      | 10,441     | 8,272      | 11,433     | 10,146     | 11,504     | 9,975       | 9,561       | 6,562      | 4,934      | 8,722           |
| 84 | 2008   | 5,820      | 7,224      | 8,139      | 8,014      | 7,730      | 7,335      | 7,677      | 12,878     | 14,096      | 10,181      | 7,874      | 5,693      | 8,561           |
| 85 | 80 WY Average  | 5,922      | 7,718      | 9,056      | 9,843      | 9,377      | 9,350      | 9,699      | 11,479     | 11,336      | 9,392       | 7,792      | 5,991      | 8,911           |
| 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     |
|----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1  | <b>Table 5: Heavy-Load Hydro Generation Ratios<br/>for FY 2014</b> |       |       |       |       |       |       |       |       |       |       |       |       |
| 2  |  |       |       |       |       |       |       |       |       |       |       |       |       |
| 3  |  |       |       |       |       |       |       |       |       |       |       |       |       |
| 4  | Water Year   | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | May   | June  | July  | Aug   | Sep   |
| 5  | 1929   | 1.163 | 1.157 | 1.195 | 1.177 | 1.157 | 1.167 | 1.121 | 1.134 | 1.172 | 1.214 | 1.194 | 1.166 |
| 6  | 1930   | 1.153 | 1.163 | 1.198 | 1.149 | 1.140 | 1.164 | 1.118 | 1.142 | 1.198 | 1.103 | 1.173 | 1.175 |
| 7  | 1931   | 1.144 | 1.160 | 1.199 | 1.156 | 1.137 | 1.158 | 1.088 | 1.132 | 1.229 | 1.105 | 1.180 | 1.152 |
| 8  | 1932   | 1.141 | 1.156 | 1.191 | 1.119 | 1.097 | 1.122 | 1.055 | 1.031 | 1.045 | 1.160 | 1.171 | 1.176 |
| 9  | 1933   | 1.155 | 1.141 | 1.184 | 1.212 | 1.188 | 1.130 | 1.113 | 1.050 | 1.045 | 0.997 | 1.078 | 1.176 |
| 10 | 1934   | 1.175 | 1.158 | 1.081 | 1.057 | 1.039 | 1.124 | 1.008 | 1.002 | 1.072 | 1.070 | 1.221 | 1.181 |
| 11 | 1935   | 1.155 | 1.146 | 1.201 | 1.211 | 1.201 | 1.171 | 1.117 | 1.078 | 1.172 | 1.041 | 1.141 | 1.154 |
| 12 | 1936   | 1.158 | 1.162 | 1.195 | 1.162 | 1.139 | 1.150 | 1.108 | 1.057 | 1.070 | 1.113 | 1.175 | 1.152 |
| 13 | 1937   | 1.154 | 1.163 | 1.197 | 1.166 | 1.140 | 1.166 | 1.123 | 1.124 | 1.197 | 1.140 | 1.200 | 1.171 |
| 14 | 1938   | 1.147 | 1.149 | 1.202 | 1.228 | 1.166 | 1.153 | 1.065 | 1.006 | 1.149 | 1.076 | 1.211 | 1.174 |
| 15 | 1939   | 1.159 | 1.158 | 1.192 | 1.179 | 1.159 | 1.147 | 1.139 | 1.063 | 1.210 | 1.132 | 1.200 | 1.158 |
| 16 | 1940   | 1.163 | 1.159 | 1.198 | 1.177 | 1.149 | 1.145 | 1.123 | 1.100 | 1.153 | 1.160 | 1.204 | 1.168 |
| 17 | 1941   | 1.161 | 1.151 | 1.193 | 1.168 | 1.153 | 1.164 | 1.133 | 1.117 | 1.199 | 1.130 | 1.197 | 1.168 |
| 18 | 1942   | 1.139 | 1.138 | 1.208 | 1.211 | 1.153 | 1.152 | 1.131 | 1.121 | 1.123 | 1.049 | 1.157 | 1.165 |
| 19 | 1943   | 1.161 | 1.146 | 1.197 | 1.201 | 1.155 | 1.140 | 1.019 | 1.001 | 1.035 | 1.124 | 1.207 | 1.160 |
| 20 | 1944   | 1.151 | 1.155 | 1.190 | 1.179 | 1.162 | 1.171 | 1.113 | 1.147 | 1.178 | 1.207 | 1.188 | 1.167 |
| 21 | 1945   | 1.153 | 1.157 | 1.190 | 1.160 | 1.137 | 1.164 | 1.088 | 1.106 | 1.151 | 1.201 | 1.172 | 1.164 |
| 22 | 1946   | 1.147 | 1.150 | 1.195 | 1.208 | 1.159 | 1.141 | 1.062 | 0.985 | 1.128 | 1.070 | 1.137 | 1.166 |
| 23 | 1947   | 1.146 | 1.145 | 1.198 | 1.111 | 1.163 | 1.158 | 1.112 | 1.071 | 1.089 | 1.040 | 1.183 | 1.166 |
| 24 | 1948   | 1.188 | 1.166 | 1.226 | 1.159 | 1.155 | 1.163 | 1.073 | 0.987 | 1.027 | 1.013 | 1.080 | 1.166 |
| 25 | 1949   | 1.163 | 1.153 | 1.200 | 1.190 | 1.143 | 1.154 | 1.072 | 1.038 | 1.123 | 1.217 | 1.198 | 1.153 |
| 26 | 1950   | 1.154 | 1.151 | 1.197 | 1.102 | 1.182 | 1.148 | 1.089 | 1.009 | 1.032 | 1.123 | 1.092 | 1.165 |
| 27 | 1951   | 1.169 | 1.164 | 1.147 | 1.088 | 1.137 | 1.072 | 1.057 | 0.987 | 1.139 | 1.012 | 1.080 | 1.164 |
| 28 | 1952   | 1.178 | 1.152 | 1.228 | 1.169 | 1.208 | 1.113 | 1.064 | 0.988 | 1.130 | 1.077 | 1.168 | 1.154 |
| 29 | 1953   | 1.146 | 1.160 | 1.194 | 1.166 | 1.170 | 1.165 | 1.114 | 1.016 | 1.036 | 1.068 | 1.166 | 1.165 |
| 30 | 1954   | 1.160 | 1.157 | 1.224 | 1.128 | 1.179 | 1.152 | 1.102 | 0.999 | 1.031 | 0.995 | 1.063 | 1.184 |
| 31 | 1955   | 1.164 | 1.164 | 1.215 | 1.198 | 1.159 | 1.161 | 1.126 | 1.108 | 1.037 | 0.990 | 1.103 | 1.155 |
| 32 | 1956   | 1.170 | 1.167 | 1.177 | 1.118 | 1.089 | 1.123 | 1.036 | 0.984 | 1.036 | 1.008 | 1.094 | 1.162 |
| 33 | 1957   | 1.161 | 1.150 | 1.222 | 1.226 | 1.153 | 1.157 | 1.092 | 1.019 | 1.034 | 1.076 | 1.196 | 1.170 |
| 34 | 1958   | 1.151 | 1.156 | 1.188 | 1.189 | 1.165 | 1.179 | 1.110 | 1.044 | 1.083 | 1.087 | 1.195 | 1.168 |
| 35 | 1959   | 1.155 | 1.151 | 1.211 | 1.130 | 1.130 | 1.122 | 1.088 | 1.006 | 1.034 | 1.111 | 1.078 | 1.190 |
| 36 | 1960   | 1.164 | 1.160 | 1.177 | 1.174 | 1.208 | 1.176 | 1.017 | 1.053 | 1.134 | 1.068 | 1.186 | 1.169 |
| 37 | 1961   | 1.164 | 1.157 | 1.202 | 1.164 | 1.198 | 1.160 | 1.099 | 1.006 | 1.033 | 1.071 | 1.186 | 1.162 |
| 38 | 1962   | 1.158 | 1.156 | 1.192 | 1.229 | 1.188 | 1.165 | 1.054 | 1.018 | 1.074 | 1.205 | 1.209 | 1.162 |
| 39 | 1963   | 1.159 | 1.159 | 1.211 | 1.211 | 1.175 | 1.170 | 1.161 | 1.113 | 1.111 | 1.064 | 1.164 | 1.166 |
| 40 | 1964   | 1.150 | 1.152 | 1.202 | 1.216 | 1.182 | 1.158 | 1.103 | 1.066 | 1.033 | 1.003 | 1.087 | 1.169 |
| 41 | 1965   | 1.174 | 1.157 | 1.189 | 1.071 | 1.080 | 1.116 | 1.057 | 0.985 | 1.106 | 1.096 | 1.108 | 1.159 |
| 42 | 1966   | 1.164 | 1.155 | 1.209 | 1.227 | 1.187 | 1.158 | 1.073 | 1.085 | 1.160 | 1.035 | 1.161 | 1.163 |
| 43 | 1967   | 1.156 | 1.153 | 1.214 | 1.120 | 1.128 | 1.098 | 1.128 | 1.054 | 1.030 | 1.037 | 1.140 | 1.174 |
| 44 | 1968   | 1.158 | 1.152 | 1.212 | 1.170 | 1.196 | 1.175 | 1.151 | 1.140 | 1.108 | 1.024 | 1.122 | 1.172 |

|    | A  | B     | C     | D     | E     | F     | G     | H     | I     | J     | K     | L     | M     |
|----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1  | <b>Table 5: Heavy-Load Hydro Generation Ratios<br/>for FY 2014</b> |       |       |       |       |       |       |       |       |       |       |       |       |
| 2  |  |       |       |       |       |       |       |       |       |       |       |       |       |
| 3  |  |       |       |       |       |       |       |       |       |       |       |       |       |
| 4  | Water Year   | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | May   | June  | July  | Aug   | Sep   |
| 45 | 1969   | 1.173 | 1.165 | 1.222 | 1.137 | 1.083 | 1.129 | 1.032 | 0.989 | 1.118 | 1.027 | 1.132 | 1.170 |
| 46 | 1970   | 1.157 | 1.157 | 1.193 | 1.202 | 1.177 | 1.170 | 1.134 | 1.093 | 1.088 | 1.174 | 1.192 | 1.151 |
| 47 | 1971   | 1.148 | 1.146 | 1.189 | 1.115 | 1.100 | 1.121 | 1.071 | 0.985 | 1.034 | 1.010 | 1.071 | 1.177 |
| 48 | 1972   | 1.153 | 1.150 | 1.213 | 1.108 | 1.098 | 1.037 | 1.044 | 0.985 | 1.028 | 0.997 | 1.070 | 1.192 |
| 49 | 1973   | 1.153 | 1.146 | 1.215 | 1.225 | 1.162 | 1.164 | 1.126 | 1.134 | 1.174 | 1.164 | 1.204 | 1.167 |
| 50 | 1974   | 1.144 | 1.128 | 1.206 | 1.031 | 1.036 | 1.091 | 1.036 | 0.985 | 1.030 | 0.994 | 1.076 | 1.182 |
| 51 | 1975   | 1.149 | 1.156 | 1.193 | 1.239 | 1.197 | 1.165 | 1.114 | 1.016 | 1.058 | 1.007 | 1.126 | 1.167 |
| 52 | 1976   | 1.154 | 1.168 | 1.120 | 1.152 | 1.110 | 1.124 | 1.050 | 0.985 | 1.116 | 1.007 | 1.057 | 1.150 |
| 53 | 1977   | 1.160 | 1.153 | 1.200 | 1.183 | 1.164 | 1.177 | 1.122 | 1.152 | 1.214 | 1.167 | 1.187 | 1.153 |
| 54 | 1978   | 1.119 | 1.142 | 1.231 | 1.181 | 1.155 | 1.152 | 1.088 | 1.015 | 1.146 | 1.103 | 1.188 | 1.189 |
| 55 | 1979   | 1.170 | 1.158 | 1.197 | 1.208 | 1.148 | 1.179 | 1.136 | 1.056 | 1.215 | 1.212 | 1.199 | 1.157 |
| 56 | 1980   | 1.156 | 1.160 | 1.191 | 1.172 | 1.154 | 1.152 | 1.089 | 0.991 | 1.103 | 1.195 | 1.194 | 1.168 |
| 57 | 1981   | 1.162 | 1.153 | 1.160 | 1.125 | 1.193 | 1.173 | 1.127 | 1.022 | 1.035 | 1.011 | 1.072 | 1.180 |
| 58 | 1982   | 1.157 | 1.156 | 1.227 | 1.169 | 1.103 | 1.092 | 1.098 | 0.989 | 1.029 | 1.124 | 1.082 | 1.192 |
| 59 | 1983   | 1.159 | 1.151 | 1.235 | 1.151 | 1.178 | 1.098 | 1.100 | 1.055 | 1.120 | 1.059 | 1.088 | 1.166 |
| 60 | 1984   | 1.148 | 1.167 | 1.225 | 1.215 | 1.183 | 1.116 | 1.055 | 1.081 | 1.071 | 1.048 | 1.165 | 1.160 |
| 61 | 1985   | 1.142 | 1.145 | 1.207 | 1.209 | 1.179 | 1.146 | 1.107 | 1.054 | 1.173 | 1.185 | 1.206 | 1.140 |
| 62 | 1986   | 1.136 | 1.152 | 1.206 | 1.224 | 1.105 | 1.060 | 1.098 | 1.108 | 1.129 | 1.096 | 1.171 | 1.151 |
| 63 | 1987   | 1.146 | 1.144 | 1.207 | 1.192 | 1.142 | 1.179 | 1.159 | 1.056 | 1.131 | 1.154 | 1.189 | 1.161 |
| 64 | 1988   | 1.148 | 1.159 | 1.188 | 1.164 | 1.140 | 1.162 | 1.139 | 1.138 | 1.169 | 1.097 | 1.203 | 1.171 |
| 65 | 1989   | 1.138 | 1.150 | 1.187 | 1.172 | 1.151 | 1.126 | 1.077 | 1.070 | 1.184 | 1.208 | 1.194 | 1.156 |
| 66 | 1990   | 1.147 | 1.149 | 1.199 | 1.200 | 1.183 | 1.160 | 1.083 | 1.032 | 1.051 | 1.088 | 1.134 | 1.160 |
| 67 | 1991   | 1.146 | 1.166 | 1.199 | 1.172 | 1.136 | 1.127 | 1.086 | 1.025 | 1.116 | 1.002 | 1.078 | 1.159 |
| 68 | 1992   | 1.149 | 1.154 | 1.183 | 1.173 | 1.150 | 1.156 | 1.160 | 1.085 | 1.164 | 1.215 | 1.192 | 1.165 |
| 69 | 1993   | 1.150 | 1.161 | 1.196 | 1.167 | 1.137 | 1.154 | 1.109 | 1.103 | 1.187 | 1.145 | 1.190 | 1.154 |
| 70 | 1994   | 1.142 | 1.160 | 1.195 | 1.164 | 1.139 | 1.163 | 1.146 | 1.115 | 1.141 | 1.132 | 1.195 | 1.168 |
| 71 | 1995   | 1.140 | 1.157 | 1.190 | 1.168 | 1.168 | 1.182 | 1.130 | 1.119 | 1.125 | 1.154 | 1.212 | 1.170 |
| 72 | 1996   | 1.160 | 1.158 | 1.049 | 1.053 | 1.099 | 1.044 | 1.044 | 1.003 | 1.084 | 1.004 | 1.077 | 1.165 |
| 73 | 1997   | 1.158 | 1.155 | 1.235 | 1.066 | 1.039 | 1.040 | 1.029 | 0.981 | 1.026 | 1.003 | 1.077 | 1.178 |
| 74 | 1998   | 1.179 | 1.164 | 1.215 | 1.215 | 1.201 | 1.168 | 1.147 | 1.033 | 1.053 | 1.099 | 1.157 | 1.153 |
| 75 | 1999   | 1.145 | 1.145 | 1.220 | 1.123 | 1.117 | 1.118 | 1.080 | 1.041 | 1.041 | 1.004 | 1.069 | 1.197 |
| 76 | 2000   | 1.155 | 1.167 | 1.190 | 1.197 | 1.205 | 1.168 | 1.047 | 1.090 | 1.180 | 1.077 | 1.155 | 1.160 |
| 77 | 2001   | 1.152 | 1.155 | 1.190 | 1.178 | 1.162 | 1.167 | 1.114 | 1.143 | 1.202 | 1.156 | 1.193 | 1.153 |
| 78 | 2002   | 1.105 | 1.150 | 1.190 | 1.162 | 1.144 | 1.148 | 1.091 | 1.116 | 1.043 | 1.010 | 1.158 | 1.171 |
| 79 | 2003   | 1.146 | 1.159 | 1.196 | 1.159 | 1.140 | 1.177 | 1.162 | 1.122 | 1.117 | 1.186 | 1.196 | 1.154 |
| 80 | 2004   | 1.164 | 1.155 | 1.196 | 1.176 | 1.148 | 1.152 | 1.150 | 1.107 | 1.156 | 1.177 | 1.197 | 1.157 |
| 81 | 2005   | 1.166 | 1.157 | 1.217 | 1.227 | 1.177 | 1.167 | 1.155 | 1.111 | 1.128 | 1.143 | 1.180 | 1.161 |
| 82 | 2006   | 1.147 | 1.157 | 1.194 | 1.210 | 1.203 | 1.153 | 1.041 | 0.996 | 1.109 | 1.087 | 1.219 | 1.165 |
| 83 | 2007   | 1.145 | 1.145 | 1.205 | 1.196 | 1.177 | 1.140 | 1.084 | 1.083 | 1.157 | 1.054 | 1.177 | 1.154 |
| 84 | 2008   | 1.160 | 1.153 | 1.189 | 1.195 | 1.150 | 1.168 | 1.119 | 1.042 | 1.039 | 1.078 | 1.170 | 1.159 |

|    | A  | B     | C     | D     | E     | F     | G     | H     | I     | J     | K     | L     | M     |
|----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1  | <b>Table 6: Heavy-Load Hydro Generation Ratios</b> |       |       |       |       |       |       |       |       |       |       |       |       |
| 2  | <b>for FY 2015</b>                                 |       |       |       |       |       |       |       |       |       |       |       |       |
| 3  |  |       |       |       |       |       |       |       |       |       |       |       |       |
| 4  | Water Year   | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | May   | June  | July  | Aug   | Sep   |
| 5  | 1929   | 1.152 | 1.221 | 1.146 | 1.184 | 1.166 | 1.173 | 1.126 | 1.178 | 1.103 | 1.213 | 1.195 | 1.152 |
| 6  | 1930   | 1.151 | 1.229 | 1.147 | 1.172 | 1.157 | 1.175 | 1.128 | 1.180 | 1.115 | 1.140 | 1.179 | 1.152 |
| 7  | 1931   | 1.151 | 1.229 | 1.149 | 1.169 | 1.140 | 1.172 | 1.124 | 1.175 | 1.160 | 1.163 | 1.176 | 1.145 |
| 8  | 1932   | 1.136 | 1.218 | 1.142 | 1.124 | 1.101 | 1.132 | 1.056 | 1.076 | 1.002 | 1.205 | 1.171 | 1.164 |
| 9  | 1933   | 1.154 | 1.203 | 1.149 | 1.220 | 1.195 | 1.138 | 1.121 | 1.092 | 1.003 | 1.037 | 1.079 | 1.168 |
| 10 | 1934   | 1.168 | 1.219 | 1.032 | 1.057 | 1.038 | 1.117 | 1.023 | 1.054 | 1.032 | 1.118 | 1.232 | 1.162 |
| 11 | 1935   | 1.161 | 1.203 | 1.168 | 1.211 | 1.216 | 1.150 | 1.142 | 1.112 | 1.104 | 1.066 | 1.136 | 1.148 |
| 12 | 1936   | 1.147 | 1.227 | 1.147 | 1.169 | 1.153 | 1.163 | 1.116 | 1.106 | 1.050 | 1.171 | 1.173 | 1.145 |
| 13 | 1937   | 1.145 | 1.229 | 1.148 | 1.176 | 1.146 | 1.172 | 1.134 | 1.176 | 1.125 | 1.222 | 1.192 | 1.144 |
| 14 | 1938   | 1.155 | 1.217 | 1.174 | 1.226 | 1.179 | 1.167 | 1.078 | 1.052 | 1.081 | 1.126 | 1.210 | 1.166 |
| 15 | 1939   | 1.154 | 1.222 | 1.142 | 1.195 | 1.179 | 1.169 | 1.139 | 1.106 | 1.154 | 1.196 | 1.201 | 1.150 |
| 16 | 1940   | 1.160 | 1.225 | 1.168 | 1.197 | 1.154 | 1.149 | 1.166 | 1.159 | 1.158 | 1.181 | 1.201 | 1.146 |
| 17 | 1941   | 1.157 | 1.220 | 1.165 | 1.174 | 1.159 | 1.171 | 1.149 | 1.157 | 1.150 | 1.148 | 1.190 | 1.143 |
| 18 | 1942   | 1.152 | 1.214 | 1.165 | 1.208 | 1.187 | 1.182 | 1.137 | 1.158 | 1.103 | 1.096 | 1.151 | 1.154 |
| 19 | 1943   | 1.159 | 1.207 | 1.157 | 1.184 | 1.178 | 1.152 | 1.020 | 1.053 | 0.994 | 1.159 | 1.204 | 1.149 |
| 20 | 1944   | 1.137 | 1.217 | 1.142 | 1.185 | 1.171 | 1.175 | 1.117 | 1.190 | 1.101 | 1.243 | 1.205 | 1.123 |
| 21 | 1945   | 1.155 | 1.225 | 1.143 | 1.169 | 1.148 | 1.171 | 1.096 | 1.153 | 1.095 | 1.234 | 1.186 | 1.144 |
| 22 | 1946   | 1.140 | 1.213 | 1.165 | 1.214 | 1.161 | 1.149 | 1.067 | 1.026 | 1.068 | 1.110 | 1.142 | 1.157 |
| 23 | 1947   | 1.135 | 1.213 | 1.137 | 1.135 | 1.186 | 1.131 | 1.121 | 1.107 | 1.024 | 1.067 | 1.172 | 1.158 |
| 24 | 1948   | 1.191 | 1.228 | 1.179 | 1.163 | 1.200 | 1.171 | 1.079 | 1.035 | 0.988 | 1.049 | 1.079 | 1.181 |
| 25 | 1949   | 1.155 | 1.217 | 1.157 | 1.201 | 1.174 | 1.141 | 1.093 | 1.097 | 1.064 | 1.243 | 1.195 | 1.139 |
| 26 | 1950   | 1.147 | 1.214 | 1.161 | 1.129 | 1.167 | 1.156 | 1.093 | 1.057 | 0.993 | 1.149 | 1.092 | 1.155 |
| 27 | 1951   | 1.167 | 1.227 | 1.090 | 1.082 | 1.099 | 1.100 | 1.062 | 1.037 | 1.087 | 1.047 | 1.097 | 1.155 |
| 28 | 1952   | 1.175 | 1.217 | 1.181 | 1.173 | 1.212 | 1.124 | 1.055 | 1.029 | 1.074 | 1.117 | 1.182 | 1.141 |
| 29 | 1953   | 1.134 | 1.221 | 1.144 | 1.215 | 1.151 | 1.181 | 1.120 | 1.068 | 0.994 | 1.102 | 1.179 | 1.156 |
| 30 | 1954   | 1.148 | 1.223 | 1.182 | 1.145 | 1.192 | 1.140 | 1.109 | 1.062 | 0.993 | 1.034 | 1.063 | 1.195 |
| 31 | 1955   | 1.155 | 1.232 | 1.172 | 1.205 | 1.181 | 1.184 | 1.142 | 1.150 | 1.003 | 1.030 | 1.111 | 1.145 |
| 32 | 1956   | 1.163 | 1.232 | 1.118 | 1.121 | 1.091 | 1.132 | 1.039 | 1.027 | 0.995 | 1.044 | 1.094 | 1.152 |
| 33 | 1957   | 1.155 | 1.215 | 1.182 | 1.228 | 1.173 | 1.163 | 1.100 | 1.071 | 0.992 | 1.104 | 1.181 | 1.159 |
| 34 | 1958   | 1.143 | 1.219 | 1.145 | 1.192 | 1.174 | 1.182 | 1.116 | 1.088 | 1.028 | 1.132 | 1.213 | 1.161 |
| 35 | 1959   | 1.153 | 1.212 | 1.149 | 1.134 | 1.135 | 1.130 | 1.090 | 1.048 | 0.993 | 1.163 | 1.078 | 1.185 |
| 36 | 1960   | 1.171 | 1.223 | 1.116 | 1.180 | 1.211 | 1.182 | 1.018 | 1.102 | 1.079 | 1.096 | 1.173 | 1.163 |
| 37 | 1961   | 1.153 | 1.222 | 1.161 | 1.170 | 1.198 | 1.178 | 1.123 | 1.059 | 0.993 | 1.092 | 1.171 | 1.155 |
| 38 | 1962   | 1.147 | 1.220 | 1.151 | 1.235 | 1.196 | 1.168 | 1.060 | 1.069 | 1.026 | 1.237 | 1.191 | 1.151 |
| 39 | 1963   | 1.156 | 1.221 | 1.146 | 1.142 | 1.179 | 1.169 | 1.146 | 1.154 | 1.100 | 1.107 | 1.162 | 1.158 |
| 40 | 1964   | 1.140 | 1.214 | 1.159 | 1.222 | 1.186 | 1.168 | 1.108 | 1.116 | 0.993 | 1.042 | 1.086 | 1.158 |
| 41 | 1965   | 1.169 | 1.223 | 1.130 | 1.069 | 1.082 | 1.124 | 1.058 | 1.027 | 1.049 | 1.107 | 1.107 | 1.149 |
| 42 | 1966   | 1.156 | 1.220 | 1.168 | 1.233 | 1.196 | 1.178 | 1.073 | 1.154 | 1.104 | 1.070 | 1.136 | 1.156 |
| 43 | 1967   | 1.145 | 1.215 | 1.170 | 1.111 | 1.164 | 1.118 | 1.138 | 1.105 | 0.989 | 1.066 | 1.123 | 1.166 |
| 44 | 1968   | 1.149 | 1.217 | 1.170 | 1.155 | 1.188 | 1.179 | 1.155 | 1.187 | 1.058 | 1.063 | 1.118 | 1.161 |



|    | A  | B     | C     | D     | E     | F     | G     | H     | I     | J     | K     | L     | M     |
|----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1  | <b>Table 6: Heavy-Load Hydro Generation Ratios<br/>for FY 2015</b> |       |       |       |       |       |       |       |       |       |       |       |       |
| 2  |  |       |       |       |       |       |       |       |       |       |       |       |       |
| 3  |  |       |       |       |       |       |       |       |       |       |       |       |       |
| 4  | Water Year   | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | May   | June  | July  | Aug   | Sep   |
| 45 | 1969   | 1.168 | 1.226 | 1.172 | 1.141 | 1.089 | 1.135 | 1.035 | 1.036 | 1.062 | 1.055 | 1.146 | 1.164 |
| 46 | 1970   | 1.148 | 1.221 | 1.148 | 1.223 | 1.198 | 1.180 | 1.138 | 1.144 | 1.041 | 1.176 | 1.204 | 1.143 |
| 47 | 1971   | 1.137 | 1.211 | 1.146 | 1.121 | 1.102 | 1.126 | 1.068 | 1.027 | 0.992 | 1.055 | 1.071 | 1.168 |
| 48 | 1972   | 1.147 | 1.216 | 1.171 | 1.112 | 1.099 | 1.059 | 1.048 | 1.026 | 0.989 | 1.034 | 1.070 | 1.181 |
| 49 | 1973   | 1.147 | 1.211 | 1.174 | 1.235 | 1.186 | 1.175 | 1.131 | 1.170 | 1.136 | 1.214 | 1.189 | 1.140 |
| 50 | 1974   | 1.149 | 1.193 | 1.185 | 1.028 | 1.040 | 1.088 | 1.039 | 1.026 | 0.991 | 1.034 | 1.074 | 1.184 |
| 51 | 1975   | 1.135 | 1.219 | 1.150 | 1.242 | 1.199 | 1.171 | 1.122 | 1.090 | 1.017 | 1.039 | 1.108 | 1.156 |
| 52 | 1976   | 1.149 | 1.230 | 1.067 | 1.155 | 1.115 | 1.133 | 1.053 | 1.030 | 1.074 | 1.042 | 1.059 | 1.164 |
| 53 | 1977   | 1.151 | 1.218 | 1.150 | 1.188 | 1.175 | 1.187 | 1.127 | 1.189 | 1.101 | 1.200 | 1.180 | 1.102 |
| 54 | 1978   | 1.132 | 1.206 | 1.179 | 1.203 | 1.163 | 1.165 | 1.090 | 1.085 | 1.080 | 1.109 | 1.185 | 1.170 |
| 55 | 1979   | 1.164 | 1.222 | 1.156 | 1.221 | 1.160 | 1.185 | 1.142 | 1.124 | 1.155 | 1.244 | 1.196 | 1.155 |
| 56 | 1980   | 1.149 | 1.223 | 1.138 | 1.202 | 1.171 | 1.164 | 1.092 | 1.040 | 1.051 | 1.227 | 1.198 | 1.160 |
| 57 | 1981   | 1.155 | 1.218 | 1.112 | 1.134 | 1.201 | 1.148 | 1.140 | 1.141 | 0.994 | 1.050 | 1.070 | 1.183 |
| 58 | 1982   | 1.147 | 1.221 | 1.186 | 1.175 | 1.089 | 1.095 | 1.098 | 1.061 | 0.989 | 1.147 | 1.079 | 1.181 |
| 59 | 1983   | 1.154 | 1.216 | 1.189 | 1.156 | 1.178 | 1.104 | 1.105 | 1.104 | 1.066 | 1.064 | 1.074 | 1.153 |
| 60 | 1984   | 1.140 | 1.229 | 1.184 | 1.220 | 1.185 | 1.122 | 1.074 | 1.119 | 1.032 | 1.090 | 1.130 | 1.148 |
| 61 | 1985   | 1.137 | 1.212 | 1.166 | 1.216 | 1.186 | 1.160 | 1.116 | 1.096 | 1.121 | 1.213 | 1.209 | 1.119 |
| 62 | 1986   | 1.159 | 1.216 | 1.163 | 1.231 | 1.109 | 1.062 | 1.100 | 1.153 | 1.076 | 1.129 | 1.169 | 1.142 |
| 63 | 1987   | 1.136 | 1.209 | 1.166 | 1.220 | 1.155 | 1.197 | 1.168 | 1.147 | 1.085 | 1.226 | 1.193 | 1.131 |
| 64 | 1988   | 1.145 | 1.226 | 1.138 | 1.166 | 1.148 | 1.174 | 1.148 | 1.181 | 1.151 | 1.125 | 1.190 | 1.131 |
| 65 | 1989   | 1.146 | 1.215 | 1.157 | 1.173 | 1.156 | 1.138 | 1.084 | 1.112 | 1.120 | 1.242 | 1.195 | 1.143 |
| 66 | 1990   | 1.145 | 1.214 | 1.169 | 1.189 | 1.209 | 1.153 | 1.084 | 1.075 | 1.001 | 1.137 | 1.151 | 1.151 |
| 67 | 1991   | 1.131 | 1.231 | 1.130 | 1.125 | 1.191 | 1.131 | 1.100 | 1.092 | 1.046 | 1.040 | 1.075 | 1.151 |
| 68 | 1992   | 1.135 | 1.218 | 1.132 | 1.201 | 1.157 | 1.172 | 1.138 | 1.183 | 1.165 | 1.241 | 1.194 | 1.115 |
| 69 | 1993   | 1.156 | 1.226 | 1.147 | 1.171 | 1.150 | 1.164 | 1.117 | 1.155 | 1.122 | 1.223 | 1.189 | 1.133 |
| 70 | 1994   | 1.142 | 1.227 | 1.148 | 1.171 | 1.171 | 1.172 | 1.155 | 1.157 | 1.103 | 1.183 | 1.193 | 1.143 |
| 71 | 1995   | 1.145 | 1.219 | 1.149 | 1.180 | 1.189 | 1.147 | 1.139 | 1.170 | 1.082 | 1.165 | 1.215 | 1.153 |
| 72 | 1996   | 1.167 | 1.220 | 1.007 | 1.054 | 1.099 | 1.047 | 1.046 | 1.051 | 1.026 | 1.044 | 1.074 | 1.166 |
| 73 | 1997   | 1.146 | 1.218 | 1.192 | 1.064 | 1.043 | 1.036 | 1.034 | 1.022 | 0.988 | 1.037 | 1.074 | 1.168 |
| 74 | 1998   | 1.186 | 1.226 | 1.173 | 1.225 | 1.213 | 1.183 | 1.153 | 1.089 | 1.033 | 1.122 | 1.136 | 1.143 |
| 75 | 1999   | 1.136 | 1.207 | 1.182 | 1.123 | 1.127 | 1.119 | 1.095 | 1.093 | 0.997 | 1.043 | 1.071 | 1.191 |
| 76 | 2000   | 1.147 | 1.232 | 1.129 | 1.200 | 1.211 | 1.173 | 1.056 | 1.143 | 1.112 | 1.089 | 1.150 | 1.152 |
| 77 | 2001   | 1.143 | 1.220 | 1.142 | 1.184 | 1.168 | 1.170 | 1.122 | 1.189 | 1.068 | 1.224 | 1.206 | 1.093 |
| 78 | 2002   | 1.121 | 1.213 | 1.150 | 1.174 | 1.152 | 1.155 | 1.097 | 1.163 | 0.998 | 1.050 | 1.169 | 1.158 |
| 79 | 2003   | 1.131 | 1.227 | 1.146 | 1.168 | 1.154 | 1.191 | 1.166 | 1.167 | 1.062 | 1.244 | 1.192 | 1.126 |
| 80 | 2004   | 1.159 | 1.221 | 1.169 | 1.181 | 1.151 | 1.175 | 1.178 | 1.169 | 1.102 | 1.237 | 1.190 | 1.155 |
| 81 | 2005   | 1.158 | 1.221 | 1.175 | 1.233 | 1.211 | 1.179 | 1.159 | 1.157 | 1.086 | 1.210 | 1.178 | 1.140 |
| 82 | 2006   | 1.152 | 1.220 | 1.154 | 1.215 | 1.207 | 1.160 | 1.050 | 1.039 | 1.043 | 1.136 | 1.171 | 1.142 |
| 83 | 2007   | 1.124 | 1.213 | 1.171 | 1.194 | 1.198 | 1.147 | 1.093 | 1.132 | 1.105 | 1.098 | 1.188 | 1.118 |
| 84 | 2008   | 1.158 | 1.219 | 1.157 | 1.206 | 1.184 | 1.168 | 1.123 | 1.095 | 0.999 | 1.116 | 1.175 | 1.154 |

|    | A  | B          | C          | D          | E          | F          | G          | H          | I          | J           | K           | L          | M          | N               |
|----|--|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|------------|------------|-----------------|
| 1  | <b>Table 7: Federal Hydro Generation Adjustment for</b>                  |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 2  | <b>Stand Ready &amp; Deployment Losses, Light-Load-Hours for FY 2014</b> |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 3  |  | 312        | 321        | 344        | 328        | 288        | 327        | 304        | 328        | 320         | 328         | 328        | 320        |                 |
| 4  | <b>Water Year</b>  | <b>Oct</b> | <b>Nov</b> | <b>Dec</b> | <b>Jan</b> | <b>Feb</b> | <b>Mar</b> | <b>Apr</b> | <b>May</b> | <b>June</b> | <b>July</b> | <b>Aug</b> | <b>Sep</b> | <b>Wtd Avg.</b> |
| 5  | 1929   | 96         | 237        | 222        | 210        | 115        | 28         | 13         | 118        | 10          | 28          | 27         | 18         | 94              |
| 6  | 1930   | 96         | 260        | 197        | -12        | 62         | -7         | 11         | 208        | 11          | 422         | 150        | 17         | 120             |
| 7  | 1931   | 96         | 236        | 230        | -12        | -8         | -13        | 8          | 368        | 181         | 422         | 277        | 14         | 153             |
| 8  | 1932   | 96         | 201        | 176        | -10        | -8         | 16         | -48        | -22        | -15         | 420         | 540        | 8          | 116             |
| 9  | 1933   | 97         | 85         | 181        | 169        | 212        | 270        | 267        | 139        | -29         | -12         | 96         | 14         | 123             |
| 10 | 1934   | 142        | 55         | -88        | -65        | -84        | -12        | -46        | -8         | -14         | 102         | 155        | 16         | 13              |
| 11 | 1935   | 97         | 99         | 201        | 191        | 119        | 178        | 349        | 73         | 171         | -11         | 569        | 16         | 171             |
| 12 | 1936   | 96         | 251        | 233        | -12        | -9         | 55         | 14         | -7         | -12         | 128         | 131        | 17         | 76              |
| 13 | 1937   | 97         | 223        | 229        | 36         | 1          | 11         | 7          | 372        | 12          | 506         | 27         | 15         | 131             |
| 14 | 1938   | 96         | 134        | 172        | 85         | 159        | 54         | 160        | 109        | 268         | 154         | 133        | 15         | 128             |
| 15 | 1939   | 97         | 232        | 160        | 247        | 194        | 57         | 414        | -8         | 348         | 56          | 27         | 15         | 151             |
| 16 | 1940   | 97         | 209        | 192        | 206        | 77         | 18         | 297        | 76         | 10          | 410         | 28         | 21         | 137             |
| 17 | 1941   | 96         | 175        | 181        | 121        | 72         | 11         | 68         | 218        | 349         | 57          | 50         | 1          | 117             |
| 18 | 1942   | 96         | 132        | 138        | 103        | 98         | 51         | 14         | 272        | -14         | 10          | 400        | 4          | 110             |
| 19 | 1943   | 97         | 99         | 94         | 60         | 134        | 39         | 44         | 36         | 71          | -12         | 173        | 35         | 72              |
| 20 | 1944   | 96         | 225        | 148        | 244        | 167        | -11        | 13         | 130        | 1           | 139         | 28         | 23         | 101             |
| 21 | 1945   | 97         | 237        | 118        | -12        | -7         | -12        | 10         | 340        | 205         | 28          | 144        | 35         | 100             |
| 22 | 1946   | 96         | 142        | 150        | 165        | 206        | 7          | 120        | 99         | 9           | 95          | 340        | 29         | 121             |
| 23 | 1947   | 97         | 133        | 223        | -50        | 152        | 185        | 310        | 62         | -14         | -13         | 293        | 14         | 116             |
| 24 | 1948   | 500        | 219        | 141        | 91         | 92         | 118        | 256        | -6         | -47         | -11         | 120        | 9          | 122             |
| 25 | 1949   | 96         | 182        | 202        | 177        | 64         | 161        | 181        | -45        | -16         | 29          | 28         | 34         | 91              |
| 26 | 1950   | 96         | 163        | 170        | -16        | 136        | 178        | 341        | 148        | 107         | -18         | 153        | 11         | 121             |
| 27 | 1951   | 90         | 213        | -6         | -82        | 16         | -81        | 47         | 77         | 69          | -11         | 322        | 12         | 55              |
| 28 | 1952   | 175        | 206        | 135        | 129        | 54         | 133        | 292        | -8         | 47          | 133         | 89         | 37         | 118             |
| 29 | 1953   | 96         | 249        | 200        | 63         | 195        | 155        | 249        | 16         | -19         | 132         | 126        | 14         | 122             |
| 30 | 1954   | 97         | 232        | 114        | -13        | 161        | 169        | 260        | 65         | -38         | -15         | 71         | 270        | 113             |
| 31 | 1955   | 95         | 214        | 121        | 186        | 137        | -14        | 67         | 286        | -53         | -22         | 348        | 16         | 116             |
| 32 | 1956   | 95         | 201        | 161        | -88        | -88        | 285        | 169        | 104        | -35         | -11         | 298        | 12         | 94              |
| 33 | 1957   | 95         | 168        | 121        | 98         | 104        | 51         | 267        | -21        | -20         | 131         | 252        | 17         | 105             |
| 34 | 1958   | 96         | 239        | 154        | 78         | 130        | 177        | 353        | -48        | -17         | 354         | 245        | 14         | 148             |
| 35 | 1959   | 96         | 200        | 187        | -88        | -33        | 140        | 119        | 152        | 141         | 267         | 110        | -27        | 107             |
| 36 | 1960   | 143        | 187        | 182        | 108        | 102        | 192        | -34        | 23         | 32          | 81          | 235        | 13         | 107             |
| 37 | 1961   | 96         | 214        | 168        | -7         | 126        | 292        | 277        | 8          | -50         | 110         | 405        | 12         | 138             |
| 38 | 1962   | 97         | 225        | 204        | 50         | 162        | 137        | -31        | -8         | -19         | 30          | 192        | 16         | 89              |
| 39 | 1963   | 95         | 179        | 239        | 177        | 164        | 218        | 243        | 279        | -12         | 78          | 398        | 21         | 174             |
| 40 | 1964   | 96         | 156        | 182        | 143        | 202        | 159        | 214        | 79         | -51         | -12         | 151        | 8          | 110             |
| 41 | 1965   | 122        | 216        | -36        | -143       | 88         | 40         | 357        | 118        | 261         | 322         | 300        | 39         | 139             |
| 42 | 1966   | 95         | 244        | 144        | 71         | 149        | 49         | -14        | 16         | 76          | -12         | 524        | 36         | 116             |
| 43 | 1967   | 97         | 188        | 145        | -12        | -30        | -9         | 29         | 137        | 84          | 43          | 424        | 19         | 95              |
| 44 | 1968   | 97         | 208        | 141        | 165        | 87         | 286        | 184        | 423        | -11         | -11         | 369        | 87         | 170             |

|    | A  | B          | C          | D          | E          | F          | G          | H          | I          | J           | K           | L          | M          | N               |
|----|--|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|------------|------------|-----------------|
| 1  | <b>Table 7: Federal Hydro Generation Adjustment for</b>                  |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 2  | <b>Stand Ready &amp; Deployment Losses, Light-Load-Hours for FY 2014</b> |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 3  |  | 312        | 321        | 344        | 328        | 288        | 327        | 304        | 328        | 320         | 328         | 328        | 320        |                 |
| 4  | <b>Water Year</b>  | <b>Oct</b> | <b>Nov</b> | <b>Dec</b> | <b>Jan</b> | <b>Feb</b> | <b>Mar</b> | <b>Apr</b> | <b>May</b> | <b>June</b> | <b>July</b> | <b>Aug</b> | <b>Sep</b> | <b>Wtd Avg.</b> |
| 45 | 1969   | 116        | 234        | 201        | -89        | -86        | 226        | 40         | 63         | -12         | -11         | 406        | 29         | 96              |
| 46 | 1970   | 97         | 258        | 214        | 152        | 192        | 169        | 242        | 190        | -53         | 213         | 97         | 36         | 150             |
| 47 | 1971   | 96         | 151        | 145        | -87        | 95         | 189        | 162        | 111        | 151         | -11         | 82         | 11         | 91              |
| 48 | 1972   | 95         | 202        | 125        | -86        | -88        | -18        | 44         | 159        | 44          | -12         | 75         | -1         | 46              |
| 49 | 1973   | 95         | 196        | 176        | 74         | 246        | 91         | 13         | 343        | 160         | 384         | 27         | 24         | 153             |
| 50 | 1974   | 96         | 79         | 140        | -63        | -4         | -53        | 117        | 118        | 133         | -15         | 84         | 11         | 54              |
| 51 | 1975   | 96         | 242        | 185        | 73         | 64         | 186        | 99         | 148        | -21         | -11         | 249        | 10         | 111             |
| 52 | 1976   | 83         | 206        | -82        | 100        | -70        | 152        | 45         | 117        | -14         | -11         | 76         | 303        | 76              |
| 53 | 1977   | 96         | 256        | 222        | 235        | 236        | 36         | 29         | 338        | 7           | 414         | 135        | 15         | 169             |
| 54 | 1978   | 20         | 91         | 130        | 203        | 122        | 24         | 179        | 145        | 119         | 225         | 75         | 164        | 125             |
| 55 | 1979   | 96         | 260        | 229        | 143        | 32         | 177        | 178        | -9         | 236         | 127         | 19         | 13         | 126             |
| 56 | 1980   | 96         | 261        | 150        | 208        | 139        | 58         | 262        | -50        | -15         | 175         | 120        | 38         | 119             |
| 57 | 1981   | 96         | 204        | 61         | -23        | 153        | 192        | 213        | -9         | -51         | -11         | 100        | 13         | 77              |
| 58 | 1982   | 97         | 244        | 116        | 196        | 81         | -96        | 388        | 109        | 121         | 8           | 84         | 94         | 119             |
| 59 | 1983   | 83         | 227        | 99         | -81        | 104        | 34         | 380        | 73         | 146         | 60          | 146        | 11         | 105             |
| 60 | 1984   | 96         | 284        | 108        | 28         | 117        | 22         | -41        | 334        | -32         | 39          | 451        | 7          | 119             |
| 61 | 1985   | 97         | 157        | 171        | 128        | 197        | 152        | 117        | -1         | 232         | 29          | -1         | 59         | 110             |
| 62 | 1986   | 96         | 168        | 155        | 65         | 67         | -52        | 274        | 334        | 77          | 408         | 196        | 35         | 153             |
| 63 | 1987   | 98         | 114        | 153        | 199        | 9          | 139        | 151        | -12        | 0           | 447         | 6          | 31         | 113             |
| 64 | 1988   | 97         | 238        | 113        | -11        | -9         | -3         | 11         | 336        | 72          | 397         | 28         | 16         | 109             |
| 65 | 1989   | 89         | 106        | 214        | 217        | 96         | 43         | 350        | 72         | 335         | 146         | 27         | 16         | 142             |
| 66 | 1990   | 97         | 192        | 164        | 178        | 156        | 264        | 263        | -6         | -20         | 181         | 345        | 13         | 152             |
| 67 | 1991   | 97         | 296        | 14         | 159        | -20        | -11        | 66         | 1          | -11         | -12         | 111        | 8          | 58              |
| 68 | 1992   | 96         | 157        | 105        | 236        | 100        | 105        | 117        | -9         | 7           | 166         | 21         | 18         | 93              |
| 69 | 1993   | 96         | 246        | 222        | -12        | -2         | 54         | 11         | 255        | 239         | 381         | 28         | 14         | 130             |
| 70 | 1994   | 98         | 226        | 223        | -7         | -9         | 15         | 11         | 136        | 8           | 51          | 25         | 17         | 68              |
| 71 | 1995   | 91         | 179        | 122        | 148        | 158        | 137        | 395        | 263        | 102         | 258         | 27         | 5          | 156             |
| 72 | 1996   | 95         | 69         | -23        | -70        | 209        | -66        | 56         | 41         | -50         | -12         | 115        | 30         | 31              |
| 73 | 1997   | 96         | 211        | 124        | -71        | -14        | -103       | 153        | 148        | -38         | -12         | 102        | -12        | 49              |
| 74 | 1998   | 140        | 238        | 119        | 147        | 147        | 134        | 377        | -45        | -49         | 348         | 420        | 33         | 167             |
| 75 | 1999   | 98         | 112        | 151        | -87        | -88        | 230        | 158        | 104        | -24         | -11         | 71         | 1          | 61              |
| 76 | 2000   | 97         | 99         | 153        | 160        | 133        | 162        | -11        | 83         | 360         | 126         | 325        | 16         | 143             |
| 77 | 2001   | 96         | 222        | 177        | 236        | 210        | 5          | 13         | 313        | 0           | 442         | 26         | 13         | 147             |
| 78 | 2002   | 34         | 127        | 141        | 75         | 60         | 38         | 265        | 343        | -46         | -11         | 169        | 30         | 102             |
| 79 | 2003   | 96         | 232        | 220        | 26         | 64         | 198        | 212        | 264        | -13         | 243         | 20         | 16         | 133             |
| 80 | 2004   | 96         | 235        | 160        | 245        | 47         | 59         | 232        | 184        | 110         | 263         | 28         | 12         | 140             |
| 81 | 2005   | 95         | 225        | 143        | 49         | 189        | 242        | 97         | 277        | -18         | 461         | 28         | 25         | 152             |
| 82 | 2006   | 96         | 223        | 180        | 182        | 65         | 153        | 12         | 22         | -11         | 268         | 126        | 16         | 113             |
| 83 | 2007   | 96         | 108        | 180        | 146        | 215        | 39         | 24         | 27         | 38          | 29          | 28         | 12         | 78              |
| 84 | 2008   | 97         | 208        | 166        | 200        | 104        | 74         | 9          | 16         | -53         | 231         | 574        | 31         | 140             |
| 85 | <b>80 WY Average</b>   | <b>102</b> | <b>193</b> | <b>150</b> | <b>78</b>  | <b>89</b>  | <b>90</b>  | <b>145</b> | <b>121</b> | <b>52</b>   | <b>136</b>  | <b>173</b> | <b>28</b>  | <b>113</b>      |
| 86 | <b>Hours</b>   | <b>312</b> | <b>321</b> | <b>344</b> | <b>328</b> | <b>288</b> | <b>327</b> | <b>304</b> | <b>328</b> | <b>320</b>  | <b>328</b>  | <b>328</b> | <b>320</b> | <b>3848</b>     |

|    | A  | B          | C          | D          | E          | F          | G          | H          | I          | J           | K           | L          | M          | N               |
|----|--|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|------------|------------|-----------------|
| 1  | <b>Table 8: Federal Hydro Generation Adjustment for</b>                  |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 2  | <b>Stand Ready &amp; Deployment Losses, Heavy-Load-Hours for FY 2014</b> |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 3  |  | 432        | 400        | 400        | 416        | 384        | 416        | 416        | 416        | 400         | 416         | 416        | 400        |                 |
| 4  | <b>Water Year</b>  | <b>Oct</b> | <b>Nov</b> | <b>Dec</b> | <b>Jan</b> | <b>Feb</b> | <b>Mar</b> | <b>Apr</b> | <b>May</b> | <b>June</b> | <b>July</b> | <b>Aug</b> | <b>Sep</b> | <b>Wtd Avg.</b> |
| 5  | 1929   | -81        | -197       | -217       | -179       | -95        | -41        | -25        | -110       | -29         | -36         | -26        | -32        | -88             |
| 6  | 1930   | -82        | -216       | -188       | -10        | -58        | -12        | -25        | -180       | -27         | -303        | -136       | -27        | -105            |
| 7  | 1931   | -82        | -196       | -215       | -7         | -7         | -10        | -26        | -263       | -163        | -302        | -232       | -39        | -129            |
| 8  | 1932   | -82        | -171       | -169       | -12        | -30        | -33        | -14        | 14         | 34          | -328        | -405       | -18        | -102            |
| 9  | 1933   | -83        | -79        | -170       | -124       | -135       | -220       | -212       | -108       | -8          | 43          | -61        | -28        | -99             |
| 10 | 1934   | -115       | -25        | -108       | -78        | -119       | 35         | -42        | 15         | 28          | -66         | -141       | -24        | -54             |
| 11 | 1935   | -82        | -88        | -187       | -128       | -96        | -151       | -256       | -44        | -151        | 37          | -445       | -44        | -137            |
| 12 | 1936   | -81        | -207       | -216       | -8         | -5         | -61        | -26        | 17         | 30          | -79         | -125       | -39        | -67             |
| 13 | 1937   | -82        | -186       | -211       | -43        | -11        | -28        | -25        | -268       | -29         | -387        | -24        | -23        | -110            |
| 14 | 1938   | -82        | -116       | -165       | -81        | -129       | -62        | -92        | -91        | -217        | -93         | -127       | -31        | -107            |
| 15 | 1939   | -82        | -193       | -154       | -205       | -147       | -66        | -323       | 17         | -273        | -27         | -29        | -37        | -126            |
| 16 | 1940   | -80        | -174       | -177       | -172       | -69        | -24        | -200       | -41        | 19          | -327        | -30        | -33        | -109            |
| 17 | 1941   | -81        | -147       | -174       | -109       | -67        | -26        | -64        | -161       | -267        | -21         | -61        | -16        | -99             |
| 18 | 1942   | -76        | -114       | -138       | -91        | -85        | -58        | -25        | -202       | 28          | 13          | -315       | -28        | -91             |
| 19 | 1943   | -82        | -88        | -96        | -61        | -107       | -45        | -29        | -12        | -94         | 0           | -157       | -45        | -68             |
| 20 | 1944   | -82        | -188       | -146       | -203       | -134       | -9         | -25        | -122       | -25         | -128        | -31        | -36        | -94             |
| 21 | 1945   | -82        | -197       | -122       | -10        | -12        | -10        | -33        | -239       | -147        | -36         | -130       | -39        | -88             |
| 22 | 1946   | -82        | -123       | -148       | -146       | -165       | -18        | -65        | -177       | 5           | -60         | -239       | -36        | -104            |
| 23 | 1947   | -79        | -116       | -179       | -26        | -104       | -158       | -229       | -37        | 29          | 38          | -244       | -40        | -95             |
| 24 | 1948   | -363       | -185       | -132       | -56        | -78        | -105       | -162       | 9          | -14         | 40          | -76        | -24        | -97             |
| 25 | 1949   | -81        | -155       | -187       | -129       | -63        | -143       | -104       | -32        | 37          | -37         | -38        | -46        | -81             |
| 26 | 1950   | -83        | -138       | -165       | 34         | -108       | -147       | -223       | -114       | -170        | 37          | -107       | -34        | -101            |
| 27 | 1951   | -75        | -182       | -2         | -106       | -162       | -79        | -103       | -153       | -28         | 40          | -226       | -35        | -92             |
| 28 | 1952   | -135       | -173       | -127       | -70        | -49        | -86        | -275       | 13         | -10         | -78         | -43        | -44        | -90             |
| 29 | 1953   | -84        | -206       | -191       | -63        | -162       | -133       | -208       | 1          | 16          | -78         | -83        | -39        | -102            |
| 30 | 1954   | -82        | -193       | -107       | 40         | -102       | -112       | -208       | -51        | -46         | 45          | -39        | -200       | -87             |
| 31 | 1955   | -81        | -177       | -112       | -163       | -110       | -7         | -64        | -208       | -35         | 43          | -251       | -40        | -100            |
| 32 | 1956   | -79        | -166       | -167       | -93        | -121       | -226       | -138       | -178       | -11         | 41          | -213       | -38        | -116            |
| 33 | 1957   | -81        | -142       | -114       | -93        | -84        | -55        | -176       | 2          | 18          | -78         | -216       | -38        | -88             |
| 34 | 1958   | -83        | -199       | -151       | -79        | -113       | -165       | -253       | -26        | 36          | -253        | -211       | -40        | -129            |
| 35 | 1959   | -83        | -167       | -159       | -92        | 1          | -82        | -63        | -117       | -117        | -185        | -65        | 38         | -91             |
| 36 | 1960   | -72        | -132       | -140       | -57        | -83        | -164       | -10        | -4         | 3           | -50         | -204       | -39        | -79             |
| 37 | 1961   | -81        | -179       | -158       | 26         | -108       | -234       | -181       | 8          | -34         | -71         | -318       | -39        | -114            |
| 38 | 1962   | -82        | -189       | -194       | -61        | -132       | -122       | -16        | 19         | 21          | -36         | -173       | -41        | -83             |
| 39 | 1963   | -80        | -150       | -197       | -129       | -127       | -183       | -193       | -209       | 19          | -45         | -313       | -31        | -137            |
| 40 | 1964   | -83        | -133       | -169       | -124       | -163       | -136       | -182       | -52        | -32         | 41          | -99        | -17        | -95             |
| 41 | 1965   | -97        | -180       | -56        | -186       | -54        | -18        | -248       | -181       | -275        | -226        | -210       | -49        | -149            |
| 42 | 1966   | -81        | -202       | -134       | -76        | -118       | -56        | 40         | 13         | -37         | 40          | -394       | -39        | -87             |
| 43 | 1967   | -83        | -159       | -138       | 40         | 26         | 26         | -41        | -119       | -123        | -17         | -307       | -33        | -78             |
| 44 | 1968   | -82        | -175       | -135       | -99        | -72        | -232       | -155       | -347       | 21          | 40          | -264       | -98        | -134            |

|    | A  | B          | C           | D           | E          | F          | G          | H           | I           | J           | K           | L           | M          | N               |
|----|--|------------|-------------|-------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|------------|-----------------|
| 1  | <b>Table 8: Federal Hydro Generation Adjustment for</b>                  |            |             |             |            |            |            |             |             |             |             |             |            |                 |
| 2  | <b>Stand Ready &amp; Deployment Losses, Heavy-Load-Hours for FY 2014</b> |            |             |             |            |            |            |             |             |             |             |             |            |                 |
| 3  |  | 432        | 400         | 400         | 416        | 384        | 416        | 416         | 416         | 400         | 416         | 416         | 400        |                 |
| 4  | <b>Water Year</b>  | <b>Oct</b> | <b>Nov</b>  | <b>Dec</b>  | <b>Jan</b> | <b>Feb</b> | <b>Mar</b> | <b>Apr</b>  | <b>May</b>  | <b>June</b> | <b>July</b> | <b>Aug</b>  | <b>Sep</b> | <b>Wtd Avg.</b> |
| 45 | 1969   | -92        | -197        | -171        | -86        | -123       | -186       | -109        | -41         | 23          | 40          | -291        | -38        | -106            |
| 46 | 1970   | -82        | -213        | -212        | -138       | -152       | -143       | -192        | -135        | -23         | -188        | -95         | -48        | -135            |
| 47 | 1971   | -85        | -130        | -143        | -94        | -226       | -125       | -92         | -161        | -203        | 40          | -50         | -22        | -106            |
| 48 | 1972   | -81        | -170        | -119        | -111       | -84        | 17         | -18         | -145        | -152        | 42          | -44         | -22        | -73             |
| 49 | 1973   | -82        | -174        | -164        | -70        | -191       | -92        | -25         | -255        | -105        | -308        | -25         | -36        | -127            |
| 50 | 1974   | -84        | -75         | -149        | -76        | -4         | -102       | -142        | -103        | -220        | 44          | -51         | -20        | -82             |
| 51 | 1975   | -82        | -202        | -178        | -67        | -57        | -161       | -91         | -116        | 12          | 40          | -168        | -22        | -91             |
| 52 | 1976   | -72        | -165        | -94         | -213       | -41        | -107       | -102        | -93         | 36          | 41          | -45         | -220       | -90             |
| 53 | 1977   | -81        | -212        | -219        | -195       | -186       | -47        | -35         | -281        | -29         | -321        | -130        | -41        | -148            |
| 54 | 1978   | -30        | -84         | -132        | -175       | -92        | -32        | -106        | -114        | -116        | -146        | -76         | -155       | -104            |
| 55 | 1979   | -76        | -215        | -222        | -124       | -37        | -153       | -150        | 21          | -204        | -124        | -27         | -37        | -112            |
| 56 | 1980   | -83        | -216        | -146        | -176       | -109       | -64        | -177        | -45         | 30          | -159        | -117        | -38        | -108            |
| 57 | 1981   | -81        | -172        | -37         | 31         | -126       | -164       | -172        | 21          | -30         | 40          | -64         | -23        | -64             |
| 58 | 1982   | -82        | -202        | -109        | -118       | -216       | -98        | -298        | -174        | -181        | 19          | -51         | -98        | -133            |
| 59 | 1983   | -71        | -190        | -100        | -69        | -185       | -372       | -254        | -37         | -177        | -33         | -99         | -27        | -134            |
| 60 | 1984   | -81        | -223        | -105        | -47        | -88        | -36        | -27         | -234        | -4          | -14         | -355        | -34        | -104            |
| 61 | 1985   | -83        | -134        | -161        | -112       | -156       | -135       | -102        | 15          | -170        | -45         | -20         | -26        | -93             |
| 62 | 1986   | -83        | -142        | -149        | -70        | -113       | -34        | -223        | -251        | -36         | -298        | -175        | -46        | -135            |
| 63 | 1987   | -84        | -101        | -144        | -178       | -22        | -121       | -129        | 18          | 11          | -350        | -27         | -38        | -98             |
| 64 | 1988   | -82        | -199        | -116        | -8         | -3         | -15        | -23         | -263        | -29         | -285        | -32         | -27        | -91             |
| 65 | 1989   | -79        | -94         | -200        | -184       | -78        | -47        | -234        | -47         | -283        | -135        | -32         | -41        | -121            |
| 66 | 1990   | -84        | -170        | -154        | -110       | -100       | -214       | -179        | 17          | 31          | -114        | -241        | -39        | -113            |
| 67 | 1991   | -83        | -230        | 20          | -87        | 10         | 33         | -43         | 14          | 20          | 41          | -72         | -34        | -35             |
| 68 | 1992   | -82        | -133        | -108        | -197       | -83        | -98        | -102        | 25          | 23          | -155        | -33         | -32        | -81             |
| 69 | 1993   | -81        | -205        | -213        | -6         | -14        | -58        | -24         | -219        | -209        | -304        | -35         | -40        | -117            |
| 70 | 1994   | -88        | -189        | -208        | -14        | -5         | -31        | -26         | -92         | 11          | -12         | -25         | -27        | -59             |
| 71 | 1995   | -80        | -150        | -124        | -128       | -125       | -116       | -302        | -223        | -58         | -226        | -28         | -17        | -132            |
| 72 | 1996   | -81        | -35         | 16          | -75        | -133       | -51        | -112        | -34         | -21         | 41          | -69         | -46        | -50             |
| 73 | 1997   | -83        | -177        | -115        | -58        | 14         | -119       | -90         | -207        | -52         | 41          | -59         | -21        | -78             |
| 74 | 1998   | -74        | -191        | -116        | -139       | -119       | -115       | -289        | -42         | -30         | -247        | -327        | -40        | -145            |
| 75 | 1999   | -88        | -99         | -142        | -91        | -84        | -267       | -88         | -80         | 5           | 41          | -40         | -25        | -80             |
| 76 | 2000   | -82        | -60         | -107        | -112       | -110       | -141       | -50         | -49         | -276        | -83         | -267        | -41        | -115            |
| 77 | 2001   | -83        | -186        | -172        | -197       | -167       | -21        | -24         | -276        | -31         | -347        | -26         | -37        | -130            |
| 78 | 2002   | -35        | -111        | -139        | -74        | -56        | -50        | -172        | -261        | -15         | 40          | -104        | -37        | -85             |
| 79 | 2003   | -82        | -193        | -206        | -41        | -59        | -168       | -171        | -204        | 28          | -210        | -33         | -41        | -115            |
| 80 | 2004   | -80        | -196        | -153        | -204       | -51        | -64        | -186        | -130        | -61         | -224        | -30         | -37        | -118            |
| 81 | 2005   | -80        | -188        | -134        | -61        | -156       | -204       | -84         | -203        | 19          | -358        | -29         | -37        | -126            |
| 82 | 2006   | -83        | -186        | -167        | -149       | -66        | -132       | -74         | -19         | 19          | -183        | -121        | -38        | -100            |
| 83 | 2007   | -82        | -95         | -180        | -114       | -170       | -16        | 7           | 5           | -2          | -2          | -28         | -41        | -59             |
| 84 | 2008   | -81        | -175        | -161        | -176       | -83        | -72        | -25         | -28         | -35         | -154        | -431        | -38        | -122            |
| 85 | <b>80 WY Average</b>   | <b>-85</b> | <b>-161</b> | <b>-147</b> | <b>-94</b> | <b>-93</b> | <b>-95</b> | <b>-118</b> | <b>-102</b> | <b>-56</b>  | <b>-92</b>  | <b>-135</b> | <b>-41</b> | <b>-102</b>     |
| 86 | <b>Hours</b>   | <b>432</b> | <b>400</b>  | <b>400</b>  | <b>416</b> | <b>384</b> | <b>416</b> | <b>416</b>  | <b>416</b>  | <b>400</b>  | <b>416</b>  | <b>416</b>  | <b>400</b> | <b>4912</b>     |

|    | A   | B          | C          | D          | E          | F          | G          | H          | I          | J           | K           | L          | M          | N               |
|----|---|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|------------|------------|-----------------|
| 1  | <b>Table 9: Federal Hydro Generation Adjustment for</b>             |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 2  | <b>Stand Ready &amp; Deployment Losses, Flat Energy for FY 2014</b> |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 3  |   |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 4  | <b>Water Year</b>   | <b>Oct</b> | <b>Nov</b> | <b>Dec</b> | <b>Jan</b> | <b>Feb</b> | <b>Mar</b> | <b>Apr</b> | <b>May</b> | <b>June</b> | <b>July</b> | <b>Aug</b> | <b>Sep</b> | <b>Wtd Avg.</b> |
| 5  | 1929  | -8         | -5         | -16        | -9         | -12        | -13        | -11        | -69        | 45          | -21         | -3         | -6         | -11             |
| 6  | 1930  | -9         | -7         | -12        | -12        | -8         | -12        | -12        | -103       | 84          | -177        | 109        | 63         | -8              |
| 7  | 1931  | -10        | -5         | -11        | -10        | -9         | -12        | -16        | -146       | 59          | -85         | 178        | -23        | -8              |
| 8  | 1932  | -10        | -6         | -12        | -13        | -13        | -12        | -28        | -10        | 4           | -44         | -90        | 148        | -8              |
| 9  | 1933  | -9         | -7         | -9         | -13        | 11         | -6         | -12        | 68         | 48          | 11          | -32        | 22         | 6               |
| 10 | 1934  | -9         | 10         | -106       | -75        | -106       | 15         | -45        | -13        | 13          | -38         | -44        | 66         | -27             |
| 11 | 1935  | -9         | -6         | -9         | 11         | -5         | -7         | -3         | 139        | -71         | 102         | -264       | 259        | 11              |
| 12 | 1936  | -8         | -6         | -9         | -11        | -8         | -12        | -11        | 24         | 14          | -53         | -17        | 44         | -5              |
| 13 | 1937  | -9         | -7         | -9         | -16        | -8         | -13        | -14        | -149       | 149         | -8          | 2          | -1         | -7              |
| 14 | 1938  | -9         | -6         | -12        | -9         | -8         | -10        | 12         | 12         | -87         | 76          | -16        | 52         | 0               |
| 15 | 1939  | -9         | -6         | -11        | -9         | -6         | -13        | -20        | 95         | -162        | 128         | 11         | -11        | 0               |
| 16 | 1940  | -7         | -6         | -8         | -7         | -8         | -13        | 4          | 117        | 34          | -189        | 169        | -6         | 7               |
| 17 | 1941  | -9         | -12        | -17        | -10        | -10        | -11        | -10        | -31        | 17          | 39          | 25         | 1          | -2              |
| 18 | 1942  | -9         | -7         | -17        | -8         | -8         | -12        | -10        | -102       | 137         | -3          | -175       | 183        | -4              |
| 19 | 1943  | -9         | -6         | -10        | -10        | -5         | -9         | 2          | 13         | -41         | 27          | -100       | 64         | -7              |
| 20 | 1944  | -9         | -5         | -12        | -9         | -7         | -12        | -10        | -67        | 49          | -78         | 49         | -8         | -10             |
| 21 | 1945  | -9         | -5         | -15        | -12        | -11        | -14        | -18        | -132       | 81          | 62          | -66        | 53         | -8              |
| 22 | 1946  | -9         | -6         | -12        | -10        | -7         | -12        | 1          | -50        | 47          | -35         | -63        | 107        | -5              |
| 23 | 1947  | -6         | -7         | 0          | -92        | 0          | -11        | -4         | 136        | 38          | 16          | -148       | 124        | 4               |
| 24 | 1948  | -3         | -12        | -13        | 5          | -7         | -9         | 15         | 107        | -22         | -5          | -22        | 16         | 4               |
| 25 | 1949  | -8         | -13        | -8         | 14         | -10        | -10        | 16         | 46         | 0           | -26         | -10        | -13        | -2              |
| 26 | 1950  | -10        | -6         | -17        | -1         | -7         | -5         | 4          | 76         | -43         | 72          | -44        | 27         | 4               |
| 27 | 1951  | -7         | -12        | -6         | -97        | -87        | -81        | -40        | -64        | 17          | 47          | -124       | 123        | -28             |
| 28 | 1952  | -6         | -6         | -8         | 18         | -7         | 10         | -36        | 121        | 0           | -30         | 41         | 9          | 9               |
| 29 | 1953  | -10        | -7         | -12        | -7         | -8         | -8         | -16        | 128        | 10          | -48         | -4         | 46         | 5               |
| 30 | 1954  | -9         | -5         | -7         | 16         | 5          | 5          | -13        | 109        | 12          | 7           | -27        | -80        | 1               |
| 31 | 1955  | -9         | -4         | -7         | -10        | -6         | -13        | -10        | -64        | 93          | -1          | -83        | 68         | -4              |
| 32 | 1956  | -8         | -4         | -20        | -93        | -108       | -3         | -9         | -23        | 31          | 7           | -51        | 37         | -20             |
| 33 | 1957  | -9         | -6         | -6         | -15        | -6         | -13        | 6          | 100        | 0           | -48         | -78        | 104        | 2               |
| 34 | 1958  | -10        | -6         | -12        | -11        | -12        | -15        | 0          | 141        | 0           | -141        | 24         | 101        | 5               |
| 35 | 1959  | -10        | -6         | 0          | -92        | -15        | 15         | 9          | -17        | 4           | -50         | 95         | -57        | -10             |
| 36 | 1960  | 19         | 11         | 9          | 16         | -7         | -8         | -21        | -9         | 7           | -13         | -89        | 96         | 1               |
| 37 | 1961  | -8         | -6         | -8         | 12         | -6         | 2          | 13         | 118        | -23         | -58         | -144       | 181        | 6               |
| 38 | 1962  | -8         | -6         | -12        | -13        | -7         | -12        | -33        | -12        | 9           | -28         | -91        | 75         | -12             |
| 39 | 1963  | -8         | -5         | 10         | -14        | -8         | -9         | -12        | -10        | 135         | -34         | -140       | 173        | 6               |
| 40 | 1964  | -10        | -6         | -10        | -7         | -8         | -9         | -17        | 83         | 2           | 0           | -28        | 24         | 1               |
| 41 | 1965  | -14        | -4         | -50        | -93        | 8          | 8          | 6          | 79         | -66         | -14         | 88         | 11         | -3              |
| 42 | 1966  | -9         | -7         | -7         | -12        | -5         | -11        | 17         | 8          | -17         | 53          | -18        | 2          | 0               |
| 43 | 1967  | -9         | -12        | -8         | 17         | 19         | 11         | -13        | -36        | -9          | 18          | -92        | 114        | 0               |
| 44 | 1968  | -9         | -6         | -9         | 16         | -5         | -6         | -21        | -63        | 163         | 18          | -146       | 107        | 3               |

|    | A   | B          | C          | D          | E          | F          | G          | H          | I          | J           | K           | L          | M          | N               |
|----|---|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|------------|------------|-----------------|
| 1  | <b>Table 9: Federal Hydro Generation Adjustment for</b>             |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 2  | <b>Stand Ready &amp; Deployment Losses, Flat Energy for FY 2014</b> |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 3  |   |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 4  | <b>Water Year</b>   | <b>Oct</b> | <b>Nov</b> | <b>Dec</b> | <b>Jan</b> | <b>Feb</b> | <b>Mar</b> | <b>Apr</b> | <b>May</b> | <b>June</b> | <b>July</b> | <b>Aug</b> | <b>Sep</b> | <b>Wtd Avg.</b> |
| 45 | 1969  | -7         | -11        | -1         | -89        | -109       | -6         | -48        | -4         | 32          | 18          | -143       | 145        | -18             |
| 46 | 1970  | -9         | -6         | -17        | -12        | -6         | -8         | -11        | 55         | 56          | -136        | 40         | 25         | -2              |
| 47 | 1971  | -10        | -7         | -11        | -94        | -107       | 7          | 16         | -23        | 18          | -1          | -23        | 18         | -18             |
| 48 | 1972  | -9         | -6         | -7         | -99        | -88        | -54        | 7          | -76        | 52          | 2           | -24        | 18         | -24             |
| 49 | 1973  | -10        | -11        | -8         | -7         | -6         | -14        | -11        | -139       | 100         | -116        | 161        | -8         | -6              |
| 50 | 1974  | -10        | -8         | -18        | -73        | -8         | -25        | -35        | -23        | -19         | 61          | -23        | 14         | -14             |
| 51 | 1975  | -9         | -6         | -12        | -6         | -7         | -9         | -12        | -3         | 58          | 13          | -100       | 105        | 1               |
| 52 | 1976  | -9         | -2         | -91        | -79        | -55        | 5          | -40        | -28        | 60          | 17          | -25        | -100       | -29             |
| 53 | 1977  | -9         | -5         | -17        | -8         | -6         | -13        | -10        | -147       | 140         | -146        | 122        | -19        | -10             |
| 54 | 1978  | -10        | -8         | -12        | -11        | -5         | -12        | 15         | 3          | -23         | -30         | 57         | -51        | -7              |
| 55 | 1979  | -6         | -7         | -15        | -10        | -9         | -8         | -20        | 100        | -129        | 34          | 46         | -15        | -3              |
| 56 | 1980  | -10        | -6         | -11        | -9         | -4         | -14        | 2          | 75         | -5          | -94         | 5          | 39         | -3              |
| 57 | 1981  | -8         | -6         | 7          | 2          | -8         | -9         | -11        | 115        | -21         | 0           | -34        | 28         | 5               |
| 58 | 1982  | -9         | -7         | -7         | -12        | -110       | -136       | -10        | 86         | -53         | 51          | -10        | -129       | -28             |
| 59 | 1983  | -8         | -6         | -9         | -94        | -65        | -145       | 12         | 152        | -122        | 124         | -7         | 40         | -10             |
| 60 | 1984  | -11        | 1          | -9         | -17        | -12        | -12        | -33        | -157       | 148         | -23         | -195       | 207        | -10             |
| 61 | 1985  | -9         | -12        | -8         | -7         | -6         | -10        | -11        | 72         | -91         | 70          | 1          | -25        | -3              |
| 62 | 1986  | -7         | -7         | -9         | -6         | -44        | -45        | -19        | -41        | 137         | -146        | 82         | 74         | -3              |
| 63 | 1987  | -11        | -6         | -9         | -19        | -10        | -8         | -13        | 86         | 2           | -203        | 187        | -19        | -2              |
| 64 | 1988  | -9         | -6         | -12        | -11        | -9         | -12        | -11        | -145       | 136         | -131        | 155        | -3         | -5              |
| 65 | 1989  | -9         | -6         | -9         | -9         | -6         | -19        | 13         | 135        | -92         | 24          | 52         | -11        | 6               |
| 66 | 1990  | -10        | -10        | -10        | 12         | 5          | 14         | 8          | 110        | 7           | -69         | -49        | 134        | 12              |
| 67 | 1991  | -11        | 1          | 17         | 21         | 18         | 14         | 2          | 31         | 8           | 18          | -43        | 27         | 8               |
| 68 | 1992  | -9         | -6         | -11        | -9         | -6         | -11        | -11        | 74         | 10          | -90         | 60         | -9         | -1              |
| 69 | 1993  | -8         | -5         | -14        | -11        | -10        | -13        | -11        | -129       | -27         | -45         | 154        | -10        | -11             |
| 70 | 1994  | -11        | -5         | -10        | -12        | -9         | -12        | -12        | -34        | 47          | -6          | 12         | -4         | -5              |
| 71 | 1995  | -10        | -6         | -12        | -7         | -5         | -10        | -1         | 11         | 94          | -162        | 188        | 2          | 7               |
| 72 | 1996  | -9         | 11         | -9         | -71        | -8         | -67        | -41        | 6          | -27         | 29          | -28        | 11         | -17             |
| 73 | 1997  | -9         | -6         | -6         | -66        | 2          | -115       | 8          | -52        | 33          | 0           | -26        | -58        | -25             |
| 74 | 1998  | 15         | -6         | -9         | -14        | -6         | -7         | -9         | 137        | -38         | -167        | -28        | 181        | 4               |
| 75 | 1999  | -11        | -6         | -8         | -92        | -94        | -63        | 16         | 21         | 34          | 8           | -22        | 16         | -16             |
| 76 | 2000  | -9         | 12         | 12         | 1          | -7         | -10        | -35        | -40        | -123        | 110         | -104       | 139        | -4              |
| 77 | 2001  | -9         | -6         | -12        | -8         | -7         | -11        | -10        | -159       | 128         | -201        | 186        | -12        | -11             |
| 78 | 2002  | -13        | -7         | -12        | -11        | -8         | -13        | 8          | -69        | 145         | 2           | -67        | 64         | 1               |
| 79 | 2003  | -10        | -5         | -11        | -11        | -8         | -8         | -11        | -11        | 126         | -120        | 85         | -14        | 0               |
| 80 | 2004  | -8         | -5         | -9         | -9         | -8         | -13        | -11        | 3          | 41          | -91         | 104        | -8         | -1              |
| 81 | 2005  | -8         | -6         | -13        | -13        | -13        | -10        | -10        | -62        | 135         | -214        | 193        | -8         | -3              |
| 82 | 2006  | -10        | -5         | -9         | -7         | 12         | -7         | -40        | -6         | 11          | -127        | 64         | 42         | -7              |
| 83 | 2007  | -9         | -6         | -15        | -2         | -7         | 10         | 13         | 12         | 7           | 16          | -7         | -10        | 0               |
| 84 | 2008  | -8         | -6         | -12        | -12        | -7         | -13        | -12        | -5         | -21         | -103        | 69         | 14         | -10             |
| 85 | <b>80 WY Average</b>  | <b>-8</b>  | <b>-6</b>  | <b>-12</b> | <b>-21</b> | <b>-17</b> | <b>-16</b> | <b>-9</b>  | <b>6</b>   | <b>22</b>   | <b>-30</b>  | <b>-4</b>  | <b>39</b>  | <b>-5</b>       |
| 86 | <b>Hours</b>  | <b>744</b> | <b>721</b> | <b>744</b> | <b>744</b> | <b>672</b> | <b>743</b> | <b>720</b> | <b>744</b> | <b>720</b>  | <b>744</b>  | <b>744</b> | <b>720</b> | <b>8760</b>     |

|    | A  | B          | C          | D          | E          | F          | G          | H          | I          | J           | K           | L          | M          | N               |
|----|--|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|------------|------------|-----------------|
| 1  | <b>Table 10: Federal Hydro Generation Adjustment for</b>                 |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 2  | <b>Stand Ready &amp; Deployment Losses, Light-Load-Hours for FY 2015</b> |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 3  |  |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 4  | <b>Water Year</b>  | <b>Oct</b> | <b>Nov</b> | <b>Dec</b> | <b>Jan</b> | <b>Feb</b> | <b>Mar</b> | <b>Apr</b> | <b>May</b> | <b>June</b> | <b>July</b> | <b>Aug</b> | <b>Sep</b> | <b>Wtd Avg.</b> |
| 5  | 1929   | 92         | 222        | 232        | 223        | 208        | 26         | 16         | 8          | 9           | 27          | 27         | 11         | 92              |
| 6  | 1930   | 92         | 227        | 218        | 89         | 97         | 12         | 45         | 166        | -1          | 432         | 118        | 9          | 128             |
| 7  | 1931   | 92         | 220        | 224        | 10         | -10        | -17        | 1          | 348        | 221         | 125         | 147        | 10         | 117             |
| 8  | 1932   | 91         | 192        | 204        | -11        | -7         | 13         | -50        | -22        | -14         | 386         | 536        | 28         | 115             |
| 9  | 1933   | 92         | 80         | 206        | 160        | 206        | 300        | 238        | 133        | -33         | -12         | 43         | 28         | 120             |
| 10 | 1934   | 111        | 56         | -92        | -66        | -85        | -11        | -46        | -9         | -15         | 143         | 24         | 11         | 3               |
| 11 | 1935   | 92         | 82         | 125        | 197        | 69         | 184        | 154        | 45         | 129         | -11         | 197        | 16         | 107             |
| 12 | 1936   | 92         | 237        | 237        | 85         | 29         | 52         | 76         | -1         | -12         | 543         | 107        | 33         | 125             |
| 13 | 1937   | 93         | 220        | 235        | 145        | 0          | 8          | 1          | 394        | 10          | 259         | 26         | 31         | 123             |
| 14 | 1938   | 92         | 160        | 122        | 113        | 189        | 112        | 379        | 101        | 327         | 330         | 26         | 31         | 163             |
| 15 | 1939   | 92         | 218        | 174        | 210        | 225        | 45         | 180        | -8         | 23          | 393         | 27         | 14         | 132             |
| 16 | 1940   | 92         | 221        | 131        | 198        | 44         | 214        | 193        | 340        | 213         | 529         | 27         | 34         | 189             |
| 17 | 1941   | 92         | 189        | 126        | 137        | 110        | 47         | 79         | 212        | 11          | 230         | 28         | 49         | 111             |
| 18 | 1942   | 90         | 184        | 155        | 146        | 220        | 216        | -2         | 334        | 347         | 36          | 349        | 11         | 175             |
| 19 | 1943   | 91         | 90         | 137        | 85         | 167        | 68         | 43         | 33         | 75          | -13         | 166        | 51         | 82              |
| 20 | 1944   | 92         | 193        | 154        | 234        | 220        | 4          | 6          | 60         | 1           | 24          | 27         | 52         | 89              |
| 21 | 1945   | 92         | 236        | 225        | -12        | 27         | 9          | 3          | 323        | 249         | 25          | 107        | 41         | 112             |
| 22 | 1946   | 91         | 134        | 150        | 161        | 184        | 4          | 119        | 94         | -6          | 95          | 343        | 8          | 115             |
| 23 | 1947   | 91         | 143        | 59         | -8         | 87         | 253        | 300        | 46         | -15         | -11         | 380        | 9          | 111             |
| 24 | 1948   | 463        | 207        | 205        | 92         | 59         | 165        | 242        | -4         | -47         | -11         | 29         | -5         | 116             |
| 25 | 1949   | 91         | 170        | 175        | 146        | 102        | 147        | 339        | 35         | -17         | 29          | 27         | 53         | 108             |
| 26 | 1950   | 92         | 152        | 166        | -8         | 163        | 161        | 361        | 140        | 113         | 97          | 167        | 7          | 133             |
| 27 | 1951   | 87         | 202        | -47        | -83        | -89        | -48        | 48         | 76         | 311         | -11         | 152        | 8          | 51              |
| 28 | 1952   | 148        | 195        | 191        | 128        | 71         | 133        | 139        | -7         | 34          | 134         | 325        | 51         | 129             |
| 29 | 1953   | 92         | 207        | 224        | 150        | 48         | 188        | 203        | 13         | -21         | 108         | 382        | 14         | 136             |
| 30 | 1954   | 92         | 219        | 151        | -12        | 153        | 161        | 249        | 63         | -25         | -22         | 16         | 74         | 93              |
| 31 | 1955   | 92         | 197        | 150        | 182        | 212        | 170        | 145        | 317        | -56         | -19         | 289        | 37         | 145             |
| 32 | 1956   | 91         | 185        | 40         | -87        | -91        | 254        | 170        | 96         | -38         | -11         | 267        | 30         | 78              |
| 33 | 1957   | 90         | 156        | 114        | 157        | 175        | 60         | 374        | -11        | -21         | 60          | 259        | 14         | 118             |
| 34 | 1958   | 92         | 225        | 186        | 183        | 169        | 157        | 355        | -10        | -19         | 426         | 153        | 9          | 160             |
| 35 | 1959   | 91         | 173        | 13         | -90        | -22        | 135        | 119        | 143        | 145         | 307         | 56         | -38        | 87              |
| 36 | 1960   | 129        | 180        | 93         | 107        | 110        | 188        | -36        | 25         | 43          | 20          | 306        | 9          | 99              |
| 37 | 1961   | 92         | 191        | 143        | -8         | 136        | 231        | 359        | 10         | -54         | 36          | 551        | 15         | 142             |
| 38 | 1962   | 92         | 211        | 234        | 57         | 148        | 68         | -52        | -8         | -20         | 28          | 173        | 31         | 81              |
| 39 | 1963   | 90         | 178        | 125        | -12        | 165        | 179        | 114        | 310        | 157         | 89          | 384        | 35         | 152             |
| 40 | 1964   | 92         | 146        | 164        | 144        | 215        | 120        | 216        | 94         | -55         | -13         | 97         | 10         | 102             |
| 41 | 1965   | 92         | 205        | 88         | -143       | 119        | 239        | 328        | 110        | 286         | 123         | 273        | 56         | 147             |
| 42 | 1966   | 92         | 230        | 122        | 78         | 149        | 145        | -14        | 160        | 87          | -12         | 133        | 10         | 99              |
| 43 | 1967   | 92         | 175        | 127        | -23        | 88         | -13        | 39         | 128        | 91          | -13         | 395        | 32         | 94              |
| 44 | 1968   | 92         | 195        | 120        | -15        | 147        | 156        | 177        | 401        | -12         | -11         | 336        | -4         | 134             |



|    | A  | B          | C          | D          | E          | F          | G          | H          | I          | J           | K           | L          | M          | N               |
|----|--|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|------------|------------|-----------------|
| 1  | <b>Table 10: Federal Hydro Generation Adjustment for</b>                 |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 2  | <b>Stand Ready &amp; Deployment Losses, Light-Load-Hours for FY 2015</b> |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 3  |  |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 4  | <b>Water Year</b>  | <b>Oct</b> | <b>Nov</b> | <b>Dec</b> | <b>Jan</b> | <b>Feb</b> | <b>Mar</b> | <b>Apr</b> | <b>May</b> | <b>June</b> | <b>July</b> | <b>Aug</b> | <b>Sep</b> | <b>Wtd Avg.</b> |
| 45 | 1969   | 87         | 221        | 16         | -89        | -87        | 241        | 46         | 59         | -13         | -11         | 439        | 11         | 79              |
| 46 | 1970   | 92         | 244        | 231        | 88         | 149        | 199        | 165        | 318        | -28         | 442         | 26         | 46         | 167             |
| 47 | 1971   | 92         | 139        | 171        | -90        | 99         | 186        | 123        | 106        | 155         | -11         | 28         | 19         | 84              |
| 48 | 1972   | 91         | 189        | 101        | -88        | -89        | -18        | 43         | 149        | 8           | -13         | 21         | 2          | 35              |
| 49 | 1973   | 92         | 183        | 145        | 48         | 190        | 89         | 6          | 339        | 12          | 331         | 27         | 34         | 127             |
| 50 | 1974   | 93         | 80         | 92         | -64        | -5         | -40        | 156        | 115        | 135         | -16         | 31         | 10         | 49              |
| 51 | 1975   | 84         | 225        | 209        | 81         | 70         | 162        | 95         | 138        | -15         | -11         | 405        | 20         | 124             |
| 52 | 1976   | 83         | 193        | -86        | 99         | -67        | 207        | 43         | 103        | 55          | -12         | 22         | 377        | 86              |
| 53 | 1977   | 92         | 240        | 230        | 225        | 217        | 134        | 15         | 364        | -3          | 461         | 55         | 57         | 177             |
| 54 | 1978   | 72         | 85         | 155        | 177        | 191        | 70         | 165        | 138        | 110         | 142         | 55         | 9          | 113             |
| 55 | 1979   | 92         | 245        | 220        | 91         | 41         | 197        | 174        | 58         | 52          | 27          | 20         | 10         | 103             |
| 56 | 1980   | 92         | 247        | 155        | 200        | 190        | 52         | 213        | -50        | -18         | 198         | 24         | 10         | 109             |
| 57 | 1981   | 92         | 192        | 18         | -19        | 114        | 295        | 26         | 183        | -53         | -11         | 45         | 10         | 76              |
| 58 | 1982   | 92         | 230        | 137        | 182        | -32        | -124       | 421        | 106        | 129         | 316         | 30         | -10        | 123             |
| 59 | 1983   | 83         | 214        | 100        | -81        | 103        | 42         | 323        | 81         | 343         | -11         | 44         | 26         | 103             |
| 60 | 1984   | 93         | 268        | 101        | 43         | 173        | 18         | -6         | 322        | 22          | 39          | 271        | 4          | 115             |
| 61 | 1985   | 91         | 146        | 144        | 130        | 200        | 144        | 96         | 4          | 363         | 28          | 4          | 80         | 117             |
| 62 | 1986   | 90         | 138        | 143        | 73         | 76         | -62        | 265        | 314        | 100         | 400         | 171        | 46         | 148             |
| 63 | 1987   | 92         | 105        | 126        | 135        | 91         | 183        | 146        | 23         | 8           | 285         | 10         | 35         | 104             |
| 64 | 1988   | 92         | 236        | 130        | 56         | -10        | 32         | 5          | 306        | 32          | 273         | 118        | 30         | 112             |
| 65 | 1989   | 93         | 133        | 133        | 191        | 93         | 29         | 358        | 74         | 315         | 28          | 26         | 38         | 124             |
| 66 | 1990   | 92         | 201        | 206        | 95         | 163        | 249        | 348        | -6         | -33         | 273         | 266        | 14         | 156             |
| 67 | 1991   | 92         | 277        | 189        | -39        | 199        | -11        | 125        | 14         | -19         | -12         | 57         | 25         | 74              |
| 68 | 1992   | 92         | 145        | 151        | 169        | 99         | 195        | 10         | 335        | 42          | 199         | 16         | 42         | 127             |
| 69 | 1993   | 92         | 236        | 207        | 115        | -3         | 50         | 14         | 270        | 270         | 63          | 25         | 63         | 119             |
| 70 | 1994   | 92         | 212        | 210        | 85         | 212        | 12         | 5          | 106        | 54          | 488         | 26         | 9          | 127             |
| 71 | 1995   | 93         | 172        | 222        | 170        | 127        | 223        | -12        | 87         | 353         | 419         | 26         | 13         | 158             |
| 72 | 1996   | 104        | 71         | -23        | -69        | 209        | -66        | 50         | 60         | -53         | -12         | 46         | 15         | 26              |
| 73 | 1997   | 92         | 198        | 130        | -71        | -11        | -104       | 154        | 231        | -45         | -12         | 31         | -13        | 50              |
| 74 | 1998   | 469        | 225        | 182        | 132        | 112        | 150        | 227        | -3         | -35         | 307         | 288        | 43         | 175             |
| 75 | 1999   | 92         | 91         | 129        | -89        | -95        | 120        | 301        | 97         | -25         | -11         | 15         | -2         | 52              |
| 76 | 2000   | 92         | 134        | 128        | 163        | 125        | 143        | 4          | 233        | 258         | 10          | 315        | 31         | 137             |
| 77 | 2001   | 93         | 207        | 184        | 245        | 228        | 35         | 6          | 251        | -4          | 305         | 25         | 57         | 138             |
| 78 | 2002   | 66         | 141        | 173        | 172        | 89         | 57         | 354        | 327        | -54         | -11         | 473        | 15         | 152             |
| 79 | 2003   | 92         | 218        | 235        | 78         | 67         | 136        | 207        | 253        | -9          | 27          | 21         | 51         | 116             |
| 80 | 2004   | 91         | 216        | 217        | 241        | 46         | 184        | 88         | 292        | 155         | 26          | 27         | 4          | 135             |
| 81 | 2005   | 92         | 210        | 207        | 61         | 75         | 228        | 91         | 277        | -3          | 288         | 28         | 14         | 133             |
| 82 | 2006   | 92         | 207        | 143        | 175        | 72         | 150        | 40         | 26         | -17         | 423         | 128        | 34         | 125             |
| 83 | 2007   | 78         | 119        | 137        | 172        | 193        | 36         | 26         | 46         | 63          | 29          | 28         | 43         | 80              |
| 84 | 2008   | 92         | 185        | 195        | 185        | 234        | 50         | 4          | 48         | -57         | 204         | 468        | 33         | 138             |
| 85 | <b>80 WY Average</b>   | <b>102</b> | <b>184</b> | <b>146</b> | <b>80</b>  | <b>101</b> | <b>105</b> | <b>132</b> | <b>136</b> | <b>62</b>   | <b>134</b>  | <b>146</b> | <b>29</b>  | <b>114</b>      |
| 86 | <b>Hours</b>   | <b>312</b> | <b>337</b> | <b>328</b> | <b>328</b> | <b>288</b> | <b>327</b> | <b>304</b> | <b>344</b> | <b>304</b>  | <b>328</b>  | <b>328</b> | <b>320</b> | <b>3848</b>     |

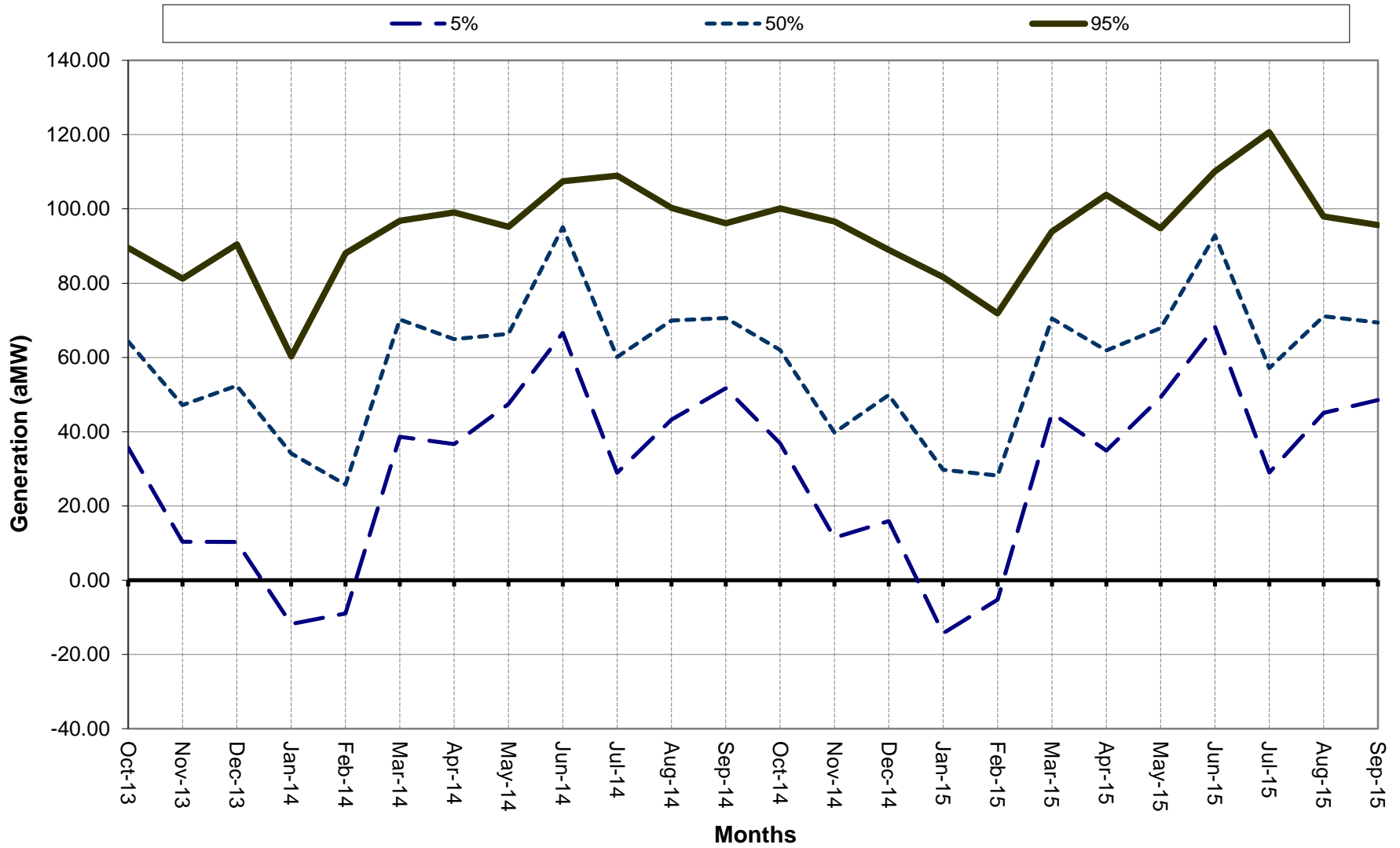
|    | A  | B          | C          | D          | E          | F          | G          | H          | I          | J           | K           | L          | M          | N               |
|----|--|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|------------|------------|-----------------|
| 1  | <b>Table 11: Federal Hydro Generation Adjustment for</b>                 |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 2  | <b>Stand Ready &amp; Deployment Losses, Heavy-Load-Hours for FY 2015</b> |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 3  |  |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 4  | <b>Water Year</b>  | <b>Oct</b> | <b>Nov</b> | <b>Dec</b> | <b>Jan</b> | <b>Feb</b> | <b>Mar</b> | <b>Apr</b> | <b>May</b> | <b>June</b> | <b>July</b> | <b>Aug</b> | <b>Sep</b> | <b>Wtd Avg.</b> |
| 5  | 1929   | -83        | -205       | -210       | -189       | -166       | -43        | -33        | -28        | -30         | -46         | -28        | -40        | -91             |
| 6  | 1930   | -81        | -209       | -192       | -84        | -88        | -25        | -55        | -158       | -22         | -311        | -114       | -42        | -115            |
| 7  | 1931   | -84        | -202       | -192       | -24        | -7         | -12        | -29        | -273       | -187        | -69         | -136       | -39        | -104            |
| 8  | 1932   | -83        | -179       | -182       | -15        | -10        | -32        | -20        | 13         | 24          | -317        | -404       | -38        | -104            |
| 9  | 1933   | -83        | -83        | -178       | -124       | -135       | -242       | -198       | -115       | -9          | 44          | -18        | -37        | -98             |
| 10 | 1934   | -91        | -30        | -103       | -79        | -120       | 35         | -37        | 13         | 27          | -96         | -29        | -39        | -46             |
| 11 | 1935   | -80        | -84        | -113       | -127       | -62        | -134       | -140       | -16        | -114        | 40          | -130       | -45        | -84             |
| 12 | 1936   | -83        | -217       | -204       | -84        | -36        | -63        | -76        | 12         | 29          | -412        | -106       | -46        | -107            |
| 13 | 1937   | -82        | -203       | -201       | -126       | -14        | -30        | -28        | -355       | -28         | -222        | -31        | -44        | -113            |
| 14 | 1938   | -81        | -150       | -110       | -103       | -159       | -110       | -251       | -104       | -229        | -234        | -28        | -39        | -133            |
| 15 | 1939   | -82        | -202       | -156       | -181       | -180       | -53        | -162       | 18         | -37         | -317        | -26        | -39        | -118            |
| 16 | 1940   | -79        | -204       | -114       | -174       | -46        | -175       | -167       | -262       | -171        | -403        | -28        | -47        | -156            |
| 17 | 1941   | -82        | -176       | -113       | -124       | -99        | -51        | -77        | -166       | -25         | -154        | -31        | -34        | -94             |
| 18 | 1942   | -82        | -170       | -148       | -131       | -174       | -186       | -21        | -261       | -260        | -13         | -282       | -29        | -146            |
| 19 | 1943   | -81        | -91        | -128       | -81        | -138       | -71        | -29        | -12        | -91         | 0           | -151       | -37        | -76             |
| 20 | 1944   | -74        | -180       | -142       | -203       | -173       | -26        | -26        | -73        | -34         | -30         | -26        | -42        | -85             |
| 21 | 1945   | -84        | -216       | -201       | -9         | -37        | -27        | -23        | -250       | -167        | -36         | -105       | -42        | -99             |
| 22 | 1946   | -83        | -129       | -131       | -148       | -148       | -21        | -66        | -186       | 16          | -60         | -240       | -43        | -103            |
| 23 | 1947   | -77        | -136       | -25        | 14         | -66        | -177       | -229       | -21        | 28          | 40          | -302       | -42        | -83             |
| 24 | 1948   | -334       | -192       | -159       | -57        | -54        | -146       | -154       | 14         | -12         | 41          | -6         | -12        | -90             |
| 25 | 1949   | -83        | -161       | -154       | -120       | -91        | -131       | -222       | -113       | 34          | -37         | -34        | -38        | -96             |
| 26 | 1950   | -84        | -143       | -146       | 30         | -103       | -139       | -235       | -119       | -164        | -50         | -105       | -41        | -108            |
| 27 | 1951   | -78        | -188       | -6         | -105       | -84        | -7         | -106       | -163       | -228        | 41          | -101       | -41        | -88             |
| 28 | 1952   | -118       | -183       | -156       | -70        | -69        | -95        | -163       | 16         | 1           | -77         | -268       | -29        | -101            |
| 29 | 1953   | -84        | -193       | -205       | -135       | -57        | -167       | -167       | 2          | 16          | -68         | -304       | -41        | -117            |
| 30 | 1954   | -84        | -201       | -131       | 35         | -120       | -99        | -207       | -44        | -53         | 33          | 4          | -41        | -75             |
| 31 | 1955   | -82        | -183       | -130       | -161       | -172       | -147       | -132       | -248       | -35         | 49          | -203       | -46        | -123            |
| 32 | 1956   | -82        | -171       | -106       | -90        | -115       | -209       | -141       | -183       | -11         | 41          | -187       | -40        | -107            |
| 33 | 1957   | -82        | -147       | -100       | -147       | -135       | -63        | -248       | 13         | 17          | -25         | -225       | -44        | -99             |
| 34 | 1958   | -83        | -206       | -167       | -160       | -137       | -142       | -256       | 34         | 36          | -307        | -140       | -42        | -131            |
| 35 | 1959   | -83        | -163       | 14         | -92        | -5         | -84        | -65        | -123       | -112        | -218        | -21        | 37         | -76             |
| 36 | 1960   | -58        | -140       | -63        | -56        | -89        | -163       | -13        | -8         | -4          | 2           | -253       | -44        | -74             |
| 37 | 1961   | -82        | -179       | -127       | 24         | -106       | -188       | -253       | 5          | -33         | -10         | -415       | -43        | -118            |
| 38 | 1962   | -83        | -197       | -202       | -63        | -126       | -77        | -20        | 19         | 21          | -33         | -158       | -44        | -80             |
| 39 | 1963   | -82        | -165       | -75        | 35         | -140       | -152       | -107       | -263       | -144        | -54         | -305       | -41        | -124            |
| 40 | 1964   | -83        | -140       | -143       | -125       | -172       | -112       | -189       | -84        | -31         | 41          | -55        | -26        | -93             |
| 41 | 1965   | -78        | -189       | -195       | -182       | -78        | -162       | -238       | -188       | -273        | -69         | -189       | -43        | -157            |
| 42 | 1966   | -83        | -211       | -107       | -78        | -121       | -130       | 38         | -121       | -41         | 40          | -86        | -37        | -77             |
| 43 | 1967   | -82        | -164       | -115       | 32         | -38        | 26         | -53        | -122       | -122        | 36          | -285       | -39        | -77             |
| 44 | 1968   | -84        | -182       | -108       | 41         | -121       | -97        | -156       | -360       | 21          | 40          | -242       | -24        | -105            |

|    | A  | B          | C           | D           | E          | F           | G           | H           | I           | J           | K           | L           | M          | N               |
|----|--|------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-----------------|
| 1  | <b>Table 11: Federal Hydro Generation Adjustment for</b>                 |            |             |             |            |             |             |             |             |             |             |             |            |                 |
| 2  | <b>Stand Ready &amp; Deployment Losses, Heavy-Load-Hours for FY 2015</b> |            |             |             |            |             |             |             |             |             |             |             |            |                 |
| 3  |  |            |             |             |            |             |             |             |             |             |             |             |            |                 |
| 4  | <b>Water Year</b>  | <b>Oct</b> | <b>Nov</b>  | <b>Dec</b>  | <b>Jan</b> | <b>Feb</b>  | <b>Mar</b>  | <b>Apr</b>  | <b>May</b>  | <b>June</b> | <b>July</b> | <b>Aug</b>  | <b>Sep</b> | <b>Wtd Avg.</b> |
| 45 | 1969   | -73        | -204        | 15          | -85        | -119        | -197        | -104        | -41         | 22          | 40          | -319        | -41        | -92             |
| 46 | 1970   | -83        | -223        | -200        | -87        | -123        | -176        | -146        | -253        | -40         | -345        | -29         | -50        | -146            |
| 47 | 1971   | -84        | -134        | -155        | -89        | -232        | -126        | -63         | -169        | -200        | 41          | -6          | -32        | -103            |
| 48 | 1972   | -82        | -176        | -98         | -112       | -85         | 16          | -21         | -150        | -120        | 45          | 0           | -28        | -67             |
| 49 | 1973   | -85        | -182        | -129        | -59        | -159        | -91         | -26         | -274        | -27         | -273        | -28         | -48        | -114            |
| 50 | 1974   | -84        | -86         | -85         | -77        | -4          | 15          | -87         | -100        | -207        | 45          | -8          | -33        | -59             |
| 51 | 1975   | -68        | -209        | -184        | -76        | -58         | -143        | -92         | -118        | -2          | 41          | -286        | -35        | -102            |
| 52 | 1976   | -75        | -170        | -91         | -214       | -36         | -149        | -103        | -91         | -15         | 41          | -2          | -282       | -98             |
| 53 | 1977   | -83        | -220        | -212        | -194       | -174        | -120        | -30         | -329        | -26         | -361        | -70         | -27        | -153            |
| 54 | 1978   | -59        | -87         | -137        | -158       | -155        | -74         | -95         | -119        | -102        | -84         | -60         | -20        | -96             |
| 55 | 1979   | -81        | -224        | -187        | -93        | -53         | -174        | -149        | -36         | -58         | -38         | -26         | -37        | -96             |
| 56 | 1980   | -83        | -225        | -141        | -179       | -150        | -64         | -154        | -47         | 28          | -178        | -32         | -41        | -105            |
| 57 | 1981   | -82        | -179        | 0           | 39         | -91         | -235        | -42         | -176        | -29         | 41          | -19         | -24        | -66             |
| 58 | 1982   | -83        | -211        | -122        | -110       | -131        | -145        | -325        | -183        | -176        | -224        | -8          | -21        | -144            |
| 59 | 1983   | -78        | -197        | -89         | -65        | -192        | -366        | -234        | -46         | -265        | 41          | -12         | -36        | -128            |
| 60 | 1984   | -77        | -231        | -88         | -45        | -146        | -36         | -64         | -249        | -36         | -6          | -184        | -39        | -98             |
| 61 | 1985   | -72        | -140        | -128        | -117       | -160        | -132        | -92         | 11          | -256        | -46         | -25         | -53        | -101            |
| 62 | 1986   | -80        | -132        | -128        | -75        | -113        | -36         | -215        | -261        | -49         | -291        | -155        | -49        | -132            |
| 63 | 1987   | -80        | -104        | -113        | -120       | -76         | -168        | -131        | -7          | 11          | -241        | -28         | -46        | -92             |
| 64 | 1988   | -83        | -216        | -121        | -65        | -3          | -47         | -25         | -271        | -44         | -189        | -114        | -43        | -101            |
| 65 | 1989   | -83        | -128        | -117        | -163       | -79         | -48         | -236        | -58         | -247        | -35         | -28         | -50        | -106            |
| 66 | 1990   | -84        | -186        | -170        | -47        | -111        | -205        | -230        | 16          | 12          | -190        | -182        | -42        | -118            |
| 67 | 1991   | -80        | -237        | -133        | 15         | -149        | 32          | -68         | 1           | 18          | 41          | -22         | -37        | -50             |
| 68 | 1992   | -84        | -137        | -140        | -148       | -85         | -163        | -30         | -309        | -53         | -179        | -30         | -30        | -115            |
| 69 | 1993   | -82        | -216        | -177        | -109       | -13         | -61         | -30         | -247        | -213        | -74         | -29         | -41        | -107            |
| 70 | 1994   | -84        | -196        | -182        | -88        | -168        | -32         | -26         | -67         | -23         | -376        | -27         | -41        | -108            |
| 71 | 1995   | -83        | -161        | -191        | -146       | -100        | -153        | -14         | -97         | -238        | -328        | -30         | -41        | -132            |
| 72 | 1996   | -84        | -42         | 15          | -76        | -129        | -57         | -105        | -42         | -21         | 41          | -21         | -42        | -47             |
| 73 | 1997   | -84        | -184        | -115        | -54        | 14          | -121        | -90         | -315        | -46         | 41          | -9          | -21        | -82             |
| 74 | 1998   | -337       | -198        | -153        | -119       | -96         | -133        | -185        | 19          | 12          | -213        | -197        | -52        | -139            |
| 75 | 1999   | -78        | -91         | -115        | -92        | -88         | -206        | -196        | -83         | 3           | 41          | 5           | -12        | -76             |
| 76 | 2000   | -82        | -98         | -87         | -113       | -114        | -128        | -53         | -174        | -179        | 14          | -260        | -41        | -110            |
| 77 | 2001   | -87        | -193        | -167        | -206       | -181        | -49         | -26         | -233        | -32         | -256        | -27         | -35        | -123            |
| 78 | 2002   | -60        | -135        | -154        | -149       | -83         | -66         | -255        | -268        | -27         | 41          | -361        | -39        | -130            |
| 79 | 2003   | -84        | -200        | -204        | -73        | -63         | -121        | -172        | -213        | 28          | -38         | -34         | -35        | -100            |
| 80 | 2004   | -81        | -199        | -172        | -209       | -45         | -164        | -87         | -248        | -98         | -31         | -36         | -18        | -115            |
| 81 | 2005   | -82        | -195        | -162        | -63        | -68         | -210        | -86         | -227        | 14          | -243        | -33         | -38        | -116            |
| 82 | 2006   | -82        | -193        | -125        | -144       | -72         | -132        | -110        | -9          | 20          | -306        | -122        | -48        | -110            |
| 83 | 2007   | -71        | -111        | -126        | -122       | -158        | -15         | 2           | -21         | -20         | -2          | -31         | -29        | -58             |
| 84 | 2008   | -82        | -174        | -169        | -172       | -190        | -62         | -27         | -42         | -34         | -133        | -358        | -45        | -124            |
| 85 | <b>80 WY Average</b>   | <b>-87</b> | <b>-170</b> | <b>-133</b> | <b>-96</b> | <b>-103</b> | <b>-106</b> | <b>-112</b> | <b>-122</b> | <b>-64</b>  | <b>-91</b>  | <b>-113</b> | <b>-40</b> | <b>-103</b>     |
| 86 | <b>Hours</b>   | <b>432</b> | <b>384</b>  | <b>416</b>  | <b>416</b> | <b>384</b>  | <b>416</b>  | <b>416</b>  | <b>400</b>  | <b>416</b>  | <b>416</b>  | <b>416</b>  | <b>400</b> | <b>4912</b>     |

|    | A   | B   | C   | D   | E    | F    | G   | H   | I   | J    | K    | L   | M   | N        |
|----|---|-----|-----|-----|------|------|-----|-----|-----|------|------|-----|-----|----------|
| 1  | <b>Table 12: Federal Hydro Generation Adjustment for</b>            |     |     |     |      |      |     |     |     |      |      |     |     |          |
| 2  | <b>Stand Ready &amp; Deployment Losses, Flat Energy for FY 2015</b> |     |     |     |      |      |     |     |     |      |      |     |     |          |
| 3  |   |     |     |     |      |      |     |     |     |      |      |     |     |          |
| 4  | Water Year  | Oct | Nov | Dec | Jan  | Feb  | Mar | Apr | May | June | July | Aug | Sep | Wtd Avg. |
| 5  | 1929  | -10 | -6  | -15 | -8   | -6   | -13 | -12 | -11 | -14  | -14  | -4  | -17 | -11      |
| 6  | 1930  | -9  | -5  | -11 | -8   | -9   | -9  | -13 | -8  | -13  | 17   | -12 | -19 | -8       |
| 7  | 1931  | -10 | -5  | -9  | -9   | -8   | -14 | -16 | 14  | -14  | 16   | -12 | -17 | -7       |
| 8  | 1932  | -10 | -6  | -12 | -13  | -9   | -13 | -32 | -3  | 8    | -7   | 10  | -9  | -8       |
| 9  | 1933  | -10 | -7  | -8  | 1    | 11   | -4  | -14 | 0   | -19  | 19   | 9   | -8  | -2       |
| 10 | 1934  | -6  | 10  | -98 | -73  | -105 | 15  | -41 | 3   | 10   | 10   | -5  | -17 | -24      |
| 11 | 1935  | -8  | -7  | -8  | 16   | -6   | 6   | -15 | 12  | -11  | 18   | 14  | -18 | 0        |
| 12 | 1936  | -9  | -5  | -9  | -9   | -8   | -12 | -12 | 6   | 12   | 9    | -12 | -11 | -5       |
| 13 | 1937  | -9  | -5  | -9  | -7   | -8   | -13 | -16 | -9  | -12  | -10  | -6  | -11 | -9       |
| 14 | 1938  | -9  | -5  | -8  | -8   | -10  | -12 | 15  | -9  | 6    | 15   | -4  | -8  | -3       |
| 15 | 1939  | -9  | -6  | -11 | -8   | -6   | -10 | -18 | 6   | -11  | -4   | -3  | -15 | -8       |
| 16 | 1940  | -7  | -5  | -6  | -10  | -8   | -4  | -15 | 17  | -9   | 8    | -4  | -11 | -4       |
| 17 | 1941  | -9  | -6  | -8  | -9   | -9   | -8  | -11 | 8   | -10  | 15   | -5  | 3   | -4       |
| 18 | 1942  | -9  | -5  | -14 | -9   | -5   | -9  | -13 | 14  | -4   | 9    | -4  | -11 | -5       |
| 19 | 1943  | -9  | -6  | -11 | -8   | -7   | -10 | 1   | 9   | -21  | -6   | -11 | 2   | -6       |
| 20 | 1944  | -4  | -6  | -12 | -11  | -5   | -13 | -12 | -11 | -19  | -6   | -3  | 0   | -9       |
| 21 | 1945  | -10 | -5  | -13 | -10  | -9   | -11 | -12 | 15  | 8    | -9   | -12 | -5  | -6       |
| 22 | 1946  | -10 | -6  | -7  | -12  | -6   | -10 | 12  | -56 | 7    | 8    | 17  | -20 | -7       |
| 23 | 1947  | -7  | -5  | 12  | 4    | 0    | 12  | -5  | 10  | 10   | 18   | -1  | -20 | 2        |
| 24 | 1948  | 0   | -5  | 1   | 9    | -6   | -9  | 13  | 6   | -27  | 18   | 9   | -9  | 0        |
| 25 | 1949  | -10 | -6  | -9  | -3   | -8   | -9  | 15  | -44 | 12   | -8   | -7  | 2   | -6       |
| 26 | 1950  | -10 | -5  | -8  | 13   | 11   | -7  | 16  | 1   | -47  | 15   | 15  | -19 | -2       |
| 27 | 1951  | -9  | -6  | -24 | -95  | -86  | -25 | -41 | -52 | 0    | 18   | 10  | -19 | -27      |
| 28 | 1952  | -6  | -6  | -3  | 17   | -9   | 6   | -35 | 5   | 15   | 16   | -6  | 7   | 0        |
| 29 | 1953  | -10 | -6  | -16 | -9   | -12  | -11 | -11 | 7   | 1    | 10   | -2  | -17 | -6       |
| 30 | 1954  | -11 | -5  | -6  | 14   | -3   | 16  | -15 | 5   | -41  | 9    | 9   | 10  | -1       |
| 31 | 1955  | -9  | -5  | -7  | -10  | -7   | -8  | -15 | 13  | -44  | 19   | 14  | -9  | -5       |
| 32 | 1956  | -10 | -5  | -42 | -88  | -105 | -5  | -10 | -54 | -22  | 18   | 13  | -9  | -26      |
| 33 | 1957  | -10 | -5  | -6  | -13  | -2   | -9  | 15  | 2   | 1    | 13   | -11 | -18 | -4       |
| 34 | 1958  | -10 | -5  | -11 | -9   | -6   | -10 | 2   | 14  | 12   | 16   | -11 | -19 | -3       |
| 35 | 1959  | -10 | -6  | 13  | -91  | -12  | 12  | 13  | 0   | -4   | 14   | 13  | 4   | -5       |
| 36 | 1960  | 21  | 10  | 6   | 16   | -4   | -8  | -23 | 7   | 16   | 10   | -7  | -20 | 2        |
| 37 | 1961  | -9  | -6  | -8  | 10   | -2   | -4  | 5   | 7   | -42  | 10   | 11  | -17 | -4       |
| 38 | 1962  | -10 | -6  | -10 | -10  | -9   | -13 | -33 | 6   | 4    | -6   | -12 | -11 | -9       |
| 39 | 1963  | -10 | -5  | 13  | 14   | -9   | -6  | -14 | 2   | -17  | 9    | -1  | -7  | -2       |
| 40 | 1964  | -10 | -6  | -8  | -6   | -6   | -10 | -18 | -2  | -41  | 17   | 12  | -10 | -7       |
| 41 | 1965  | -6  | -5  | -70 | -165 | 6    | 14  | 1   | -50 | -37  | 16   | 15  | 1   | -24      |
| 42 | 1966  | -9  | -5  | -6  | -9   | -5   | -9  | 16  | 8   | 13   | 17   | 10  | -16 | 1        |
| 43 | 1967  | -9  | -6  | -8  | 8    | 16   | 8   | -14 | -6  | -32  | 15   | 15  | -7  | -2       |
| 44 | 1968  | -10 | -6  | -8  | 17   | -6   | 14  | -15 | -8  | 7    | 18   | 13  | -15 | 0        |

|    | A   | B          | C          | D          | E          | F          | G          | H          | I          | J           | K           | L          | M          | N               |
|----|---|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|------------|------------|-----------------|
| 1  | <b>Table 12: Federal Hydro Generation Adjustment for</b>            |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 2  | <b>Stand Ready &amp; Deployment Losses, Flat Energy for FY 2015</b> |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 3  |   |            |            |            |            |            |            |            |            |             |             |            |            |                 |
| 4  | <b>Water Year</b>   | <b>Oct</b> | <b>Nov</b> | <b>Dec</b> | <b>Jan</b> | <b>Feb</b> | <b>Mar</b> | <b>Apr</b> | <b>May</b> | <b>June</b> | <b>July</b> | <b>Aug</b> | <b>Sep</b> | <b>Wtd Avg.</b> |
| 45 | 1969  | -6         | -5         | 16         | -87        | -105       | -5         | -41        | 5          | 7           | 18          | 15         | -18        | -16             |
| 46 | 1970  | -10        | -4         | -10        | -10        | -6         | -11        | -15        | 11         | -35         | 2           | -5         | -7         | -8              |
| 47 | 1971  | -10        | -6         | -12        | -90        | -90        | 11         | 15         | -42        | -50         | 18          | 9          | -9         | -21             |
| 48 | 1972  | -9         | -6         | -10        | -101       | -86        | 1          | 6          | -12        | -66         | 19          | 9          | -15        | -22             |
| 49 | 1973  | -11        | -11        | -8         | -12        | -10        | -12        | -12        | 9          | -11         | -7          | -4         | -12        | -8              |
| 50 | 1974  | -10        | -8         | -7         | -71        | -4         | -9         | 16         | 0          | -62         | 18          | 9          | -14        | -12             |
| 51 | 1975  | -4         | -6         | -11        | -7         | -3         | -9         | -13        | 0          | -8          | 18          | 19         | -10        | -3              |
| 52 | 1976  | -9         | 0          | -89        | -76        | -49        | 8          | -41        | -1         | 15          | 17          | 9          | 11         | -17             |
| 53 | 1977  | -9         | -5         | -17        | -9         | -6         | -8         | -11        | -8         | -17         | 1           | -15        | 10         | -8              |
| 54 | 1978  | -4         | -7         | -8         | -10        | -7         | -11        | 14         | 0          | -12         | 15          | -9         | -7         | -4              |
| 55 | 1979  | -8         | -5         | -8         | -12        | -12        | -11        | -13        | 7          | -11         | -9          | -6         | -16        | -9              |
| 56 | 1980  | -9         | -5         | -11        | -12        | -5         | -13        | 1          | -48        | 8           | -12         | -7         | -19        | -11             |
| 57 | 1981  | -9         | -6         | 8          | 13         | -3         | -2         | -14        | -10        | -39         | 18          | 9          | -9         | -3              |
| 58 | 1982  | -9         | -5         | -8         | 19         | -88        | -136       | -10        | -50        | -48         | 14          | 9          | -16        | -27             |
| 59 | 1983  | -10        | -5         | -6         | -72        | -66        | -186       | 1          | 12         | -8          | 18          | 13         | -8         | -26             |
| 60 | 1984  | -5         | 2          | -4         | -7         | -9         | -12        | -39        | 15         | -12         | 14          | 16         | -20        | -5              |
| 61 | 1985  | -4         | -6         | -8         | -8         | -6         | -10        | -13        | 8          | 6           | -13         | -12        | 6          | -5              |
| 62 | 1986  | -9         | -6         | -9         | -10        | -32        | -47        | -13        | 4          | 14          | 14          | -12        | -7         | -9              |
| 63 | 1987  | -8         | -6         | -8         | -8         | -4         | -14        | -14        | 7          | 10          | -9          | -11        | -10        | -6              |
| 64 | 1988  | -9         | -5         | -11        | -12        | -6         | -12        | -12        | -4         | -12         | 15          | -12        | -11        | -8              |
| 65 | 1989  | -9         | -6         | -7         | -7         | -6         | -14        | 15         | 3          | -9          | -7          | -5         | -10        | -5              |
| 66 | 1990  | -10        | -5         | -4         | 16         | 6          | -5         | 14         | 6          | -7          | 14          | 16         | -17        | 2               |
| 67 | 1991  | -8         | 3          | 9          | -9         | 0          | 13         | 13         | 7          | 3           | 17          | 12         | -9         | 4               |
| 68 | 1992  | -10        | -6         | -12        | -8         | -6         | -5         | -13        | -11        | -13         | -12         | -10        | 2          | -9              |
| 69 | 1993  | -9         | -5         | -8         | -10        | -8         | -12        | -12        | -8         | -9          | -13         | -5         | 5          | -8              |
| 70 | 1994  | -10        | -5         | -9         | -12        | -5         | -13        | -13        | 13         | 9           | 5           | -4         | -19        | -5              |
| 71 | 1995  | -9         | -5         | -9         | -7         | -3         | 12         | -13        | -12        | 11          | 1           | -6         | -17        | -5              |
| 72 | 1996  | -5         | 11         | -2         | -73        | 16         | -61        | -40        | 5          | -35         | 17          | 9          | -16        | -15             |
| 73 | 1997  | -10        | -6         | -7         | -62        | 3          | -113       | 13         | -62        | -46         | 17          | 8          | -17        | -24             |
| 74 | 1998  | 1          | 0          | -5         | -8         | -7         | -8         | -11        | 9          | -8          | 16          | 17         | -10        | -1              |
| 75 | 1999  | -7         | -6         | -8         | -91        | -91        | -63        | 14         | 0          | -9          | 18          | 10         | -8         | -20             |
| 76 | 2000  | -9         | 11         | 8          | 9          | -12        | -9         | -29        | 14         | 6           | 13          | -7         | -9         | -1              |
| 77 | 2001  | -11        | -6         | -12        | -7         | -6         | -12        | -12        | -9         | -20         | -9          | -4         | 6          | -9              |
| 78 | 2002  | -7         | -6         | -10        | -7         | -10        | -12        | 2          | 7          | -39         | 18          | 7          | -15        | -6              |
| 79 | 2003  | -10        | -5         | -10        | -7         | -7         | -8         | -12        | 2          | 13          | -9          | -10        | 3          | -5              |
| 80 | 2004  | -9         | -5         | -1         | -11        | -6         | -11        | -13        | 2          | 9           | -6          | -8         | -8         | -5              |
| 81 | 2005  | -9         | -6         | 1          | -8         | -7         | -17        | -11        | 6          | 6           | -9          | -6         | -15        | -6              |
| 82 | 2006  | -9         | -6         | -7         | -4         | -10        | -8         | -46        | 7          | 5           | 16          | -12        | -11        | -7              |
| 83 | 2007  | -9         | -4         | -10        | 8          | -7         | 7          | 13         | 10         | 15          | 12          | -5         | 3          | 3               |
| 84 | 2008  | -9         | -6         | -9         | -15        | -8         | -13        | -14        | -1         | -44         | 15          | 6          | -10        | -9              |
| 85 | <b>80 WY Average</b>  | <b>-8</b>  | <b>-4</b>  | <b>-10</b> | <b>-18</b> | <b>-16</b> | <b>-13</b> | <b>-9</b>  | <b>-3</b>  | <b>-11</b>  | <b>8</b>    | <b>1</b>   | <b>-10</b> | <b>-8</b>       |
| 86 | <b>Hours</b>  | <b>744</b> | <b>721</b> | <b>744</b> | <b>744</b> | <b>672</b> | <b>743</b> | <b>720</b> | <b>744</b> | <b>720</b>  | <b>744</b>  | <b>744</b> | <b>720</b> | <b>8760</b>     |

**Figure 7: Simulated Total PS Wind Generation for FY 2014-2015**

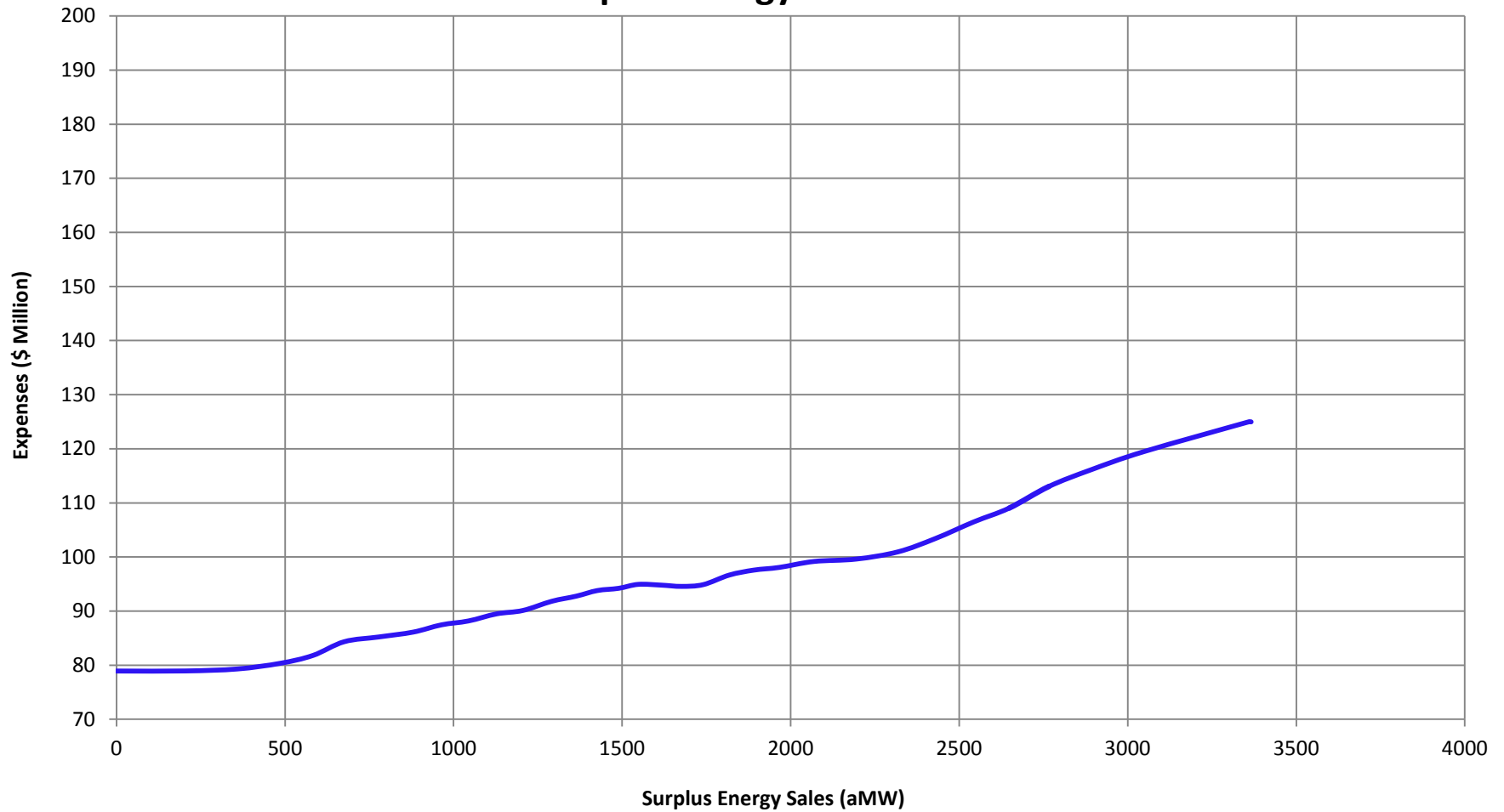


|    | A   | B        | C        | D        | E        | F        | G        | H        | I        | J        | K        | L        | M        | N         |
|----|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| 1  | <b>Table 13: Value of PS Wind Generation at Expected Wind Generation for FY 2014</b>                                    |          |          |          |          |          |          |          |          |          |          |          |          |           |
| 2  |   |          |          |          |          |          |          |          |          |          |          |          |          |           |
| 3  |   |          |          |          |          |          |          |          |          |          |          |          |          |           |
| 4  |   |          |          |          |          |          |          |          |          |          |          |          |          |           |
| 5  |   | Oct      | Nov      | Dec      | Jan      | Feb      | Mar      | Apr      | May      | Jun      | Jul      | Aug      | Sep      | Annual    |
| 6  | Expected Generation (aMW)   | 62       | 46       | 51       | 34       | 30       | 69       | 66       | 68       | 91       | 62       | 71       | 71       | 60        |
| 7  | Contract Prices (\$/MWh)  | \$ 31.46 | \$ 50.36 | \$ 43.35 | \$ 70.24 | \$ 65.83 | \$ 40.14 | \$ 34.13 | \$ 30.95 | \$ 23.03 | \$ 27.68 | \$ 24.75 | \$ 23.45 | \$ 38.62  |
| 8  |   |          |          |          |          |          |          |          |          |          |          |          |          |           |
| 9  | <b>Power Purchase Costs for Expected Wind Generation (\$1,000)</b>  |          |          |          |          |          |          |          |          |          |          |          |          |           |
| 10 |   |          |          |          |          |          |          |          |          |          |          |          |          |           |
| 11 |   | Oct      | Nov      | Dec      | Jan      | Feb      | Mar      | Apr      | May      | Jun      | Jul      | Aug      | Sep      | Annual    |
| 12 | Expected Wind Generation Cost (\$000)   | \$ 1,961 | \$ 2,333 | \$ 2,214 | \$ 2,398 | \$ 1,975 | \$ 2,770 | \$ 2,238 | \$ 2,107 | \$ 2,096 | \$ 1,703 | \$ 1,758 | \$ 1,669 | \$ 25,221 |
| 13 |   |          |          |          |          |          |          |          |          |          |          |          |          |           |
| 14 |   |          |          |          |          |          |          |          |          |          |          |          |          |           |
| 15 | <b>Average, Median, 5th Percentile, and 95th Percentile Spot Market Electricity Prices Estimated by AURORA (\$/MWh)</b> |          |          |          |          |          |          |          |          |          |          |          |          |           |
| 16 |   |          |          |          |          |          |          |          |          |          |          |          |          |           |
| 17 |   | Oct      | Nov      | Dec      | Jan      | Feb      | Mar      | Apr      | May      | Jun      | Jul      | Aug      | Sep      | Annual    |
| 18 | 5%  | \$ 21.85 | \$ 24.48 | \$ 25.73 | \$ 22.28 | \$ 21.95 | \$ 16.66 | \$ 14.83 | \$ 8.54  | \$ 8.62  | \$ 18.69 | \$ 21.91 | \$ 23.01 | \$ 21.71  |
| 19 | 50%   | \$ 28.65 | \$ 32.27 | \$ 35.30 | \$ 33.81 | \$ 33.77 | \$ 28.37 | \$ 23.46 | \$ 18.04 | \$ 18.28 | \$ 27.16 | \$ 29.98 | \$ 30.61 | \$ 28.56  |
| 20 | Average   | \$ 29.14 | \$ 33.03 | \$ 36.14 | \$ 34.72 | \$ 34.57 | \$ 28.62 | \$ 23.77 | \$ 17.93 | \$ 18.83 | \$ 27.72 | \$ 30.63 | \$ 31.31 | \$ 28.84  |
| 21 | 95%   | \$ 37.99 | \$ 44.12 | \$ 49.01 | \$ 50.32 | \$ 49.97 | \$ 40.65 | \$ 33.29 | \$ 27.07 | \$ 30.32 | \$ 39.05 | \$ 42.07 | \$ 42.24 | \$ 37.13  |
| 22 |   |          |          |          |          |          |          |          |          |          |          |          |          |           |
| 23 | <b>Revenues from Expected Wind Generation at Various AURORA Price Percentiles (\$1,000)</b>                             |          |          |          |          |          |          |          |          |          |          |          |          |           |
| 24 |   |          |          |          |          |          |          |          |          |          |          |          |          |           |
| 25 |   | Oct      | Nov      | Dec      | Jan      | Feb      | Mar      | Apr      | May      | Jun      | Jul      | Aug      | Sep      | Annual    |
| 26 | 5%  | \$ 1,014 | \$ 818   | \$ 978   | \$ 566   | \$ 442   | \$ 854   | \$ 700   | \$ 433   | \$ 565   | \$ 855   | \$ 1,158 | \$ 1,179 | \$ 11,461 |
| 27 | 50%   | \$ 1,329 | \$ 1,078 | \$ 1,341 | \$ 859   | \$ 681   | \$ 1,455 | \$ 1,107 | \$ 914   | \$ 1,198 | \$ 1,243 | \$ 1,585 | \$ 1,569 | \$ 15,077 |
| 28 | Average   | \$ 1,352 | \$ 1,103 | \$ 1,373 | \$ 882   | \$ 697   | \$ 1,467 | \$ 1,122 | \$ 908   | \$ 1,234 | \$ 1,269 | \$ 1,619 | \$ 1,605 | \$ 15,226 |
| 29 | 95%   | \$ 1,762 | \$ 1,474 | \$ 1,862 | \$ 1,278 | \$ 1,007 | \$ 2,084 | \$ 1,571 | \$ 1,371 | \$ 1,987 | \$ 1,787 | \$ 2,224 | \$ 2,165 | \$ 19,599 |

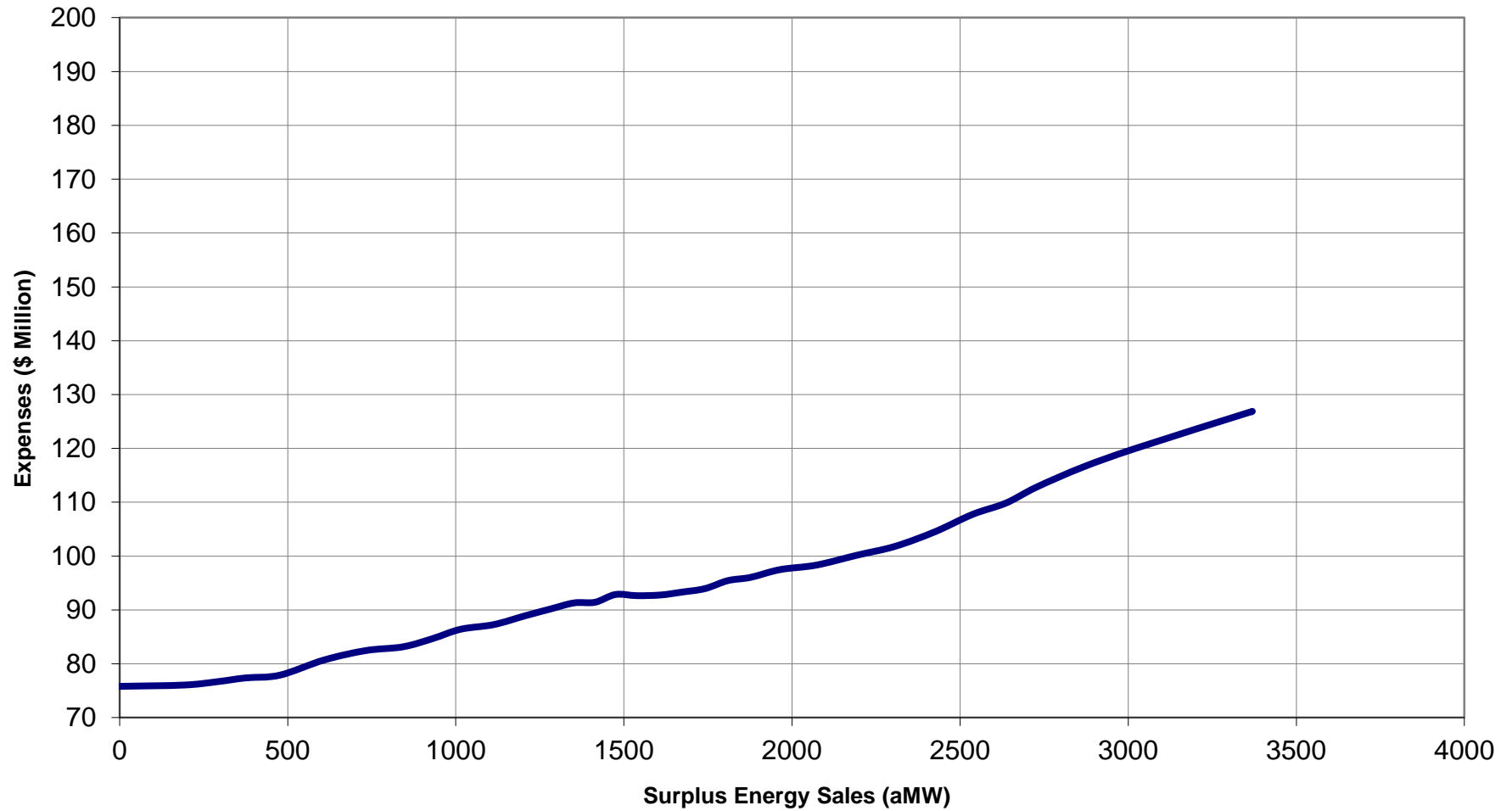
|    | A   | B        | C        | D        | E        | F        | G        | H        | I        | J        | K        | L        | M        | N         |
|----|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| 1  | <b>Table 14: Value of PS Wind Generation at Expected Wind Generation for FY 2015</b>                                    |          |          |          |          |          |          |          |          |          |          |          |          |           |
| 2  |   |          |          |          |          |          |          |          |          |          |          |          |          |           |
| 3  |   |          |          |          |          |          |          |          |          |          |          |          |          |           |
| 4  |   |          |          |          |          |          |          |          |          |          |          |          |          |           |
| 5  |   | Oct      | Nov      | Dec      | Jan      | Feb      | Mar      | Apr      | May      | Jun      | Jul      | Aug      | Sep      | Annual    |
| 6  | <b>Expected Generation (aMW)</b>  | 62       | 46       | 51       | 34       | 30       | 69       | 66       | 68       | 91       | 62       | 71       | 71       | 60        |
| 7  | <b>Contract Prices (\$/MWh)</b>   | \$ 32.12 | \$ 51.42 | \$ 44.24 | \$ 70.81 | \$ 66.17 | \$ 40.59 | \$ 34.54 | \$ 31.35 | \$ 23.36 | \$ 28.09 | \$ 25.09 | \$ 23.71 | \$ 39.14  |
| 8  |   |          |          |          |          |          |          |          |          |          |          |          |          |           |
| 9  | <b>Power Purchase Costs for Expected Wind Generation (\$1,000)</b>  |          |          |          |          |          |          |          |          |          |          |          |          |           |
| 10 |   |          |          |          |          |          |          |          |          |          |          |          |          |           |
| 11 |   | Oct      | Nov      | Dec      | Jan      | Feb      | Mar      | Apr      | May      | Jun      | Jul      | Aug      | Sep      | Annual    |
| 12 | <b>Expected Wind Generation Cost (\$000)</b>  | \$ 2,003 | \$ 2,382 | \$ 2,260 | \$ 2,418 | \$ 1,985 | \$ 2,801 | \$ 2,264 | \$ 2,134 | \$ 2,126 | \$ 1,728 | \$ 1,782 | \$ 1,688 | \$ 25,571 |
| 13 |   |          |          |          |          |          |          |          |          |          |          |          |          |           |
| 14 |   |          |          |          |          |          |          |          |          |          |          |          |          |           |
| 15 | <b>Average, Median, 5th Percentile, and 95th Percentile Spot Market Electricity Prices Estimated by AURORA (\$/MWh)</b> |          |          |          |          |          |          |          |          |          |          |          |          |           |
| 16 |   |          |          |          |          |          |          |          |          |          |          |          |          |           |
| 17 |   | Oct      | Nov      | Dec      | Jan      | Feb      | Mar      | Apr      | May      | Jun      | Jul      | Aug      | Sep      | Annual    |
| 18 | 5%  | \$ 22.74 | \$ 25.02 | \$ 25.62 | \$ 21.82 | \$ 20.82 | \$ 14.18 | \$ 12.33 | \$ 6.72  | \$ 8.62  | \$ 17.91 | \$ 22.42 | \$ 23.11 | \$ 21.13  |
| 19 | 50%   | \$ 29.94 | \$ 33.47 | \$ 35.78 | \$ 33.74 | \$ 33.31 | \$ 27.35 | \$ 22.95 | \$ 16.83 | \$ 19.02 | \$ 27.51 | \$ 30.38 | \$ 30.16 | \$ 28.59  |
| 20 | Average   | \$ 30.56 | \$ 34.17 | \$ 36.52 | \$ 34.59 | \$ 33.82 | \$ 27.33 | \$ 22.99 | \$ 16.90 | \$ 19.56 | \$ 27.97 | \$ 31.23 | \$ 30.88 | \$ 28.86  |
| 21 | 95%   | \$ 40.28 | \$ 45.74 | \$ 49.80 | \$ 50.19 | \$ 49.47 | \$ 39.22 | \$ 33.50 | \$ 27.01 | \$ 32.50 | \$ 39.63 | \$ 42.78 | \$ 40.84 | \$ 37.37  |
| 22 |   |          |          |          |          |          |          |          |          |          |          |          |          |           |
| 23 | <b>Revenues from Expected Wind Generation at Various AURORA Price Percentiles (\$1,000)</b>                             |          |          |          |          |          |          |          |          |          |          |          |          |           |
| 24 |   |          |          |          |          |          |          |          |          |          |          |          |          |           |
| 25 |   | Oct      | Nov      | Dec      | Jan      | Feb      | Mar      | Apr      | May      | Jun      | Jul      | Aug      | Sep      | Annual    |
| 26 | 5%  | \$ 1,055 | \$ 836   | \$ 973   | \$ 554   | \$ 420   | \$ 727   | \$ 582   | \$ 340   | \$ 565   | \$ 819   | \$ 1,185 | \$ 1,184 | \$ 11,154 |
| 27 | 50%   | \$ 1,389 | \$ 1,118 | \$ 1,359 | \$ 857   | \$ 671   | \$ 1,402 | \$ 1,084 | \$ 852   | \$ 1,246 | \$ 1,259 | \$ 1,606 | \$ 1,546 | \$ 15,091 |
| 28 | Average   | \$ 1,417 | \$ 1,141 | \$ 1,388 | \$ 879   | \$ 682   | \$ 1,401 | \$ 1,085 | \$ 856   | \$ 1,282 | \$ 1,280 | \$ 1,650 | \$ 1,583 | \$ 15,234 |
| 29 | 95%   | \$ 1,868 | \$ 1,527 | \$ 1,892 | \$ 1,275 | \$ 997   | \$ 2,011 | \$ 1,581 | \$ 1,368 | \$ 2,130 | \$ 1,814 | \$ 2,261 | \$ 2,093 | \$ 19,726 |



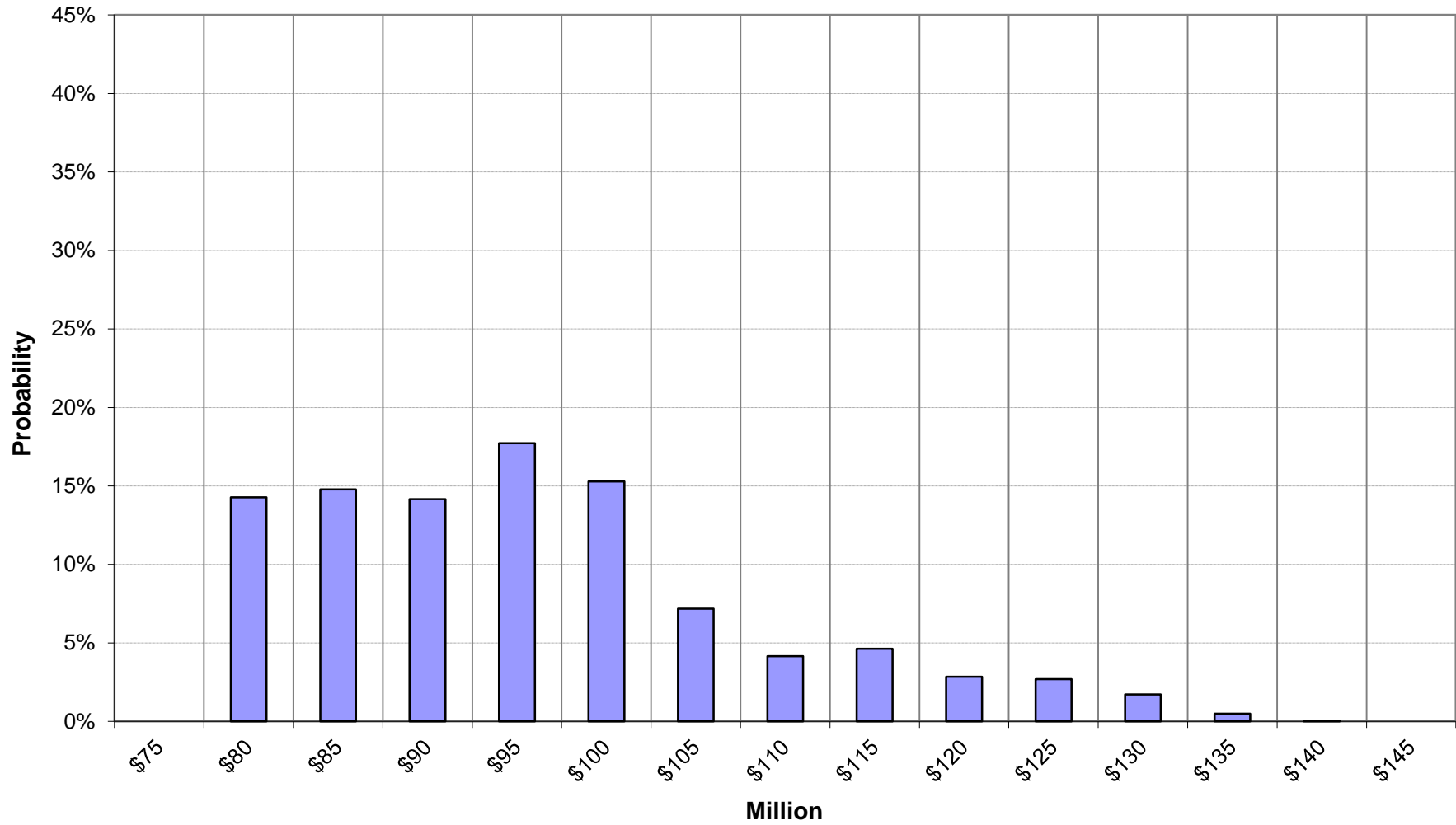
**Figure 8: PS Transmission & Ancillary Services Expenses by Amount of Surplus Energy Sales For FY 2014**



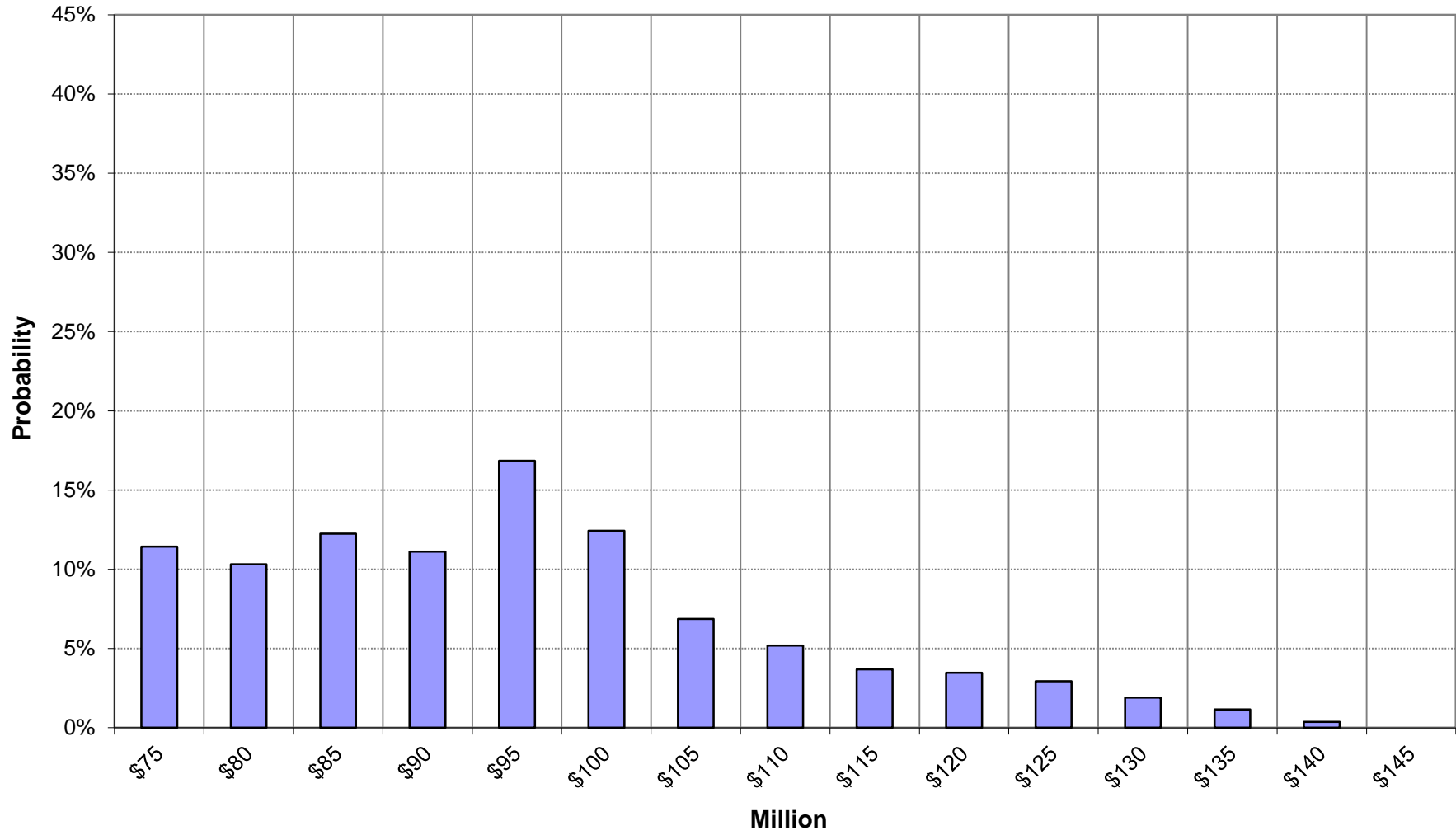
**Figure 9: PS Transmission & Ancillary Services Expenses by Amount of Surplus Energy Sales For FY 2015**



**Figure 10: PS Transmission and Ancillary Service Expense Distribution for FY 2014**

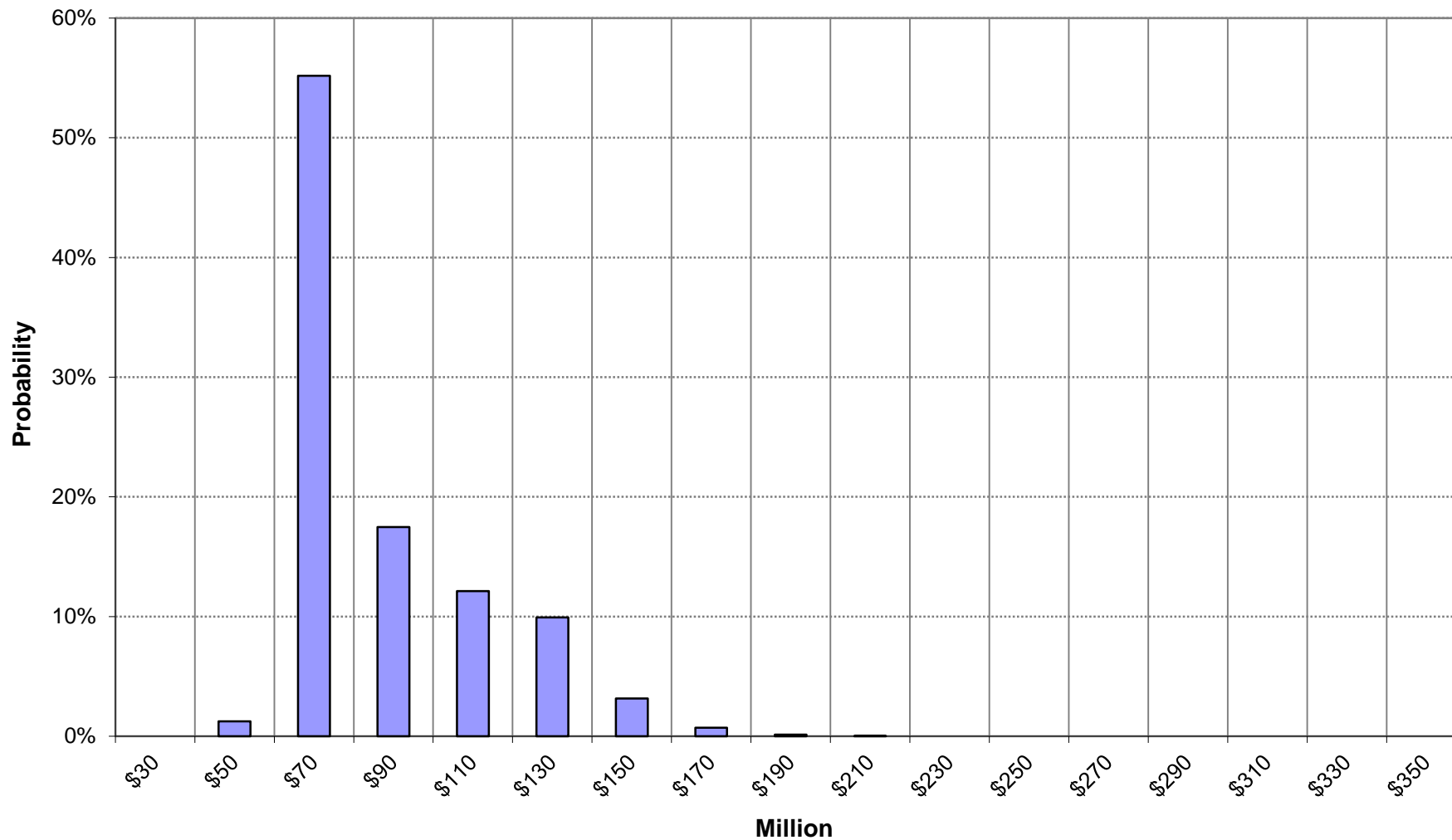


**Figure 11: PS Transmission and Ancillary Service Expense Distribution for FY 2015**

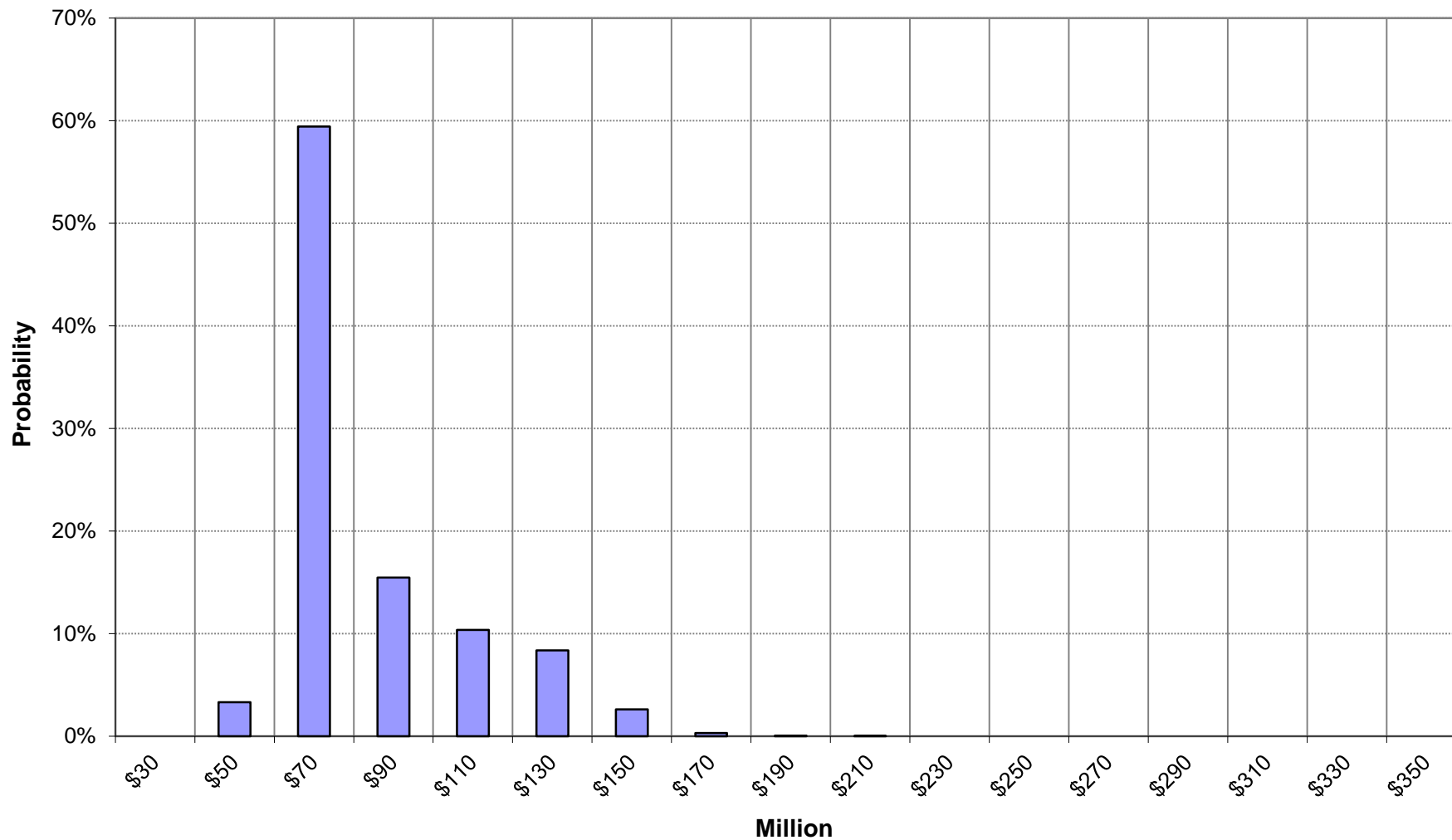


|   | A                                 | B                       | C                     | D             | E              | F        | G             |
|---|-----------------------------------|-------------------------|-----------------------|---------------|----------------|----------|---------------|
| 1 | <b>Table 15: 4h10c Credits</b>    |                         |                       |               |                |          |               |
| 2 | <b>4h10c Credits (\$ Million)</b> |                         |                       |               |                |          |               |
| 3 |                                   |                         |                       |               |                |          |               |
| 4 |                                   |                         |                       |               |                |          |               |
| 5 | <b>Fiscal Year</b>                | <b>Purchase Expense</b> | <b>Direct Expense</b> | <b>Pisces</b> | <b>Capital</b> | <b>%</b> | <b>Credit</b> |
| 6 | <b>2014</b>                       | \$ 120                  | \$ 254                | \$ 1.8        | 60.3           | 22.3%    | \$ 97.2       |
| 7 | <b>2015</b>                       | \$ 113                  | \$ 260                | \$ 1.8        | 41.8           | 22.3%    | \$ 93.0       |

Figure 12: 4(h)(10)(C) Credits Distribution for FY 2014



**Figure 13: 4(h)(10)(C) Credits Distribution for FY 2015**



|   | A  | B         | C            | D             | E                    |
|---|--|-----------|--------------|---------------|----------------------|
| 1 | <b>Table 16: Augmentation Power Purchases</b>                      |           |              |               |                      |
| 2 | <b>Price = Average Annual Price for WY 1937 from Risk Analysis</b> |           |              |               |                      |
| 3 | <b>USE FOR RATE CALCs.</b>   |           |              |               |                      |
| 4 |  |           |              |               |                      |
| 5 |  |           |              |               |                      |
| 6 | <b>FY</b>  | <b>MW</b> | <b>Hours</b> | <b>\$/MWh</b> | <b>Exp. (\$ 000)</b> |
| 7 | <b>2014</b>  | 21        | 8,760        | 33.47         | \$ 6,198             |
| 8 | <b>2015</b>  | 318       | 8,760        | 34.08         | \$ 94,913            |



|   | A   | B  | C            | D         | E   | F            | G         | H         | I           |
|---|---|----|--------------|-----------|-----|--------------|-----------|-----------|-------------|
| 1 | <b>Table 17: Augmentation Power Purchases - Risk Analysis</b> |    |              |           |     |              |           |           |             |
| 2 |   |    |              |           |     |              |           |           |             |
| 3 | <b>Risk Analysis BP 14</b>                                    |    |              |           |     |              |           |           |             |
| 4 |   |    |              |           |     |              |           |           |             |
| 5 | FY  | MW | Price        | Critical  | MW  | Price        | Market    | Total     | Delta       |
| 6 | 2014  | 11 | <b>33.47</b> | \$ 3,099  | 11  | <b>28.84</b> | \$ 2,670  | \$ 5,769  | \$ (429)    |
| 7 | 2015  | 81 | <b>34.08</b> | \$ 24,173 | 237 | <b>28.86</b> | \$ 59,908 | \$ 84,081 | \$ (10,832) |

|    | A   | B         | C                       | D                       | E  | F                   |
|----|---|-----------|-------------------------|-------------------------|--|---------------------|
| 1  | <b>Table 18: Calculation of Surplus Energy Sales Revenue and Balancing Purchase Expenses Provided to RAM2014, FY 2014</b> |           |                         |                         |  |                     |
| 2  | Total Game Counter  | Iteration | Sales Rev Total (\$000) | Purch Exp Total (\$000) | Net Secondary Revenue (Sales Rev. - Purch. Exp.) (\$000) | Counter From Median |
| 3  | 1   | 1076      | \$ 77,682               | \$ 350,417              | \$ (272,735)   |                     |
| 4  | 2   | 319       | \$ 69,869               | \$ 315,924              | \$ (246,055)   |                     |
| 5  | 3   | 1146      | \$ 97,547               | \$ 307,075              | \$ (209,528)   |                     |
| 6  | *   | *         | *                       | *                       | *  |                     |
| 7  | *   | *         | *                       | *                       | *  |                     |
| 8  | *   | *         | *                       | *                       | *  |                     |
| 9  | 1441  | 401       | \$ 281,693              | \$ 13,729               | \$ 267,964   | 160                 |
| 10 | 1442  | 1260      | \$ 274,563              | \$ 6,433                | \$ 268,131   | 159                 |
| 11 | 1443  | 1011      | \$ 291,313              | \$ 23,069               | \$ 268,244   | 158                 |
| 12 | *   | *         | *                       | *                       | *  | *                   |
| 13 | *   | *         | *                       | *                       | *  | *                   |
| 14 | *   | *         | *                       | *                       | *  | *                   |
| 15 | 1598  | 144       | \$ 304,898              | \$ 10,122               | \$ 294,776   | 3                   |
| 16 | 1599  | 2997      | \$ 326,862              | \$ 32,052               | \$ 294,809   | 2                   |
| 17 | 1600  | 1992      | \$ 320,648              | \$ 25,756               | \$ 294,891   | 1                   |
| 18 | 1601  | 1766      | \$ 315,551              | \$ 20,450               | \$ 295,101   | 1                   |
| 19 | 1602  | 1217      | \$ 321,814              | \$ 26,508               | \$ 295,307   | 2                   |
| 20 | 1603  | 2266      | \$ 316,581              | \$ 21,233               | \$ 295,348   | 3                   |
| 21 | *   | *         | *                       | *                       | *  | *                   |
| 22 | *   | *         | *                       | *                       | *  | *                   |
| 23 | *   | *         | *                       | *                       | *  | *                   |
| 24 | 1758  | 437       | \$ 331,718              | \$ 9,003                | \$ 322,715   | 158                 |
| 25 | 1759  | 2993      | \$ 335,140              | \$ 12,262               | \$ 322,878   | 159                 |
| 26 | 1760  | 21        | \$ 350,669              | \$ 27,747               | \$ 322,922   | 160                 |
| 27 | *   | *         | *                       | *                       | *  | *                   |
| 28 | *   | *         | *                       | *                       | *  | *                   |
| 29 | *   | *         | *                       | *                       | *  | *                   |
| 30 | 3198  | 1333      | \$ 829,046              | \$ 18,036               | \$ 811,011   |                     |
| 31 | 3199  | 1202      | \$ 824,535              | \$ 11,352               | \$ 813,182   |                     |
| 32 | 3200  | 1078      | \$ 887,604              | \$ 6,626                | \$ 880,979   |                     |
| 33 |   |           |                         |                         |  |                     |
| 34 | <b>Average (3,200 Games)</b>  |           | <b>\$ 342,489</b>       | <b>\$ 50,086</b>        | <b>\$ 292,404</b>  |                     |
| 35 | <b>Median (3,200 Games)</b>   |           | <b>\$ 325,197</b>       | <b>\$ 25,566</b>        | <b>\$ 294,996</b>  |                     |
| 36 |   |           |                         |                         |  |                     |
| 37 | <b>Average to RAM2014 (\$000)</b>   |           | <b>\$ 322,152</b>       | <b>\$ 27,021</b>        | <b>\$ 295,131</b>  |                     |
| 38 | <b>(160 Above, 160 Below Median Net Secondary Revenue)</b>  |           |                         |                         |  |                     |
| 39 |   |           |                         |                         |  |                     |
| 40 |   |           |                         |                         |  |                     |
| 41 | <b>Redispatch of Transmission Exp. (\$000)</b>  |           |                         | <b>\$ 400</b>           | <b>\$ 400</b>  |                     |
| 42 |   |           |                         |                         |  |                     |
| 43 | <b>Total Median Sales/Purchases to RAM (\$000)</b>  |           | <b>\$ 322,152</b>       | <b>\$ 27,421</b>        | <b>\$ 294,731</b>  |                     |

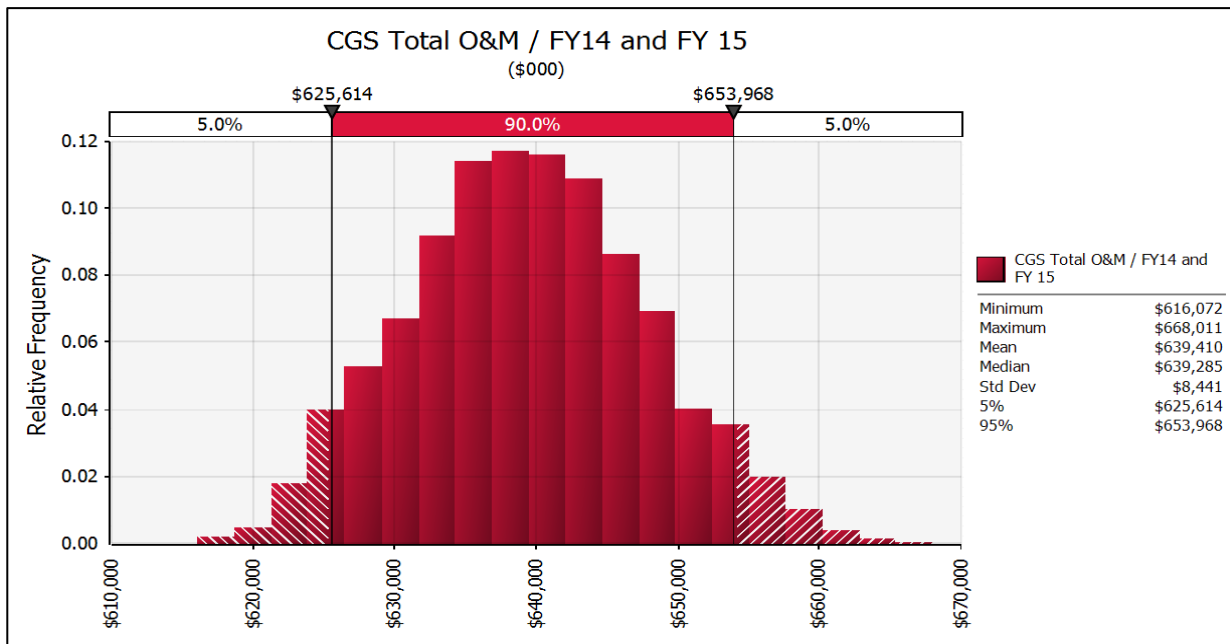
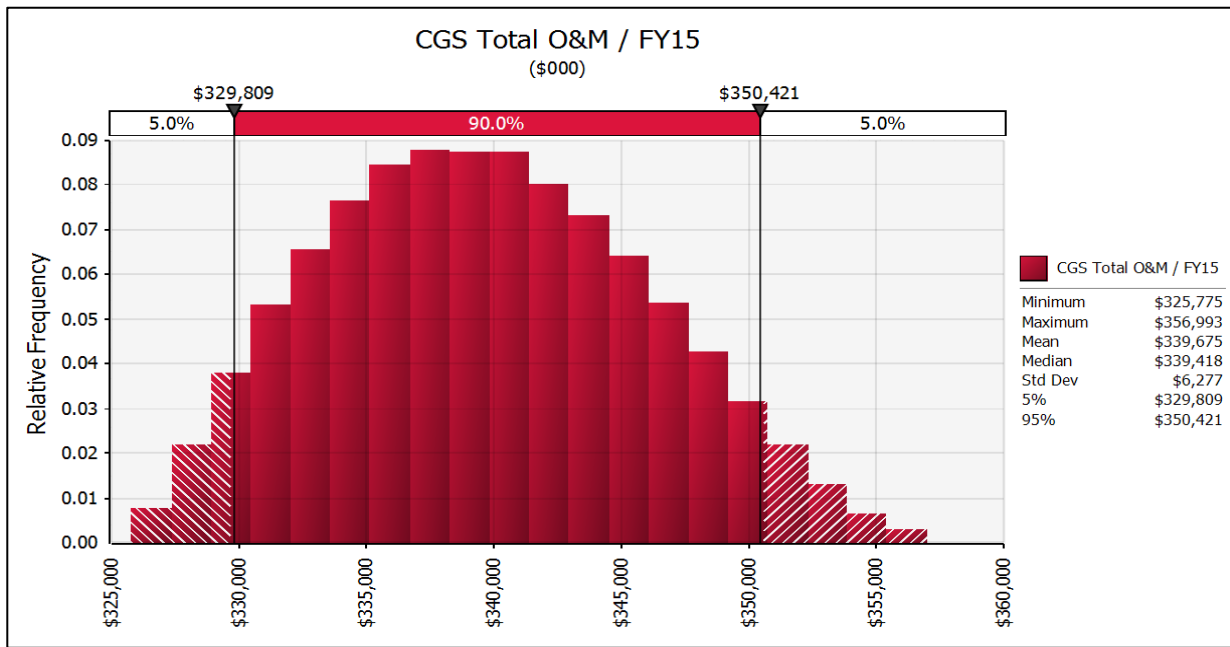
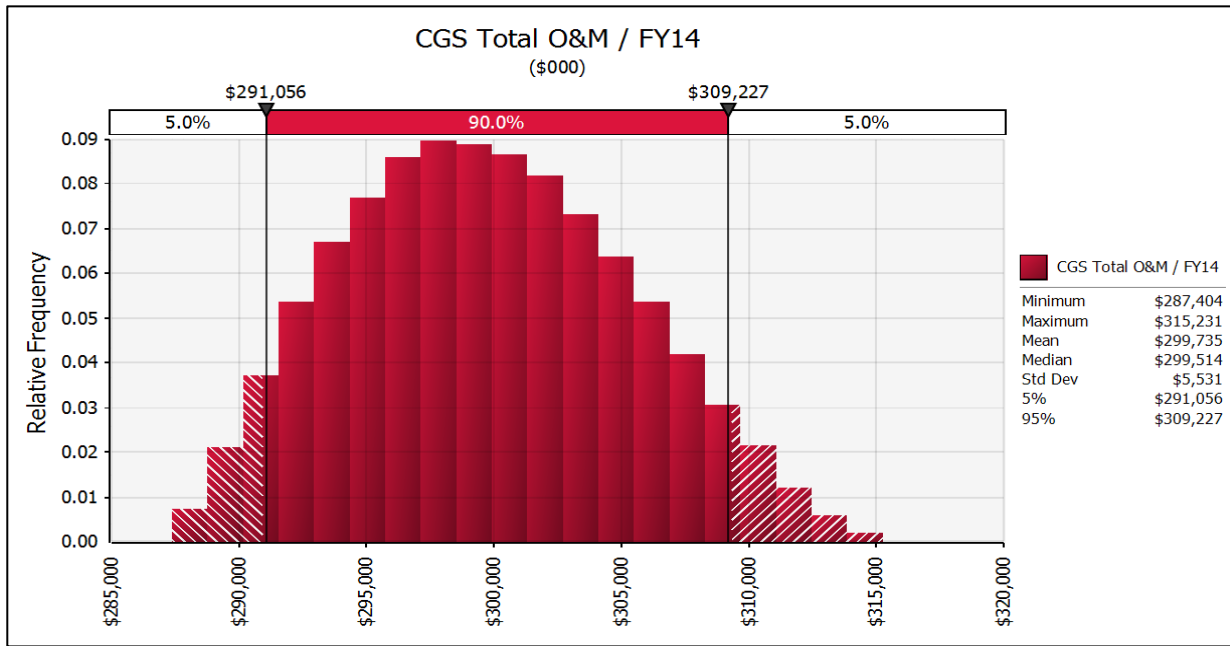
|    | A   | B                | C                                  | D                                  | E   | F                                  |
|----|---|------------------|------------------------------------|------------------------------------|---|------------------------------------|
| 1  | <b>Table 19: Calculation of Surplus Energy Sales Revenue<br/>and Balancing Purchase Expenses Provided to RAM2015, FY 2015</b> |                  |                                    |                                    |   |                                    |
| 2  | <b>Total Game Counter</b>   | <b>Iteration</b> | <b>Sales Rev Total<br/>(\$000)</b> | <b>Purch Exp Total<br/>(\$000)</b> | <b>Net Secondary<br/>Revenue (Sales Rev. -<br/>Purch. Exp.)<br/>(\$000)</b> | <b>Counter<br/>From<br/>Median</b> |
| 3  | 1   | 335              | \$ 95,042                          | \$ 324,684                         | \$ (229,642)  |                                    |
| 4  | 2   | 2559             | \$ 45,359                          | \$ 247,422                         | \$ (202,063)  |                                    |
| 5  | 3   | 810              | \$ 99,349                          | \$ 293,241                         | \$ (193,892)  |                                    |
| 6  | *   | *                | *                                  | *                                  | *   |                                    |
| 7  | *   | *                | *                                  | *                                  | *   |                                    |
| 8  | *   | *                | *                                  | *                                  | *   |                                    |
| 9  | 1441  | 2735             | \$ 304,508                         | \$ 15,052                          | \$ 289,456  | 160                                |
| 10 | 1442  | 911              | \$ 315,047                         | \$ 25,451                          | \$ 289,597  | 159                                |
| 11 | 1443  | 1523             | \$ 301,017                         | \$ 11,328                          | \$ 289,689  | 158                                |
| 12 | *   | *                | *                                  | *                                  | *   | *                                  |
| 13 | *   | *                | *                                  | *                                  | *   | *                                  |
| 14 | *   | *                | *                                  | *                                  | *   | *                                  |
| 15 | 1598  | 1663             | \$ 370,300                         | \$ 57,441                          | \$ 312,859  | 3                                  |
| 16 | 1599  | 3185             | \$ 325,365                         | \$ 12,500                          | \$ 312,864  | 2                                  |
| 17 | 1600  | 1238             | \$ 348,342                         | \$ 35,216                          | \$ 313,126  | 1                                  |
| 18 | 1601  | 138              | \$ 326,845                         | \$ 13,507                          | \$ 313,338  | 1                                  |
| 19 | 1602  | 14               | \$ 316,423                         | \$ 1,972                           | \$ 314,451  | 2                                  |
| 20 | 1603  | 1656             | \$ 343,495                         | \$ 28,369                          | \$ 315,126  | 3                                  |
| 21 | *   | *                | *                                  | *                                  | *   | *                                  |
| 22 | *   | *                | *                                  | *                                  | *   | *                                  |
| 23 | *   | *                | *                                  | *                                  | *   | *                                  |
| 24 | 1758  | 1628             | \$ 376,813                         | \$ 38,985                          | \$ 337,828  | 158                                |
| 25 | 1759  | 745              | \$ 353,554                         | \$ 15,714                          | \$ 337,840  | 159                                |
| 26 | 1760  | 119              | \$ 343,009                         | \$ 5,109                           | \$ 337,900  | 160                                |
| 27 | *   | *                | *                                  | *                                  | *   | *                                  |
| 28 | *   | *                | *                                  | *                                  | *   | *                                  |
| 29 | *   | *                | *                                  | *                                  | *   | *                                  |
| 30 | 3198  | 2796             | \$ 845,115                         | \$ -                               | \$ 845,115  |                                    |
| 31 | 3199  | 824              | \$ 853,210                         | \$ -                               | \$ 853,210  |                                    |
| 32 | 3200  | 2928             | \$ 882,475                         | \$ -                               | \$ 882,475  |                                    |
| 33 |   |                  |                                    |                                    |   |                                    |
| 34 | <b>Average (3,200 Games)</b>  |                  | <b>\$ 347,955</b>                  | <b>\$ 45,443</b>                   | <b>\$ 302,513</b>   |                                    |
| 35 | <b>Median (3,200 Games)</b>   |                  | <b>\$ 341,570</b>                  | <b>\$ 23,504</b>                   | <b>\$ 313,232</b>   |                                    |
| 36 |   |                  |                                    |                                    |   |                                    |
| 37 | <b>Average to RAM2015 (\$000)</b>   |                  | <b>\$ 340,317</b>                  | <b>\$ 26,320</b>                   | <b>\$ 313,998</b>   |                                    |
| 38 | <b>(160 Above, 160 Below Median Net Secondary Revenue)</b>  |                  |                                    |                                    |   |                                    |
| 39 |   |                  |                                    |                                    |   |                                    |
| 40 |   |                  |                                    |                                    |   |                                    |
| 41 | <b>Redispatch of Transmission Exp. (\$000)</b>  |                  |                                    | <b>\$ 400</b>                      | <b>\$ 400</b>   |                                    |
| 42 |   |                  |                                    |                                    |   |                                    |
| 43 | <b>Total Median Sales/Purchases to RAM (\$000)</b>  |                  | <b>\$ 340,317</b>                  | <b>\$ 26,720</b>                   | <b>\$ 313,598</b>   |                                    |

|    | A  | B               | C               | D                | E                | F                | G                | H                | I                | J                | K                | L                | M               | N                   |
|----|--|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------|---------------------|
| 1  | <b>Table 20: Secondary Sales</b>           |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                 |                     |
| 2  |  |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                 |                     |
| 3  | <b>Secondary Sales FY 2014</b>             |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                 |                     |
| 4  |  |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                 |                     |
| 5  |  | <b>Oct</b>      | <b>Nov</b>      | <b>Dec</b>       | <b>Jan</b>       | <b>Feb</b>       | <b>Mar</b>       | <b>Apr</b>       | <b>May</b>       | <b>Jun</b>       | <b>Jul</b>       | <b>Aug</b>       | <b>Sep</b>      | <b>Annual Stats</b> |
| 6  | Monthly Hours                              | 744             | 721             | 744              | 744              | 672              | 743              | 720              | 744              | 720              | 744              | 744              | 720             | 8,760               |
| 7  | Surplus Sales Total (aMW)                  | 294             | 556             | 592              | 1,413            | 1,404            | 1,924            | 2,546            | 4,091            | 4,039            | 1,878            | 862              | 339             | 1,661               |
| 8  | <b>Surplus Sales Revenue Total (\$000)</b> | <b>\$ 3,055</b> | <b>\$ 5,804</b> | <b>\$ 5,403</b>  | <b>\$ 25,917</b> | <b>\$ 22,803</b> | <b>\$ 38,044</b> | <b>\$ 47,012</b> | <b>\$ 52,848</b> | <b>\$ 54,697</b> | <b>\$ 42,597</b> | <b>\$ 17,483</b> | <b>\$ 6,489</b> | <b>\$ 322,152</b>   |
| 9  |  |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                 |                     |
| 10 |  |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                 |                     |
| 11 | Committed Sales (aMW)                      |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                 |                     |
| 12 | <b>Committed Sales Revenue</b>             |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                 |                     |
| 13 |  |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                 |                     |
| 14 | Total Surplus Sales aMW                    | 294             | 556             | 592              | 1,413            | 1,404            | 1,924            | 2,546            | 4,091            | 4,039            | 1,878            | 862              | 339             | 1,661               |
| 15 | <b>Total Surplus Sales Revenue (\$000)</b> | <b>\$ 3,055</b> | <b>\$ 5,804</b> | <b>\$ 5,403</b>  | <b>\$ 25,917</b> | <b>\$ 22,803</b> | <b>\$ 38,044</b> | <b>\$ 47,012</b> | <b>\$ 52,848</b> | <b>\$ 54,697</b> | <b>\$ 42,597</b> | <b>\$ 17,483</b> | <b>\$ 6,489</b> | <b>\$ 322,152</b>   |
| 16 |  |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                 |                     |
| 17 | <b>Secondary Sales FY 2015</b>             |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                 |                     |
| 18 |  |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                 |                     |
| 19 |  |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                 |                     |
| 20 |  | <b>Oct</b>      | <b>Nov</b>      | <b>Dec</b>       | <b>Jan</b>       | <b>Feb</b>       | <b>Mar</b>       | <b>Apr</b>       | <b>May</b>       | <b>Jun</b>       | <b>Jul</b>       | <b>Aug</b>       | <b>Sep</b>      | <b>Annual Stats</b> |
| 21 | Monthly Hours                              | 744             | 721             | 744              | 744              | 672              | 743              | 720              | 744              | 720              | 744              | 744              | 720             | 8,760               |
| 22 | Surplus Sales Total (aMW)                  | 402             | 480             | 780              | 1,494            | 1,529            | 2,106            | 2,544            | 3,711            | 3,354            | 1,985            | 1,098            | 354             | 1,654               |
| 23 | <b>Surplus Sales Revenue Total (\$000)</b> | <b>\$ 6,239</b> | <b>\$ 5,736</b> | <b>\$ 12,098</b> | <b>\$ 28,197</b> | <b>\$ 28,179</b> | <b>\$ 40,559</b> | <b>\$ 44,067</b> | <b>\$ 46,400</b> | <b>\$ 50,961</b> | <b>\$ 47,174</b> | <b>\$ 24,796</b> | <b>\$ 5,911</b> | <b>\$ 340,317</b>   |
| 24 |  |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                 |                     |
| 25 |  |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                 |                     |
| 26 | Committed Sales (aMW)                      |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                 |                     |
| 27 | <b>Committed Sales Revenue</b>             |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                 |                     |
| 28 |  |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                 |                     |
| 29 | Total Surplus Sales aMW                    | 402             | 480             | 780              | 1,494            | 1,529            | 2,106            | 2,544            | 3,711            | 3,354            | 1,985            | 1,098            | 354             | 1,654               |
| 30 | <b>Total Surplus Sales Revenue (\$000)</b> | <b>\$ 6,239</b> | <b>\$ 5,736</b> | <b>\$ 12,098</b> | <b>\$ 28,197</b> | <b>\$ 28,179</b> | <b>\$ 40,559</b> | <b>\$ 44,067</b> | <b>\$ 46,400</b> | <b>\$ 50,961</b> | <b>\$ 47,174</b> | <b>\$ 24,796</b> | <b>\$ 5,911</b> | <b>\$ 340,317</b>   |

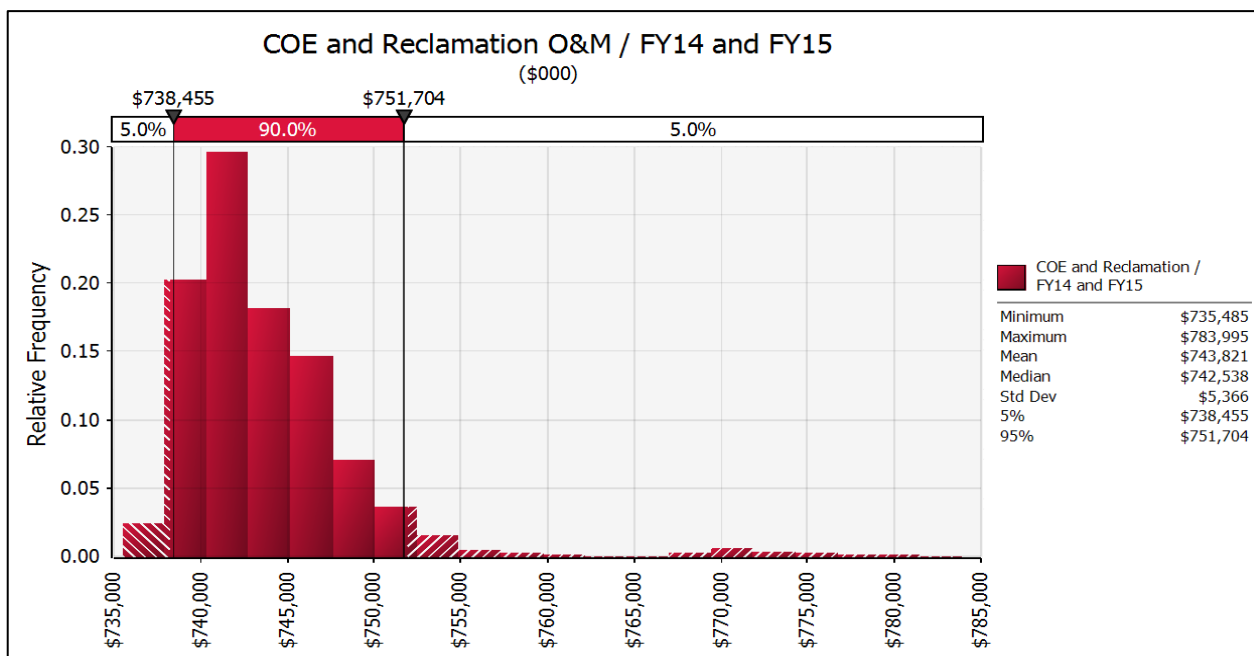
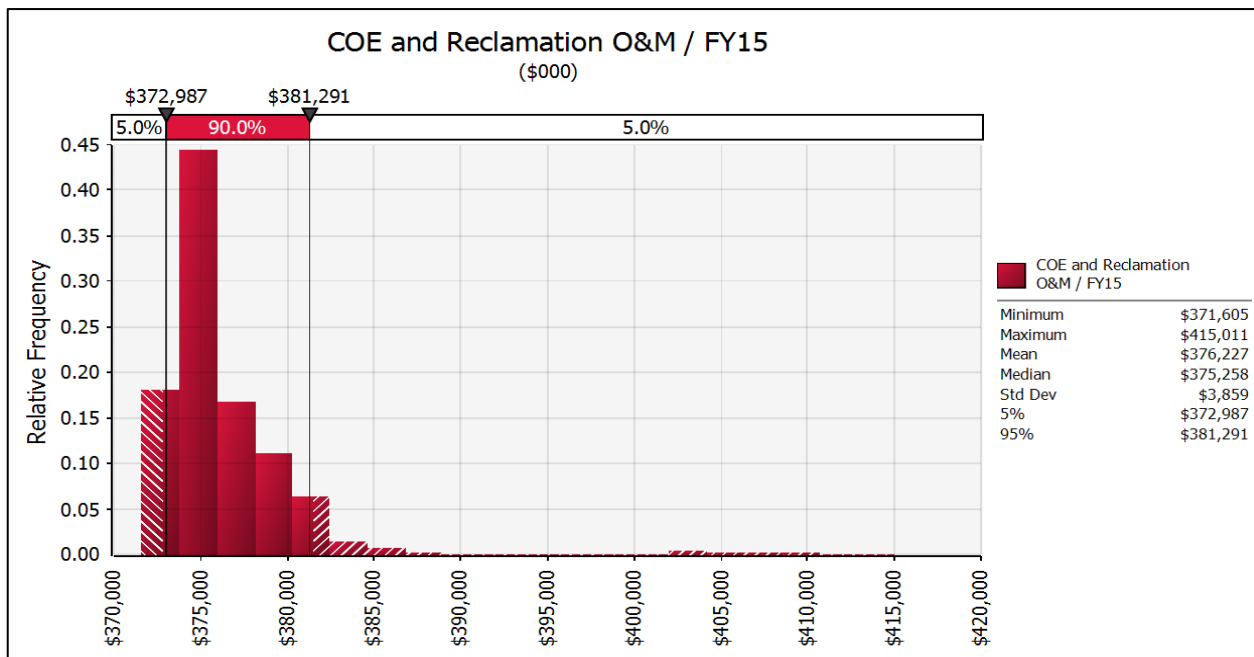
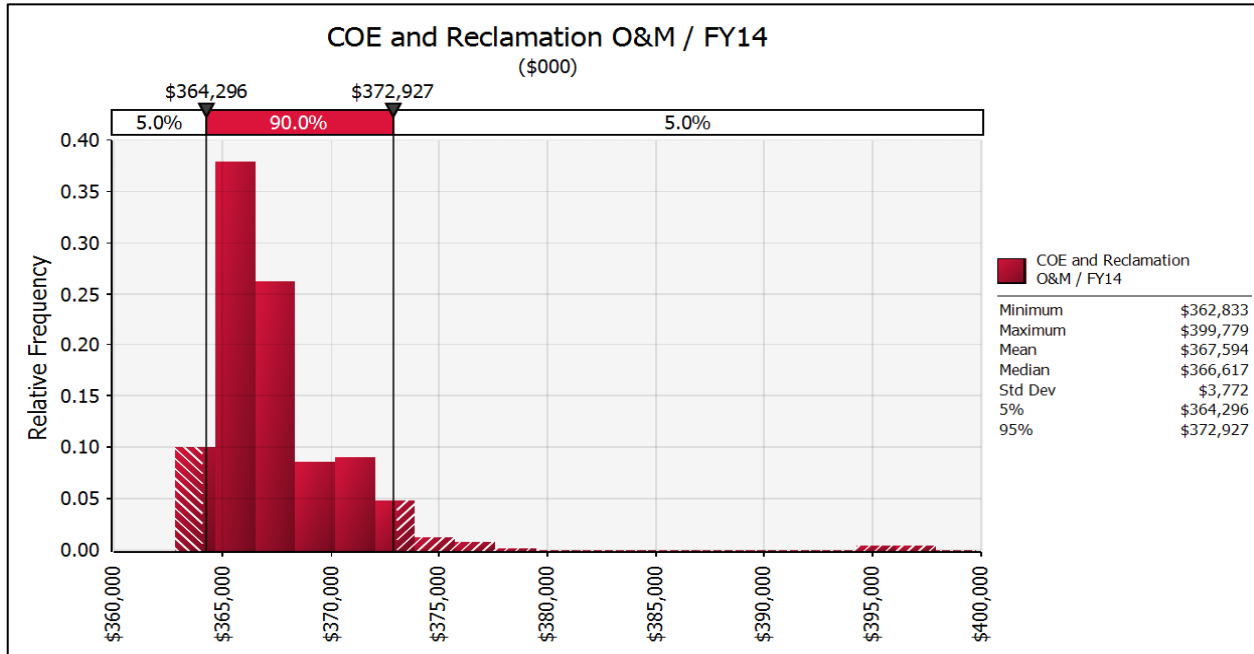
|    | A  | B               | C               | D               | E               | F               | G             | H            | I            | J            | K             | L               | M               | N                   |
|----|--|-----------------|-----------------|-----------------|-----------------|-----------------|---------------|--------------|--------------|--------------|---------------|-----------------|-----------------|---------------------|
| 1  | <b>Table 21: Balancing Purchases</b>               |                 |                 |                 |                 |                 |               |              |              |              |               |                 |                 |                     |
| 2  |  |                 |                 |                 |                 |                 |               |              |              |              |               |                 |                 |                     |
| 3  | <b>Balancing Purchases FY 2014</b>                 |                 |                 |                 |                 |                 |               |              |              |              |               |                 |                 |                     |
| 4  |  |                 |                 |                 |                 |                 |               |              |              |              |               |                 |                 |                     |
| 5  |  | <b>Oct</b>      | <b>Nov</b>      | <b>Dec</b>      | <b>Jan</b>      | <b>Feb</b>      | <b>Mar</b>    | <b>Apr</b>   | <b>May</b>   | <b>Jun</b>   | <b>Jul</b>    | <b>Aug</b>      | <b>Sep</b>      | <b>Annual Stats</b> |
| 6  | Monthly Hours                                      | 744             | 721             | 744             | 744             | 672             | 743           | 720          | 744          | 720          | 744           | 744             | 720             | 8,760               |
| 7  | Balancing Purchases (aMW)                          | 178             | 127             | 335             | 416             | 391             | 100           | 51           | 0            | 2            | 27            | 81              | 180             | 156                 |
| 8  | <b>Purchase Expense Total (\$000)</b>              | <b>\$ 4,578</b> | <b>\$ 4,813</b> | <b>\$ 7,600</b> | <b>\$ 2,810</b> | <b>\$ 2,578</b> | <b>\$ 575</b> | <b>\$ 23</b> | <b>\$ -</b>  | <b>\$ -</b>  | <b>\$ 207</b> | <b>\$ 663</b>   | <b>\$ 3,175</b> | <b>\$ 27,021</b>    |
| 9  |  |                 |                 |                 |                 |                 |               |              |              |              |               |                 |                 |                     |
| 10 |  |                 |                 |                 |                 |                 |               |              |              |              |               |                 |                 |                     |
| 11 | Transmission re-dispatch for Gen Inputs adjustment | \$ 33           | \$ 33           | \$ 33           | \$ 33           | \$ 33           | \$ 33         | \$ 33        | \$ 33        | \$ 33        | \$ 33         | \$ 33           | \$ 33           | \$ 400              |
| 12 |  |                 |                 |                 |                 |                 |               |              |              |              |               |                 |                 |                     |
| 13 | Total Balancing Purchases aMW                      | 178             | 127             | 335             | 416             | 391             | 100           | 51           | -            | 2            | 27            | 81              | 180             | 156                 |
| 14 | <b>Total Purchase Expense (\$000)</b>              | <b>\$ 4,611</b> | <b>\$ 4,846</b> | <b>\$ 7,633</b> | <b>\$ 2,843</b> | <b>\$ 2,612</b> | <b>\$ 608</b> | <b>\$ 56</b> | <b>\$ 33</b> | <b>\$ 33</b> | <b>\$ 240</b> | <b>\$ 697</b>   | <b>\$ 3,208</b> | <b>\$ 27,421</b>    |
| 15 | <b>Balancing Purchases FY 2015</b>                 |                 |                 |                 |                 |                 |               |              |              |              |               |                 |                 |                     |
| 16 |  |                 |                 |                 |                 |                 |               |              |              |              |               |                 |                 |                     |
| 17 |  |                 |                 |                 |                 |                 |               |              |              |              |               |                 |                 |                     |
| 18 |  |                 |                 |                 |                 |                 |               |              |              |              |               |                 |                 |                     |
| 19 |  | <b>Oct</b>      | <b>Nov</b>      | <b>Dec</b>      | <b>Jan</b>      | <b>Feb</b>      | <b>Mar</b>    | <b>Apr</b>   | <b>May</b>   | <b>Jun</b>   | <b>Jul</b>    | <b>Aug</b>      | <b>Sep</b>      | <b>Annual Stats</b> |
| 20 | Monthly Hours                                      | 744             | 721             | 744             | 744             | 672             | 743           | 720          | 744          | 720          | 744           | 744             | 720             | 8,760               |
| 21 | Balancing Purchases (aMW)                          | 126             | 119             | 268             | 301             | 323             | 56            | 42           | 0            | 65           | 64            | 84              | 313             | 145                 |
| 22 | <b>Purchase Expense (\$000)</b>                    | <b>\$ 2,743</b> | <b>\$ 4,732</b> | <b>\$ 5,872</b> | <b>\$ 1,335</b> | <b>\$ 3,079</b> | <b>\$ 557</b> | <b>\$ 42</b> | <b>\$ -</b>  | <b>\$ -</b>  | <b>\$ 396</b> | <b>\$ 1,269</b> | <b>\$ 6,294</b> | <b>\$ 26,320</b>    |
| 23 |  |                 |                 |                 |                 |                 |               |              |              |              |               |                 |                 |                     |
| 24 |  |                 |                 |                 |                 |                 |               |              |              |              |               |                 |                 |                     |
| 25 | Transmission re-dispatch for Gen Inputs adjustment | \$ 33           | \$ 33           | \$ 33           | \$ 33           | \$ 33           | \$ 33         | \$ 33        | \$ 33        | \$ 33        | \$ 33         | \$ 33           | \$ 33           | \$ 400              |
| 26 |  |                 |                 |                 |                 |                 |               |              |              |              |               |                 |                 |                     |
| 27 | Total Balancing Purchases aMW                      | 126             | 119             | 268             | 301             | 323             | 56            | 42           | -            | 65           | 64            | 84              | 313             | 145                 |
| 28 | <b>Total Purchase Expense (\$000)</b>              | <b>\$ 2,777</b> | <b>\$ 4,766</b> | <b>\$ 5,905</b> | <b>\$ 1,368</b> | <b>\$ 3,113</b> | <b>\$ 591</b> | <b>\$ 75</b> | <b>\$ 33</b> | <b>\$ 33</b> | <b>\$ 430</b> | <b>\$ 1,302</b> | <b>\$ 6,327</b> | <b>\$ 26,720</b>    |

|    | A   | B                 | C                 |
|----|---|-------------------|-------------------|
| 1  | <b>Table 22: Annual Secondary Sales and Balancing Purchases</b> |                   |                   |
| 2  |   | <b>FY 2014</b>    | <b>FY 2015</b>    |
| 3  | <b>Monthly Hours</b>  | <b>8,760</b>      | <b>8,760</b>      |
| 4  | Surplus Sales Total (aMW)                                       | 1,661             | 1,654             |
| 5  | <b>Surplus Sales Revenue Total (\$000)</b>                      | <b>\$ 322,152</b> | <b>\$ 340,317</b> |
| 6  |   |                   |                   |
| 7  | <b>Balancing Purchases (aMW)</b>                                | <b>156</b>        | <b>145</b>        |
| 8  | <b>Purchase Expense Total (\$000)</b>                           | <b>\$ 27,021</b>  | <b>\$ 26,320</b>  |
| 9  | <b>Transmission re-dispatch for Gen Inputs adjustment</b>       | <b>\$ 400</b>     | <b>\$ 400</b>     |
| 10 |   |                   |                   |
| 11 | <b>Total Balancing Purchases aMW</b>                            | <b>1,505</b>      | <b>1,508</b>      |
| 12 | <b>Total Purchase Expense (\$000)</b>                           | <b>\$ 27,421</b>  | <b>\$ 26,720</b>  |

**Figure 14: CGS O&M Distributions**

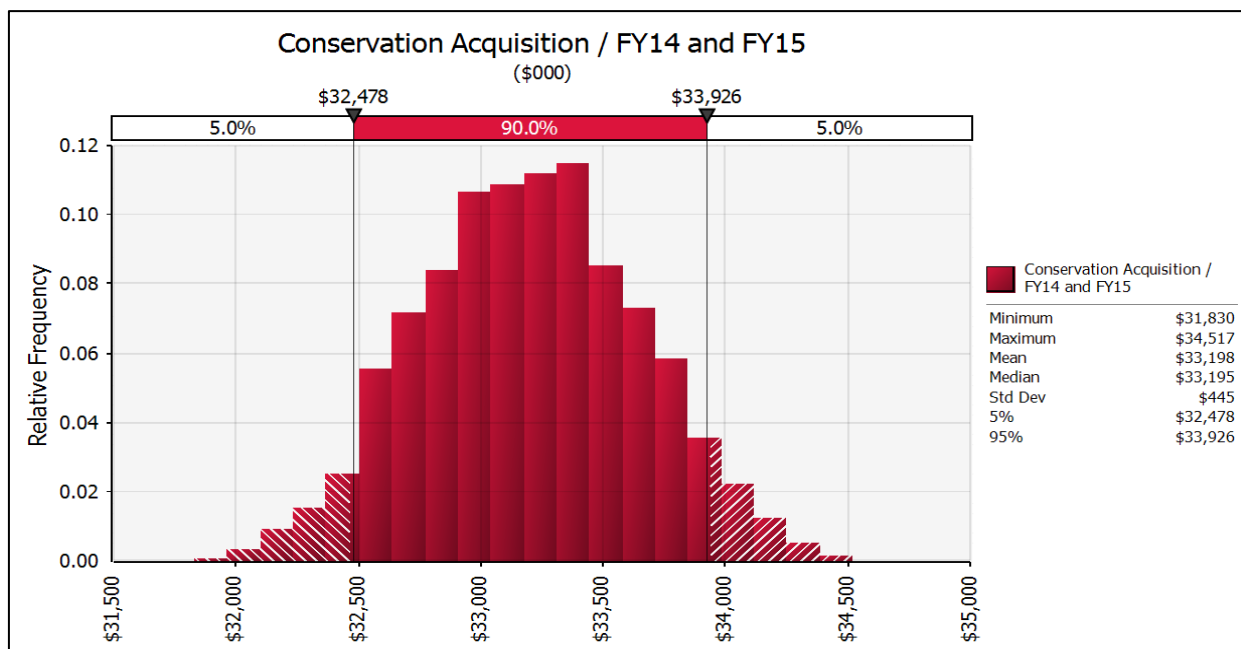
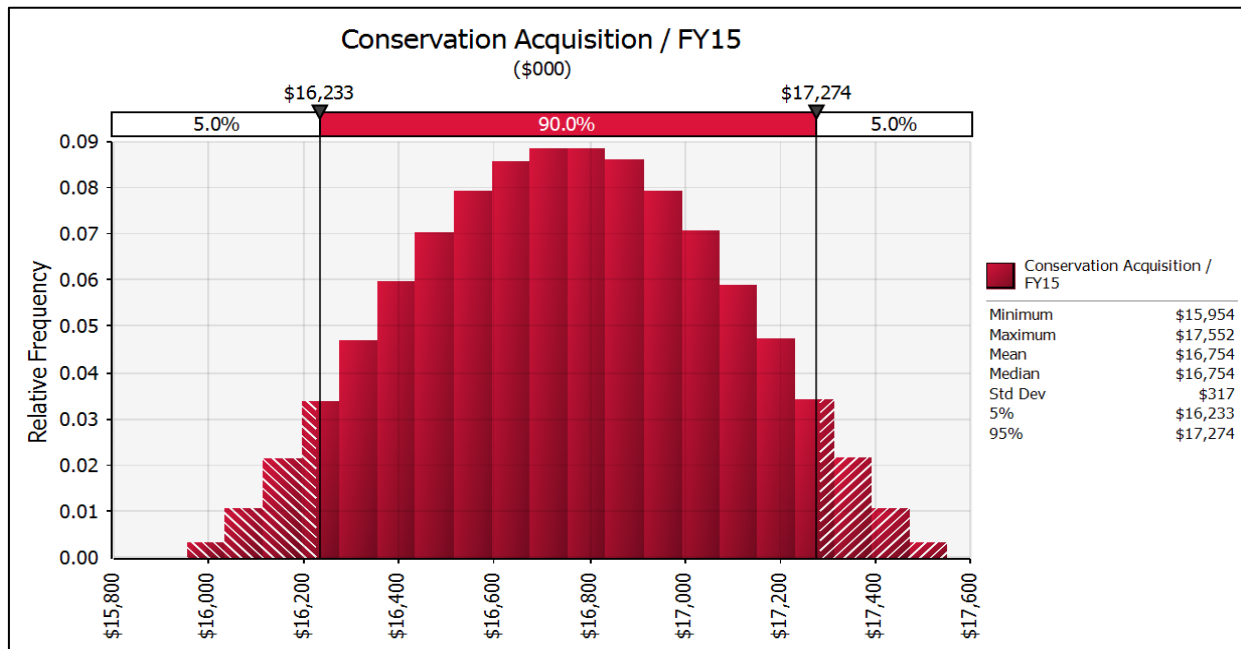
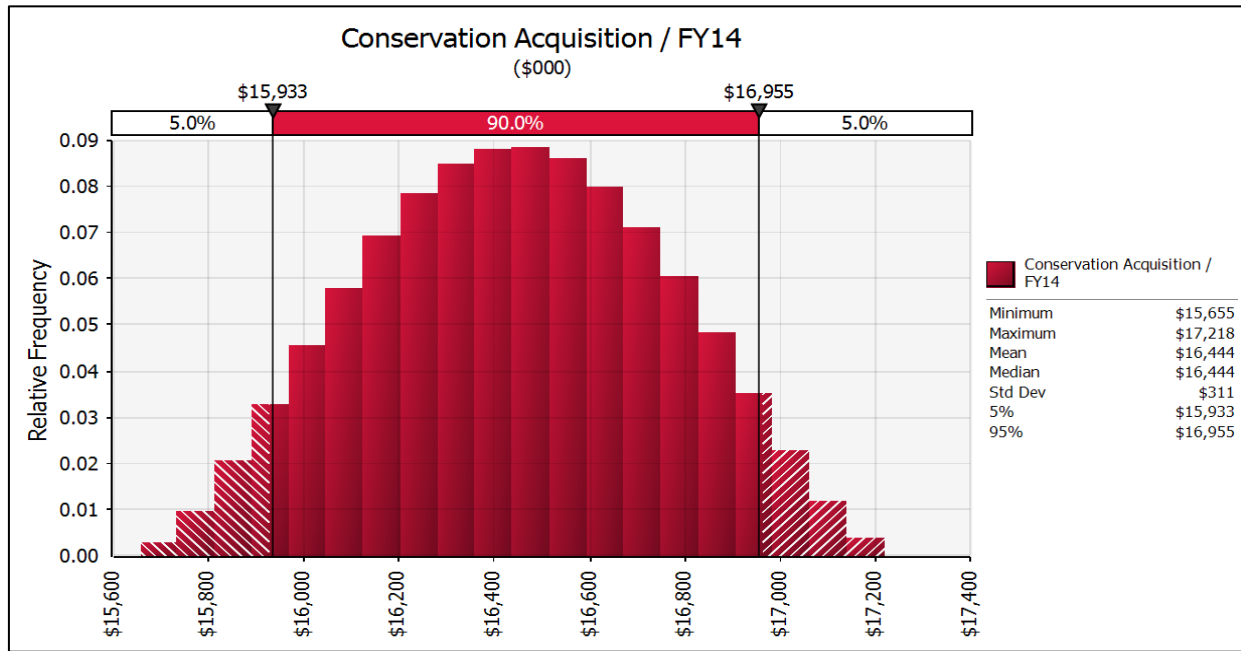


**Figure 15: Corps of Engineers (COE) and Bureau of Reclamation (Reclamation) O&M Distributions**

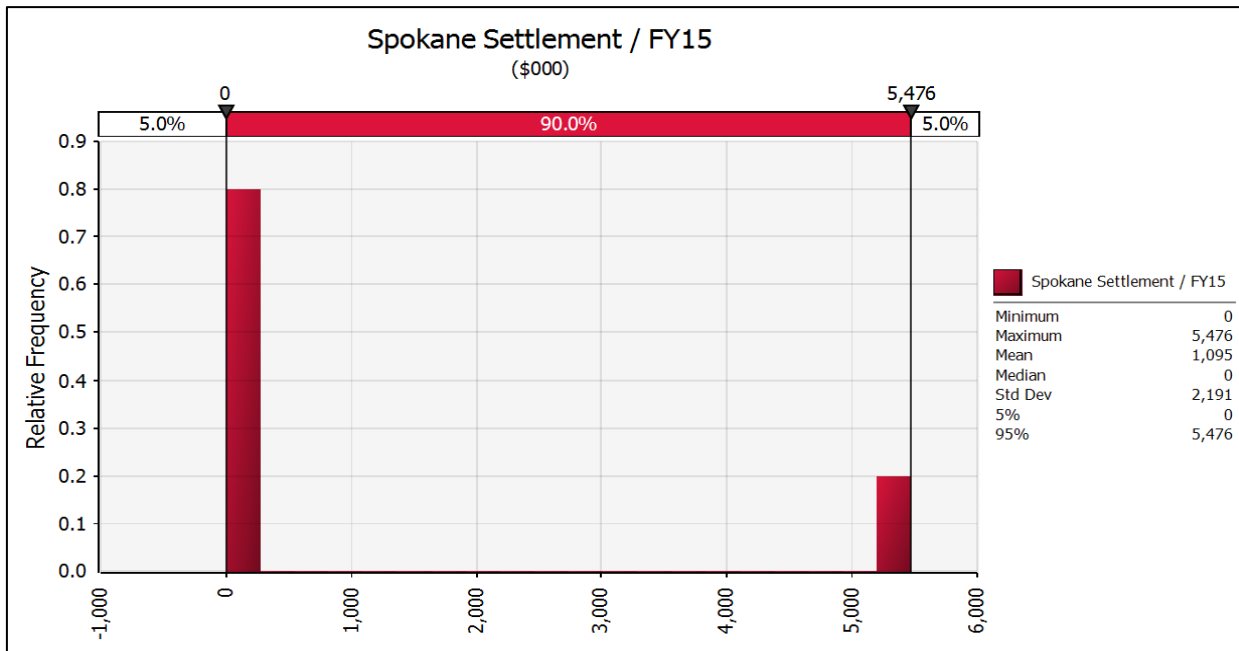




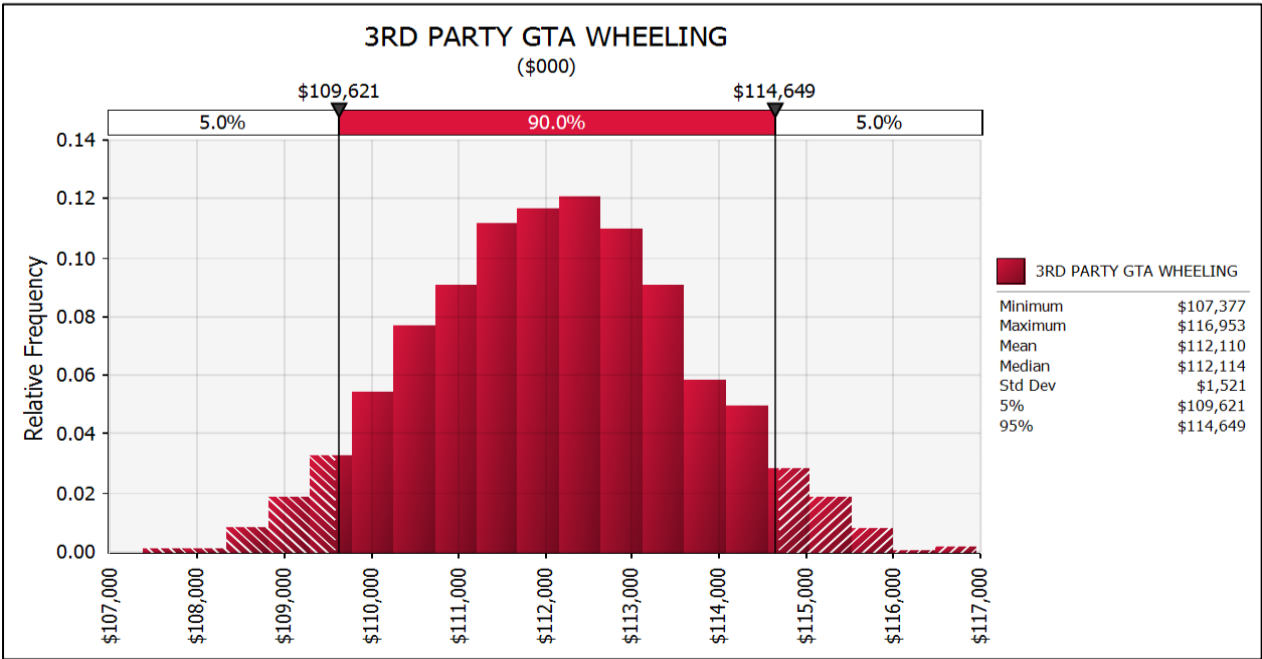
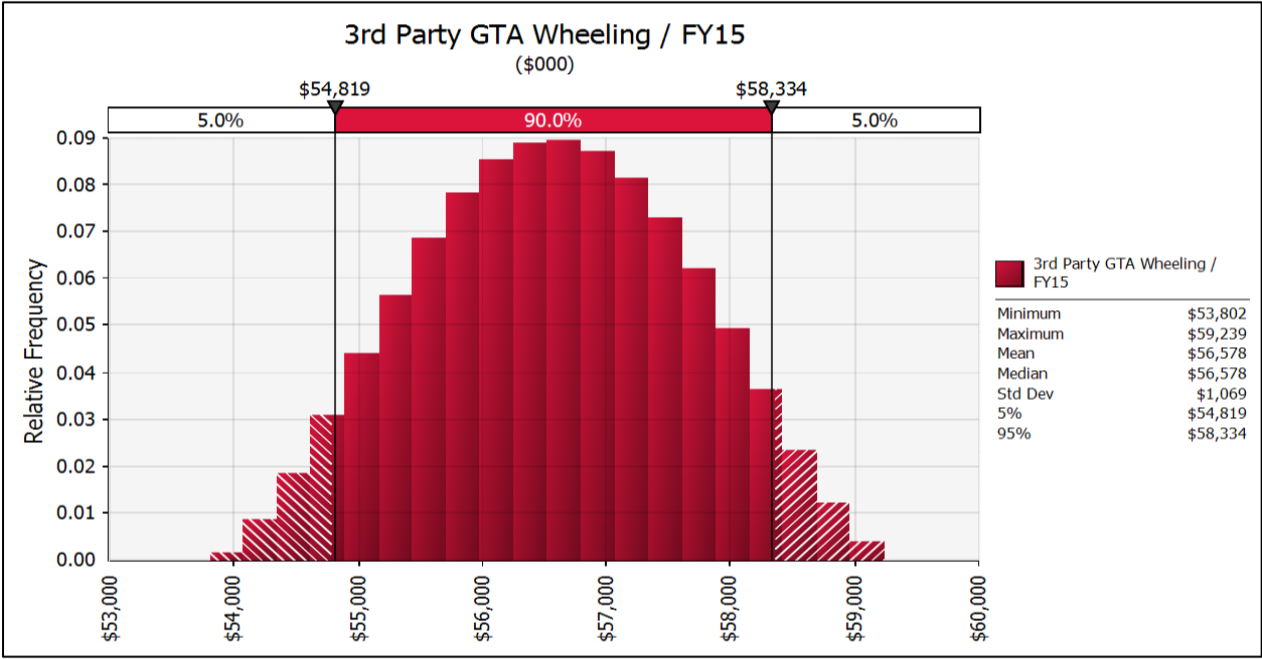
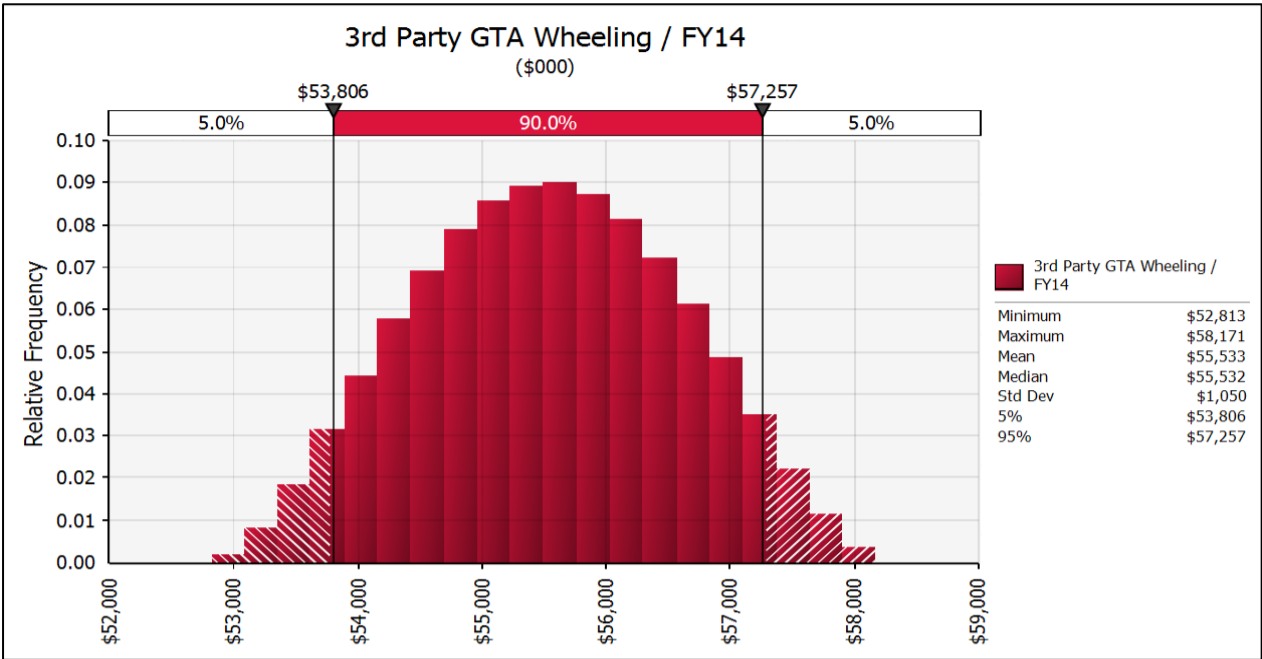
**Figure 16: Conservation Acquisition Expense Distributions**



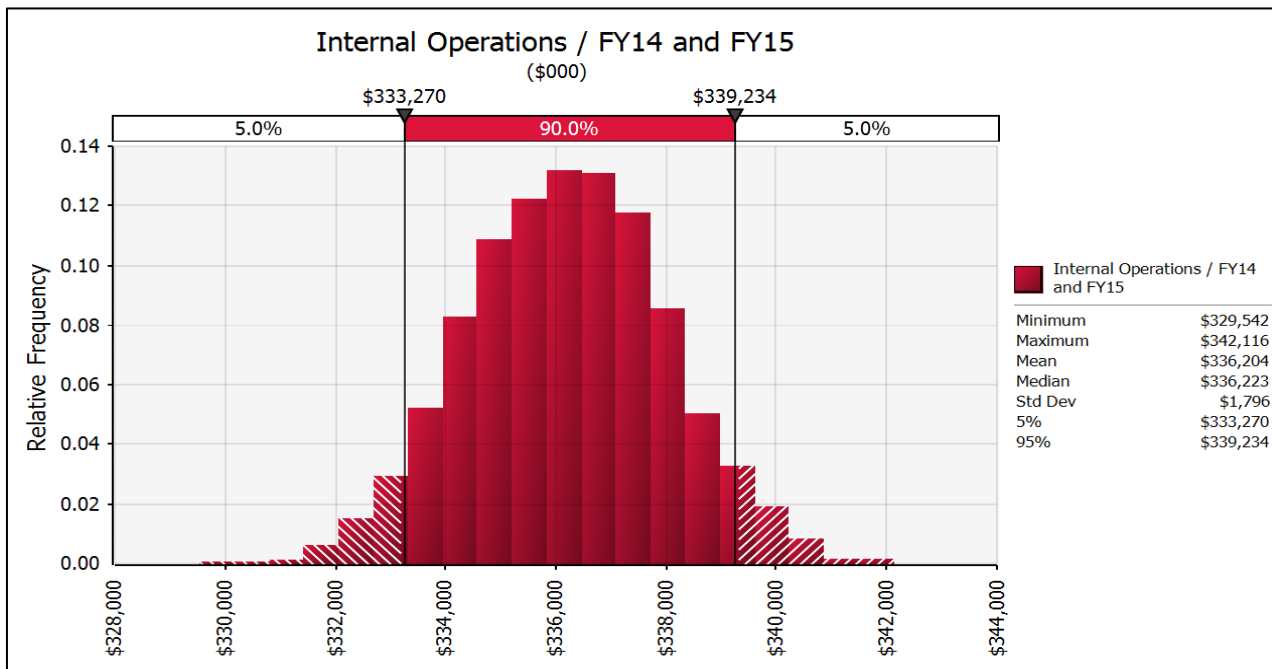
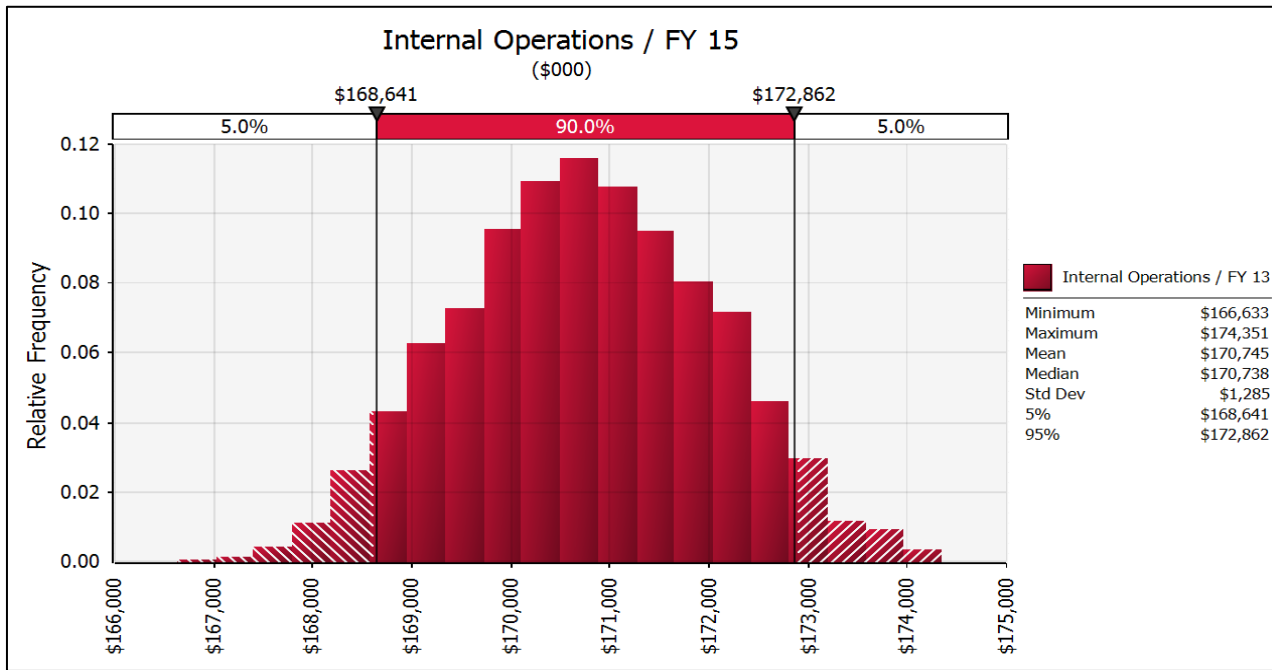
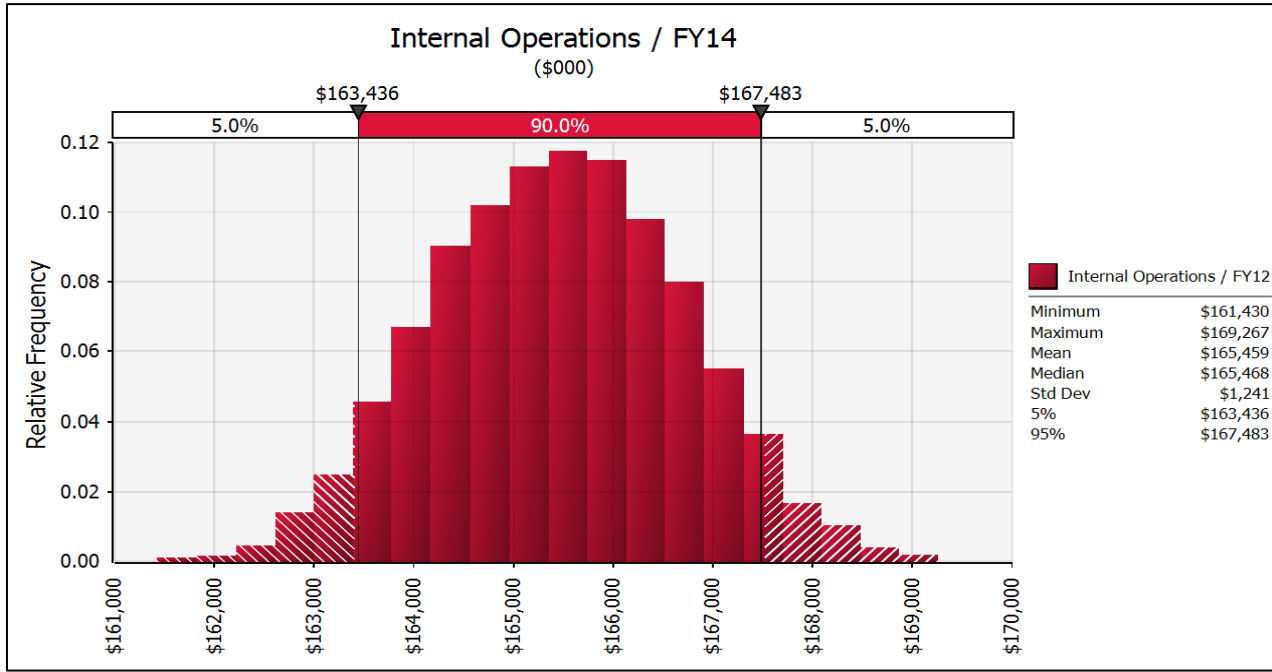
**Figure 17: Spokane Settlement Payment Distributions**



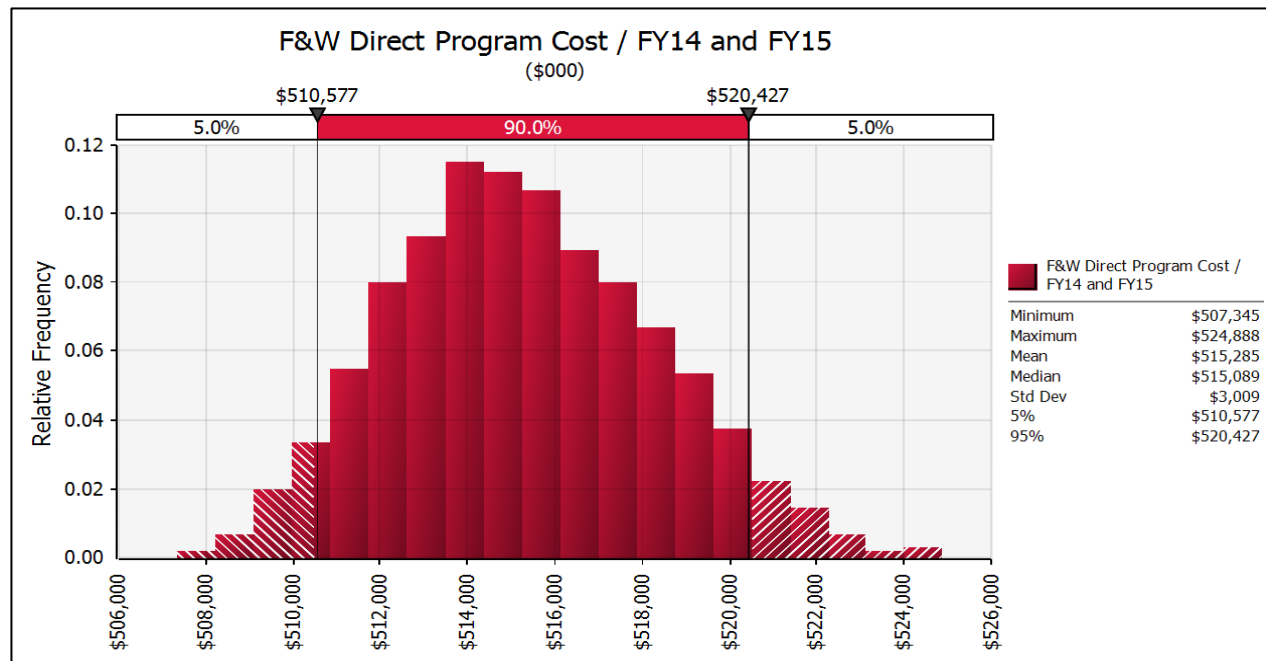
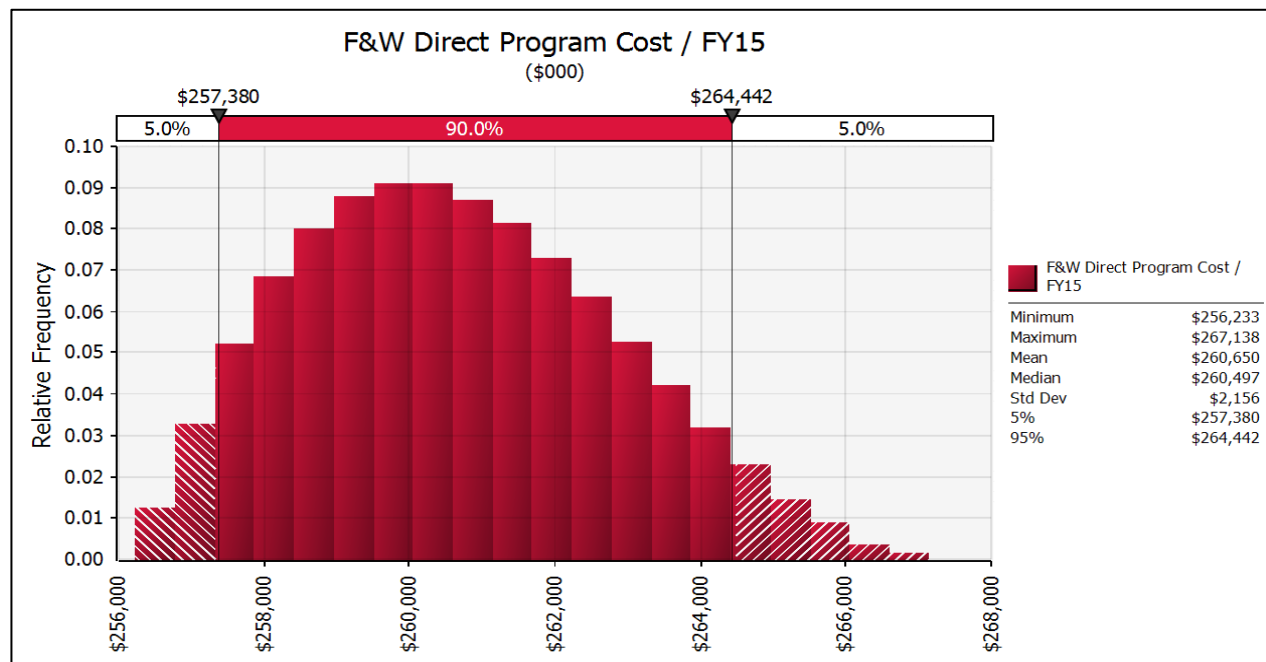
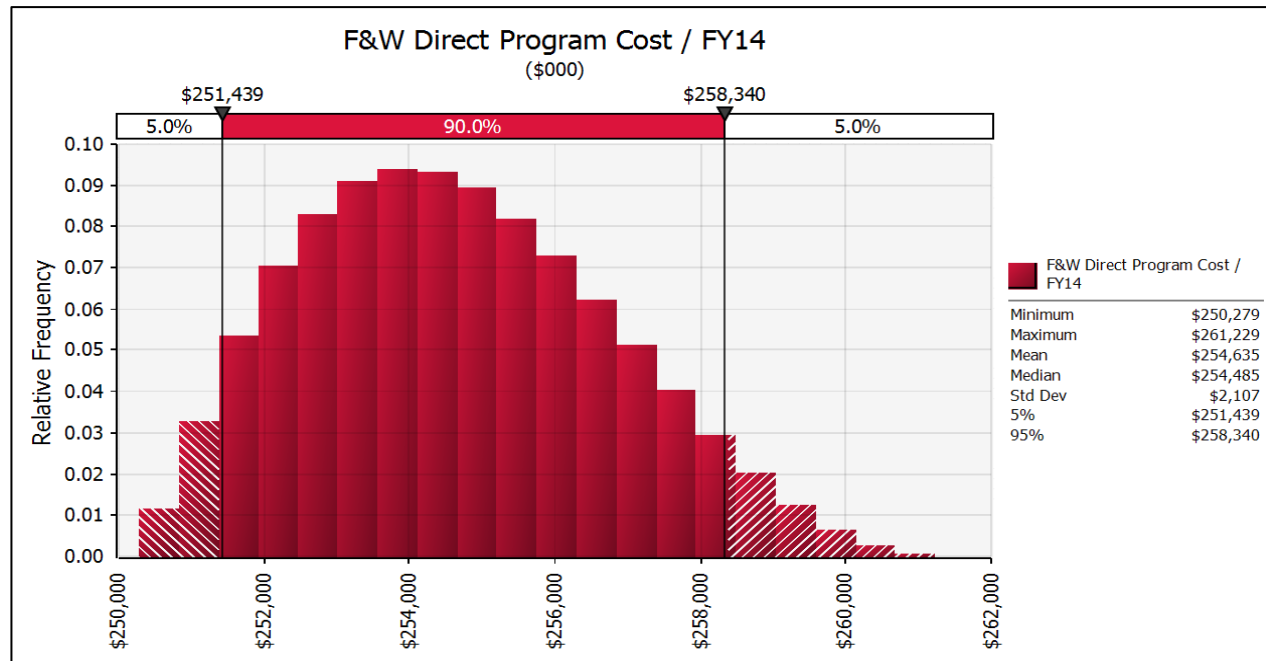
**Figure 18: Third-Party GTA Wheeling Expense**



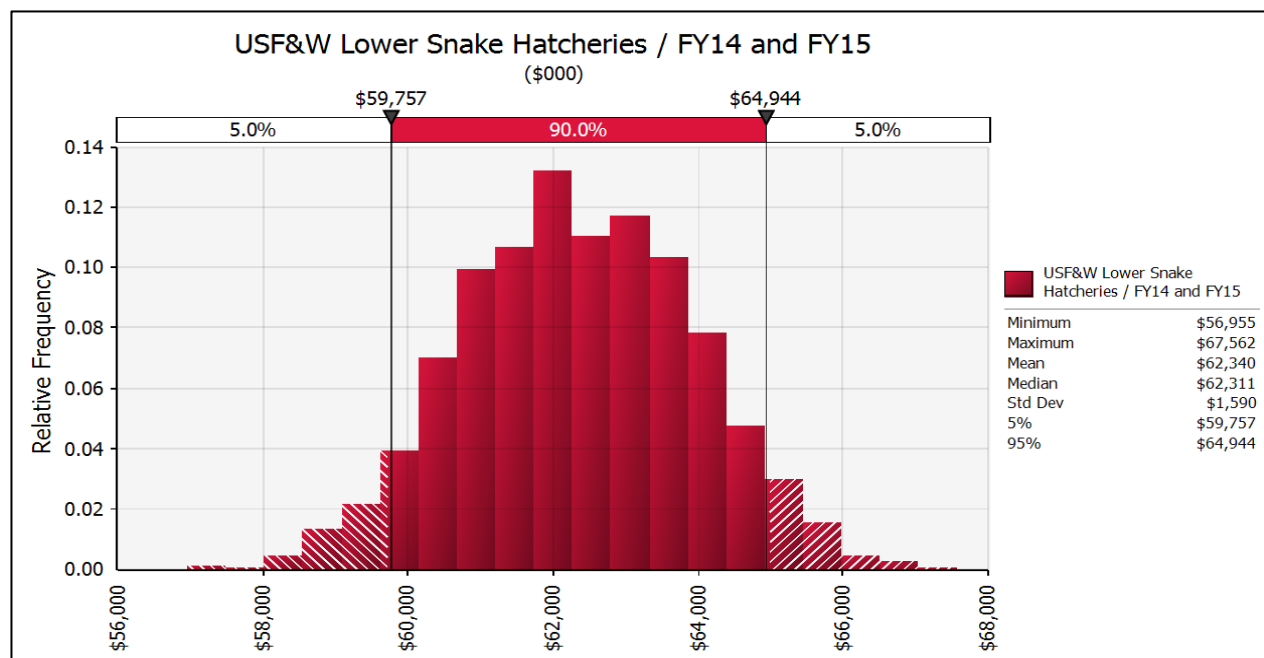
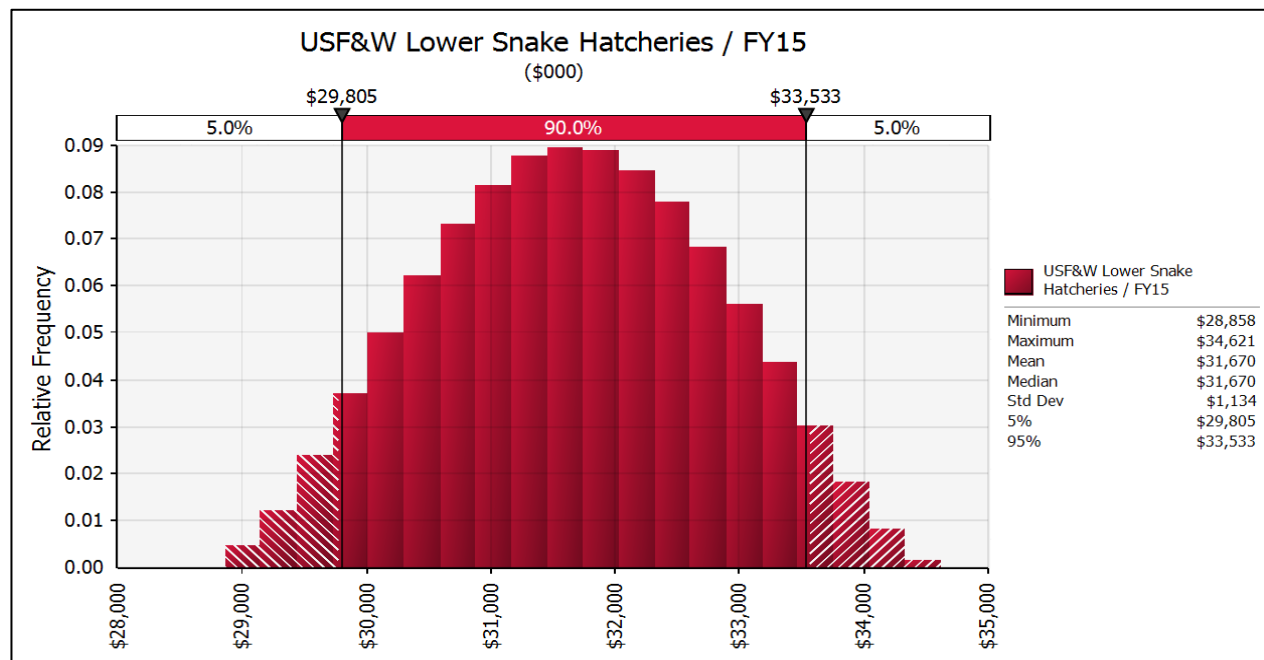
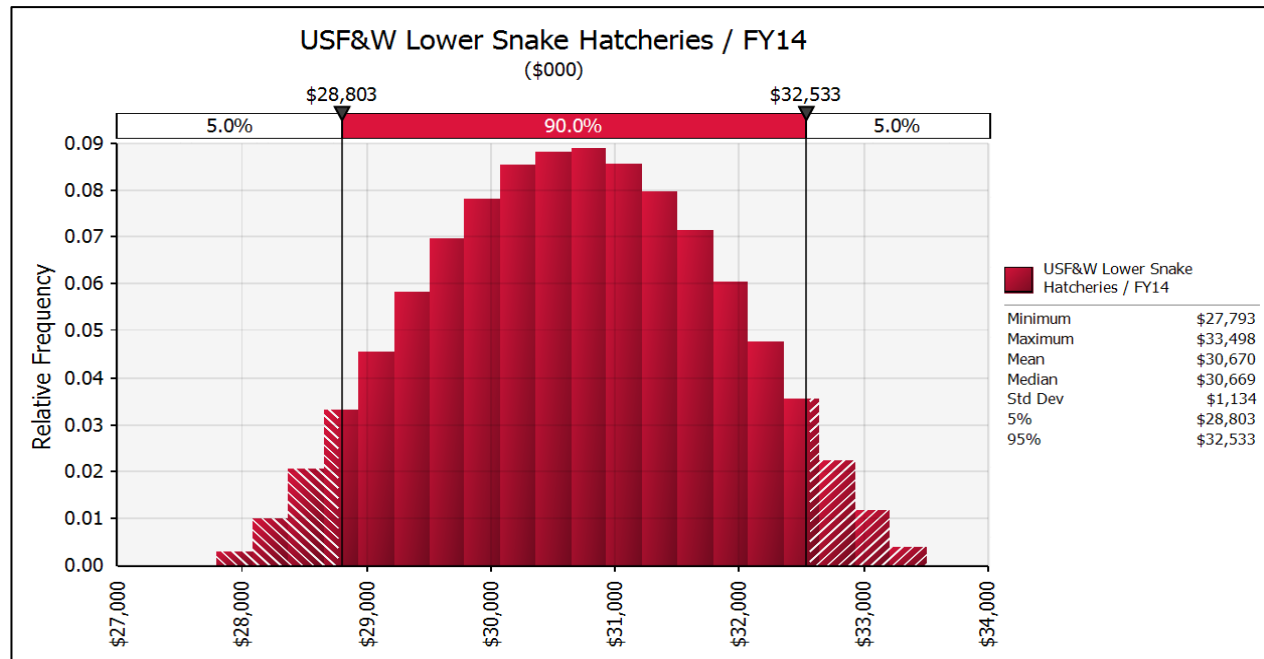
**Figure 19: Internal Operations Expense Distributions**



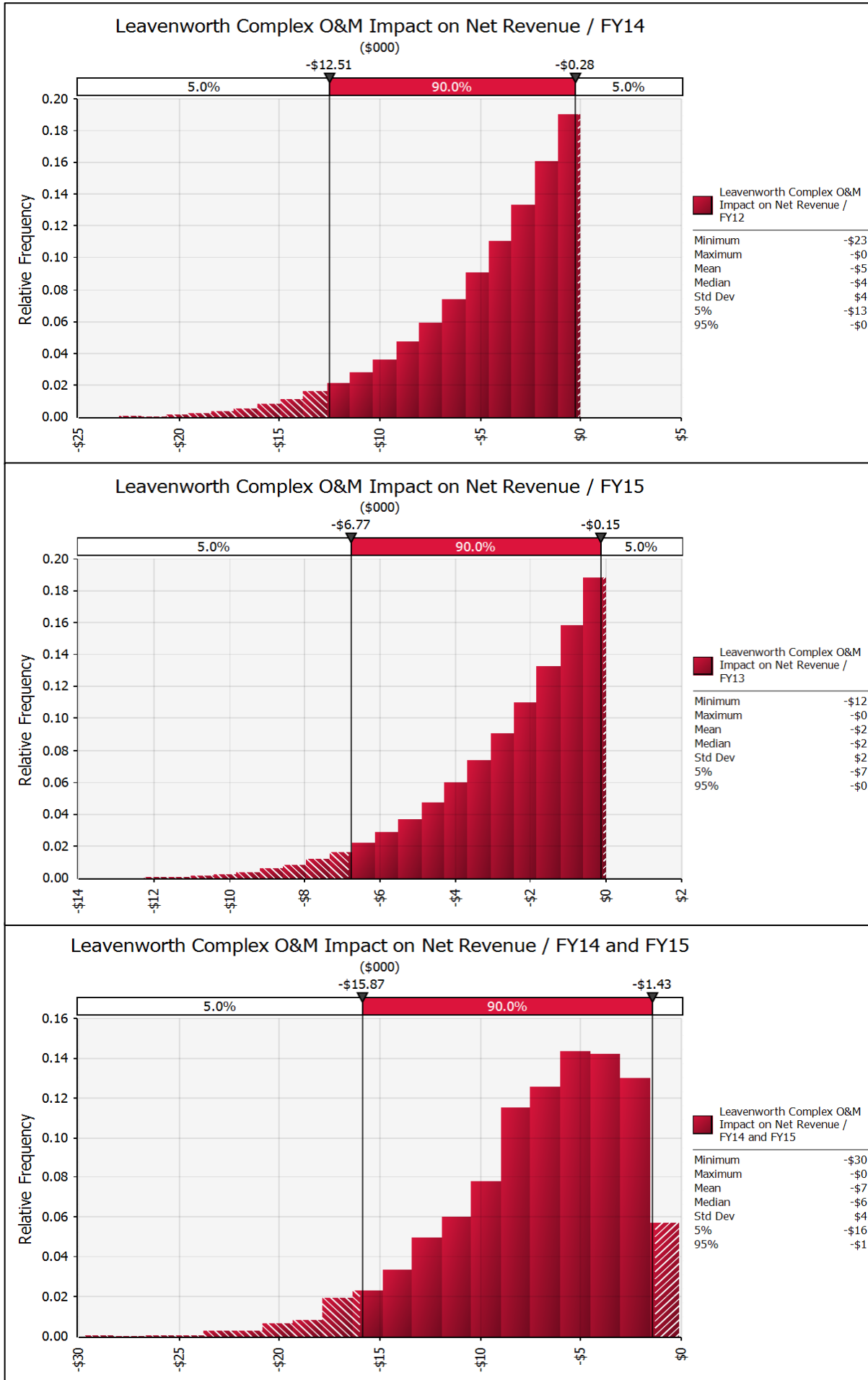
**Figure 20: F&W Direct Program Cost Distributions**



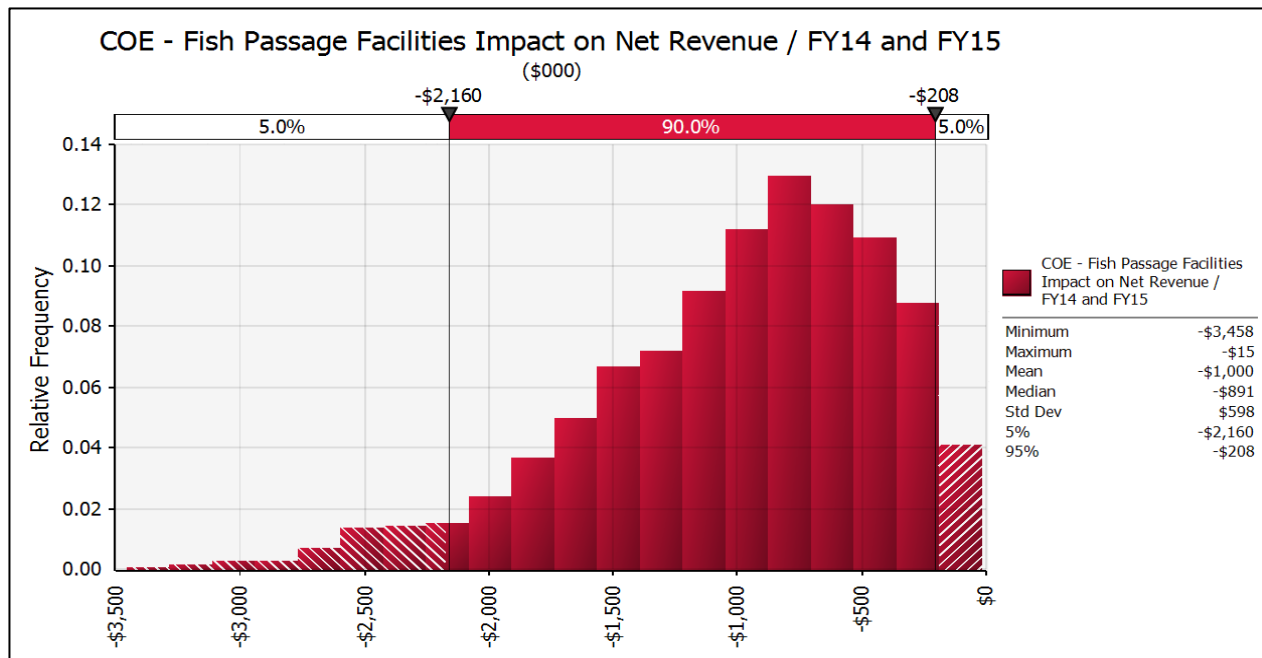
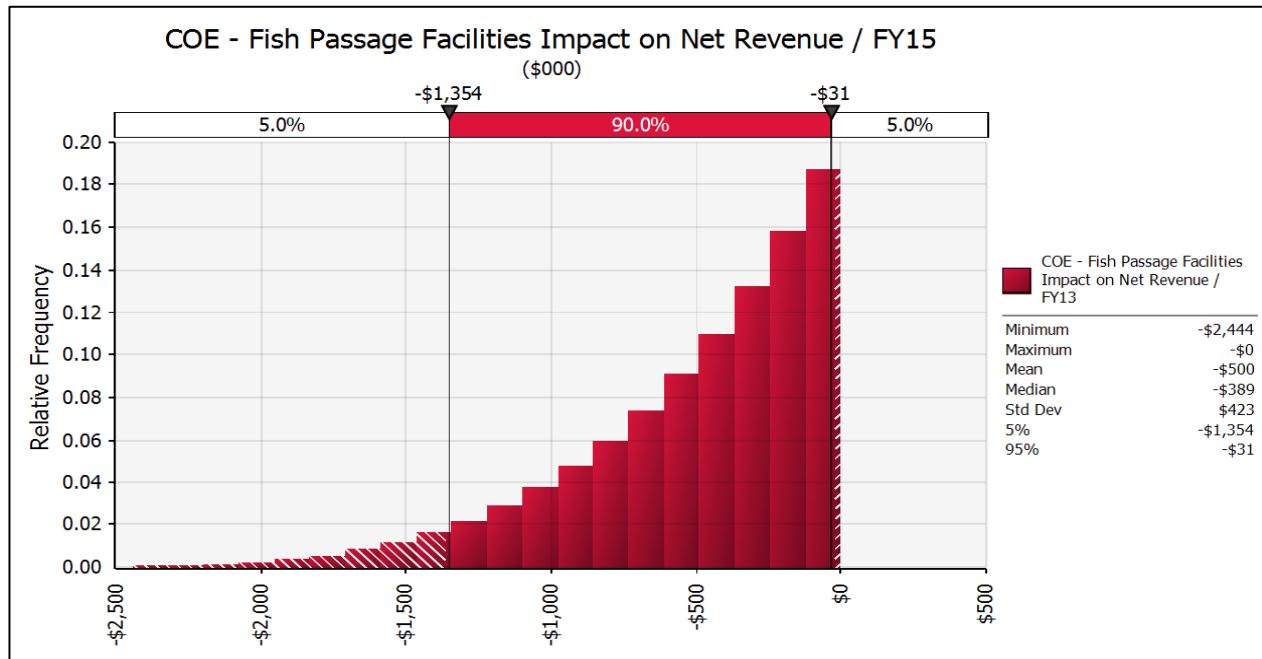
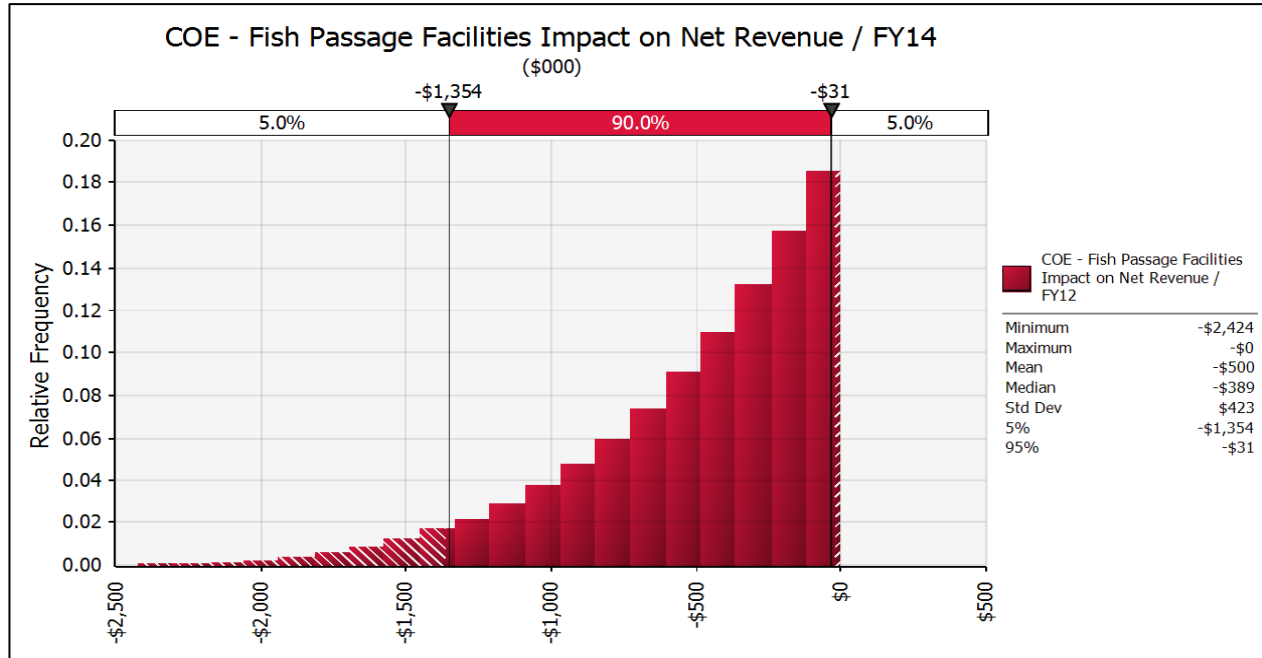
**Figure 21: Lower Snake River Hatcheries Expense Distributions**



**Figure 22: Leavenworth Complex O&M Expense Distributions**

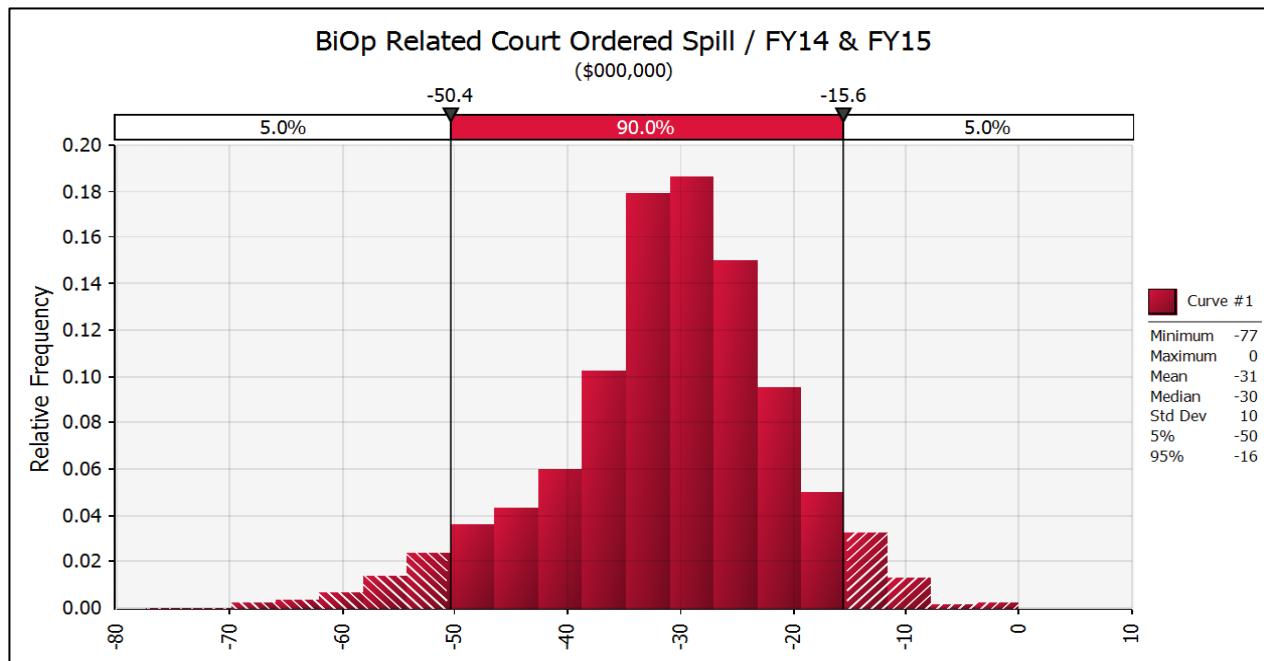
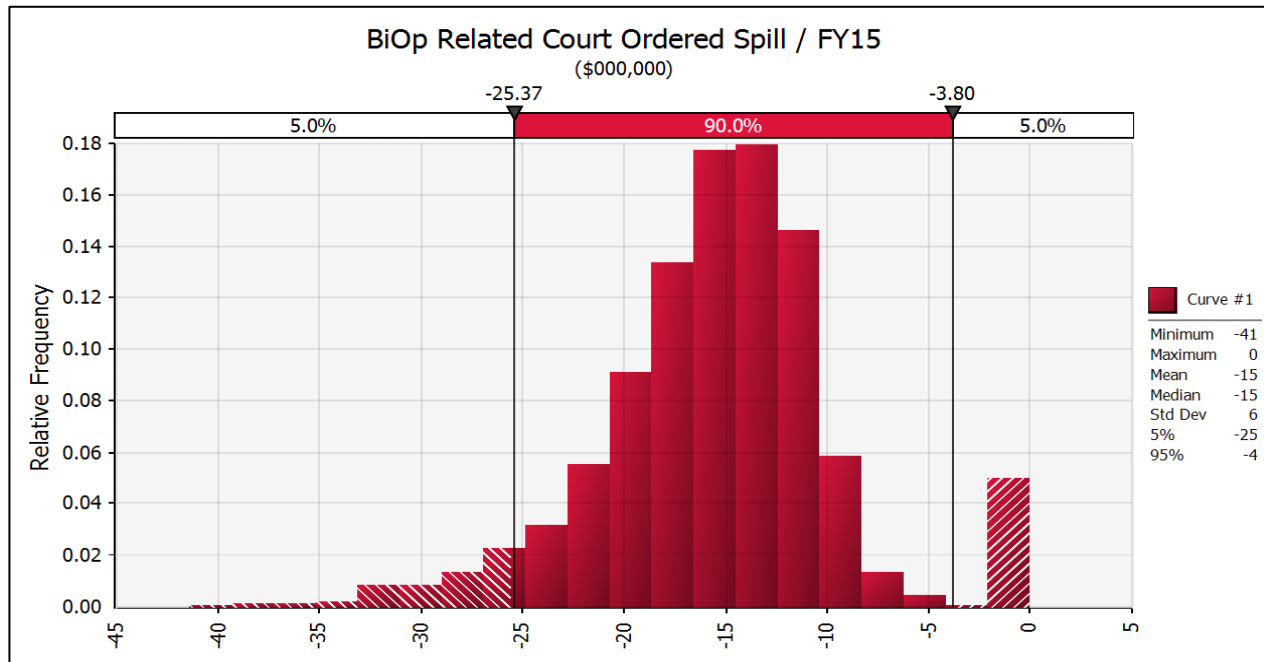
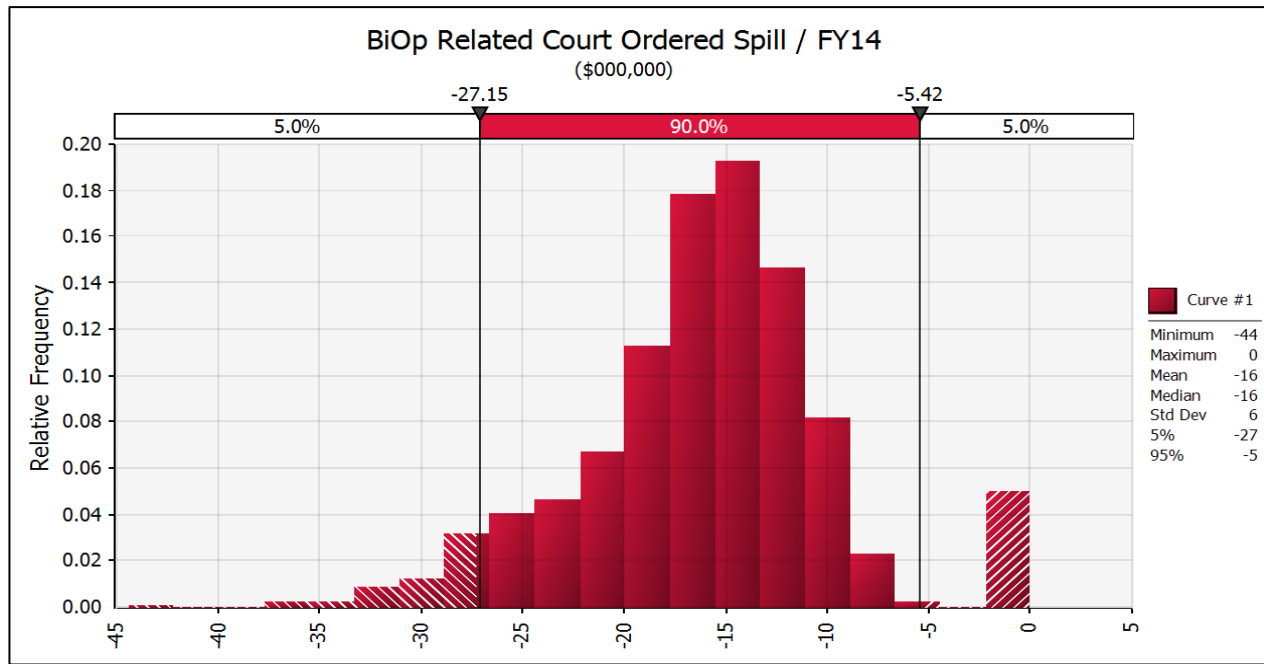


**Figure 23: Fish Passage Facilities Expense Distributions**



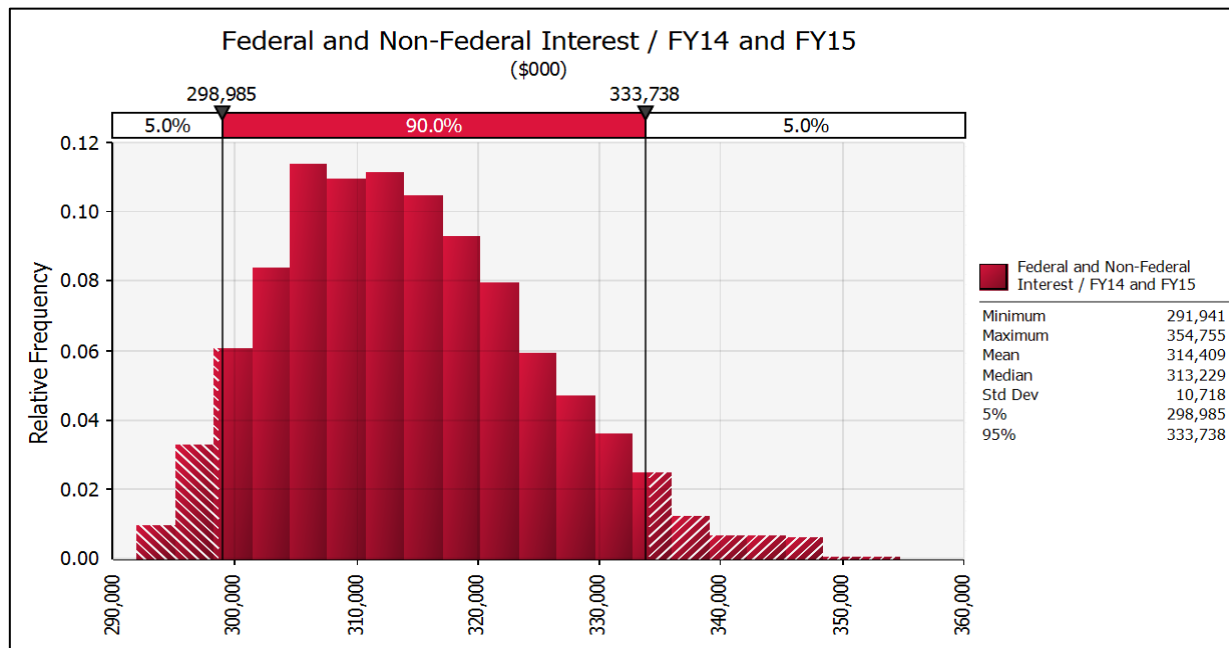
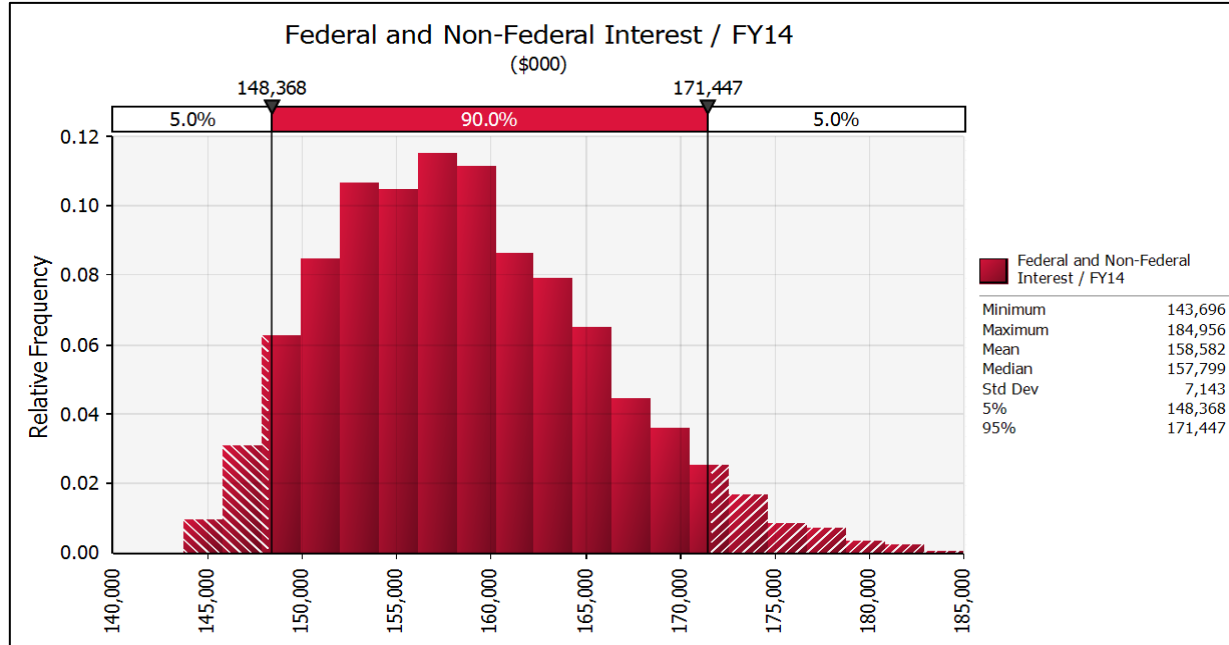
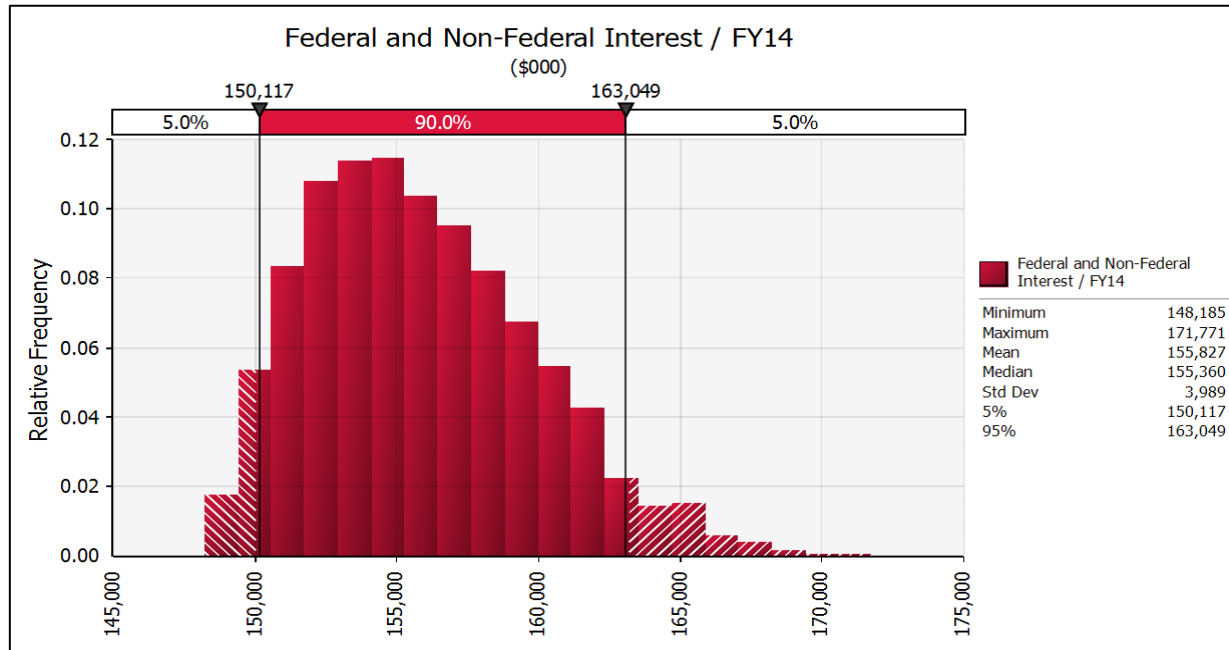


**Figure 24: BiOp Related Court Ordered Spill Revenue Distributions**

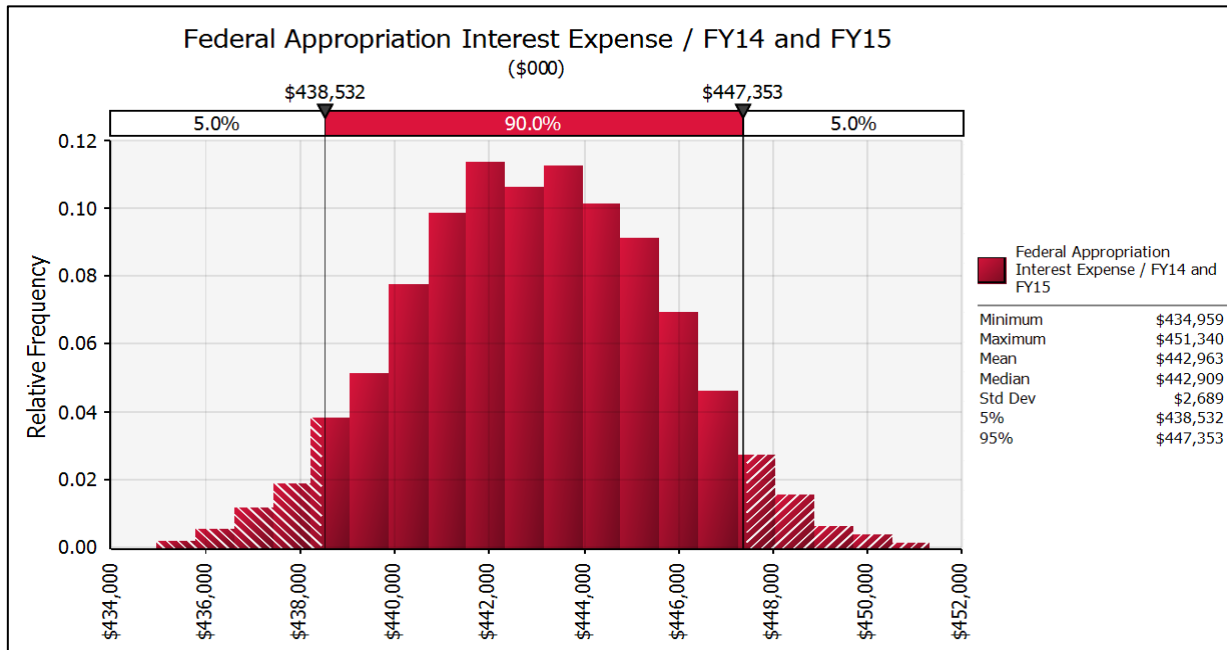
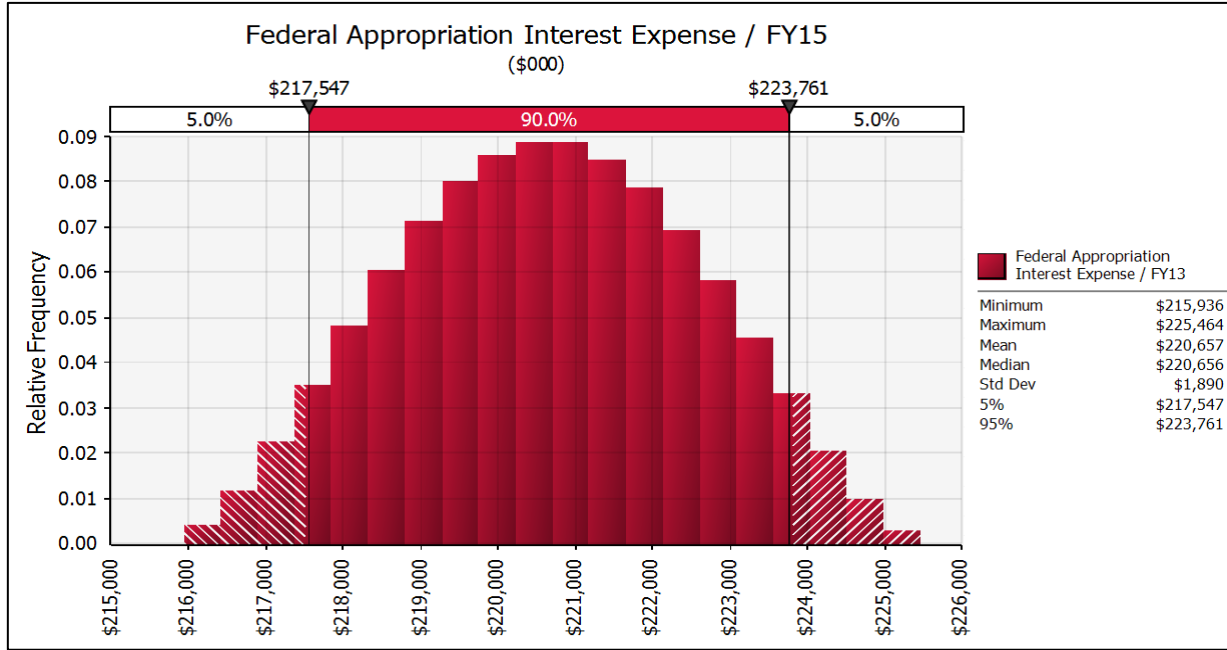
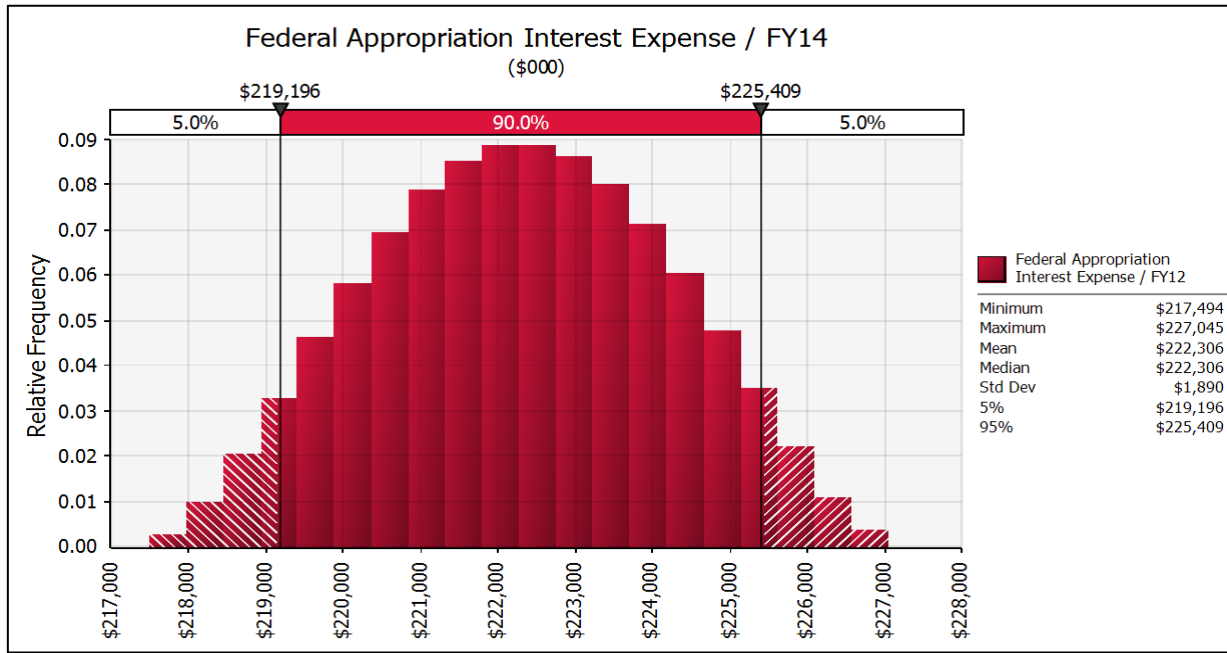


|    | A   | B               | C                | D          | E            | F           |
|----|---|-----------------|------------------|------------|--------------|-------------|
| 1  | <b>Table 23: Interest Rate Forecasts</b>        |                 |                  |            |              |             |
| 2  |   |                 |                  |            |              |             |
| 3  | <b>Lewis County</b>                             |                 |                  |            |              |             |
| 4  | <b>Average</b>                                  |                 |                  |            |              |             |
|    |   | <b>Maturity</b> | <b>Principal</b> | <b>Low</b> | <b>Trend</b> | <b>High</b> |
| 5  | <b>2013</b>                                     | 12 years        | 83,310           | 2.26       | 2.46         | 3.41        |
| 6  | <b>2014</b>                                     |                 |                  |            |              |             |
| 7  | <b>2015</b>                                     |                 |                  |            |              |             |
| 8  |   |                 |                  |            |              |             |
| 9  | <b>Energy Northwest - CGS Ext and New Money</b> |                 |                  |            |              |             |
| 10 | <b>Average</b>                                  |                 |                  |            |              |             |
|    |   | <b>Maturity</b> | <b>Principal</b> | <b>Low</b> | <b>Trend</b> | <b>High</b> |
| 11 | <b>2013</b>                                     | 22 years        | 111,600          | 3.08       | 3.28         | 4.07        |
| 12 | <b>2014</b>                                     | 22 years        | 47,550           | 4.35       | 4.84         | 6.88        |
| 13 | <b>2014</b>                                     | 22 years        | 112,495          | 3.37       | 3.73         | 4.78        |
| 14 | <b>2015</b>                                     | 22 years        | 133,880          | 5.13       | 5.81         | 7.71        |
| 15 | <b>2015</b>                                     | 21 years        | 129,815          | 3.9        | 4.42         | 5.45        |
| 16 |   |                 |                  |            |              |             |
| 17 | <b>BPA</b>                                      |                 |                  |            |              |             |
| 18 | <b>Average</b>                                  |                 |                  |            |              |             |
|    |   | <b>Maturity</b> | <b>Principal</b> | <b>Low</b> | <b>Trend</b> | <b>High</b> |
| 19 | <b>2013</b>                                     | 18 Years        | 357,000          | 3.57       | 3.78         | 4.71        |
| 20 | <b>2014</b>                                     | 18 Years        | 224,000          | 4.14       | 4.53         | 5.68        |
| 21 | <b>2015</b>                                     | 20 Years        | 294,000          | 4.77       | 5.34         | 6.98        |

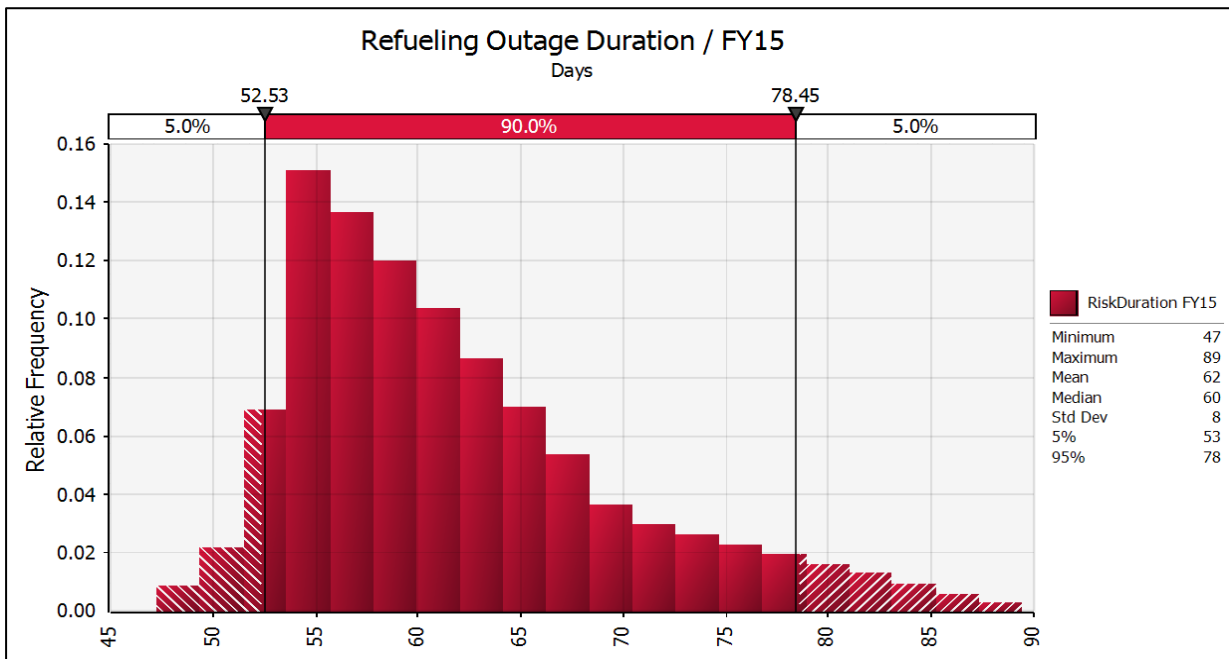
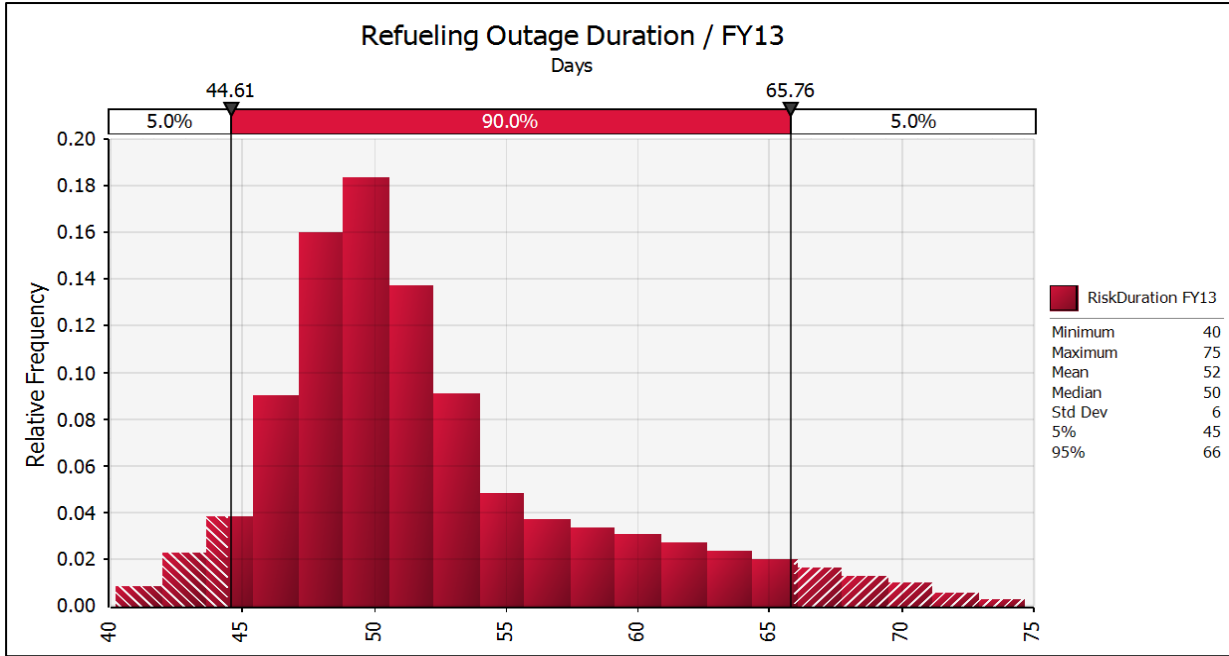
**Figure 25: Federal and Non-Federal Interest Expense Distributions**



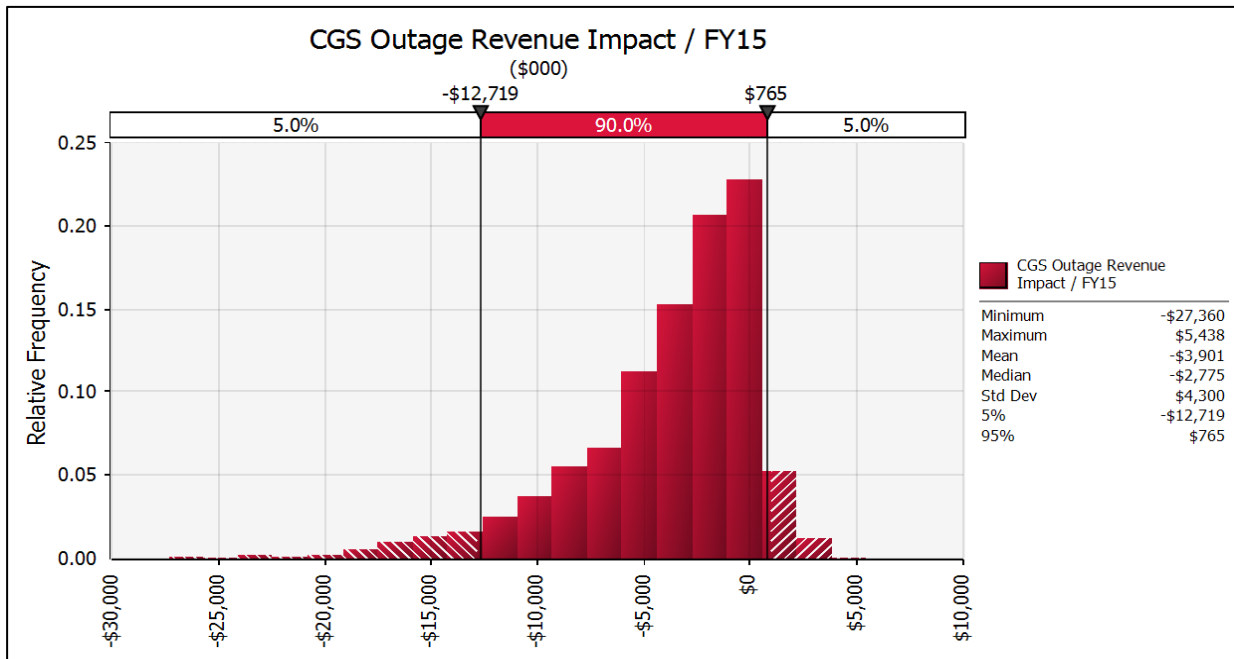
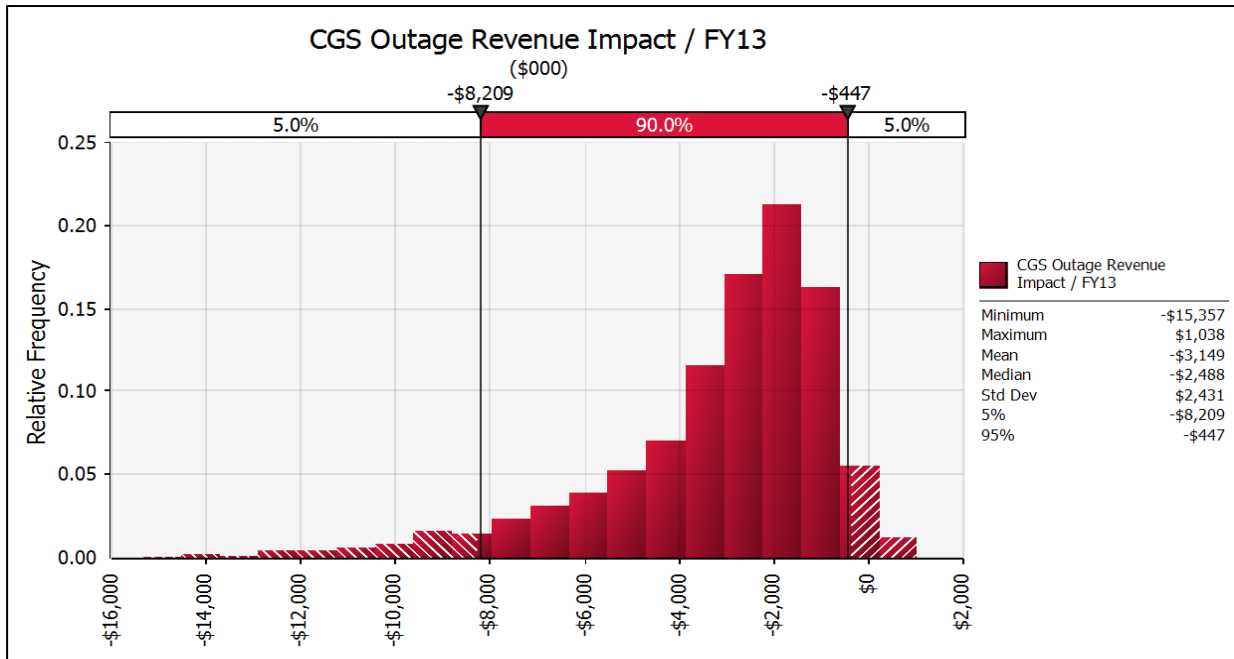
**Figure 26: Federal Appropriations Expense Distributions**



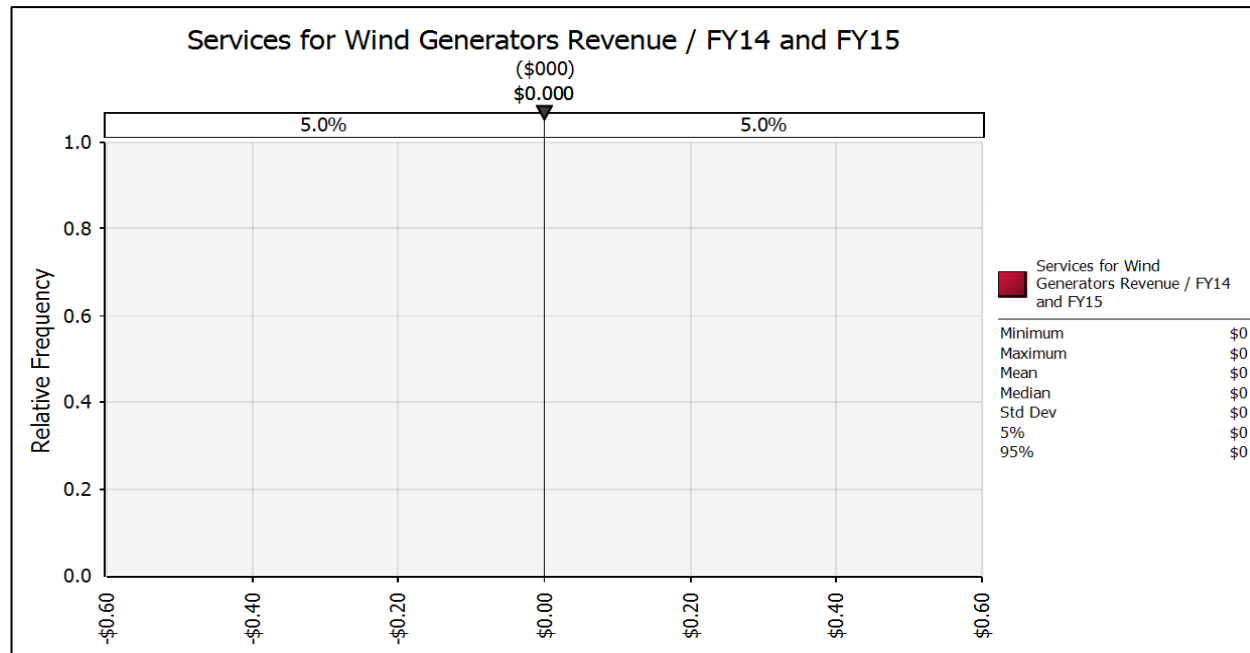
**Figure 27: CGS Refueling Outage Duration Distributions**



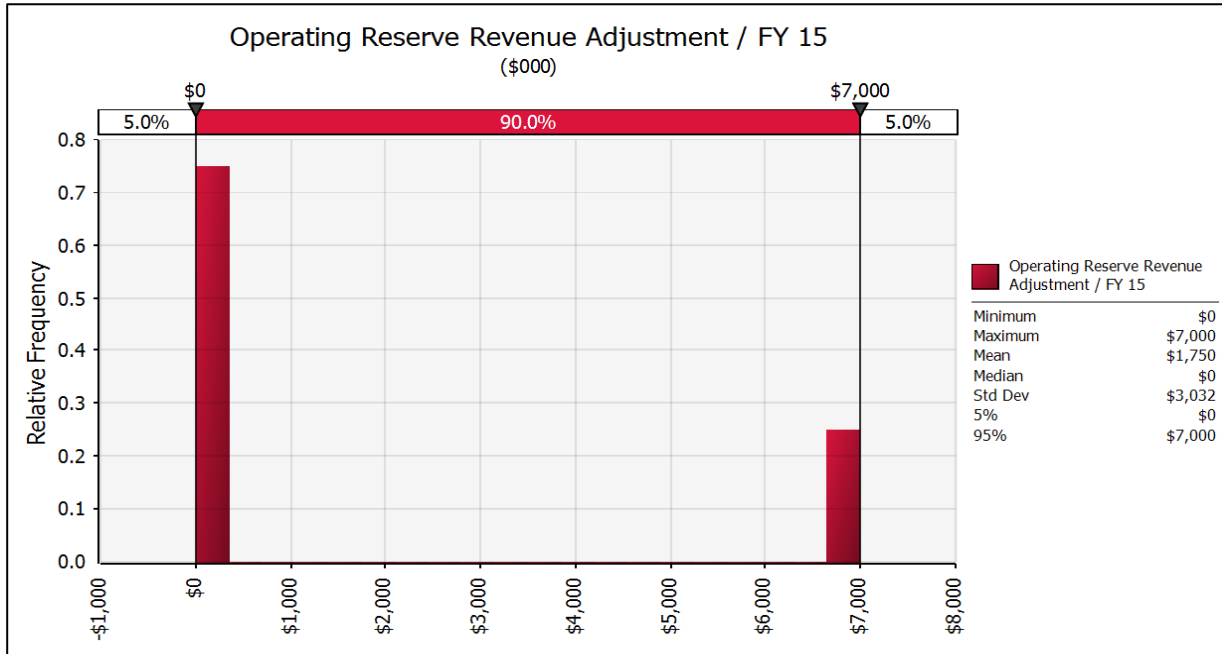
**Figure 28: CGS Refueling Outage Revenue Impact Distributions**



**Figure 29: Variable Energy Resource Balancing Services (VERBS) Revenue Distributions**

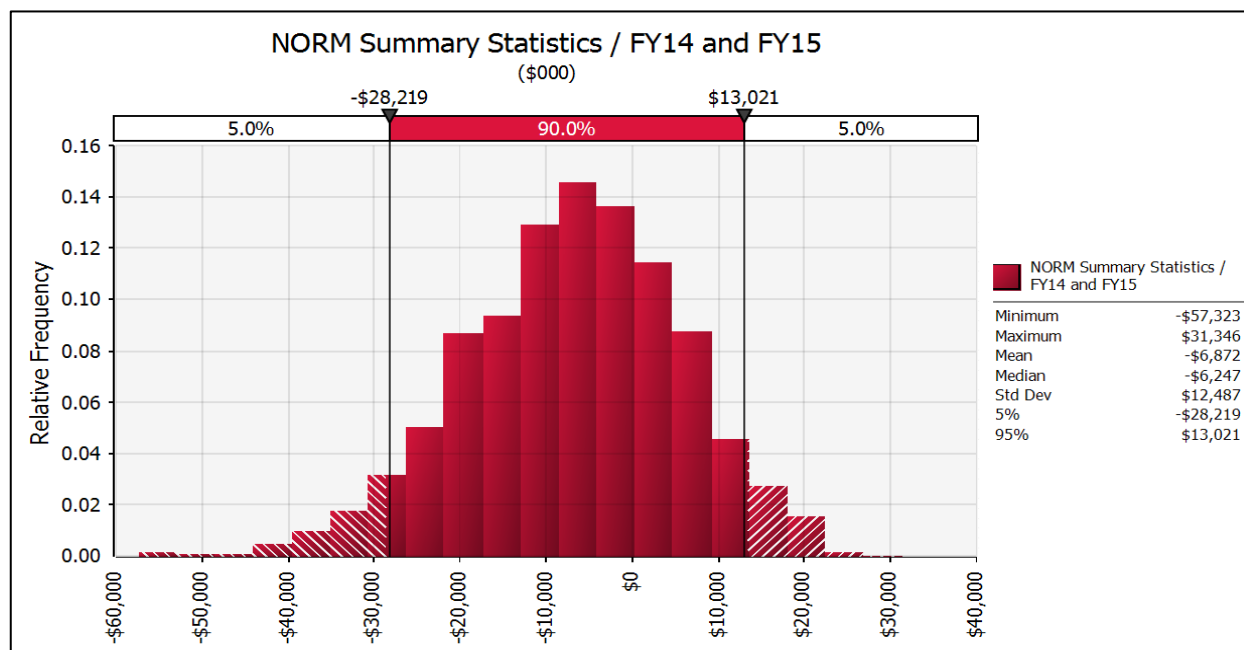
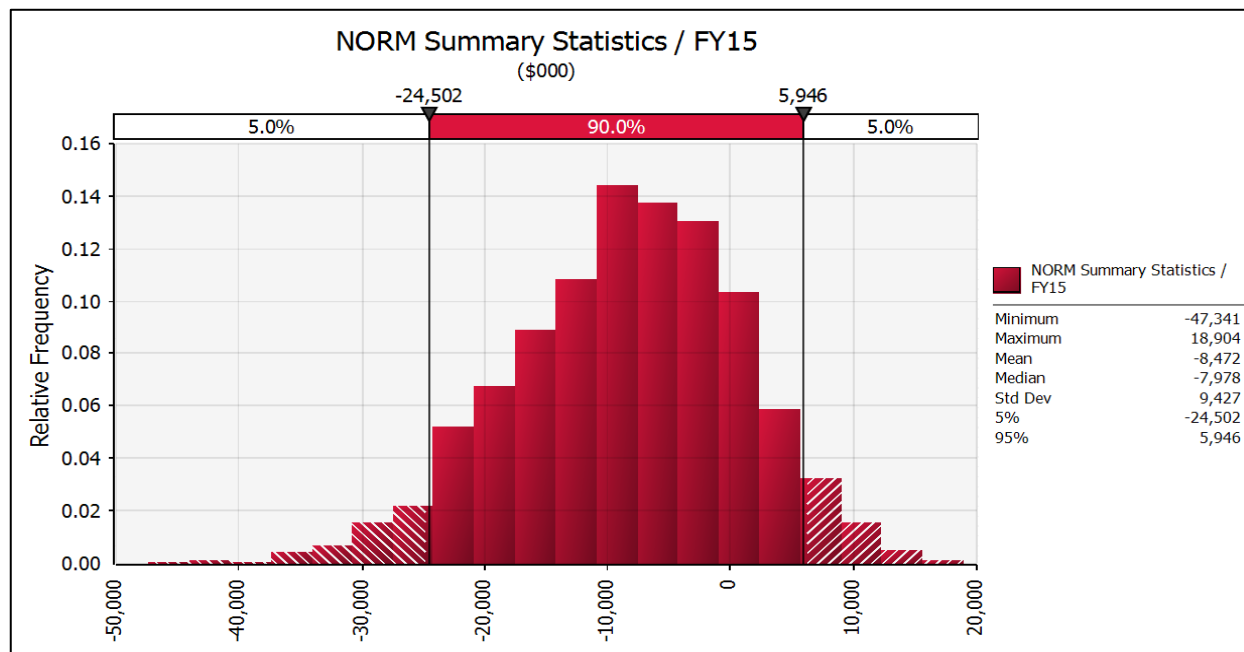
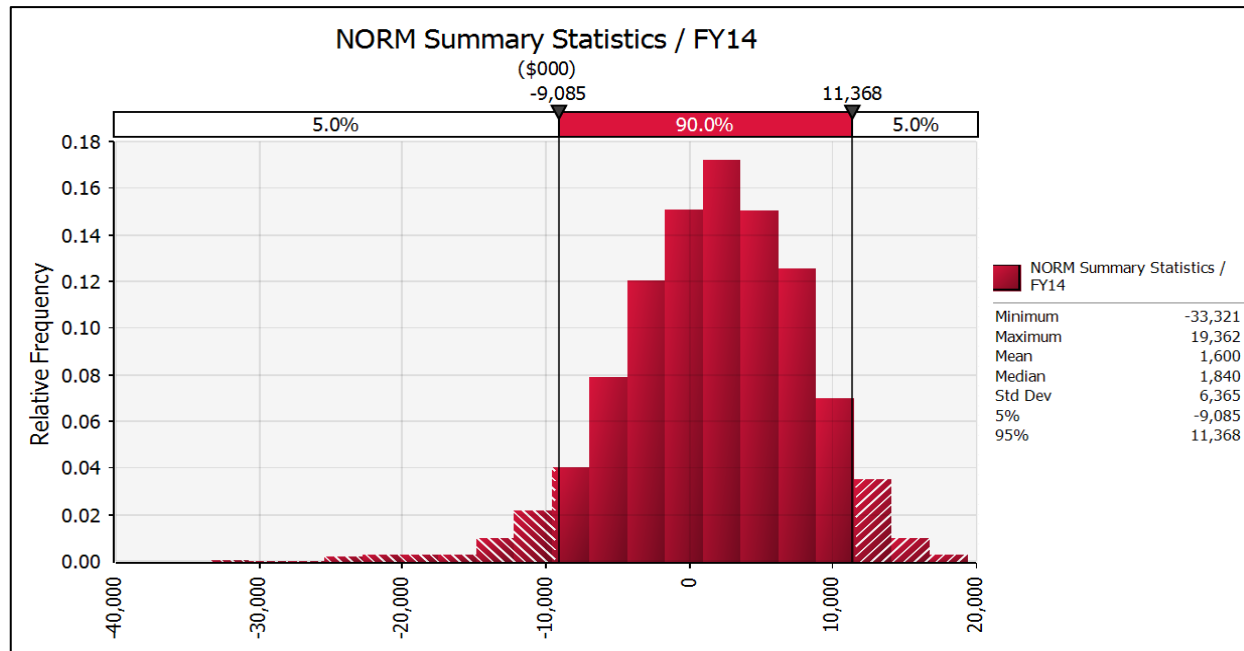


**Figure 30: Operating Reserve Revenue Distributions**



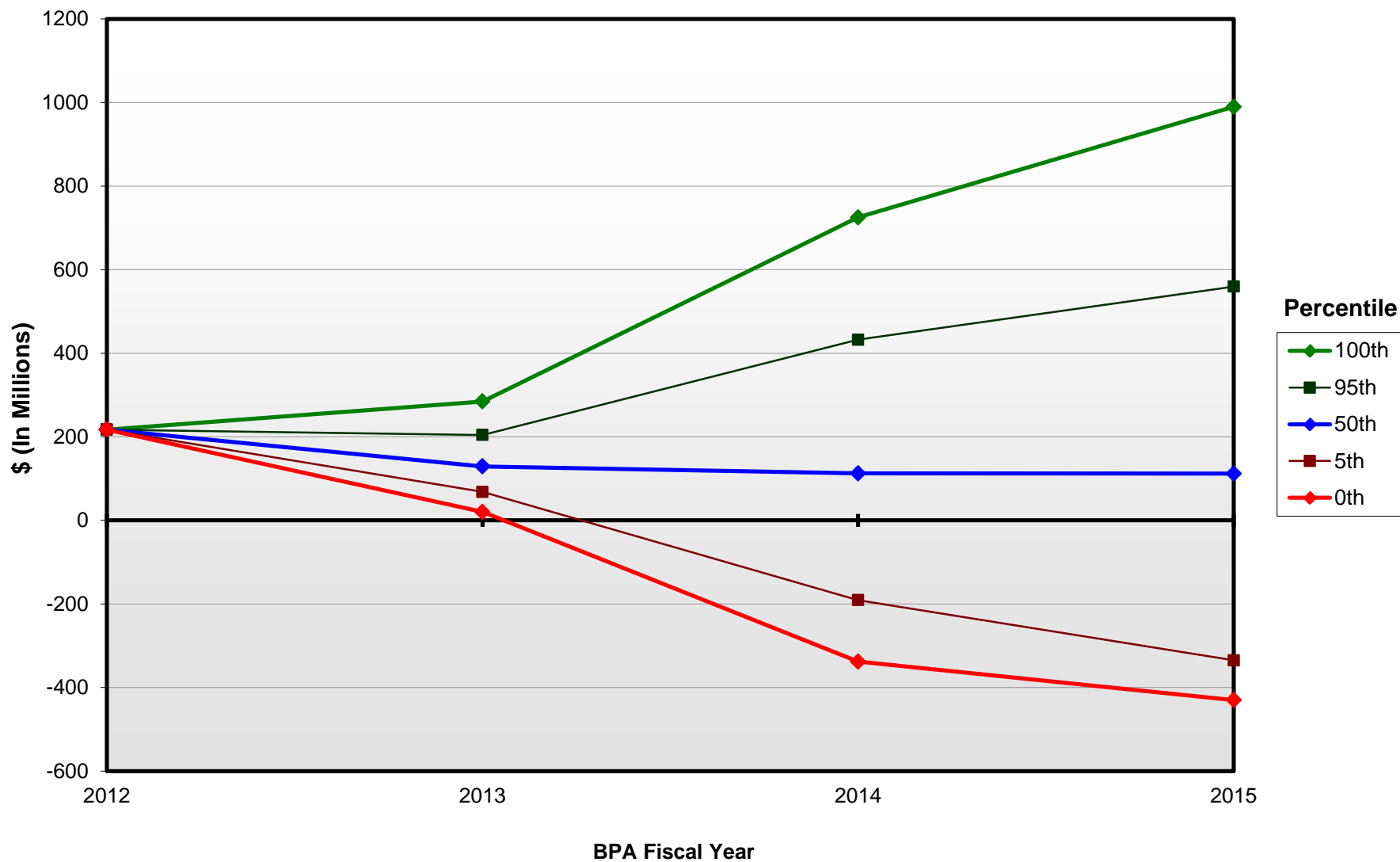


**Figure 31: NORM Output Summary Distributions**



|    | A                                      | B                          | C   | D                   | E                  | F                    | G                  | H                  | I                       | J                   | K                   | L                     | M                                     | N               | O                   | P               | Q                | R             | S            |
|----|--|----------------------------|---|---------------------|--------------------|----------------------|--------------------|--------------------|-------------------------|---------------------|---------------------|-----------------------|---------------------------------------|-----------------|---------------------|-----------------|------------------|---------------|--------------|
| 1  | <b>Figure 32: ToolKit "Main" Sheet</b> |                            |   |                     |                    |                      |                    |                    |                         |                     |                     |                       |                                       |                 |                     |                 |                  |               |              |
| 2  | <b>ToolKit v. 4.9, (09-28-2012)</b>    |                            | Study title: <b>FS Final   PS reserves</b>  |                     |                    |                      |                    |                    |                         |                     |                     |                       |                                       |                 |                     |                 |                  |               |              |
| 3  | Time of run: 11:58:58 AM on 6/24/2013  |                            | 2 -yr TPP = 99.59% Run Type: PS-only run  |                     |                    |                      |                    |                    |                         |                     |                     |                       |                                       |                 |                     |                 |                  |               |              |
| 4  |  |                            |   |                     |                    |                      |                    |                    |                         |                     |                     |                       |                                       |                 |                     |                 |                  |               |              |
| 5  | <b>Input Files</b>                     | PS                         | http://internal.bpa.gov/sites/risk-mgmt/DBE/Documents/Risk_Models/Toolkit/13-05_May/28_Updating_For_Final/RM_BP14FP_ID94.xlsx           |                     |                    |                      |                    |                    |                         |                     |                     |                       |                                       |                 |                     |                 | Split Percentile |               |              |
| 6  |  | NORM                       | http://internal.bpa.gov/sites/risk-mgmt/DBE/Documents/Risk_Models/Toolkit/13-05_May/28_Updating_For_Final/NORM-Output_BP14_FSDraft.xlsx |                     |                    |                      |                    |                    |                         |                     |                     |                       |                                       |                 |                     |                 |                  |               |              |
| 7  |  | TS (or Split)              |   |                     |                    |                      |                    |                    |                         |                     |                     |                       |                                       |                 |                     |                 |                  |               |              |
| 8  | PS Only (no TS)                        | Start in TK Year           | Stop in TK Year   | Start TPP in TK Yr  | Starting Iteration | No. of Iterations    | Deferral Logic     | Enable NFB Adj     | Ask For PNRR Adj        | Sec Rev Rebate      | AutoPrint Res Grph  | AutoPrint This Page   | CRAC Stats                            |                 |                     |                 |                  |               |              |
| 9  | TRUE                                   | 1                          | 3   | 2                   | 1                  | 3,200                | Hybrid             | TRUE               | FALSE                   | FALSE               | FALSE               | FALSE                 | FALSE                                 |                 |                     |                 |                  |               |              |
| 11 | PS Starting Resrvs Bal                 | TS Strt Rsrv Bal           | PS Starting ANR   | PS Liq Res          | TS Liq Res         | Gross Treas Facility | Treas Facil LiqRes | Net Treas Facility | TS to PS Res Allocation |                     | "Small" Def. Size   | Starting PNRR Adj     | Sec Rev Rebate Description            |                 |                     |                 |                  |               |              |
| 12 | 217.0                                  |                            | 0.00  | 0                   | 20                 | 750                  | 320                | 430                | 0                       |                     | \$200               | 0                     | n/a                                   |                 |                     |                 |                  |               |              |
| 14 |  |                            |   |                     |                    |                      |                    |                    |                         |                     |                     |                       |                                       |                 |                     |                 |                  |               |              |
| 15 | TK Year                                | Fiscal Year                | Probabilistic?  | BPA Fund Int. Rates |                    | Treas Facil Int Rate | Treasury Pmt Sched |                    | Interest Credit Sched   |                     | Other Cash Only Adj | Cash Lag for PNRR     | PS Cash Tmg Adj                       | TS Cash Tmg Adj | Reserves Thresholds |                 |                  |               |              |
| 16 |  |                            |   | IOC                 | Tr.Specials        |                      | Amort              | Interest           | PS                      | TS                  |                     |                       |                                       |                 | DDC                 | CRAC            |                  |               |              |
| 17 | 1                                      | 2013                       | TRUE  | 1.52%               | 1.52%              | 0.33%                | 193.0              | 276.0              | 15.67                   |                     | 0.0                 | 0.0                   | 13.0                                  | 0.0             | 750                 |                 | 0                |               |              |
| 18 | 2                                      | 2014                       | TRUE  | 1.39%               | 1.39%              | 0.56%                | 159.2              | 284.9              | 15.85                   |                     | 0.0                 | 0.0                   | 13.9                                  | 0.00            | 750                 |                 | 0                |               |              |
| 19 | 3                                      | 2015                       | TRUE  | 2.09%               | 2.09%              | 1.98%                | 163.3              | 292.8              | 13.91                   |                     | 0.0                 | 0.0                   | 11.0                                  | 0.00            | 750                 |                 | 0                |               |              |
| 20 | Year                                   | Fiscal Year                | Div. Dist.  |                     | CRAC               |                      |                    |                    | PNRR                    |                     |                     |                       | Other Misc Adjustments to Cash and NR |                 |                     |                 |                  |               |              |
| 21 |  |                            | Threshold   | Lim/Year            | Threshold          | Lim/Year             | Rev Basis          | Type               | Shape                   | Risk Mod            | Calc'd in TK        | Sum                   |                                       |                 |                     |                 |                  |               |              |
| 22 | 1                                      | 2013                       | 606.6   | 1,000               | -143.4             | 300                  |                    | StepA              | 0.0                     |                     | 0                   | 0                     |                                       |                 |                     |                 |                  |               |              |
| 23 | 2                                      | 2014                       | 564.5   | 1,000               | -185.5             | 300                  |                    | StepA              | 1.0                     |                     | 0                   | 0                     |                                       |                 |                     |                 |                  |               |              |
| 24 | 3                                      | 2015                       | 574.7   | 1,000               | -175.3             | 300                  |                    | StepA              | 1.0                     |                     | 0                   | 0                     |                                       |                 |                     |                 |                  |               |              |
| 25 |  |                            |   |                     |                    |                      |                    |                    |                         |                     |                     |                       |                                       |                 |                     |                 |                  |               |              |
| 26 | <b>Outputs</b>                         | PS Starting Reserves 217.0 |   |                     |                    |                      |                    |                    |                         |                     |                     |                       | Approx PF rates (avg not block)       |                 |                     |                 |                  |               |              |
| 27 | Toolkit Year                           | Fiscal Year                | No. of Deferrals  | "Small" Deferrals   | 1-year Probab.     | Cumul. Deferrals     | Cumul. Probab.     | Avg. Def. per Year | Avg. Def. per Def.      | Avg. 1st Def./Def.  | Avg. End. Reserves  | Avg. End. Tr Note Bal | Avg. End. ANR                         | PNRR Added      | Base                | After PNRR      | After Var.Rates  | Net Liquidity | Net Reserves |
| 28 |  |                            |   |                     |                    |                      |                    |                    |                         |                     |                     |                       |                                       |                 |                     |                 |                  |               |              |
| 29 | 1                                      | 2013                       | 0   | 0                   | 100.0%             | n/a                  | n/a                | 0.0                | n/a                     | n/a                 | 131.5               | -                     | (54.0)                                | 0               | not implemented     | not implemented | not implemented  | 561.5         | 131.5        |
| 30 | 2                                      | 2014                       | 0   | -                   | 100.0%             | -                    | 100.0%             | 0.00               | n/a                     | n/a                 | 147.23              | (33.9)                | (61.9)                                | 0               | imple-mented        | imple-mented    | imple-mented     | 543.4         | 113.37       |
| 31 | 3                                      | 2015                       | 13  | 13                  | 99.6%              | 13                   | 99.6%              | 0.13               | 31.6                    | 31.6                | 176.88              | (67.4)                | (67.9)                                | 0               | imple-mented        | imple-mented    | imple-mented     | 539.5         | 109.53       |
| 32 | 2                                      | -yr Total                  | 13  | 13                  | n/a                | n/a                  | n/a                | 0.1                | n/a                     | n/a                 | n/a                 | n/a                   | n/a                                   | 0.0             |                     |                 |                  |               |              |
| 33 | 2                                      | -yr Avg.                   | 7   | 7                   | n/a                | n/a                  | n/a                | 0.1                | 31.6                    | 31.6                | n/a                 | n/a                   | n/a                                   | 0.0             |                     |                 |                  |               |              |
| 34 | Toolkit Year                           | Fiscal Year                | No. of DDCs   | Avg. DDC per each   | Avg. DDC per Year  | DDC Frequency        | No. of CRACs       | Avg CRAC per each  | Avg CRAC per Year       | No. of NFB Access   | Avg NFB per each    | Avg NFB per Year      | Ann.Lim. Reached                      | CRAC Frequency  | NFB Rec. Frequency  |                 |                  |               |              |
| 35 |  |                            |   |                     |                    |                      |                    |                    |                         |                     |                     |                       |                                       |                 |                     |                 |                  |               |              |
| 36 | 1                                      | 2013                       | 0   | n/a                 | 0.0                | 0%                   | 0                  | n/a                | 0.0                     | 0                   | n/a                 | 0.0                   | 0                                     | 0%              | 0%                  |                 |                  |               |              |
| 37 | 2                                      | 2014                       | 0   | n/a                 | 0.0                | 0%                   | 0                  | n/a                | 0.0                     | 0                   | n/a                 | 0.0                   | 0                                     | 0%              | 0%                  |                 |                  |               |              |
| 38 | 3                                      | 2015                       | 0   | n/a                 | 0.0                | 0%                   | 983                | 96.3               | 29.6                    | 484                 | 8.8                 | 1.3                   | 0                                     | 31%             | 15%                 |                 |                  |               |              |
| 39 | 2                                      | -yr Total                  | 0   | n/a                 | 0.0                | n/a                  | 983                | n/a                | 29.6                    | 484                 | n/a                 | 1.3                   | 0                                     | n/a             | n/a                 |                 |                  |               |              |
| 40 | 2                                      | -yr Avg.                   | 0   | n/a                 | 0.0                | 0%                   | 492                | 96.3               | 14.8                    | 242                 | 8.8                 | 0.7                   | 0                                     | 15%             | 8%                  |                 |                  |               |              |
| 41 | Toolkit Year                           | Fiscal Year                | NORM Inputs   | PBL Inputs          | TBL Inputs         | A-T-C Totals         | Ave. Reb. per each | Ave Reb. per Year  | PF share of Rebate      | IOU Share of Rebate | No. of Rebates      | Ave. Re-bate Rate     | PS Int Credit                         | TBL Int Credit  |                     |                 |                  |               |              |
| 42 |  |                            |   |                     |                    |                      |                    |                    |                         |                     |                     |                       |                                       |                 |                     |                 |                  |               |              |
| 43 | 1                                      | 2013                       | -3.2  | -50.6               |                    | -31.5                |                    |                    |                         |                     |                     |                       | 15.52                                 |                 |                     |                 |                  |               |              |
| 44 | 2                                      | 2014                       | -14.3   | 6.8                 |                    | -10.2                |                    |                    |                         |                     |                     |                       | 15.52                                 |                 |                     |                 |                  |               |              |
| 45 | 3                                      | 2015                       | -23.8   | -11.0               |                    | 4.4                  |                    |                    |                         |                     |                     |                       | 13.20                                 |                 |                     |                 |                  |               |              |
| 46 | 2                                      | -yr Total                  | -38.1   | -4.2                |                    | -5.8                 |                    |                    |                         |                     |                     |                       | 28.7                                  |                 |                     |                 |                  |               |              |
| 47 | 2                                      | -yr Avg.                   | -19.1   | -2.1                |                    | -2.9                 |                    |                    |                         |                     |                     |                       | 14.4                                  |                 |                     |                 |                  |               |              |

**Figure 33: Power Services End of Year Net Reserves**  
(Reserves Available For Risk Attributed to Power Less Liquidity Borrowing)



|    | A  | B    | C    | D    | E    | F                            | G    | H    | I    | J    | K | L |
|----|--|------|------|------|------|------------------------------|------|------|------|------|---|---|
| 1  | <b>Table 24: PS End of Year Balances</b> |      |      |      |      |                              |      |      |      |      |   |   |
| 2  | (Values in Millions)                     |      |      |      |      |                              |      |      |      |      |   |   |
| 3  | <b>EOY Reserves Balance</b>              |      |      |      |      | <b>Treasury Note Balance</b> |      |      |      |      |   |   |
| 4  |  | 2012 | 2013 | 2014 | 2015 |                              | 2012 | 2013 | 2014 | 2015 |   |   |
| 5  | <b>Avg</b>                               | 217  | 131  | 147  | 177  | <b>Avg</b>                   | 0    | 0    | -34  | -67  |   |   |
| 6  | <b>stdev</b>                             | 0    | 41   | 151  | 198  | <b>stdev</b>                 | 0    | 0    | 65   | 113  |   |   |
| 7  |  |      |      |      |      |                              |      |      |      |      |   |   |
| 8  | <b>100%</b>                              | 217  | 284  | 725  | 990  | <b>100%</b>                  | 0    | 0    | 0    | 0    |   |   |
| 9  | <b>95%</b>                               | 217  | 204  | 432  | 560  | <b>95%</b>                   | 0    | 0    | 0    | 0    |   |   |
| 10 | <b>75%</b>                               | 217  | 157  | 253  | 318  | <b>75%</b>                   | 0    | 0    | 0    | 0    |   |   |
| 11 | <b>50%</b>                               | 217  | 129  | 112  | 112  | <b>50%</b>                   | 0    | 0    | 0    | 0    |   |   |
| 12 | <b>25%</b>                               | 217  | 103  | 0    | 0    | <b>25%</b>                   | 0    | 0    | -32  | -106 |   |   |
| 13 | <b>5%</b>                                | 217  | 68   | 0    | 0    | <b>5%</b>                    | 0    | 0    | -191 | -335 |   |   |
| 14 | <b>0%</b>                                | 217  | 20   | 0    | 0    | <b>0%</b>                    | 0    | 0    | -338 | -430 |   |   |
| 15 |  |      |      |      |      |                              |      |      |      |      |   |   |
| 16 |  |      |      |      |      |                              |      |      |      |      |   |   |
| 17 | <b>Available Liquidity</b>               |      |      |      |      | <b>Net Reserves</b>          |      |      |      |      |   |   |
| 18 |  | 2012 | 2013 | 2014 | 2015 |                              | 2012 | 2013 | 2014 | 2015 |   |   |
| 19 | <b>Avg</b>                               | 647  | 561  | 543  | 540  | <b>Avg</b>                   | 217  | 131  | 113  | 110  |   |   |
| 20 | <b>stdev</b>                             | 0    | 41   | 192  | 275  | <b>stdev</b>                 | 0    | 41   | 192  | 275  |   |   |
| 21 |  |      |      |      |      |                              |      |      |      |      |   |   |
| 22 | <b>100%</b>                              | 647  | 714  | 1155 | 1420 | <b>100%</b>                  | 217  | 284  | 725  | 990  |   |   |
| 23 | <b>95%</b>                               | 647  | 634  | 862  | 990  | <b>95%</b>                   | 217  | 204  | 432  | 560  |   |   |
| 24 | <b>75%</b>                               | 647  | 587  | 683  | 748  | <b>75%</b>                   | 217  | 157  | 253  | 318  |   |   |
| 25 | <b>50%</b>                               | 647  | 559  | 542  | 542  | <b>50%</b>                   | 217  | 129  | 112  | 112  |   |   |
| 26 | <b>25%</b>                               | 647  | 533  | 398  | 324  | <b>25%</b>                   | 217  | 103  | -32  | -106 |   |   |
| 27 | <b>5%</b>                                | 647  | 498  | 239  | 95   | <b>5%</b>                    | 217  | 68   | -191 | -335 |   |   |
| 28 | <b>0%</b>                                | 647  | 450  | 92   | 0    | <b>0%</b>                    | 217  | 20   | -338 | -430 |   |   |
| 29 |  |      |      |      |      |                              |      |      |      |      |   |   |
| 30 |  |      |      |      |      |                              |      |      |      |      |   |   |
| 31 | <b>EOY Accumulated Net Revenue</b>       |      |      |      |      | <b>Net Revenue</b>           |      |      |      |      |   |   |
| 32 |  | 2012 | 2013 | 2014 | 2015 |                              | 2013 | 2014 | 2015 |      |   |   |
| 33 | <b>Avg</b>                               | 0    | -54  | -62  | -68  | <b>Avg</b>                   | -54  | -8   | -6   |      |   |   |
| 34 | <b>stdev</b>                             | 0    | 41   | 192  | 272  | <b>stdev</b>                 | 41   | 185  | 175  |      |   |   |
| 35 |  |      |      |      |      |                              |      |      |      |      |   |   |
| 36 | <b>100%</b>                              | 0    | 99   | 553  | 810  | <b>100%</b>                  | 99   | 583  | 567  |      |   |   |
| 37 | <b>95%</b>                               | 0    | 19   | 257  | 380  | <b>95%</b>                   | 19   | 298  | 266  |      |   |   |
| 38 | <b>75%</b>                               | 0    | -29  | 78   | 140  | <b>75%</b>                   | -29  | 129  | 124  |      |   |   |
| 39 | <b>50%</b>                               | 0    | -56  | -63  | -66  | <b>50%</b>                   | -56  | -9   | 2    |      |   |   |
| 40 | <b>25%</b>                               | 0    | -83  | -208 | -285 | <b>25%</b>                   | -83  | -152 | -133 |      |   |   |
| 41 | <b>5%</b>                                | 0    | -116 | -366 | -504 | <b>5%</b>                    | -116 | -303 | -308 |      |   |   |
| 42 | <b>0%</b>                                | 0    | -163 | -514 | -676 | <b>0%</b>                    | -163 | -406 | -486 |      |   |   |



