



## INDEX FOR THE WAPA-190 SUPPORTING DOCUMENTS

<b>Tab 01-0</b>	Table of Contents for Support Book
<b>Tab 02-0</b>	SLIP F10 Firm Power, Transmission & Ancillary Services Current Rate/Charges Summary Table
<b>Tab 02-1</b>	Rate Schedules
<b>Tab 03-0</b>	SORs (Status of Repayment)
<b>Tab 03-1</b>	SLIP PRS Executive Summary
<b>Tab 04-0</b>	Revenue Requirements Comparison Table/Changes of Current Rate
<b>Tab 04-1</b>	Stacked Chart Showing Current & Projected Rate
<b>Tab 05-0</b>	Average O&M Comparison (CRSP PRS #3 File, BOR and WAPA workplans)
<b>Tab 05-1</b>	O&M Budget Projections for CRSP(CRSP PRS #3 File BOR and WAPA workplans)
<b>Tab 05-2</b>	O&M Budget Projections for Smaller Projects (BFIT)
<b>Tab 06-0</b>	Purchase Power Projections (April 24-month study)
<b>Tab 07-0</b>	SNOTEL Image (Hydrology)
<b>Tab 08-0</b>	Transmission Expense Comparison
<b>Tab 08-1</b>	Transmission Expense
<b>Tab 09-0</b>	Collbran / Rio Grande & Dolores / Seedskaadee Revenue Requirements
<b>Tab 10-0</b>	Other Expenses - Salinity
<b>Tab 10-1</b>	Other Expenses - Unfunded Benefits
<b>Tab 11-0</b>	Aid to Main Stem Irrigation Table (Sordata sheet)
<b>Tab 11-1</b>	Aid to Main Stem Irrigation (SPCCR)
<b>Tab 11-2</b>	Aid to Participating Projects
<b>Tab 11-3</b>	Apportionment Table
<b>Tab 11-4</b>	Irrigation Blocks Table
<b>Tab 12-0</b>	Transmission Revenue Comparison
<b>Tab 12-1</b>	Transmission Revenue Contracts
<b>Tab 13-0</b>	Other Revenues (Offsetting Revenues)
<b>Tab 13-1</b>	Other Revenues Projection Table (Offsetting Revenues)
<b>Tab 13-2</b>	M&I Revenues (Water Sales)
<b>Tab 14-0</b>	Sales Projections
<b>Tab 14-1</b>	Project Use - Summary
<b>Tab 14-2</b>	Project Use - BOR Data Summer
<b>Tab 14-3</b>	Project Use - BOR Data Winter
<b>Tab 15-0</b>	2020 CRC Letter & Analysis
<b>Tab 16-0</b>	Historic Interest Rates

**Salt Lake City Area Integrated Projects Firm Power, Transmission & Ancillary Services  
FY2020 Rate/Charges Summary**

	<b>Provided By</b>	<b>Rate/Charges</b>	<b>Rate Schedules Effective Through (or until superceded)</b>
<b>Firm Power Service</b>			
Firm Sales (SLIP-F10)	SLIP		9/30/2020
	Composite:	29.42 mills/kWh	9/30/2020
	Demand:	5.18 \$/kW-month	9/30/2020
	Energy:	12.19 mills/kWh	9/30/2020
<b>Transmission Service</b>			
Firm Point-to-Point Transmission (SP-PTP-8)	CRSP	\$1.55kW-month	9/30/2020
Network Integration Transmission (SP-NW4)	CRSP	\$1.55kW-month	9/30/2020
Non-Firm Point-to-Point Transmission (SP-NFT7)	CRSP	\$1.55kW-month	9/30/2020
Unreserved Use Charge (SP-UU1)	CRSP	See Rate Schedule	9/30/2020
<b>Ancillary Services (Provided by BA)</b>			
Scheduling, System Control, & Dispatch (L-AS1)	LAP	\$21.60 sch/day	9/30/2020
Reactive Supply & Voltage Control (L-AS2)	LAP	\$0.076 kW-month	9/30/2020
Regulation & Frequency Response (L-AS3)	LAP	\$0.211 kW-month	9/30/2020
		170% (Wind Capacity Multiplier)	
		100% (Solar Capacity Multiplier)	
Energy Imbalance (L-AS4)	LAP	Imbalance between 1.5% and 7.5% is a 10% penalty imbalance greater than 7.5% is a 25% penalty weighted avg real-time hourly WACM purchase/sales pricing	9/30/2020
		Pass Through	
Spinning & Supplemental Reserves (L-AS5)	LAP	(purchase price, energy activation, plus administrative fee)	9/30/2020

**UNITED STATES DEPARTMENT OF ENERGY  
WESTERN AREA POWER ADMINISTRATION**

**COLORADO RIVER STORAGE PROJECT MANAGEMENT CENTER  
SALT LAKE CITY AREA INTEGRATED PROJECTS**

**SCHEDULE OF RATES FOR FIRM POWER SERVICE  
(Approved Under Rate Order No. WAPA-169)**

Effective:

Rate Schedule SLIP-F10 will be placed into effect on an interim basis on the first day of the first full-billing period beginning on or after October 1, 2015, and will remain in effect until FERC confirms, approves, and places the rate schedules in effect on a final basis through September 30, 2020, or until the rate schedules are superseded.

Available:

In the area served by the Salt Lake City Area Integrated Projects.

Applicable:

To the wholesale power customer for firm power service supplied through one meter at one point of delivery or as otherwise established by contract.

Character:

Alternating current, 60 hertz, three-phase, delivered and metered at the voltages and points established by contract.

Monthly Rate:

DEMAND CHARGE: \$5.18 per kilowatt of billing demand.

ENERGY CHARGE: 12.19 mills per kilowatthour of use.

**COST RECOVERY CHARGE:**

To adequately recover and maintain a sufficient balance in the Basin Fund, Western uses a cost recovery mechanism, called a Cost Recovery Charge (CRC). The CRC is a charge on all SHP energy.

This charge will be recalculated before May 1 of each year, and Western will provide notification to the customers. The charge, if needed, will be placed into effect on the first day of the first full-billing period beginning on or after October 1, 2015, through September 30, 2020. If a Shortage Criteria is necessary, the CRC will be re-calculated at that time. (See Shortage Criteria Trigger explanation below.) The CRC will be calculated as follows:

**WESTERN HAS THE DISCRETION TO IMPLEMENT A CRC BASED ON  
THE TIERS BELOW.**

**TABLE: CRC Tiers**

<b>Tier</b>	<b>Criteria, If the BFBB is:</b>	<b>Review</b>
i	Greater than \$150 million, with an expected decrease to below \$75 million	Annually
ii	Less than \$150 million but greater than \$120 million, with an expected 50-percent decrease in the next FY	
iii	Less than \$120 million but greater than \$90 million, with an expected 40-percent decrease in the next FY	
iv	Less than \$90 million but greater than \$60 million, with an expected 25-percent decrease in the next FY	Semi-Annual (May / November)
v	Less than \$60 million but greater than \$40 million with an expected decrease to below \$40 million in the next FY	Monthly

**TABLE: SAMPLE CRC CALCULATION**

		Description	Example	Formula
<b>STEP ONE</b>	<b>Determine the Net Balance available in the Basin Fund.</b>			
	<b>BFBB</b>	Basin Fund Beginning Balance (\$)	\$ 85,860,265	Financial forecast
	<b>BFTB</b>	Basin Fund Target Balance (\$)	\$ 64,395,199	BFBB – (Tier % *BFBB), or BFTB for Tier i and Tier v <sup>1</sup>
	<b>PAR</b>	Projected Annual Revenue (\$) w/o CRC	\$ 232,780,000	Financial forecast
	<b>PAE</b>	Projected Annual Expenses (\$)	\$ 226,649,066	Financial forecast
	<b>NR</b>	Net Revenue (\$)	\$ 6,130,934	PAR - PAE
	<b>NB</b>	Net Balance (\$)	\$ 91,991,199	BFBB + NR
<b>STEP TWO</b>	<b>Determine the Forecasted Energy Purchase Expenses.</b>			
	<b>EA</b>	SHP Energy Allocation (GWh)	4,952	Customer contracts
	<b>HE</b>	Forecasted Hydro Energy (GWh)	4,924	Hydrologic & generation forecast
	<b>FE</b>	Forecasted Energy Purchase (GWh)	504	EA – HE or anticipated
	<b>FFC</b>	Forecasted Average Energy Price per MWh (\$)	\$ 34.23	From commercially available price indices
	<b>FX</b>	Forecasted Energy Purchase Expense (\$)	\$ 17,262,512	FE * FFC *1000
<b>STEP THREE</b>	<b>Determine the amount of Funds Available for firming energy purchases, and then determine additional revenue to be recovered. The following two formulas will be used to determine FA; the lesser of the two will be used.</b>			
	<b>FA1</b>	Basin Fund Balance Factor (\$)	\$ 17,262,512	If (NB>BFBB,FX,FX -(BFTB - NB))
	<b>FA2</b>	Revenue Factor (\$)	\$ 17,262,512	If (NR>-(BFBB-BFTB), FX, FX+NR +(BFBB-BFTB))
	<b>FA</b>	Funds Available (\$)	\$ 17,262,512	Lesser of FA1 or FA2 (not less than \$0)
	<b>FARR</b>	Additional Revenue to be Recovered (\$)	\$ 0	FX - FA
<b>STEP FOUR</b>	<b>Once the FA for purchases have been determined, the CRC can be calculated, and the WL can be determined.</b>			
	<b>WL</b>	Waiver Level (GWh)	5428	If (EA<HE,EA,HE+(FE*(FA/FX))), but not less than HE
	<b>WLP</b>	Waiver Level Percentage of Full SHP	110%	WL/EA*100
	<b>CRCE</b>	CRC Energy (GWh)	0	EA - WL
	<b>CRCEP</b>	CRC Energy Percentage of Full SHP	0%	CRCE/EA*100
	<b>CRC</b>	<b>Cost Recovery Charge (mills/kWh)</b>	<b>0</b>	FARR/(EA*1,000)

Notes: 1- Use CRC Tiers Table to calculate applicable value

Narrative CRC Example

**STEP ONE: Determine the net balance available in the Basin Fund.**

BFBB – Western will forecast the Basin Fund Beginning Balance for the next FY.

$$\mathbf{BFBB = \$85,860,265}$$

BFTB – The Basin Fund Target Balance is based on the applicable tiered percentage, or minimum value, of the Basin Fund Beginning Balance derived from the **CRC Tiers** table with a minimum BFTB set at \$40 million.

$$\begin{aligned}\mathbf{BFTB} &= \text{BFBB less 25 percent, see } \mathbf{Tier\ iv} \text{ (BFBB } < \mathbf{90\ million, BFBB } > \mathbf{60\ million)} \\ &= \$85,860,265 - \$21,464,066 \\ &= \mathbf{\$64,395,199}\end{aligned}$$

PAR – Projected Annual Revenue is Western’s estimate of revenue for the next FY.

$$\mathbf{PAR= \$232,780,000}$$

PAE – Projected Annual Expenses is Western’s estimate of expenses for the next FY. The PAE includes all expenses plus non-reimbursable expenses, which are capped at \$27 million per year plus an inflation factor. **This limitation is for CRC formula calculation purposes only, and is not a cap on actual non-reimbursable expenses.**

$$\mathbf{PAE = \$226,649,066}$$

NR – Net Revenue equals revenues minus expenses.

$$\begin{aligned}\mathbf{NR} &= \text{PAR-PAE} \\ &= \$232,780,000 - \$226,649,066 \\ &= \mathbf{\$6,130,934}\end{aligned}$$

NB – Net Balance is the Basin Fund Beginning Balance plus net revenue.

$$\begin{aligned}\mathbf{NB} &= \mathbf{BFBB+NR} \\ &= \$85,860,265 + \$6,130,934 \\ &= \mathbf{\$91,991,199}\end{aligned}$$

**STEP TWO: Determine the forecasted energy purchases expenses.**

EA – The Sustainable Hydro Power Energy Allocation (from Customer contracts). This does not include Project Use customers.

$$\mathbf{EA = 4,952 (GWh)}$$

HE – Western’s forecast of Hydro Energy available during the next FY developed from Reclamation’s April, 24-month study.

$$\mathbf{HE = 4,924 (GWh)}$$

FE – Forecasted Energy purchases are the difference between the Sustainable Hydro Power allocation and the forecasted hydro energy available for the next FY or the anticipated firming purchases for the next year.

$$\begin{aligned}\mathbf{FE} &= \mathbf{EA-HE \text{ or anticipated purchases}} \\ &= \mathbf{504.33 (GWh, anticipated)}\end{aligned}$$

FFC - The forecasted energy price for the next FY per MWh.

$$\mathbf{FFC = \$34.23 \text{ per MWh}}$$

FX – Forecasted energy purchase power expenses based on the current year’s, April, 24-month study, representing an estimate of the total costs of firming purchases for the coming FY.

$$\begin{aligned}
\mathbf{FX} &= \mathbf{FE*FFC*1000} \\
&= 504.33 * \$34.23*1000 \\
&= \mathbf{\$17,263,215.90}
\end{aligned}$$

**STEP THREE: Determine the amount of Funds Available (FA) to expend on firming energy purchases and then determine additional revenue to be recovered (FARR). The following two formulas will be used to determine FA; the lesser of the two will be used. Funds available shall not be less than zero.**

A. Basin Fund Balance Factor (FA1)

If the Net Balance is greater than the Basin Fund Target Balance, use the value for forecasted energy purchase power expenses (FX). If the net balance is less than the Basin Fund Target Balance, reduce the value of the Forecasted Energy Purchase Power Expenses by the difference between the Basin Fund Target Balance and the Net Balance.

$$\begin{aligned}
\mathbf{FA1} &= \text{If } (\mathbf{NB} > \mathbf{BFTB}, \mathbf{FX}, \mathbf{FX} - (\mathbf{BFTB} - \mathbf{NB})) \\
&= \mathbf{\$91,991,199} \text{ (NB) is greater than } \mathbf{\$64,395,199} \text{ (BFTB) then:} \\
&= \mathbf{\$17,263,215.90} \text{ (FX)}
\end{aligned}$$

If the Net Balance is greater than the Basin Fund Target Balance, then **FA1=FX**.

If the Net Balance is less than the Basin Fund Target Balance, then **FA1=FX-(BFTB-NB)**.

B. Basin Fund Revenue Factor (FA2)

The second factor ensures that Western collects sufficient funds to meet the Basin Fund Target Balance so long as the amount needed does not exceed the forecasted purchase expense (FX):

**In the situation when there is no projected revenue:**

$$\mathbf{FA2} = \text{If } (NR > -(BFBB - BFTB), FX, FX + NR + (BFBB - BFTB))$$

$$= \$6,130,934 (NR) \text{ is greater than } (\$21,464,066) \text{ then:}$$

$$= \$17,263,215.90 (FX)$$

If the Net Revenue (loss) value does not result in a loss that exceeds the allowable decrease value of the Basin Fund Beginning Balance  $(-(BFBB - BFTB))$ , then **FA2=FX**.

If the Net Revenue (loss) results in a loss that exceeds the allowable decrease value of the Basin Fund Beginning Balance  $(-(BFBB - BFTB))$ , then **FX + NR + (BFBB - BFTB)**.

**FA** – Determine the funds available for purchasing firming energy by using the lesser of FA1 and FA2.

FA1 and FA2 are equal, so:

$$\mathbf{FA} = \$17,263,215.90 (FX)$$

**FARR** – Calculate the additional revenue to be recovered by subtracting the Funds Available from the forecasted energy purchase power expenses.

$$\mathbf{FARR} = FX - FA$$

$$= \$17,263,215.90 (FX) - \$17,263,215.90 (FA)$$

$$= \$ 0.00$$

**STEP FOUR: Once the funds available for purchases have been determined, the CRC can be calculated and the Waiver Level (WL) can be determined.**

A. Cost Recovery Charge: The CRC will be a charge to recover the additional revenue required as calculated in Step 3. The CRC will apply to all customers who choose not to request a

waiver of the CRC, as discussed below. The CRC equals the additional revenue to be recovered divided by the total energy allocation to all customers for the FY.

$$\text{CRC} = \text{FARR} / (\text{EA} * 1,000)$$

$$= \$ 0.00 \text{ charge}$$

B. Waiver Level (WL): Western will establish an energy WL that provides Western the ability to reduce purchase power expenses by scheduling less energy than what is contractually required. Therefore, for those customers who voluntarily schedule no more energy than their proportionate share of the WL, Western will waive the CRC for that year.

After the Funds Available has been determined, the WL will be set at the sum of the energy that can be provided through hydro generation and purchased with Funds Available. The WL will not be less than the forecasted Hydro Energy.

$$\text{WL} = \text{If } (\text{EA} < \text{HE}, \text{EA}, \text{HE} + (\text{FE} * (\text{FA} / \text{FX})))$$

$$= 4,952 \text{ (EA) is not less than } 4,924 \text{ (HE) then:}$$

$$= 4,924 \text{ (HE)} + (504.33 \text{ (FE)} * (\$17,263,215.90 \text{ (FA)} / \$17,263,215.90 \text{ (FX)}))$$

$$= \mathbf{5,428 \text{ (GWh) is the Waiver Level}}$$

If SHP Energy Allocation is less than forecasted Hydro Energy available, then **WL=EA**

If SHP Energy Allocation is greater than the forecasted Hydro Energy available, then

$$\mathbf{WL=HE+(FE *(FA/FX))}$$

**PRIOR YEAR ADJUSTMENT:**

The CRC PYA for subsequent years will be determined by comparing the prior year’s estimated firming-energy cost to the prior year’s actual firming-energy cost for the energy provided above the WL. The PYA will result in an increase or decrease to a customer’s firm energy costs over the course of the following year. The table below is the calculation of a PYA.

<b>PYA CALCULATION</b>			
		<b>Description</b>	<b>Formula</b>
<b>STEP ONE</b>	<b>Determine actual expenses and purchases for previous year’s firming. This data will be obtained from Western’s financial statements at the end of the FY.</b>		
	<b>PFX</b>	Prior Year Actual Firming Expenses (\$)	Financial Statements
	<b>PFE</b>	Prior Year Actual Firming Energy (GWh)	Financial Statements
<b>STEP TWO</b>	<b>Determine the actual firming cost for the CRC portion.</b>		
	<b>EAC</b>	Sum of the energy allocations of customers subject to the PYA (GWh)	
	<b>FFC</b>	Forecasted Firming Energy Cost – (\$/MWh)	From CRC Calculation
	<b>AFC</b>	Actual Firming Energy Cost – (\$/MWh)	PFX/PFE
	<b>CRCEP</b>	CRC Energy Percentage	From CRC Calculation
	<b>CRCE</b>	Purchased Energy for the CRC (GWh)	EAC*CRCEP
<b>STEP THREE</b>	<b>Determine Revenue Adjustment (RA) and PYA.</b>		
	<b>RA</b>	Revenue Adjustment (\$)	(AFC-FFC)*CRCE*1,000
	<b>PYA</b>	<b>Prior Year Adjustment (mills/kWh)</b>	(RA/EAC)/1,000

Narrative PYA Calculation

**STEP ONE: Determine actual expenses and purchases for previous year’s firming. This data will be obtained from Western’s financial statements at end of FY.**

**PFX** - Prior year actual firming expense

**PFE** - Prior year actual firming energy

**STEP TWO: Determine the actual firming cost for the CRC portion.**

**EAC** - Sum of the energy allocations of customers subject to the PYA

**CRCE** - The amount of CRC Energy needed

**AFC** - The Actual Firming Energy Cost are the PFX divided by the PFE

$$AFC = (PFX/PFE)/1,000$$

**STEP THREE: Determine Revenue Adjustment (RA) and Prior Year Adjustment (PYA).**

**RA** - The Revenue Adjustment is AFC less FFC times CRCE

$$RA = (AFC-FFC)*CRCE*1,000$$

**PYA** = The PYA is the RA divided by the EAC for the CRC customers only.

$$PYA = (RA/EAC)/1,000$$

The customer's PYA will be based on its prior year's energy multiplied by the resulting mills/kWh to determine the dollar amount that will be assessed. The customers will be charged or credited for this dollar amount equally in the remaining months of the next year's billing cycle. Western will attempt to complete this calculation by December of each year. Therefore, if the PYA is calculated in December, the charge/credit will be spread over the remaining 9 months of the FY (January through September).

**Shortage Criteria Trigger:**

In the event that Reclamation's 24-month study projects that Glen Canyon Dam water releases will drop below 8.23 MAF in a water year (October through September), Western will recalculate the CRC to include those lower estimates of hydropower generation and the estimated costs for the additional purchase power necessary. Western, as in the yearly projection for the CRC, will give the customers a 45-day notice to request a waiver of the CRC, if they do not want to have the CRC charge added to their energy bill. This recalculation will remain in effect for the remainder of the current FY.

In the event that hydropower generation returns to an 8.23 MAF or higher during the trigger implementation, a new CRC will be calculated for the next month, and the customers will be notified.

CRC Schedule for customers

Consistent with the procedures at 10 CFR 903, Western will provide its customers with information concerning the anticipated CRC for the upcoming FY in May. The established CRC will be in effect for the entire FY. The table below displays the time frame for determining the amount of purchases needed, developing customers’ load schedules, and making purchases.

**CRC Schedule**

<b>Task</b>	<b>Respective Dates Under Table CRC Tiers<sup>1</sup></b>		
	<b>i, ii, and iii</b>	<b>iv<sup>2</sup></b>	<b>v<sup>3</sup></b>
<b>24-Month Study (Forecast to Model Projections)</b>	April 1	April 1 October 1	Monthly Study
<b>CRC Notice to Customers</b>	May 1	May 1 November 1	Monthly
<b>Waiver Request Submitted by Customers</b>	June 15	Within 45 days	Within 30 days
<b>CRC Effective</b>	October 1	August 1 February 1	Updated Monthly

Notes:

<sup>1</sup> This schedule does not apply if the CRC is triggered by the Glen Canyon Dam annual releases dropping below 8.23 MAF.

<sup>2</sup> If it is determined during the additional reviews, under tier **iv**, that a CRC is necessary, customers will be notified that a CRC will be implemented in 90 days. Western will provide its customers with information concerning the anticipated CRC and give them 45 days to request a waiver or accept the CRC. The established CRC will be in effect for 12 months from the date implemented unless superseded by another CRC.

<sup>3</sup> If it is determined during the additional reviews, under tier **v**, that a CRC is necessary, customers will be notified that a CRC will be implemented in 60 days. Western will provide its customers with information concerning the anticipated CRC and give them 30 days to request a waiver or accept the CRC. The established CRC will be in effect for 12 months from the date implemented unless superseded by another CRC.

Billing Demand:

The billing demand will be the greater of:

1. The highest 30-minute integrated demand measured during the month up to, but not more than, the delivery obligation under the power sales contract, or
2. The Contract Rate of Delivery.

Billing Energy:

The billing energy will be the energy measured during the month up to, but not more than, the delivery obligation under the power sales contract.

Adjustment for Waiver:

Customers can choose not to take the full SHP energy supplied as determined in the attached formulas for CRC and will be billed the Energy and Capacity rates listed above, but not the CRC.

Adjustment for Transformer Losses:

If delivery is made at transmission voltage but metered on the low-voltage side of the substation, the meter readings will be increased to compensate for transformer losses as provided in the contract.

Adjustment for Power Factor:

The customer will be required to maintain a power factor at all points of measurement between 95 percent lagging and 95 percent leading.

Adjustment for Western Replacement Power:

Pursuant to the contractor's Firm Electric Service Contract, as amended, Western will bill the contractor for its proportionate share of the costs of Western Replacement Power (WRP) within a given time period. Western will include in the contractor's monthly power bill the cost of the WRP and the incremental administrative costs associated with WRP.

Adjustment for Customer Displacement Power Administrative Charges:

Western will include in the contractor's regular monthly power bill the incremental administrative costs associated with Customer Displacement Power.

Rate Schedule SP-EI4

SCHEDULE 4 to Tariff  
(Supersedes Schedule SP-EI3)

**UNITED STATES DEPARTMENT OF ENERGY  
WESTERN AREA POWER ADMINISTRATION**

**COLORADO RIVER STORAGE PROJECT MANAGEMENT CENTER  
COLORADO RIVER STORAGE PROJECT**

**ENERGY IMBALANCE SERVICE  
(Approved Under Rate Order No. WAPA-169)**

Effective:

Rate Schedule SP-EI4 will be placed into effect on an interim basis on the first day of the first full-billing period beginning on or after October 1, 2015, and will remain in effect until FERC confirms, approves, and places the rate schedules in effect on a final basis through September 30, 2020, or until the rate schedules are superseded.

Applicable:

To all CRSP transmission customers receiving this service.

Formula Rates:

Provided through the Western Area Colorado Missouri (WACM) Balancing Authority under Rate Schedule L-AS4, or as superseded.

Rate Schedule SP-FR4

SCHEDULE 3 to Tariff  
(Supersedes Schedule SP-FR3)

**UNITED STATES DEPARTMENT OF ENERGY  
WESTERN AREA POWER ADMINISTRATION**

**COLORADO RIVER STORAGE PROJECT MANAGEMENT CENTER  
COLORADO RIVER STORAGE PROJECT**

**REGULATION AND FREQUENCY RESPONSE SERVICE**  
**(Approved Under Rate Order No. WAPA-169)**

Effective:

Rate Schedule SP-FR4 will be placed into effect on an interim basis on the first day of the first full-billing period beginning on or after October 1, 2015, and will remain in effect until FERC confirms, approves, and places the rate schedules in effect on a final basis through September 30, 2020, or until the rate schedules are superseded.

Applicable:

To all CRSP customers receiving this service.

Formula Rate:

Provided through the Western Area Colorado Missouri (WACM) Balancing Authority under Rate Schedule L-AS3 or as superseded. If the CRSP MC has regulation available for sale from Salt Lake City Area Integrated Projects resources, the rate will be calculated using the formula below.

$$\begin{array}{l} \text{Regulation} \\ \text{Service} \\ \text{Rate} \end{array} = \frac{\text{Total Annual Revenue Requirement for Regulation Service}}{\text{Regulating Plant Capacity}}$$

**UNITED STATES DEPARTMENT OF ENERGY  
WESTERN AREA POWER ADMINISTRATION**

**COLORADO RIVER STORAGE PROJECT MANAGEMENT CENTER  
COLORADO RIVER STORAGE PROJECT**

**NON-FIRM POINT-TO-POINT TRANSMISSION SERVICE**  
**(Approved Under Rate Order No. WAPA-169)**

Effective:

Rate Schedule SP-NFT7 will be placed into effect on an interim basis on the first day of the first full-billing period beginning on or after October 1, 2015, and will remain in effect until FERC confirms, approves, and places the rate schedules in effect on a final basis through September 30, 2020, or until the rate schedules are superseded.

Applicable:

The transmission customer will compensate the Colorado River Storage Project each month for Non-Firm, Point-to-Point Transmission Service under the applicable Non-Firm, Point-to-Point Transmission Service Agreement and the formula rate described herein.

Formula Rate:

$$\begin{array}{l} \text{Maximum Non-Firm Point-To-Point} \\ \text{Transmission Rate} \end{array} = \begin{array}{l} \text{Firm Point-To-Point} \\ \text{Transmission Rate} \end{array}$$

A recalculated rate will go into effect every October 1 based on the above formula and updated financial and load data. Western will notify the transmission customer annually of the recalculated rate on or before September 1. Discounts may be offered from time-to-time in accordance with Western's Open Access Transmission Tariff.

Billing:

The formula rate above applies to the maximum amount of capacity reserved for periods ranging from 1 hour to 1 month, payable whether used or not. Billing will occur monthly.

Adjustment for Losses:

Power and energy losses incurred in connection with the transmission and delivery of power and energy under this rate schedule shall be supplied by the customer in accordance with the service contract. If losses are not fully provided by a transmission customer, charges for financial compensation may apply.

**UNITED STATES DEPARTMENT OF ENERGY  
WESTERN AREA POWER ADMINISTRATION**

**COLORADO RIVER STORAGE PROJECT MANAGEMENT CENTER  
COLORADO RIVER STORAGE PROJECT**

**NETWORK INTEGRATION TRANSMISSION SERVICE  
(Approved Under Rate Order No. WAPA-169)**

Effective:

Rate Schedule SP-NW4 will be placed into effect on an interim basis on the first day of the first full-billing period beginning on or after October 1, 2015, and will remain in effect until FERC confirms, approves, and places the rate schedules in effect on a final basis through September 30, 2020, or until the rate schedules are superseded.

Applicable:

The transmission customer will compensate the Colorado River Storage Project Management Center each month for Network Integration Transmission Service under the applicable Network Integration Transmission Service Agreement and the formula rate described herein.

Formula Rate:

$$\text{Monthly Charge} = \frac{\text{Annual Transmission Revenue Requirement for Network Integration Transmission Service}}{12} \times \text{Transmission Customer's Load-Ratio Share}$$

A recalculated Annual Transmission Revenue Requirement for Network Integration Transmission Service will go into effect every October 1 based on the above formula and updated financial and operational data. Western will notify the transmission customer annually of the recalculated annual revenue requirement on or before September 1.

Billing:

Billing determinants for the formula rate above will be as specified in the service agreement.

Billing will occur monthly under the formula rate.

Adjustment for Losses:

Losses incurred for service under this rate schedule will be accounted as agreed to by the parties in accordance with the service agreement. If losses are not fully provided by a transmission customer, charges for financial compensation may apply.

**UNITED STATES DEPARTMENT OF ENERGY  
WESTERN AREA POWER ADMINISTRATION**

**COLORADO RIVER STORAGE PROJECT MANAGEMENT CENTER  
COLORADO RIVER STORAGE PROJECT**

**FIRM POINT-TO-POINT TRANSMISSION SERVICE**  
**(Approved Under Rate Order No. WAPA-169)**

Effective:

Rate Schedule SP-PTP8 will be placed into effect on an interim basis on the first day of the first full-billing period beginning on or after October 1, 2015, and will remain in effect until FERC confirms, approves, and places the rate schedules in effect on a final basis through September 30, 2020, or until the rate schedules are superseded.

Applicable:

The transmission customer will compensate the Colorado River Storage Project each month for Reserved Capacity under the applicable Firm Point-To-Point Transmission Service Agreement and the formula rate described herein.

Formula Rate:

$$\text{Firm Point-To-Point Transmission Rate} = \frac{\text{Annual Transmission Revenue Requirement (\$)}}{\text{Firm Transmission Capacity Reservations + Network Integration Transmission Service Capacity (kW)}}$$

A recalculated rate will go into effect every October 1 based on the above formula and updated financial and operational data. Western will notify the transmission customer annually of the recalculated rate on or before September 1. Discounts may be offered from time-to-time in accordance with Western's Open Access Transmission Tariff.

Billing:

The formula rate above applies to the maximum amount of capacity reserved for periods ranging from 1 hour to 1 month, payable whether used or not. Billing will occur monthly.

Adjustment for Losses:

Losses incurred for service under this rate schedule will be accounted for as agreed to by the parties in accordance with the service agreement. If losses are not fully provided by a transmission customer, charges for financial compensation may apply.

Rate Schedule SP-RS4

SCHEDULE 2 to Tariff  
(Supersedes Schedule SP-RS3)

**UNITED STATES DEPARTMENT OF ENERGY  
WESTERN AREA POWER ADMINISTRATION**

**COLORADO RIVER STORAGE PROJECT MANAGEMENT CENTER  
COLORADO RIVER STORAGE PROJECT**

**REACTIVE SUPPLY AND VOLTAGE CONTROL FROM GENERATION AND  
OTHER SOURCES SERVICE**  
**(Approved Under Rate Order No. WAPA-169)**

Effective:

Rate Schedule SP-RS4 will be placed into effect on an interim basis on the first day of the first full-billing period beginning on or after October 1, 2015, and will remain in effect until FERC confirms, approves, and places the rate schedules in effect on a final basis through September 30, 2020, or until the rate schedules are superseded.

Applicable:

To all CRSP transmission customers receiving this service.

Formula Rate:

Provided through the Western Area Colorado Missouri (WACM) Balancing Authority under Rate Schedule L-AS2, or as superseded.

Rate Schedule SP-SD4

SCHEDULE 1 to Tariff  
(Supersedes Schedule SP-SD3)

**UNITED STATES DEPARTMENT OF ENERGY  
WESTERN AREA POWER ADMINISTRATION**

**COLORADO RIVER STORAGE PROJECT MANAGEMENT CENTER  
COLORADO RIVER STORAGE PROJECT**

**SCHEDULING, SYSTEM CONTROL, AND DISPATCH SERVICE**  
**(Approved Under Rate Order No. WAPA-169)**

Effective:

Rate Schedule SP-SD4 will be placed into effect on an interim basis on the first day of the first full-billing period beginning on or after October 1, 2015, and will remain in effect until FERC confirms, approves, and places the rate schedules in effect on a final basis through September 30, 2020, or until the rate schedules are superseded.

Applicable:

Scheduling, System Control, and Dispatch service is required to schedule the movement of power through, out of, within, or into a control area. The transmission customer must purchase this service from the transmission provider. The charges for this service will be included in the CRSP transmission service rates.

Formula Rate:

Provided through the Western Area Colorado Missouri (WACM) Balancing Authority under Rate Schedule L-AS1, or as superseded.

**UNITED STATES DEPARTMENT OF ENERGY  
WESTERN AREA POWER ADMINISTRATION**

**COLORADO RIVER STORAGE PROJECT MANAGEMENT CENTER  
COLORADO RIVER STORAGE PROJECT**

**OPERATING RESERVES - SPINNING AND  
SUPPLEMENTAL RESERVE SERVICES  
(Approved Under Rate Order No. WAPA-169)**

Effective:

Rate Schedule SP-SSR4 will be placed into effect on an interim basis on the first day of the first full-billing period beginning on or after October 1, 2015, and will remain in effect until FERC confirms, approves, and places the rate schedules in effect on a final basis through September 30, 2020, or until the rate schedules are superseded.

Applicable:

To all CRSP transmission customers receiving this service.

Character of Service:

*Spinning Reserve* is defined in Schedule 5 of Western Area Power Administration's Open Access Transmission Tariff.

*Supplemental Reserve* is defined in Schedule 6 of Western Area Power Administration's Open Access Transmission Tariff.

Formula Rate:

The transmission customer serving loads within the transmission provider's balancing authority must acquire Spinning and Supplemental Reserve services from CRSP, from a third party, or by self-supply.

**UNITED STATES DEPARTMENT OF ENERGY  
WESTERN AREA POWER ADMINISTRATION**

**COLORADO RIVER STORAGE PROJECT MANAGEMENT CENTER  
COLORADO RIVER STORAGE PROJECT**

**UNRESERVED USE PENALTIES**  
**(Approved Under Rate Order No. WAPA-169)**

Effective:

Rate Schedule SP-UU1 will be placed into effect on an interim basis on the first day of the first full-billing period beginning on or after October 1, 2015, and will remain in effect until FERC confirms, approves, and places the rate schedules in effect on a final basis through September 30, 2020, or until the rate schedules are superseded.

Applicable:

The transmission customer shall compensate the Colorado River Storage Project (CRSP) each month for any unreserved use of the transmission system (Unreserved Use) under the applicable transmission service rates as outlined herein. Unreserved Use occurs when an eligible customer uses transmission service that it has not reserved or a transmission customer uses transmission service in excess of its reserved capacity. Unreserved Use may also include a customer's failure to curtail transmission when requested.

Penalty Rate:

The penalty rate for a transmission customer that engages in Unreserved Use is 200 percent of CRSP's approved transmission service rate for point-to-point (PTP) transmission service assessed as follows:

- (i) The Unreserved Use Penalty for a single hour of Unreserved Use is based upon the rate for daily firm PTP service.
- (ii) The Unreserved Use Penalty for more than one assessment for a given duration (e.g., daily) increases to the next longest duration (e.g., weekly).
- (iii) The Unreserved Use Penalty for multiple instances of Unreserved Use (e.g., more than 1 hour) within a day is based on the rate for daily firm PTP service. The Unreserved Use Penalty charge for multiple instances of Unreserved Use isolated to 1 calendar week would result in a penalty based on the rate for weekly firm PTP service. The Unreserved Use Penalty charge for multiple instances of Unreserved Use during more than 1 week in a calendar month will be based on the rate for monthly firm PTP service.

A transmission customer that exceeds its firm reserved capacity at any point of receipt or point of delivery or an eligible customer that uses transmission service at a point of receipt or point of delivery that it has not reserved is required to pay for all ancillary services identified in Western's Open Access Transmission Tariff that were provided by the CRSP and associated with the Unreserved Use. The customer will pay for ancillary services based on the amount of transmission service it used and did not reserve.

Rate:

The rate for Unreserved Use Penalties is 200 percent of Western's approved rate for firm point-to-point transmission service assessed as described above. Any change to the rate for Unreserved Use Penalties will be listed in a revision to this rate schedule issued under applicable Federal laws and policies and made part of the applicable service agreement.

# FINAL STATUS OF REPAYMENT

## COLLBRAN PROJECT

(Dollars in thousands)

	Cumulative 2018 <sup>1</sup>	Adjustment	Annual 2019 <sup>2</sup>	Cumulative 2019
<b>Revenue:</b>				
Gross Operating Revenue	72,066.046	(221.961) <sup>3</sup>	2,376.724	74,220.809
Income transfers (net)	35.916	0.000	0.000	35.916
<b>Total Operating Revenue (A)</b>	<b>72,101.962</b>	<b>(221.961)</b>	<b>2,376.724</b>	<b>74,256.725</b>
<b>Expenses:</b>				
O & M and other	36,309.693	0.000	1,884.631	38,194.324
Purchase power and other	0.000	0.000	0.000	0.000
<b>Interest</b>				
Federally financed	12,601.221	0.000	141.401	12,742.622
Non-Federally financed	0.000	0.000	0.000	0.000
<b>Total Interest</b>	<b>12,601.221</b>	<b>0.000</b>	<b>141.401</b>	<b>12,742.622</b>
<b>Total Expense (B)</b>	<b>48,910.914</b>	<b>0.000</b>	<b>2,026.032</b>	<b>50,936.946</b>
<b>(Deficit)/Surplus revenue (C)</b>	<b>0.001</b>	<b>(221.961)</b>	<b>221.961</b>	<b>0.001</b>
<b>Investment:</b>				
Federally financed power	21,963.615	0.000	440.586	22,404.201
Non-Federally financed power	0.000	0.000	0.000	0.000
Nonpower	5,059.020	0.000	0.000	5,059.020
<b>Total Investment (D)</b>	<b>27,022.635</b>	<b>0.000</b>	<b>440.586</b>	<b>27,463.221</b>
<b>Investment repaid:</b>				
Federally financed power	18,132.028	0.000	128.731	18,260.759
Non-Federally financed power	0.000	0.000	0.000	0.000
Nonpower	5,059.020	0.000	0.000	5,059.020
<b>Total Investment repaid (E)</b>	<b>23,191.048</b>	<b>0.000</b>	<b>128.731</b>	<b>23,319.779</b>
<b>Investment unpaid:</b>				
Federally financed power	3,831.587	0.000	311.855	4,143.442
Non-Federally financed power	0.000	0.000	0.000	0.000
Nonpower	0.000	0.000	0.000	0.000
<b>Total Investment unpaid (F)</b>	<b>3,831.587</b>	<b>0.000</b>	<b>311.855</b>	<b>4,143.442</b>
<b>Fund Balances:</b>				
Colorado River Development (G)	0.000	0.000	0.000	0.000
Working capital (H)	0.000	0.000	0.000	0.000
<b>Percent of investment repaid to date:</b>				
Federal	82.55%			81.51%
Non-Federal	N/A			N/A
Nonpower	100.00%			100.00%

### This column ties to the cumulative FY 2018 numbers on page 122 of the FY 2018 Annual Report Statistical Appendix.

<sup>2</sup> Based on FY 2019 audited financial statements.

<sup>3</sup> Reciprocal entry for FY2018 Revenue transfer from CRSP to Collbran.

**FINAL STATUS OF REPAYMENT**  
**COLORADO RIVER STORAGE PROJECT**  
(Dollars in thousands)

	Cumulative 2018 <sup>1</sup>	Adjustment	Annual 2019 <sup>2</sup>	Cumulative 2019
<b>Revenue:</b>				
Gross Operating Revenue	6,326,075.662	0.000	251,271.996	6,577,347.658
Income transfers (net)	(51,164.691)	7,410.251	3,230.000	(40,524.440)
<b>Total Operating Revenue (A)</b>	<b>6,274,910.971</b>	<b>7,410.251</b>	<b>254,501.996</b>	<b>6,536,823.218</b>
<b>Expenses:</b>				
O & M and other	2,209,243.447	(519.338)	106,134.464	2,314,858.573
Purchase power and Wheeling	1,861,322.255	1,150.000	73,375.936	1,935,848.191
<b>Interest</b>				
Federally financed	782,879.466	0.000	9,733.437	792,612.903
Non-Federally financed	7,495.832	0.000	532.671	8,028.503
<b>Total Interest</b>	<b>790,375.298</b>	<b>0.000</b>	<b>10,266.108</b>	<b>800,641.406</b>
<b>Total Expense (B)</b>	<b>4,860,941.000</b>	<b>630.662</b>	<b>189,776.508</b>	<b>5,051,348.170</b>
<b>(Deficit)/Surplus revenue (C)</b>	<b>(0.002)</b>	<b>(25,928.568)</b>	<b>25,928.567</b>	<b>(0.003)</b>
<b>Investment:</b>				
Federally financed power	1,374,515.172	0.000	19,918.905	1,394,434.077
Non-Federally financed power	0.000	0.000	0.000	0.000
Nonpower	1,174,515.066	32,056.754	4,992.563	1,211,564.383
<b>Total Investment (D)</b>	<b>2,549,030.238</b>	<b>32,056.754</b>	<b>24,911.468</b>	<b>2,605,998.460</b>
<b>Investment repaid: <sup>4</sup></b>				
Federally financed power	1,205,178.414	0.000	38,796.921	1,243,975.335
Non-Federally financed power	0.000	0.000	0.000	0.000
Nonpower	208,791.559	32,708.157	0.000	241,499.716
<b>Total Investment repaid (E)</b>	<b>1,413,969.973</b>	<b>32,708.157</b>	<b>38,796.921</b>	<b>1,485,475.051</b>
<b>Investment unpaid:</b>				
Federally financed power	169,336.758	0.000	(18,878.016)	150,458.742
Non-Federally financed power	0.000	0.000	0.000	0.000
Nonpower	965,723.507	(651.403)	4,992.563	970,064.667
<b>Total Investment unpaid (F)</b>	<b>1,135,060.265</b>	<b>(651.403)</b>	<b>(13,885.453)</b>	<b>1,120,523.409</b>
<b>Fund Balances:</b>				
Colorado River Development (G)	0.000	0.000	0.000	0.000
Working capital (H)	0.000	0.000	0.000	0.000
<b>Percent of investment repaid to date:</b>				
Federal	87.68%			89.21%
Non-Federal	N/A			N/A
Nonpower	17.78%			19.93%

<sup>1</sup> This column ties to the cumulative FY 2018 numbers on page 122 of the FY 2018 Annual Report Statistical Appendix.

<sup>2</sup> Based on FY 2019 audited financial statements.

<sup>3</sup> Revenue Transfers to SLCA/IP Projects

<sup>4</sup> Gains & Losses for 2019 (CRSP Losses on Disposition of Assets) /Unexpended MOA Revenue

<sup>5</sup> Reciprocal entry for Purchase Power not reclassified as non reimbursable before closeout

<sup>6</sup> Aid to Irrigation Investment - moved from offset methodology to applying actual revenue.

## FINAL STATUS OF REPAYMENT

### DOLORES PROJECT (Dollars in thousands)

	Cumulative 2018 <sup>1</sup>	Adjustment	Annual 2019 <sup>2</sup>	Cumulative 2019
<b>Revenue:</b>				
Gross Operating Revenue	101,429.175	(6,726.660) <sup>3</sup>	6,816.829	101,519.344
Income transfers (net)	2,681.007	0.000	78.000	2,759.007
<b>Total Operating Revenue (A)</b>	<b>104,110.182</b>	<b>(6,726.660)</b>	<b>6,894.829</b>	<b>104,278.351</b>
<b>Expenses:</b>				
O & M and other	16,507.222	(90.223) <sup>4</sup>	727.884	17,144.883
Purchase power and other	0.000	0.000	0.000	0.000
<b>Interest</b>				
Federally financed	49,436.188	0.000	(712.564)	48,723.624
Non-Federally financed	0.000	0.000	0.000	0.000
<b>Total Interest</b>	<b>49,436.188</b>	<b>0.000</b>	<b>(712.564)</b>	<b>48,723.624</b>
<b>Total Expense (B)</b>	<b>65,943.410</b>	<b>(90.223)</b>	<b>15.320</b>	<b>65,868.507</b>
<b>(Deficit)/Surplus revenue (C)</b>	<b>0.000</b>	<b>(6,636.437)</b>	<b>6,636.436</b>	<b>(0.001)</b>
<b>Investment:</b>				
Federally financed power	38,986.252	0.000	864.694	39,850.946
Non-Federally financed power	0.000	0.000	0.000	0.000
Nonpower	0.000	0.000	0.000	0.000
<b>Total Investment (D)</b>	<b>38,986.252</b>	<b>0.000</b>	<b>864.694</b>	<b>39,850.946</b>
<b>Investment repaid:</b>				
Federally financed power	38,166.772	0.000	243.073	38,409.845
Non-Federally financed power	0.000	0.000	0.000	0.000
Nonpower	0.000	0.000	0.000	0.000
<b>Total Investment repaid (E)</b>	<b>38,166.772</b>	<b>0.000</b>	<b>243.073</b>	<b>38,409.845</b>
<b>Investment unpaid:</b>				
Federally financed power	819.480	0.000	621.621	1,441.101
Non-Federally financed power	0.000	0.000	0.000	0.000
Nonpower	0.000	0.000	0.000	0.000
<b>Total Investment unpaid (F)</b>	<b>819.480</b>	<b>0.000</b>	<b>621.621</b>	<b>1,441.101</b>
<b>Fund Balances:</b>				
Colorado River Development (G)	0.000	0.000	0.000	0.000
Working capital (H)	0.000	0.000	0.000	0.000
<b>Percent of investment repaid to date:</b>				
Federal	97.90%			96.38%
Non-Federal	N/A			N/A
Nonpower	N/A			N/A

<sup>1</sup> This column ties to the cumulative FY 2018 numbers on page 123 of the FY 2018 Annual Report Statistical Appendix.

<sup>2</sup> Based on the FY 2019 audited financial statements.

<sup>3</sup> Reciprocating entry for FY18 Revenue transfer from CRSP to Dolores.

## FINAL STATUS OF REPAYMENT

### Rio Grande Project (Dollars in thousands)

	Cumulative 2018 <sup>1</sup>	Adjustment	Annual 2019 <sup>2</sup>	Cumulative 2019
<b>Revenue:</b>				
Gross Operating Revenue	121,908.740	(461.630) <sup>3</sup>	4,478.906	125,926.016
Income transfers (net)	0.026	0.000	0.000	0.026
<b>Total Operating Revenue (A)</b>	<b>121,908.766</b>	<b>(461.630)</b>	<b>4,478.906</b>	<b>125,926.042</b>
<b>Expenses:</b>				
O & M and other	77,298.399	0.000	3,869.621	81,168.020
Purchase power and other	4,774.405	0.000	0.000	4,774.405
<b>Interest</b>				
Federally financed	15,078.333	0.000	146.834	15,225.167
Non-Federally financed	0.000	0.000	0.000	0.000
<b>Total Interest</b>	<b>15,078.333</b>	<b>0.000</b>	<b>146.834</b>	<b>15,225.167</b>
<b>Total Expense (B)</b>	<b>97,151.137</b>	<b>0.000</b>	<b>4,016.455</b>	<b>101,167.592</b>
<b>(Deficit)/Surplus revenue (C)</b>	<b>0.001</b>	<b>(461.630)</b>	<b>461.629</b>	<b>(0.000)</b>
<b>Investment:</b>				
Federally financed power	23,849.089	0.000	26.670	23,875.759
Non-Federally financed power	0.000	0.000	0.000	0.000
Nonpower	5,801.911	0.000	0.000	5,801.911
<b>Total Investment (D)</b>	<b>29,651.000</b>	<b>0.000</b>	<b>26.670</b>	<b>29,677.670</b>
<b>Investment repaid:</b>				
Federally financed power	18,955.717	0.000	0.822	18,956.539
Non-Federally financed power	0.000	0.000	0.000	0.000
Nonpower	5,801.911	0.000	0.000	5,801.911
<b>Total Investment repaid (E)</b>	<b>24,757.628</b>	<b>0.000</b>	<b>0.822</b>	<b>24,758.450</b>
<b>Investment unpaid:</b>				
Federally financed power	4,893.372	0.000	25.848	4,919.220
Non-Federally financed power	0.000	0.000	0.000	0.000
Nonpower	0.000	0.000	0.000	0.000
<b>Total Investment unpaid (F)</b>	<b>4,893.372</b>	<b>0.000</b>	<b>25.848</b>	<b>4,919.220</b>
<b>Fund Balances:</b>				
Colorado River Development (G)	0.000	0.000	0.000	0.000
Working capital (H)	0.000	0.000	0.000	0.000
<b>Percent of investment repaid to date:</b>				
Federal	79.48%			79.40%
Non-Federal	N/A			N/A
Nonpower	100.00%			100.00%

<sup>1</sup> This column ties to the cumulative FY 2018 numbers on page 123 of the FY 2018 Annual Report Statistical Appendix.

<sup>2</sup> Based on the FY 2019 audited financial statements.

<sup>3</sup> Reciprocating entry to FY18 Revenue transfer and FY19 Revenue transfer from CRSP to Rio Grande

## FINAL STATUS OF REPAYMENT

### SEEDSKADEE PROJECT

(Dollars in thousands)

	Cumulative 2018 <sup>1</sup>	Adjustment	Annual 2019 <sup>2</sup>	Cumulative 2019
<b>Revenue:</b>				
Gross Operating Revenue	23,543.961	0.000	41.898	23,585.859
Income transfers (net)	13,842.042	0.000	1,142.000	14,984.042
<b>Total Operating Revenue (A)</b>	<b>37,386.003</b>	<b>0.000</b>	<b>1,183.898</b>	<b>38,569.901</b>
<b>Expenses:</b>				
O & M and other	21,210.186	0.000	870.423	22,080.609
Purchase power and other	0.000	0.000	0.000	0.000
<b>Interest</b>				
Federally financed	6,476.704	0.000	130.178	6,606.882
Non-Federally financed	0.000	0.000	0.000	0.000
<b>Total Interest</b>	<b>6,476.704</b>	<b>0.000</b>	<b>130.178</b>	<b>6,606.882</b>
<b>Total Expense (B)</b>	<b>27,686.890</b>	<b>0.000</b>	<b>1,000.601</b>	<b>28,687.491</b>
<b>(Deficit)/Surplus revenue (C)</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b> <sup>3</sup>
<b>Investment:</b>				
Federally financed power	12,527.260	(13.517) <sup>3</sup>	(115.362)	12,398.381
Non-Federally financed power	0.000	0.000	0.000	0.000
Nonpower	0.000	0.000	0.000	0.000
<b>Total Investment (D)</b>	<b>12,527.260</b>	<b>(13.517)</b>	<b>(115.362)</b>	<b>12,398.381</b>
<b>Investment repaid:</b>				
Federally financed power	9,699.113	0.000	183.297	9,882.410
Non-Federally financed power	0.000	0.000	0.000	0.000
Nonpower	0.000	0.000	0.000	0.000
<b>Total Investment repaid (E)</b>	<b>9,699.113</b>	<b>0.000</b>	<b>183.297</b>	<b>9,882.410</b>
<b>Investment unpaid:</b>				
Federally financed power	2,828.147	(13.517)	(298.659)	2,515.971
Non-Federally financed power	0.000	0.000	0.000	0.000
Nonpower	0.000	0.000	0.000	0.000
<b>Total Investment unpaid (F)</b>	<b>2,828.147</b>	<b>(13.517)</b>	<b>(298.659)</b>	<b>2,515.971</b>
<b>Fund Balances:</b>				
Colorado River Development (G)	0.000	0.000	0.000	0.000
Working capital (H)	0.000	0.000	0.000	0.000
<b>Percent of investment repaid to date:</b>				
Federal	77.42%			79.71%
Non-Federal	N/A			N/A
Nonpower	N/A			N/A

<sup>1</sup> This column ties to the cumulative FY 2018 numbers on page 124 of the FY 2018 Annual Report Statistical Appendix.

<sup>2</sup> Based on the FY 2019 audited financial statements.

<sup>3</sup> Corrected to match Reclamation Financial data

**For Reference Only**

**SALT LAKE CITY AREA INTEGRATED PROJECTS**  
(Dollars in thousands)

	Cumulative 2018	Adjustment	Annual 2019	Cumulative 2019
<b>Revenue:</b>				
Gross Operating Revenue	6,645,023.584	(7,410.251)	264,986.353	6,902,599.686
Income transfers (net)	(34,605.700)	7,410.251	4,450.000	(22,745.449)
<b>Total Operating Revenue (A)</b>	6,610,417.884	0.000	269,436.353	6,879,854.237
<b>Expenses:</b>				
O & M and other	2,360,568.947	(609.561)	113,487.023	2,473,446.409
Purchase power and Wheeling	1,866,096.660	1,150.000	73,375.936	1,940,622.596
<b>Interest</b>				
Federally financed	866,471.912	0.000	9,439.286	875,911.198
Non-Federally financed	7,495.832	0.000	532.671	8,028.503
<b>Total Interest</b>	873,967.744	0.000	9,971.957	883,939.701
<b>Total Expense (B)</b>	5,100,633.351	540.439	196,834.916	5,298,008.706
<b>(Deficit)/Surplus revenue (C)</b>	(0.000)	(33,248.596)	33,248.593	(0.003)
<b>Investment:</b>				
Federally financed power	1,471,841.387	(13.517)	21,135.493	1,492,963.363
Non-Federally financed power	0.000	0.000	0.000	0.000
Nonpower	1,185,375.997	32,056.754	4,992.563	1,222,425.314
<b>Total Investment (D)</b>	2,657,217.384	32,043.237	26,128.056	2,715,388.677
<b>Investment repaid: <sup>4</sup></b>				
Federally financed power	1,290,132.044	0.000	39,352.844	1,329,484.888
Non-Federally financed power	0.000	0.000	0.000	0.000
Nonpower	219,652.490	32,708.157	0.000	252,360.647
<b>Total Investment repaid (E)</b>	1,509,784.534	32,708.157	39,352.844	1,581,845.535
<b>Investment unpaid:</b>				
Federally financed power	181,709.343	(13.517)	(18,217.351)	163,478.475
Non-Federally financed power	0.000	0.000	0.000	0.000
Nonpower	965,723.507	(651.403)	4,992.563	970,064.667
<b>Total Investment unpaid (F)</b>	1,147,432.850	(664.920)	(13,224.788)	1,133,543.142
<b>Fund Balances:</b>				
Colorado River Development (G)	0.000	0.000	0.000	0.000
Working capital (H)	0.000	0.000	0.000	0.000
<b>Percent of investment repaid to date:</b>				
Federal	87.65%			89.05%
Non-Federal	N/A			N/A
Nonpower	18.53%			20.64%



**Salt Lake City Area Integrated Projects  
Annual Revenue Requirements and Firm Power Rates Comparison Table**

Item	Unit	WAPA 169	WAPA 190	Change	
		2017 Workplan	2022 Workplan	Amount	Percent
<b>Rate Setting Period:</b>					
Beginning year	FY	2016	2021		
Pinchpoint year	FY	2025	2029		
Number of rate setting years	Years	10	9		
<b>Annual Revenue Requirements:</b>					
<i>Expenses</i>					
<b>Operation and Maintenance:</b>					
WAPA	1,000	\$52,630	\$61,871	\$9,241	18%
Reclamation	1,000	\$34,535	\$39,100	\$4,565	13%
Total O&M	1,000	\$87,165	\$100,971	\$13,806	16%
Purchased Power 1/	1,000	\$10,280	\$2,237	(\$8,043)	-78%
Transmission	1,000	\$10,421	\$8,740	(\$1,681)	-16%
Integrated Projects requirements	1,000	\$8,610	\$7,029	(\$1,581)	-18%
Interest	1,000	\$4,706	\$3,535	(\$1,171)	-25%
Other 2/	1,000	\$14,587	\$12,142	(\$2,445)	-17%
Total Expenses	1,000	\$135,769	\$136,153	\$384	0%
<i>Principal payments</i>					
Deficits	1,000	\$0	\$0	\$0	0%
Replacements	1,000	\$30,037	\$34,330	\$4,293	14%
Original Project and Additions	1,000	\$3,937	\$3,572	(\$365)	-9%
Irrigation 3/	1,000	\$14,130	\$8,941	(\$5,189)	-37%
Total principal payments	1,000	\$48,104	\$46,843	(\$1,261)	-3%
<b>Total Annual Revenue Requirements</b>	1,000	<b>\$183,873</b>	<b>\$182,996</b>	<b>(\$877)</b>	<b>0%</b>
<b>(Less Offsetting Annual Revenue:)</b>					
Transmission (firm and non-firm)	1,000	\$19,640	\$18,338	(\$1,302)	-7%
Merchant Function 4/	1,000	\$9,918	\$9,199	(\$719)	-7%
Other 5/	1,000	\$5,118	\$4,610	(\$508)	-10%
Total Offsetting Annual Revenue	1,000	\$34,676	\$32,147	(\$2,529)	-7%
<b>Net Annual Revenue Requirements</b>	1,000	<b>\$149,197</b>	<b>\$150,850</b>	<b>\$1,653</b>	<b>1%</b>
<b>Energy Sales 6/</b>	<b>MWH</b>	<b>5,071,804</b>	<b>5,223,885</b>	<b>152,081</b>	<b>3%</b>
<b>Capacity Sales</b>	<b>kW</b>	<b>1,407,920</b>	<b>1,423,900</b>	<b>15,980</b>	<b>1%</b>
		<b>0</b>	<b>0</b>		
<b>Composite Rate</b>	<b>mills/kWh</b>	<b>29.42</b>	<b>28.88</b>	<b>-0.54</b>	<b>-1.8%</b>

1/ FY 2021-25 are projected costs using the August 2019, CRSS traces.

\$4 million in purchased power projected annually for the merchant function activities was removed

2/ Includes the cost of salinity, federal benefits costs, CME interest, reimbursable environmental costs, and 2011 MOA 1 costs.

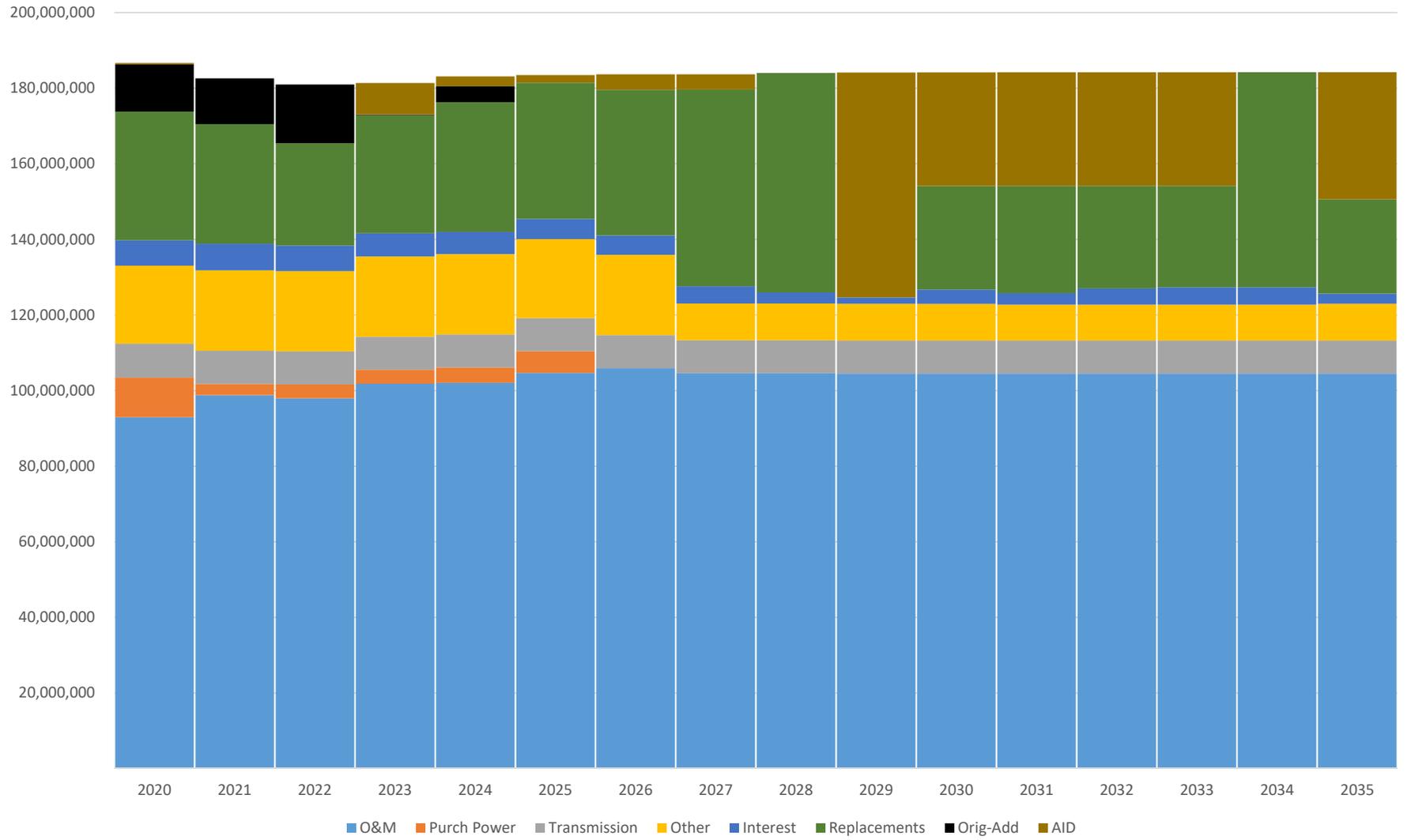
3/ Aid to Irrigation plus Aid to Participating Projects

4/ Includes transaction fees and resale energy.

5/ Other revenues include ancillary services, auxiliary services, spinning reserves, admin charges for WRP and CDP transactions, facility use, energy imbalance, and other misc. revenues.

6/ March 2020 project use estimates from Reclamation. (Average MWh Annual Sales for 2021-2029 minus Other Energy Sales)

### Revenue Requirements



**COLORADO RIVER STORAGE PROJECT  
O&M BUDGET PROJECTIONS  
FY 2021 Work Plan**

\* Western budget data from FY 2021 Work Plan dated 3/27/2019

\*\* Bureau budget data from FY 2021 Preliminary Work Program Schedules dated 6/15/2019/2019

ITEM	TYPE	Current Year	1	2	3	4	5	For Future	10 Year	9 Year
		2020	2021	2022	2023	2024	2025	5 Year Projection 2025-2029	Annual Average 2021-2030	Annual Average 2021-2029
<b>WESTERN *</b>										
<b>DESERT SOUTHWEST</b>										
GWA	O&M	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$0	\$0	\$0
O&M TRANSMISSION LINES	O&M	\$ 942,452	\$ 1,180,492	\$ 1,204,102	\$ 1,228,184	\$ 1,252,748	\$ 1,277,803	\$1,277,803	\$1,253,234	\$1,250,504
O&M SUBSTATIONS	O&M	\$ 6,212,319	\$ 6,913,396	\$ 7,051,664	\$ 7,192,697	\$ 7,336,551	\$ 7,483,282	\$7,483,282	\$7,339,400	\$7,323,413
OTHER EXPENSES	O&M	\$ 259,704	\$ 684,340	\$ 698,027	\$ 711,987	\$ 726,227	\$ 740,752	\$740,752	\$726,509	\$724,927
DEPRECIATION	Excluded	\$ 131,982	\$ 131,982	\$ 134,622	\$ 137,314	\$ 140,060	\$ 142,862	\$142,862	\$140,115	\$139,810
RETIRE, REPLACE, ADDITIONS	Excluded	\$ 6,570,000	\$ 7,253,416	\$ 5,912,000	\$ 2,982,000	\$ 1,957,000	\$ 1,532,000	\$1,532,000	\$2,729,642	\$2,862,713
POWER BILLING	O&M	\$ 22,973	\$ 20,048	\$ 20,449	\$ 20,858	\$ 21,275	\$ 21,701	\$21,701	\$21,283	\$21,237
C&RE	O&M	\$ 1,100	\$ 1,100	\$ 1,122	\$ 1,144	\$ 1,167	\$ 1,191	\$1,191	\$1,168	\$1,165
POWER MARKETING	O&M	\$ -	\$ 7,161	\$ 7,304	\$ 7,450	\$ 7,599	\$ 7,751	\$7,751	\$7,602	\$7,586
SYSTEM OPERATION & LOAD DISP	O&M	\$ 247,000	\$ 380,547	\$ 388,158	\$ 395,921	\$ 403,840	\$ 411,916	\$411,916	\$403,996	\$403,116
<b>DSW TOTAL BUDGET</b>		<b>\$14,387,530</b>	<b>\$16,572,482</b>	<b>\$15,417,447</b>	<b>\$12,677,556</b>	<b>\$11,846,467</b>	<b>\$11,619,257</b>	<b>\$11,619,257</b>	<b>\$12,622,949</b>	<b>\$12,734,471</b>
<b>DSW PRS O&amp;M</b>		<b>\$7,685,548</b>	<b>\$9,187,084</b>	<b>\$9,370,826</b>	<b>\$9,558,242</b>	<b>\$9,749,407</b>	<b>\$9,944,395</b>	<b>\$9,944,395</b>	<b>\$9,753,193</b>	<b>\$9,731,948</b>
<b>ROCKY MOUNTAIN</b>										
GWA	O&M	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$0	\$0	\$0
O&M TRANSMISSION LINES	O&M	\$ 7,035,174	\$ 7,542,352	\$ 7,693,199	\$ 7,847,063	\$ 8,004,004	\$ 8,164,084	\$8,164,084	\$8,007,112	\$7,989,671
O&M SUBSTATIONS	O&M	\$ 14,616,976	\$ 15,470,360	\$ 15,779,767	\$ 16,095,363	\$ 16,417,270	\$ 16,745,615	\$16,745,615	\$16,423,645	\$16,387,871
OTHER EXPENSES	O&M	\$ 1,636,736	\$ 1,740,385	\$ 1,775,193	\$ 1,810,697	\$ 1,846,911	\$ 1,883,849	\$1,883,849	\$1,847,628	\$1,843,603
DEPRECIATION	Excluded	\$ 602,400	\$ 747,000	\$ 747,000	\$ 747,000	\$ 747,000	\$ 747,000	\$747,000	\$747,000	\$747,000
RETIRE, REPLACE, ADDITIONS	Excluded	\$ 7,854,338	\$ 9,544,760	\$ 8,025,000	\$ 6,184,000	\$ 6,556,000	\$ 8,203,000	\$8,203,000	\$7,952,776	\$7,924,973
PURCHASED POWER & WHEELING	Excluded	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$0	\$0	\$0
POWER BILLING	O&M	\$ 202,679	\$ 201,328	\$ 205,354	\$ 209,461	\$ 213,651	\$ 217,924	\$217,924	\$213,734	\$213,268
C&RE	O&M	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$0	\$0	\$0
POWER MARKETING	O&M	\$ 780,618	\$ 1,337,867	\$ 1,364,625	\$ 1,391,917	\$ 1,419,755	\$ 1,448,150	\$1,448,150	\$1,420,307	\$1,417,213
SYSTEM OPERATION & LOAD DISP	O&M	\$ 8,793,181	\$ 9,155,974	\$ 9,339,093	\$ 9,525,875	\$ 9,716,393	\$ 9,910,720	\$9,910,720	\$9,720,166	\$9,698,993
<b>RM TOTAL BUDGET</b>		<b>\$41,522,102</b>	<b>\$45,740,026</b>	<b>\$44,929,231</b>	<b>\$43,811,376</b>	<b>\$44,920,983</b>	<b>\$47,320,343</b>	<b>\$47,320,343</b>	<b>\$46,332,367</b>	<b>\$46,222,592</b>
<b>RM PRS O&amp;M</b>		<b>\$33,065,364</b>	<b>\$35,448,266</b>	<b>\$36,157,231</b>	<b>\$36,880,376</b>	<b>\$37,617,983</b>	<b>\$38,370,343</b>	<b>\$38,370,343</b>	<b>\$37,632,592</b>	<b>\$37,550,619</b>

ITEM	TYPE	Current Year					For Future	10 Year	9 Year
		2020	2021	2022	2023	2024	5 Year Projection 2025-2029	Annual Average 2021-2030	Annual Average 2021-2029
<b>CRSP MC</b>									
GWA	O&M	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
O&M TRANSMISSION LINES	O&M	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
O&M SUBSTATIONS	O&M	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
OTHER EXPENSES	O&M	\$ 35,580	\$ 35,926	\$ 36,445	\$ 58,974	\$ 37,513	\$ 38,064	\$ 38,064	\$ 39,724
INTEREST	Excluded	\$ 5,500,000	\$ 3,355,698	\$ 2,092,527	\$ 965,119	\$ 335,865	\$ 89,346	\$ 89,346	\$ 728,529
PURCHASED POWER & WHEELING	Excluded	\$ 86,075,454	\$ 106,210,644	\$ 111,312,911	\$ 110,866,640	\$ 118,823,769	\$ 118,823,769	\$ 118,823,769	\$ 116,015,658
RETIRE, REPLACE, ADDITIONS	Excluded	\$ -	\$ 263,130	\$ 277,170	\$ 50,000	\$ 1,500,000	\$ -	\$ -	\$ 209,030
Depreciation	Excluded	\$ 241,721	\$ 329,455	\$ 366,044	\$ 342,765	\$ 349,620	\$ 356,612	\$ 356,612	\$ 352,756
POWER BILLING	O&M	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
C&RE	O&M	\$ 125,414	\$ 122,355	\$ 124,802	\$ 127,298	\$ 129,844	\$ 132,441	\$ 132,441	\$ 129,895
POWER MARKETING	O&M	\$ 13,064,543	\$ 12,119,448	\$ 12,337,884	\$ 12,584,642	\$ 12,886,334	\$ 13,093,061	\$ 13,093,061	\$ 12,848,667
GCPA(Non-reimb)	Environ	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
RIP (Non-reimb)	Environ	\$ 3,584,098	\$ 3,774,365	\$ 3,818,833	\$ 3,865,209	\$ 3,912,513	\$ 3,960,764	\$ 3,960,764	\$ 3,913,550
SYSTEM OPERATION & LOAD DISP	O&M	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
STATE OF COLORADO LOAN	O&M	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>MC TOTAL BUDGET</b>		<b>\$108,626,810</b>	<b>\$126,211,021</b>	<b>\$130,366,616</b>	<b>\$128,860,647</b>	<b>\$137,975,458</b>	<b>\$136,494,057</b>	<b>\$136,494,057</b>	<b>\$134,237,808</b>
<b>MC PRS O&amp;M</b>		<b>\$13,225,537</b>	<b>\$12,277,729</b>	<b>\$12,499,131</b>	<b>\$12,770,914</b>	<b>\$13,053,691</b>	<b>\$13,263,566</b>	<b>\$13,263,566</b>	<b>\$13,018,286</b>
<b>TOTAL WESTERN</b>									
GWA	O&M	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
O&M TRANSMISSION LINES	O&M	\$7,977,626	\$8,722,844	\$8,897,301	\$9,075,247	\$9,256,752	\$9,441,887	\$9,441,887	\$9,260,346
O&M SUBSTATIONS	O&M	\$20,829,295	\$22,383,756	\$22,831,431	\$23,288,060	\$23,753,821	\$24,228,898	\$24,228,898	\$23,763,045
OTHER EXPENSES	O&M	\$1,932,020	\$2,460,651	\$2,509,665	\$2,581,658	\$2,610,651	\$2,662,664	\$2,662,664	\$2,613,861
INTEREST	Exclude	\$5,500,000	\$3,355,698	\$2,092,527	\$965,119	\$335,865	\$89,346	\$89,346	\$728,529
PURCHASED POWER & WHEELING	Exclude	\$86,075,454	\$106,210,644	\$111,312,911	\$110,866,640	\$118,823,769	\$118,823,769	\$118,823,769	\$116,015,658
Depreciation	Exclude	\$976,103	\$1,208,437	\$1,247,666	\$1,227,079	\$1,236,680	\$1,246,474	\$1,246,474	\$1,239,870
RETIRE, REPLACE, ADDITIONS	Exclude	\$14,424,338	\$17,061,306	\$14,214,170	\$9,216,000	\$10,013,000	\$9,735,000	\$9,735,000	\$10,891,448
POWER BILLING	O&M	\$225,652	\$221,376	\$225,803	\$230,319	\$234,926	\$239,624	\$239,624	\$235,017
C&RE	O&M	\$126,514	\$123,455	\$125,924	\$128,442	\$131,011	\$133,632	\$133,632	\$131,062
POWER MARKETING	O&M	\$13,845,161	\$13,464,476	\$13,709,813	\$13,984,009	\$14,313,689	\$14,548,963	\$14,548,963	\$14,276,576
GCPA(Non-reimb)	Environ	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RIP (Non-reimb)	Environ	\$3,584,098	\$3,774,365	\$3,818,833	\$3,865,209	\$3,912,513	\$3,960,764	\$3,960,764	\$3,913,550
SYSTEM OPERATION & LOAD DISP	O&M	\$9,040,181	\$9,536,521	\$9,727,251	\$9,921,796	\$10,120,232	\$10,322,637	\$10,322,637	\$10,124,162
STATE OF COLORADO LOAN	O&M	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Western Budget</b>		<b>\$164,536,442</b>	<b>\$188,523,529</b>	<b>\$190,713,295</b>	<b>\$185,349,579</b>	<b>\$194,742,909</b>	<b>\$195,433,657</b>	<b>\$195,433,657</b>	<b>\$193,193,125</b>
<b>PRS O&amp;M</b>		<b>\$53,976,449</b>	<b>\$56,913,079</b>	<b>\$58,027,188</b>	<b>\$59,209,532</b>	<b>\$60,421,081</b>	<b>\$61,578,304</b>	<b>\$61,578,304</b>	<b>\$60,404,071</b>
<b>CME Depreciation</b>		<b>\$583,000</b>	<b>\$583,000</b>	<b>\$583,000</b>	<b>\$583,000</b>	<b>\$583,000</b>	<b>\$583,000</b>	<b>\$583,000</b>	<b>\$583,000</b>
<b>Total WESTERN PRS O&amp;M</b>		<b>\$54,559,449</b>	<b>\$57,496,079</b>	<b>\$58,610,188</b>	<b>\$59,792,532</b>	<b>\$61,004,081</b>	<b>\$62,161,304</b>	<b>\$62,161,304</b>	<b>\$60,987,071</b>

ITEM	TYPE	Current Year					For Future 5 Year Projection 2025-2029	10 Year Annual Average 2021-2030	9 Year Annual Average 2021-2029	
		2020	1 2021	2 2022	3 2023	4 2024				5 2025
<b>BUREAU OF RECLAMATION **</b>										
Water and Egy Mgmt and Dvlp	0.00%	1,968,000	1,695,000	1,981,400	1,981,400	1,981,400	1,981,400	\$1,981,400	\$1,952,760	\$1,949,578
Land Mgmt and Dvlp	0.00%	615,940	634,418	653,451	673,054	693,246	714,043	\$714,043	\$693,843	\$691,598
<b>Fish and WL Mgmt and Dvlp:</b>								\$0	\$0	\$0
GC Adaptive Mgmt Prg	0.00%	11,755,438	12,108,101	12,471,344	12,845,484	13,230,849	13,627,775	\$13,627,775	\$13,242,243	\$13,199,406
Endangered fish (RIP) base funding	0.00%	8,932,526	9,200,502	9,476,517	9,760,812	10,053,637	10,355,246	\$10,355,246	\$10,062,294	\$10,029,744
Endangered fish (RIP) capital	0.00%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Flaming Gorge studies	90.00%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Glen Canyon Studies	0.00%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Navajo studies	83.00%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Aspinall studies	97.00%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Subtotal Budget</b>		\$23,271,904	\$23,638,021	\$24,582,712	\$25,260,751	\$25,959,132	\$26,678,464	\$26,678,464	\$25,951,140	\$25,870,326
<b>Total PRS O&amp;M</b>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Water Operations:</b>										
Navajo	83.00%	1,827,220	1,882,037	1,938,498	1,996,653	2,056,552	2,118,249	\$2,118,249	\$2,058,323	\$2,051,665
Blue Mesa	97.00%	1,566,630	1,613,629	1,662,038	1,711,899	1,763,256	1,816,154	\$1,816,154	\$1,764,774	\$1,759,065
<b>Crystal</b>	100.00%	813,700	838,111	863,254	889,152	915,827	943,301	\$943,301	\$916,615	\$913,650
Morrow Point	100.00%	951,720	980,272	1,009,680	1,039,970	1,071,169	1,103,304	\$1,103,304	\$1,072,092	\$1,068,624
Flaming Gorge	90.00%	1,904,470	1,961,604	2,020,452	2,081,066	2,143,498	2,207,803	\$2,207,803	\$2,145,344	\$2,138,404
Glen Canyon	62.20%	2,749,070	2,831,542	2,916,488	3,003,983	3,094,103	3,186,926	\$3,186,926	\$3,096,767	\$3,086,749
<b>Subtotal Budget</b>		\$9,812,810	\$10,107,194	\$10,410,410	\$10,722,722	\$11,044,404	\$11,375,736	\$11,375,736	\$11,053,915	\$11,159,106
<b>Total PRS O&amp;M (88%)</b>		\$8,225,588	\$8,472,356	\$8,726,527	\$8,988,322	\$9,257,972	\$9,535,711	\$9,535,711	\$9,265,944	\$9,235,970
<b>Power Operations:</b>										
<b>Subtotal Budget</b>		19,253,790	19,831,404	20,426,346	21,039,136	21,670,310	22,320,420	\$22,320,420	\$21,688,971	\$21,618,810
<b>Total PRS O&amp;M</b>		\$19,253,790	\$19,831,404	\$20,426,346	\$21,039,136	\$21,670,310	\$22,320,420	\$22,320,420	\$21,688,971	\$21,618,810
<b>Miscellaneous:</b>	100.00%	790,040	813,636	838,045	863,187	889,082	915,755	\$915,755	\$889,848	\$886,969
<b>Security:</b>		3,983,080	4,053,158	4,170,703	4,291,774	4,416,477	4,544,921	\$4,544,921	\$4,420,164	\$4,406,302
Reimbursable	70.00%	\$2,788,156	\$2,837,211	\$2,919,492	\$3,004,242	\$3,091,534	\$3,181,445	\$3,181,445	\$3,094,115	\$3,122,660
<b>Additional OM&amp;R (MOA Revenue)</b>	0.00%	\$11,500,000	\$11,500,000	\$11,500,000	\$11,500,000	\$11,500,000	\$11,500,000	\$0	\$5,750,000	\$5,111,111
<b>Total PRS O&amp;M (Already in as Misc)</b>	0.00%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

ITEM	TYPE	Current Year					For Future	10 Year	9 Year	
		2020	2021	2022	2023	2024	5 Year	Annual	Annual	
		2020	2021	2022	2023	2024	Projection	Average	Average	
							2025-2029	2021-2030	2021-2029	
<b>Extraordinary Maintenance:</b>										
<b>Expensed</b>										
Navajo	83.00%	0	0	0	0	0	0	\$0	\$0	\$0
Blue Mesa	97.00%	400,000	0	0	0	0	0	\$0	\$0	\$0
Morrow Point	100.00%	65,000	0	0	265,000	0	0	\$0	\$26,500	\$29,444
Crystal	100.00%	1,565,000	0	40,000	65,000	0	0	\$0	\$10,500	\$11,667
Flaming Gorge	90% / 100%	0	0	50,000	0	0	0	\$0	\$5,000	\$5,556
Glen Canyon	62.2% / 100%	300,000	2,100,000	0	2,500,000	0	350,000	\$350,000	\$670,000	\$705,556
Denver	97.00%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Subtotal Budget</b>		\$2,330,000	\$2,100,000	\$90,000	\$2,830,000	\$0	\$350,000	\$350,000	\$712,000	\$752,222
<b>Total PRS O&amp;M</b>		\$2,204,600	\$1,306,200	\$85,000	\$1,885,000	\$0	\$217,700	\$217,700	\$458,240	\$484,967
<b>Capitalized</b>										
Navajo	83.00%	0	0	0	0	0	0	\$0	\$0	\$0
Blue Mesa	97.00%	0	0	0	0	0	0	\$0	\$0	\$0
Morrow Point	100.00%	0	0	0	0	0	0	\$0	\$0	\$0
Crystal	100.00%	0	0	0	0	0	0	\$0	\$0	\$0
Flaming Gorge	90% / 100%	0	0	0	0	0	0	\$0	\$0	\$0
Glen Canyon	62.2% / 100%	0	1,250,000	2,400,000	700,000	500,000	0	\$0	\$485,000	\$538,889
Denver	97.00%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Subtotal Budget</b>		\$0	\$1,250,000	\$2,400,000	\$700,000	\$500,000	\$0	\$0	\$485,000	\$538,889
<b>Total PRS O&amp;M</b>		\$0	\$1,231,100	\$1,908,600	\$700,000	\$500,000	\$0	\$0	\$485,000	\$538,889

ITEM	TYPE	Current Year					For Future	10 Year	9 Year	
		2020	2021	2022	2023	2024	5 Year	Annual	Annual	
		2020	2021	2022	2023	2024	2025	Projection	Average	Average
								2025-2029	2021-2030	2021-2029
<b>Replacements:</b>										
<b>Expensed</b>										
Blue Mesa	97.00%	0	0	0	0	0	0	\$0	\$0	\$0
Morrow Point	100.00%	0	0	0	0	0	0	\$0	\$0	\$0
Crystal	100.00%	0	0	0	0	0	0	\$0	\$0	\$0
Curecanti	100.00%	0	0	150,000	0	0	0	\$0	\$15,000	\$16,667
Flaming Gorge	90% / 100%	0	0	0	0	0	0	\$0	\$0	\$0
Glen Canyon	62.20%	150,000	150,000	150,000	150,000	150,000	150,000	\$150,000	\$150,000	\$150,000
Denver	50.00%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Subtotal Budget</b>		<b>\$150,000</b>	<b>\$150,000</b>	<b>\$300,000</b>	<b>\$150,000</b>	<b>\$150,000</b>	<b>\$150,000</b>	<b>\$150,000</b>	<b>\$165,000</b>	<b>\$183,333</b>
<b>Total PRS O&amp;M</b>		<b>\$93,300</b>	<b>\$93,300</b>	<b>\$243,300</b>	<b>\$93,300</b>	<b>\$93,300</b>	<b>\$93,300</b>	<b>\$93,300</b>	<b>\$108,300</b>	<b>\$120,333</b>
<b>Capitalized</b>										
Blue Mesa	100.00%	2,480,000	10,600,000	375,000	2,000,000	2,000,000	2,000,000	\$2,000,000	\$2,697,500	\$2,775,000
Morrow Point	100.00%	3,020,000	4,010,000	5,075,000	2,680,000	2,720,000	7,700,000	\$7,700,000	\$6,068,500	\$5,887,222
Crystal	100.00%	855,000	0	75,000	2,000,000	2,000,000	0	\$0	\$407,500	\$452,778
Curecanti	100.00%	290,000	475,000	50,000	270,000	190,000	0	\$0	\$98,500	\$109,444
Flaming Gorge	90% / 100%	510,000	2,990,000	3,890,000	3,600,000	0	0	\$0	\$1,048,000	\$1,164,444
Glen Canyon	62.2% / 100%	14,200,000	1,440,000	1,940,000	3,240,000	6,740,000	5,240,000	\$5,240,000	\$4,480,000	\$4,395,556
Denver	50.00%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
UCPO Modernize Plant Controls	100.00%	\$4,000,000	\$4,000,000	\$4,000,000	\$4,000,000	\$4,000,000	\$4,000,000	\$4,000,000	\$4,000,000	\$4,000,000
<b>Subtotal Budget</b>		<b>\$25,355,000</b>	<b>\$23,515,000</b>	<b>\$15,405,000</b>	<b>\$17,790,000</b>	<b>\$17,650,000</b>	<b>\$18,940,000</b>	<b>\$18,940,000</b>	<b>\$18,800,000</b>	<b>\$18,784,444</b>
<b>Total PRS O&amp;M</b>		<b>\$25,338,500</b>	<b>\$22,921,880</b>	<b>\$14,743,280</b>	<b>\$16,603,080</b>	<b>\$17,634,880</b>	<b>\$18,924,880</b>	<b>\$19,361,083</b>	<b>\$18,763,342</b>	<b>\$18,696,926</b>
<b>Total Reclamation Budget</b>		<b>\$84,946,624</b>	<b>\$85,458,413</b>	<b>\$78,623,216</b>	<b>\$83,647,570</b>	<b>\$82,279,405</b>	<b>\$85,275,296</b>	<b>\$85,275,296</b>	<b>\$84,166,038</b>	<b>\$84,200,403</b>
<b>Reclamation CME DEPRECIATION</b>		<b>\$0</b>								
<b>Total USBR O&amp;M Reimbursable by power</b>		<b>\$34,145,514</b>	<b>\$34,167,743</b>	<b>\$34,076,755</b>	<b>\$36,736,374</b>	<b>\$35,891,281</b>	<b>\$37,180,085</b>	<b>\$36,264,331</b>	<b>\$35,505,418</b>	<b>\$35,469,710</b>
<b>Total WAPA and USBR PRS O&amp;M</b>		<b>\$88,704,963</b>	<b>\$91,663,822</b>	<b>\$92,686,943</b>	<b>\$96,528,906</b>	<b>\$96,895,362</b>	<b>\$99,341,389</b>	<b>\$98,425,635</b>	<b>\$96,492,489</b>	<b>\$96,326,310</b>

ITEM	TYPE	Current Year					For Future	10 Year	9 Year	
		2020	2021	2022	2023	2024	5 Year Projection 2025-2029	Annual Average 2021-2030	Annual Average 2021-2029	
<b>Environmental Costs:</b>										
<b>Western</b>										
GCPA (Non-reimb)	0.00%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RIP(Non-reimb)	0.00%	\$3,584,098	\$3,774,365	\$3,818,833	\$3,865,209	\$3,912,513	\$3,960,764	\$3,960,764	\$3,913,550	\$3,908,304
<b>USBR</b>										
<b>Fish and Wildlife Mgmt and Dvlp:</b>										
<b>Nonreimbursable</b>										
GC Adaptive Mgmt Prg	0.00%	\$11,755,438	\$12,108,101	\$12,471,344	\$12,845,484	\$13,230,849	\$13,627,775	\$13,627,775	\$13,242,243	\$13,199,406
Endangered fish (RIP) base funding	0.00%	\$8,932,526	\$9,200,502	\$9,476,517	\$9,760,812	\$10,053,637	\$10,355,246	\$10,355,246	\$10,062,294	\$10,029,744
Glen Canyon Studies	0.00%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total non-reimbursable		\$24,272,062	\$25,082,968	\$25,766,694	\$26,471,506	\$27,196,999	\$27,943,784	\$27,943,784	\$27,218,087	\$27,137,454
<b>Reimbursable</b>										
Flaming Gorge studies	90.00%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Navajo studies	97.00%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Aspinall studies	83.00%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Endangered fish (RIP) capital	0.00%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total reimbursable as O&M		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Note: Gray Shaded amounts are not included in PRS O&M.

**TOTALS RECONCILIATION TO BOR WORKPLAN**

**EXTRA ORDINARY MAINTENANCE RECONCILIATION**

Navajo	0	0	0	0	0	0
Blue Mesa	400,000	0	0	0	0	0
Morrow Point	65,000	0	0	265,000	0	0
Crystal	1,565,000	0	40,000	65,000	0	0
Flaming Gorge	0	0	50,000	0	0	0
Glen Canyon	300,000	3,350,000	2,400,000	3,200,000	500,000	350,000
Denver	0	0	0	0	0	0
	2,330,000	3,350,000	2,490,000	3,530,000	500,000	350,000

**REPLACEMENTS RECONCILIATION TO PLAN**

Blue Mesa	2,480,000	10,600,000	375,000	2,000,000	2,000,000	2,000,000
Morrow Point	3,020,000	4,010,000	5,075,000	2,680,000	2,720,000	7,700,000
Crystal	855,000	0	75,000	2,000,000	2,000,000	0
Curecanti	290,000	475,000	200,000	270,000	190,000	0
Flaming Gorge	510,000	2,990,000	3,890,000	3,600,000	0	0
Glen Canyon	14,350,000	1,590,000	2,090,000	3,390,000	6,890,000	5,390,000
Denver	0	0	0	0	0	0
UCPO	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000
	25,505,000	23,665,000	15,705,000	17,940,000	17,800,000	19,090,000

**COLORADO RIVER STORAGE PROJECT  
AVERAGE O&M BUDGET PROJECTIONS COMPARISONS**

FY 2020 PRS (FY 2022 Work Plans) v. WAPA 169 (FY 2017 Work Plans)

ITEM	TYPE	WAPA 169 2016-2025	FY2022 Workplans 2021-2029	Average per year Increase	Percent Increase
<b>WAPA *</b>					
<b>DESERT SOUTHWEST</b>					
GWA	O&M	\$1,162,134	\$0	(\$1,162,134)	-100%
O&M TRANSMISSION LINES	O&M	\$1,914,732	\$1,399,163	(\$515,569)	-27%
O&M SUBSTATIONS	O&M	\$4,857,405	\$6,292,142	\$1,434,737	30%
OTHER EXP (except int)	O&M	\$457,698	\$985,333	\$527,635	115%
DEPRECIATION	Other	\$80,417	\$131,561	\$51,145	
RETIRE, REPLACE, ADDITIONS	Other	\$2,826,000	\$2,441,855	(\$384,145)	
POWER BILLING	O&M	\$140,198	\$17,925	(\$122,273)	-87%
C&RE	O&M	\$4,282	\$1,145	(\$3,137)	-73%
POWER MARKETING	O&M	\$14,281	\$7,995	(\$6,286)	-44%
SYSTEM OPERATION & LOAD DISP	O&M	\$410,863	\$403,730	(\$7,133)	-2%
<b>DSW TOTAL BUDGET</b>		<b>\$11,868,009</b>	<b>\$11,680,850</b>	<b>(\$187,160)</b>	
<b>DSW PRS O&amp;M</b>		<b>\$8,961,593</b>	<b>\$9,107,433</b>	<b>\$145,840</b>	<b>2%</b>
<b>ROCKY MOUNTAIN</b>					
GWA	O&M	\$3,098,324	\$0	(\$3,098,324)	-100%
O&M TRANSMISSION LINES	O&M	\$5,687,098	\$8,717,500	\$3,030,402	53%
O&M SUBSTATIONS	O&M	\$13,270,951	\$16,503,556	\$3,232,605	24%
OTHER EXP (except int)	O&M	\$1,821,081	\$1,886,142	\$65,061	4%
DEPRECIATION	Other	\$266,182	\$536,867	\$270,685	
RETIRE, REPLACE, ADDITIONS	Other	\$4,802,045	\$7,887,368	\$3,085,323	
PURCHASED POWER & WHEELING	Other	\$0	\$0	\$0	
POWER BILLING	O&M	\$148,162	\$218,159	\$69,997	47%
C&RE	O&M	\$5,324	\$0	(\$5,324)	-100%
POWER MARKETING	O&M	\$1,029,001	\$1,459,911	\$430,910	42%
SYSTEM OPERATION & LOAD DISP	O&M	\$7,855,834	\$10,498,904	\$2,643,070	34%
<b>RM TOTAL BUDGET</b>		<b>\$37,984,001</b>	<b>\$47,708,406</b>	<b>\$9,724,405</b>	
<b>RM PRS O&amp;M</b>		<b>\$32,915,775</b>	<b>\$39,284,171</b>	<b>\$6,368,397</b>	<b>19%</b>
<b>CRSP MC</b>					
GWA	O&M	\$1,559,444	\$0	(\$1,559,444)	-100%
O&M TRANSMISSION LINES	O&M	\$0	\$0	\$0	0%
O&M SUBSTATIONS	O&M	\$0	\$0	\$0	0%
OTHER EXP (except int)	O&M	\$46,363	\$38,130	(\$8,233)	-18%
INTEREST	Other	\$4,552,693	\$2,624,372	(\$1,928,321)	
PURCHASED POWER & WHEELING	Other	\$92,816,206	\$89,804,180	(\$3,012,026)	
RETIRE, REPLACE, ADDITIONS	Other	\$13,600	\$898,922	\$885,322	
DEPRECIATION	Other	\$82,935	\$289,249	\$206,313	
POWER BILLING	O&M	\$0	\$0	\$0	
C&RE	O&M	\$199,112	\$127,023	(\$72,089)	-36%
POWER MARKETING	O&M	\$9,089,249	\$12,730,949	\$3,641,700	40%
Grand Canyon Protection Act (Non-reimb)	Environ	\$0	\$0	\$0	
Recovery Implementation Program (Non-reimb)	Environ	\$1,869,719	\$3,873,929	\$2,004,210	
SYSTEM OPERATION & LOAD DISP	O&M	\$0	\$0	\$0	\$0
STATE OF COLORADO (RIP) LOAN	O&M	(\$886,000)	\$0	\$886,000	\$0
<b>CRSP MC TOTAL BUDGET</b>		<b>\$109,343,321</b>	<b>\$110,386,754</b>	<b>\$1,043,433</b>	
<b>CRSP MC PRS O&amp;M</b>		<b>\$10,008,167</b>	<b>\$12,896,102</b>	<b>\$2,887,934</b>	<b>29%</b>

ITEM	TYPE	WAPA 169 2016-2025	FY2022 Workplans 2021-2029	Average per year Increase	Percent Increase
<b>TOTAL WAPA</b>					
GWA	O&M	\$5,819,902	\$0	(\$5,819,902)	-100%
O&M TRANSMISSION LINES	O&M	\$7,601,830	\$10,116,663	\$2,514,833	33%
O&M SUBSTATIONS	O&M	\$18,128,356	\$22,795,697	\$4,667,342	26%
OTHER EXPENSES	O&M	\$2,325,142	\$2,909,605	\$584,463	25%
INTEREST	Other	\$4,552,693	\$2,624,372	(\$1,928,321)	
PURCHASED POWER & WHEELING	Other	\$92,816,206	\$89,804,180	(\$3,012,026)	
Depreciation	Other	\$429,534	\$957,677	\$528,143	
RETIRE, REPLACE, ADDITIONS	Other	\$7,641,645	\$11,228,145	\$3,586,501	
POWER BILLING	O&M	\$288,360	\$236,084	(\$52,276)	-18%
C&RE	O&M	\$208,717	\$128,168	(\$80,550)	-39%
POWER MARKETING	O&M	\$10,132,531	\$14,198,855	\$4,066,324	40%
GCPA(Non-reimb)	Environ	\$0	\$0	\$0	
RIP (Non-reimb)	Environ	\$1,869,719	\$3,873,929	\$2,004,210	
SYSTEM OPERATION & LOAD DISP	O&M	\$8,266,697	\$10,902,634	\$424,624	5%
STATE OF COLORADO (RIP) LOAN	O&M	(\$886,000)	\$0	\$886,000	0%
<b>Western Budget</b>		<b>\$159,195,332</b>	<b>\$169,776,009</b>	<b>\$10,580,677</b>	
<b>WESTERN TOTAL O&amp;M</b>		<b>\$51,885,535</b>	<b>\$61,287,706</b>	<b>\$9,402,171</b>	<b>18%</b>
<b>CME DEPRECIATION</b>		<b>\$745,000</b>	<b>\$583,000</b>	<b>(\$162,000)</b>	<b>-22%</b>
<b>WAPA PRS O&amp;M</b>		<b>\$52,630,535</b>	<b>\$61,870,706</b>	<b>\$9,240,171</b>	<b>18%</b>
<b>BUREAU OF RECLAMATION **</b>					
<b>Water and Energy Mgmt and Dvlp</b>	0.00%	\$1,987,771	\$1,939,422	(\$48,348)	
<b>Land Mgmt and Dvlp</b>	0.00%	\$659,035	\$533,346	(\$125,689)	
<b>Fish and Wildlife Mgmt and Dvlp:</b>		\$0	\$0		
GC Adaptive Mtmt Prg	0.00%	\$12,115,234	\$13,143,521	\$1,028,287	
Endangered fish (RIP) base funding	0.00%	\$9,205,899	\$960,000	(\$8,245,899)	
Endangered fish (RIP) capital	0.00%	\$0	\$0	\$0	
Flaming Gorge studies	90.00%	\$0	\$0	\$0	
Glen Canyon Studies	0.00%	\$0	\$0	\$0	
Navajo studies	83.00%	\$0	\$0	\$0	0%
Aspinall studies	97.00%	\$0	\$0	\$0	0%
<b>Subtotal Bureau Budget</b>		<b>\$23,967,939</b>	<b>\$16,576,289</b>	<b>(\$7,391,650)</b>	<b>-31%</b>
<b>Total PRS O&amp;M</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	
<b>Water Operations:</b>					
<b>Subtotal Bureau Budget</b>	0.00%	<b>\$7,864,683</b>	<b>\$11,159,106</b>	<b>\$3,294,423</b>	<b>42%</b>
<b>Total PRS O&amp;M</b>		<b>\$6,168,097</b>	<b>\$9,235,970</b>	<b>\$3,067,874</b>	<b>50%</b>
<b>Power Operations:</b>					
<b>Subtotal Bureau Budget</b>		<b>\$23,201,415</b>	<b>\$23,302,960</b>	<b>\$101,545</b>	<b>0%</b>
<b>Total PRS O&amp;M</b>		<b>\$23,201,415</b>	<b>\$23,302,960</b>	<b>\$101,545</b>	<b>0%</b>
<b>Miscellaneous:</b>	100.00%	<b>\$736,588</b>	<b>\$881,964</b>	<b>\$145,375</b>	<b>20%</b>
<b>Security:</b>	70.00%	<b>\$2,775,699</b>	<b>\$3,902,939</b>	<b>\$1,127,240</b>	<b>41%</b>
<b>Extraordinary Maintenance Expensed:</b>					
Navajo	83.00%	\$132,667	\$61,111	(\$71,556)	-54%
Blue Mesa	97.00%	\$147,764	\$0	(\$147,764)	-100%
Morrow Point	100.00%	\$128,917	\$29,444	(\$99,472)	-77%
Crystal	100.00%	\$150,083	\$276,111	\$126,028	84%
Flaming Gorge	90.00%	\$132,667	\$16,667	(\$116,000)	-87%
Glen Canyon	100.00%	\$1,222,917	\$722,222	(\$500,694)	-41%
Denver	97.00%	\$0	\$0	\$0	0%
<b>Subtotal Bureau Budget</b>		<b>\$1,915,014</b>	<b>\$1,105,556</b>	<b>(\$809,459)</b>	<b>-42%</b>
<b>Allocated to Power Total to PRS</b>			<b>(\$278,756)</b>		
<b>Total PRS O&amp;M</b>		<b>\$1,874,761</b>	<b>\$826,800</b>	<b>(\$781,261)</b>	<b>-42%</b>

ITEM	TYPE	WAPA 169 2016-2025	FY2022 Workplans 2021-2029	Average per year Increase	Percent Increase
<b>Replacements Expensed:</b>					
Blue Mesa	97.00%	\$0	\$0	\$0	0%
Morrow Point	100.00%	\$82,500	\$0	\$0	0%
Crystal	100.00%	\$0	\$0	\$0	0%
Curecanti	100.00%	\$27,500	\$0	\$0	0%
Flaming Gorge	100.00%	\$114,583	\$0	\$0	0%
Glen Canyon	62.20%	\$28,500	\$0	\$0	0%
Denver	50.00%	\$0	\$0	\$0	0%
<b>Subtotal Bureau Budget</b>		<b>\$253,083</b>	<b>\$183,333</b>	<b>(\$69,750)</b>	<b>-28%</b>
<b>Allocated to Power Total to PRS</b>			<b>(\$63,000)</b>		
<b>Total PRS O&amp;M</b>		<b>\$238,875</b>	<b>\$120,333</b>	<b>(\$118,542)</b>	<b>-50%</b>
<b>Total Reclamation Budget</b>		<b>\$61,425,825</b>	<b>\$57,112,147</b>	<b>(\$4,313,678)</b>	<b>-7%</b>
<b>Reclamation CME DEPRECIATION</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>0%</b>
<b>Reclamation Reimbursable by power</b>		<b>\$34,535,277</b>	<b>\$38,270,967</b>	<b>\$3,735,690</b>	<b>11%</b>
<b>Total PRS O&amp;M</b>		<b>\$87,165,811</b>	<b>\$100,141,673</b>	<b>\$12,975,861</b>	<b>15%</b>
<b>Environmental Costs:</b>					
<b>WAPA</b>					
GCPA (Non-reimb)	Environ	\$0	\$0	\$0	
RIP (Non-reimb)	Environ	\$1,869,719	\$3,873,929	\$2,004,210	
<b>USBR</b>					
<b>Fish and Wildlife Mgmt and Dvlp:</b>					
<b>Nonreimbursable</b>					
GC Adaptive Mtmt Prg	0.00%	\$12,115,234	\$13,143,521	\$1,028,287	
Endangered fish (RIP) base funding	0.00%	\$9,205,899	\$960,000	(\$8,245,899)	
Glen Canyon Studies	0.00%	\$0	\$0	\$0	
Total non-reimbursable		\$23,190,853	\$17,977,450	(\$7,217,613)	
<b>Reimbursable</b>					
Flaming Gorge studies	100.00%	\$0	\$0	\$0	0%
Navajo studies	100.00%	\$0	\$0	\$0	0%
Aspinall studies	100.00%	\$0	\$0	\$0	0%
Endangered fish (RIP) capital	0.00%	\$0	\$0	\$0	0%
Total reimbursable		\$0	\$0	\$0	0%

## Salt Lake City Area Integrated Projects

### Purchased Power Comparisons

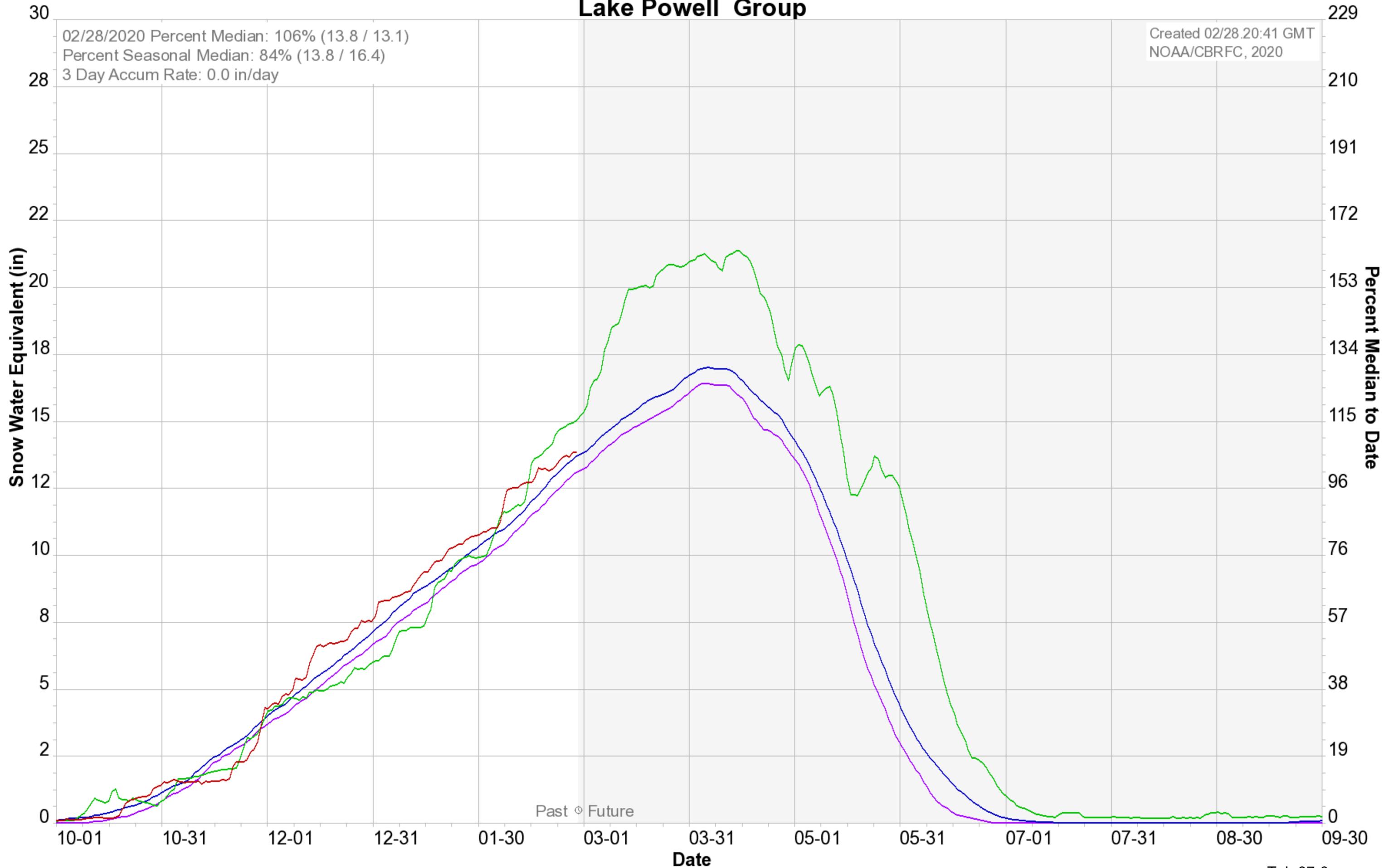
	<u>WAPA-169 1/</u>		<u>WAPA-190 2/</u>	
	Expense		Expense 3/	
FY	(\$1,000)		(\$1,000)	
2016	\$	28,440		
2017	\$	18,000		
2018	\$	16,140		
2019	\$	16,210		
2020	\$	4,000		
2021	\$	4,000	\$	2,962
2022	\$	4,000	\$	3,668
2023	\$	4,000	\$	3,699
2024	\$	4,000	\$	4,072
2025	\$	4,000	\$	5,733
2026			\$	-
2027			\$	-
2028			\$	-
2029			\$	-
Average	\$	10,279	\$	2,237

1/ 2016-2019 projections based on Reclamation's 2015 median hydrology.

2/ 2021-2025 based on projected costs using the Feb 2020 24-month study.

3/ Expenses based on projected Net Purchase Costs

# Colorado Basin River Forecast Center Lake Powell Group



## Salt Lake City Integrated Projects

unit: 1,000

### Average Annual Transmission Expense Comparison

Item	WAPA-169 SLIP-F10	WAPA-190 Preliminary	Difference
Total Transmission Expense	\$ 10,421	\$ 8,740	\$ (1,681)

**PROJECTED CRSP TRANSMISSION EXPENSE**

Table consistently reviewed and updated. Last review January 2020

Customer	Contract Number	Contract Expiration Date	Unit	2021		2022		2023		2024		2025	
APS	14-06-400-3654	6/1/2046	kW	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	
				\$	\$	-	\$	-	\$	-	\$	-	
Black Hills/Colorado Electric Utility Company, LP	13-SLC-0682	9/30/2024	kW	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	1,230	
				\$	\$	46,379	\$	46,379	\$	46,379	\$	46,379	
Black Hills/Colorado Electric Utility Company, LP	16-SLC-0730	9/30/2024	kW	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	
				\$	\$	177,420	\$	177,420	\$	177,420	\$	177,420	
Bridger Valley 1/	14-06-400-1011	<b>9/30/2044 (or upon 3 years notice by either party)</b>	kW	5,306,912	5,306,912	5,306,912	5,306,912	5,306,912	5,306,912	5,306,912	5,306,912	5,306,912	
	9/30/2044	Rates revised yearly on March 1. Rate adjustments are based on operating cost of the transmission system. Currently at .0305/kWh.		\$	\$	15,655	\$	15,655	\$	15,655	\$	15,655	
Delta-Montrose 2/	14-06-400-4447	<b>Expired in March 2003, but continuing on indefinitely, due to the inability to develop an agreeable alternative service plan.</b>	kW	525	525	525	525	525	525	525	525	525	
		Delta-Montrose transmission charge equals CRSP firm transmission rate currently in effect.		\$	1.55	\$	9,765	\$	9,765	\$	9,765	\$	9,765
Deseret G&T 3/ (Exhibit D)	2-07-40-P0716	<b>6/1/2053, after June 1, 2022, either party can terminate by providing 5 years notice.</b>	kW	27,500	22,500	20,000	20,000	20,000	20,000	20,000	20,000	20,000	
		Transmission Cost is variable. Transmission service request is usually for a 3-4 year period. Transmission request is handled in a revision to an Exhibit of this Contract. Revised effective 10/1/2013		2.5732667	\$	849,178	\$	694,782	\$	617,584	\$	617,584	
		Deseret will provide Western w/83MW of trans. & transfrmtn. Deseret will chg. Western their trans. Rate of \$30.8792/kW-year & \$2.22/kW-year for transformation.											
DSWR (Intertie) 4/	88-BCA-10149	<b>9/30/2017. However, CRSP MC can terminate with 30 days notice.</b>	kW	134,000	134,000	134,000	134,000	134,000	134,000	134,000	134,000	134,000	
		Transmission charge is as set at the Intertie rate schedule (INT-FT4).		\$	1.61	\$	2,588,880	\$	2,588,880	\$	2,588,880	\$	2,588,880

**PROJECTED CRSP TRANSMISSION EXPENSE**

Table consistently reviewed and updated. Last review January 2020

Customer	Contract Number	Contract Expiration Date	Unit	2021		2022		2023		2024		2025	
<b>El Paso Electric</b>	05-SLC-0578	9/30/2024	kW	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	
		This is a pass-through for both rev & exp. through Holloman AFB	\$	\$	-	\$	-	\$	-	\$	-	\$	-
<b>Empire Electric</b>	91-SLC-0170	<b>11/22/2041</b>	kW	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	
		Cost based rate revised yearly. Western pays an annual charge: 1/6 of the total each month from April to September.	\$	\$	23,486	\$	23,486	\$	23,486	\$	23,486	\$	23,486
	7-07-40-P0752	5/15/2037	kW	7,666	7,666	7,666	7,666	7,666	7,666	7,666	7,666	7,666	
		Cost based rate revised yearly. Western pays an annual charge: 1/6 of the total each month from April to September.	\$	\$	70,226	\$	70,226	\$	70,226	\$	70,226	\$	70,226
<b>Public Service Company of NM 6/</b>	8-07-40-P0695	<b>Contract expired on 6/1/1987. (Subject to 10 yr ext up to 2047) Western has option of six 10-year extensions. Western provides notice 3 years prior to the expiration of the contracts. This contract has been extended to 2017.</b>	kW	99,000	99,000	99,000	99,000	99,000	99,000	99,000	99,000	99,000	
		Rate is set in contract at PNM's tariff rate. Various credits are provided for seasonal scheduling diversity and credit for Western providing 50 MW of Intertie transmission. Rate revised based on current PNM formula rate which is updated in June of each year. Currently @ <b>\$1.55/KW</b> -month with an avg. of 107MW for Winter and 97MW for summer giving an avg. of 99MW for the year.	\$	1.58	\$	1,877,040	\$	1,877,040	\$	1,877,040	\$	1,877,040	

**PROJECTED CRSP TRANSMISSION EXPENSE**

Table consistently reviewed and updated. Last review January 2020

Customer	Contract Number	Contract Expiration Date	Unit	Year				
				2021	2022	2023	2024	2025
<b>Pacificorp 7/ - Looked through the last years invoices. Nothing over 330MW.</b> Contract expired on 6/1/1987. (Subject to 10 yr ext up to 2047) Western has option of six 10-year extensions. Western provides notice 3 years prior to the expiration of the contracts. This contract has been extended to 2017.								
	14-06-400-2436							
		\$600,000/yr for terminating Cal-Pac agreement. Payments continues through the life of the Contract	\$	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000
Flat Charge		\$4.20/kW-year, fixed for term of Contract	kW	230,000	230,000	230,000	230,000	230,000
First Tier			\$ 4.20	\$ 966,000	\$ 966,000	\$ 966,000	\$ 966,000	\$ 966,000
		\$15.83/year The methodology is included as Exhibit C to this contract. Last rate change was 2014.	kW	100,000	100,000	100,000	100,000	100,000
Second Tier			\$ 15.83	\$ 1,739,000	\$ 1,739,000	\$ 1,739,000	\$ 1,739,000	\$ 1,739,000
		OATT rate. Rate changes upon publication of new rate.	kW	0	0	0	0	0
Third Tier			\$	\$ -	\$ -	\$ -	\$ -	\$ -
Total UP&L			kW	330,000	330,000	330,000	330,000	330,000
			\$	\$ 3,305,000	\$ 3,305,000	\$ 3,305,000	\$ 3,305,000	\$ 3,305,000
Salt River Project	08-SLC-0615	6/30/2018						
			kW	50,000	50,000	50,000	50,000	50,000
			\$	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total transmission expense</b>			\$	\$ 8,963,029	\$ 8,808,633	\$ 8,731,435	\$ 8,731,435	\$ 8,731,435

- 1/ Bridger Valley wheels power @ \$.00319/kWh. Number of kWh in a year varies.
- 2/ Delta Montrose wheels power to the Montrose Operations Center @ \$27.96/kW-year (new rate 10/01/03). Since this line serves both power and transmission operations its costs are allocated between power and transmission on the same basis as O&M is allocated.
- 3/ Deseret G&T provides Western 22,048 KW to Bonanza @ \$2.22/kW-year and 118,510 kW between Bonanza and Vernal and 1,000 kW between Bonanza and UPALCO @ \$30.88/kW-year.
- 4/ 134,000 kW is wheeled between Westwing and Pinnacle Peak for SLCA/IP @ \$19.32/kW-year.
- 5/ PNM wheels from Four Corners to Albuquerque @ \$1.38 per kW/Month.

The 99000 KW represents the average of 107,000kW for the Winter and 91,000kW for the summer @\$1.30/kW-month times 12 months.

- 6/ UP&L principles for amending 2436 in effect 10-1-87 include a flat charge and a three tier rate. The charges are as follows:
  - a) \$600,000 flat charge
  - b) \$4.20/kW-year for the first 230 MW
  - c) \$15.83/kW-year for the next 100 MW
  - d) Formula PTP Rate for over 330 MW

Integrated Projects

Year UNIT---->	Coilbran							RGP						
	Sales	Revenues	Expenses	Interest	Repayment	RR	Surplus	Sales	Revenues	Expenses	Interest	Repayment	RR	Surplus
	MWH	\$	\$	\$	\$	\$	\$	MWH	\$	\$	\$	\$	\$	\$
1995	49,418	1,917,732	975,457	382,697	257,963	1,616,117	301,615	144,598	2,930,688	1,567,449	65,420	1,316,297	2,949,166	-18,478
1996	47,255	1,822,698	862,373	293,879	666,447	1,822,699	-1	97,292	2,730,425	1,370,024	6,346	1,354,054	2,730,424	1
1997	51,515	2,185,531	761,089	286,148	1,173,331	2,220,568	-35,037	116,457	2,470,909	(103,000)	64	1,975,500	1,869,865	601,044
1998	64,534	2,122,891	721,901	27,770	1,347,654	2,097,325	25,566	115,861	1,780,683	2,457,506	5,767	0	2,463,273	-682,590
1999	48,599	2,521,388	763,487	176,089	1,582,135	2,521,711	-323	102,195	2,110,804	1,782,481	19,555	225,390	2,027,426	83,378
2000	38,889	2,361,787	921,524	146,806	1,293,457	2,361,787	0	91,607	1,710,559	1,858,839	22,026	0	1,880,865	-170,306
2001	31,196	1,846,106	978,267	110,536	757,303	1,846,106	0	96,851	1,443,003	1,163,199	16,752	133,291	1,313,242	129,761
2002	27,246	1,364,587	1,087,012	90,374	187,201	1,364,587	0	83,625	1,797,329	1,739,513	55,269	70,281	1,865,063	-67,734
2003	26,439	1,613,733	1,080,147	95,801	437,703	1,613,651	82	31,935	2,032,800	1,721,227	36,717	277,402	2,035,346	-2,546
2004	40,404	2,136,600	874,673	80,182	1,181,745	2,136,600	0	27,631	2,045,939	1,611,105	57,455	109,698	1,778,258	267,681
2005	53,054	2,119,102	1,039,370	51,698	1,028,034	2,119,102	0	45,957	1,862,960	1,998,228	(23,511)	155,925	2,130,642	-267,682
2006	48,100	2,349,819	917,640	134,858	1,400,979	2,453,477	-103,658	33,856	1,921,691	1,656,103	337,610	0	1,993,713	-72,022
2007	44,339	2,335,119	1,029,796	10,129	1,295,194	2,335,119	0	56,003	2,700,055	1,581,069	116,015	930,949	2,628,033	72,022
2008	45,007	1,953,509	1,012,119	9,129	466,750	1,487,998	465,511	62,980	2,006,292	1,919,414	35,790	51,088	2,006,292	0
2009	32,000	1,567,035	909,015	(194)	1,123,724	2,032,545	-465,509	55,539	2,666,287	1,840,081	47,002	779,204	2,666,287	0
2010	37,095	2,685,104	1,006,212	9	1,678,883	2,685,104	0	67,489	1,813,739	2,204,217	7,971	(388,449)	1,813,739	0
2011	46,871	1,672,016	1,231,060	24,072	321,944	1,577,076	94,940	33,883	2,718,866	3,401,171	49,899	398,449	3,849,619	-1,130,753
2012	35,180	1,478,448	1,123,375	(1,534)	451,547	1,573,388	-94,940	28,861	4,021,042	2,548,637	76,118	265,533	2,890,288	1,130,754
2013	13,158	1,590,619	1,040,305	(5,735)	(499,189)	624,401	966,218	9,377,318	2,341,428	2,589,615	16,190	(0)	2,605,805	-264,377
2014	41,566	960,953	1,606,925	6,257	313,989	1,927,171	-966,218	12,768	2,526,616	2,080,496	116,193	65,550	2,262,239	264,377
2015	37,286	1,911,997	1,074,102	158,205	679,690	1,911,997	0	37,642	2,753,699	2,901,600	108,678	0	3,010,278	-256,579
2016	38,042	1,926,715	1,259,278	131,662	535,875	1,926,715	0	42,834	2,791,767	(133,083)	119,764	2,536,089	2,535,188	256,579
2017	35,872	1,752,551	1,313,142	116,623	322,786	1,752,551	0	45,218	4,996,329	4,944,887	30,993	20,449	4,996,329	0
2018	22,796	1,534,555	1,417,653	116,902	0	1,534,555	0	39,624	2,772,999	2,750,501	22,498	0	2,772,999	0
2019	45,007	2,154,763	1,884,631	141,401	128,731	2,154,763	0	47,002	4,017,276	3,869,621	146,834	821	4,017,276	0
2020	36,956	1,367,372	1,244,706	124,303	0	1,369,009	-1,637	36,590	2,341,760	2,081,423	147,577	112,760	2,341,760	0
2021	36,956	1,366,263	1,083,366	124,352	156,908	1,364,626	1,637	36,590	2,751,934	2,147,628	407,894	196,412	2,751,934	0
2022	36,956	1,366,263	1,069,073	158,423	138,767	1,366,263	0	36,590	2,751,934	1,976,086	445,501	330,346	2,751,934	1
2023	36,956	1,366,263	1,070,986	157,917	137,361	1,366,264	-1	36,590	2,751,934	1,976,497	435,691	339,846	2,751,934	0
2024	36,956	1,366,263	1,072,245	156,607	137,411	1,366,263	0	36,590	2,751,934	1,976,917	458,396	316,621	2,751,934	0
2025	36,956	1,366,263	1,074,220	155,352	136,691	1,366,263	0	36,590	2,751,934	1,977,344	448,897	0	2,426,241	325,693
2026	36,956	1,366,263	1,074,220	154,176	137,867	1,366,263	0	36,590	2,751,934	1,977,344	460,126	290,156	2,727,626	24,308
2027	36,956	1,366,263	1,074,220	150,040	142,003	1,366,263	0	36,590	2,751,934	1,977,344	453,627	320,963	2,751,934	0
2028	36,956	1,366,263	1,074,220	145,780	146,263	1,366,263	0	36,590	2,751,934	1,977,344	445,149	329,440	2,751,933	1
2029	36,956	1,366,263	1,074,220	141,392	150,651	1,366,263	0	36,590	2,751,934	1,977,344	439,382	335,208	2,751,934	0
2030	36,956	1,366,263	1,074,220	136,873	155,170	1,366,263	0	36,590	2,751,934	1,977,344	429,325	345,265	2,751,934	0
2031	36,956	1,366,263	1,074,220	132,414	159,629	1,366,263	0	36,590	2,751,934	1,977,344	420,677	353,913	2,751,934	0
2032	36,956	1,366,263	1,074,220	127,625	164,418	1,366,263	0	36,590	2,751,934	1,977,344	411,052	363,538	2,751,934	0
2033	36,956	1,366,263	1,074,220	122,693	169,350	1,366,263	0	36,590	2,751,934	1,977,344	401,173	373,417	2,751,934	0
2034	36,956	1,366,263	1,074,220	117,612	174,431	1,366,263	0	36,590	2,751,934	1,977,344	390,307	384,283	2,751,934	0
2035	36,956	1,366,263	1,074,220	112,379	179,664	1,366,263	0	36,590	2,751,934	1,977,344	385,849	388,741	2,751,934	0
2036	36,956	1,366,263	1,074,220	107,473	184,570	1,366,263	0	36,590	2,751,934	1,977,344	374,186	400,404	2,751,934	0
2037	36,956	1,366,263	1,074,220	101,936	190,107	1,366,263	0	36,590	2,751,934	1,977,344	362,320	412,270	2,751,934	0
2038	36,956	1,366,263	1,074,220	96,233	195,811	1,366,264	-1	36,590	2,751,934	1,977,344	351,732	422,858	2,751,934	0
2039	36,956	1,366,263	1,074,220	90,358	201,685	1,366,263	0	36,590	2,751,934	1,977,344	390,078	384,512	2,751,934	0
2040	36,956	1,366,263	1,074,220	84,308	207,735	1,366,263	0	36,590	2,751,934	1,977,344	379,709	394,881	2,751,934	0
2041	36,956	1,366,263	1,074,220	79,640	212,403	1,366,263	0	36,590	2,751,934	1,977,344	376,960	397,630	2,751,934	0
2042	36,956	1,366,263	1,074,220	73,468	218,575	1,366,263	0	36,590	2,751,934	1,977,344	365,031	409,559	2,751,934	0
2043	36,956	1,366,263	1,074,220	66,911	225,132	1,366,263	0	36,590	2,751,934	1,977,344	352,744	421,845	2,751,933	1
2044	36,956	1,366,263	1,074,220	60,157	231,886	1,366,263	0	36,590	2,751,934	1,977,344	340,089	434,501	2,751,934	0
2045	36,956	1,366,263	1,074,220	53,200	238,843	1,366,263	0	36,590	2,751,934	1,977,344	327,054	447,536	2,751,934	0
2046	36,956	1,366,263	1,074,220	47,316	244,727	1,366,263	0	36,590	2,751,934	1,977,344	313,628	460,962	2,751,934	0
2047	36,956	1,366,263	1,074,220	40,395	251,648	1,366,263	0	36,590	2,751,934	1,977,344	308,208	466,382	2,751,934	0
2048	36,956	1,366,263	1,074,220	32,845	259,198	1,366,263	0	36,590	2,751,934	1,977,344	294,216	480,374	2,751,934	0
2049	36,956	1,366,263	1,074,220	25,069	266,974	1,366,263	0	36,590	2,751,934	1,977,344	279,805	494,785	2,751,934	0
2050	36,956	1,366,263	1,074,220	17,060	274,983	1,366,263	0	36,590	2,751,934	1,977,344	267,981	506,609	2,751,934	0
2051	36,956	1,366,263	1,074,220	8,811	283,233	1,366,264	-1	36,590	2,751,934	1,977,344	277,286	497,304	2,751,934	0
2052	36,956	1,366,263	1,074,220	11,559	280,484	1,366,263	0	36,590	2,751,934	1,977,344	262,367	512,223	2,751,934	0
2053	36,956	1,366,263	1,074,220	12,688	279,355	1,366,263	0	36,590	2,751,934	1,977,344	247,000	527,590	2,751,934	0
2054	36,956	1,366,263	1,074,220	88,429	203,615	1,366,264	-1	36,590	2,751,934	1,977,344	231,173	543,417	2,751,934	0
2055	36,956	1,366,263	1,074,220	82,320	209,723	1,366,263	0	36,590	2,751,934	1,977,344	214,870	559,720	2,751,934	0
2056	36,956	1,366,263	1,074,220	83,627	208,416	1,366,263	0	36,590	2,751,934	1,977,344	198,079	576,511	2,751,934	0
2057	36,956	1,366,263	1,074,220	77,617	214,426	1,366,263	0	36,590	2,751,934	1,977,344	180,784	593,806	2,751,934	0
2058	36,956	1,366,263	1,074,220	71,184	220,859	1,366,263	0	36,590	2,751,934	1,977,344	163,033	611,557	2,751,934	0
2059	36,956	1,366,263	1,074,220	77,124	214,920	1,366,264	-1	36,590	2,751,934	1,977,344	147,915	626,675	2,751,934	0
2060	36,956	1,366,263	1,074,220	70,676	221,367	1,366,263	0	36,590	2,751,934	1,977,344	129,480	645,110	2,751,934	0
2061	36,956	1,366,263	1,074,220	64,035	228,008	1,366,263	0	36,590	2,751,934					

Participating Integrated Projects

Year UNIT---->	Dolores							Seedskadee						
	Sales	Revenues	Expenses	Interest	Repayment	RR	Surplus	Sales	Revenues	Expenses	Interest	Repayment	RR	Surplus
	MWH	\$	\$	\$	\$	\$	\$	MWH	\$	\$	\$	\$	\$	\$
1995	11,950	1,876,736	347,666	1,340,258	188,813	1,876,737	-1	52,322	1,424,991	504,249	(438,442)	0	65,807	1,359,184
1996	18,923	2,920,220	426,124	2,297,879	196,217	2,920,220	0	66,451	1,217,656	394,596	809,203	0	1,203,799	13,857
1997	9,052	2,866,476	469,106	2,285,064	446,717	3,200,887	-334,411	66,024	1,206,800	392,241	536,887	0	929,134	277,666
1998	17,337	2,911,559	178,317	2,336,580	164,256	2,679,153	232,406	74,063	2,248,405	380,281	470,577	171,056	1,021,914	1,226,491
1999	21,373	3,235,465	239,437	2,360,057	636,984	3,236,478	-1,013	70,862	1,511,203	300,069	319,795	887,112	1,506,976	4,227
2000	28,127	2,894,923	269,973	2,269,738	355,212	2,894,923	0	59,144	1,384,025	413,142	203,140	767,744	1,384,026	-1
2001	23,456	2,766,549	432,606	2,449,206	0	2,881,812	-115,263	27,335	937,996	445,909	89,220	402,868	937,997	-1
2002	5,959	2,948,763	335,235	2,306,448	191,817	2,833,500	115,263	22,579	1,301,665	398,287	124,779	778,599	1,301,665	0
2003	6,294	2,874,934	388,832	2,260,611	221,246	2,870,689	4,245	38,252	1,124,598	463,085	33,965	626,659	1,123,709	889
2004	17,885	2,988,795	251,627	2,237,536	499,634	2,988,797	-2	42,331	1,014,123	639,547	1,378	373,199	1,014,124	-1
2005	20,005	2,921,844	399,570	2,179,516	342,758	2,921,844	0	63,356	1,154,975	621,122	9,269	510,308	1,140,699	14,276
2006	15,431	2,845,475	213,197	2,177,325	480,771	2,871,293	-25,818	47,027	1,705,213	674,556	(328,108)	307,231	656,682	1,048,531
2007	8,249	2,959,291	207,826	2,096,781	654,684	2,959,291	0	37,494	1,082,246	702,400	(3,969)	(292,000)	406,431	675,815
2008	24,028	2,784,627	539,065	2,025,898	219,664	2,784,627	0	45,688	1,184,425	680,755	3,870	26,155	710,780	473,645
2009	19,152	3,214,372	446,834	2,169,152	598,386	3,214,372	0	55,245	(408,852)	601,098	(319)	(12,790)	587,989	-996,841
2010	18,391	3,850,995	800,106	2,090,005	960,884	3,850,995	0	34,348	929,572	673,746	187	1,152,596	1,826,529	-896,957
2011	21,019	3,158,541	1,010,691	2,189,874	0	3,200,565	-42,024	52,076	1,389,147	999,594	(31,308)	41,816	1,010,102	379,045
2012	19,660	3,328,365	2,355	2,019,915	1,304,912	3,327,182	1,183	53,693	455,410	918,833	(3,399)	(89,979)	834,455	-379,045
2013	9,545	3,047,401	862,788	1,829,803	333,878	3,026,466	20,935	52,461	3,002,908	931,825	2,673	318,497	1,252,995	1,749,913
2014	20,297	3,067,909	416,411	1,930,353	701,239	3,048,003	19,906	55,659	1,136,350	934,423	184,921	0	1,119,344	17,006
2015	20,253	8,061,201	4,989,415	1,798,702	1,273,084	8,061,201	0	71,781	1,384,595	920,683	(11,758)	368,988	1,277,913	106,682
2016	22,923	3,767,574	(330,684)	1,725,686	2,362,582	3,767,574	0	53,409	501,959	1,013,445	(731,968)	220,082	501,559	400
2017	22,040	3,933,382	1,328,267	1,519,736	1,085,379	3,933,382	0	30,322	1,689,591	952,404	713,921	23,266	1,689,591	0
2018	20,826	#####	2,227,310	1,491,654	24,947,658	28,666,622	0	66,662	955,763	922,008	33,755	0	955,763	0
2019	21,385	168,170	637,661	(712,584)	243,073	168,170	0	56,882	1,183,898	870,423	130,178	183,297	1,183,898	0
2020	19,642	1,084,435	767,329	64,032	253,073	1,084,434	1	52,497	1,679,904	1,026,505	111,277	542,122	1,679,904	0
2021	19,642	1,206,608	787,432	54,319	364,857	1,206,608	0	52,497	1,746,103	1,049,607	145,925	550,571	1,746,103	0
2022	19,642	1,206,608	985,848	40,005	180,755	1,206,608	0	52,497	1,746,103	1,095,239	137,386	513,478	1,746,103	0
2023	19,642	1,206,608	1,012,078	35,998	158,532	1,206,608	0	52,497	1,746,103	1,127,294	116,693	502,116	1,746,103	0
2024	19,642	1,206,608	1,111,609	29,280	65,719	1,206,608	0	52,497	1,746,103	1,160,296	345,031	240,776	1,746,103	0
2025	19,642	1,206,608	1,164,253	31,947	10,408	1,206,608	0	52,497	1,746,103	1,194,272	340,258	211,572	1,746,103	0
2026	19,642	1,206,608	979,584	36,763	190,261	1,206,608	0	52,497	1,746,103	1,194,272	331,762	220,069	1,746,103	0
2027	19,642	1,206,608	979,584	29,124	197,900	1,206,608	0	52,497	1,746,103	1,194,272	323,293	228,538	1,746,103	0
2028	19,642	1,206,608	979,584	20,635	206,389	1,206,608	0	52,497	1,746,103	1,194,272	313,773	238,058	1,746,103	0
2029	19,642	1,206,608	979,584	12,085	214,939	1,206,608	0	52,497	1,746,103	1,194,272	304,020	247,811	1,746,103	0
2030	19,642	1,206,608	979,584	3,380	197,692	1,180,656	25,952	52,497	1,746,103	1,194,272	294,047	257,783	1,746,102	1
2031	19,642	1,206,608	979,584	(3,847)	0	975,737	230,871	52,497	1,746,103	1,194,272	283,490	268,341	1,746,103	0
2032	19,642	1,206,608	979,584	0	0	979,584	227,024	52,497	1,746,103	1,194,272	289,344	262,486	1,746,102	1
2033	19,642	1,206,608	979,584	0	0	979,584	227,024	52,497	1,746,103	1,194,272	278,729	273,016	1,746,017	86
2034	19,642	1,206,608	979,584	0	0	979,584	227,024	52,497	1,746,103	1,194,272	267,547	279,088	1,740,907	5,196
2035	19,642	1,206,608	979,584	0	227,024	1,206,608	0	52,497	1,746,103	1,194,272	255,707	296,124	1,746,103	0
2036	19,642	1,206,608	979,584	105,766	121,258	1,206,608	0	52,497	1,746,103	1,194,272	265,315	286,516	1,746,103	0
2037	19,642	1,206,608	979,584	103,105	123,919	1,206,608	0	52,497	1,746,103	1,194,272	253,793	298,038	1,746,103	0
2038	19,642	1,206,608	979,584	98,231	128,794	1,206,609	-1	52,497	1,746,103	1,194,272	241,368	310,463	1,746,103	0
2039	19,642	1,206,608	979,584	93,314	133,710	1,206,608	0	52,497	1,746,103	1,194,272	228,416	323,415	1,746,103	0
2040	19,642	1,206,608	979,584	92,165	134,859	1,206,608	0	52,497	1,746,103	1,194,272	214,977	336,853	1,746,102	1
2041	19,642	1,206,608	979,584	89,216	137,808	1,206,608	0	52,497	1,746,103	1,194,272	200,925	350,906	1,746,103	0
2042	19,642	1,206,608	979,584	83,795	143,229	1,206,608	0	52,497	1,746,103	1,194,272	186,286	365,545	1,746,103	0
2043	19,642	1,206,608	979,584	78,115	148,909	1,206,608	0	52,497	1,746,103	1,194,272	171,036	380,795	1,746,103	0
2044	19,642	1,206,608	979,584	131,935	95,089	1,206,608	0	52,497	1,746,103	1,194,272	155,149	396,682	1,746,103	0
2045	19,642	1,206,608	979,584	134,728	92,296	1,206,608	0	52,497	1,746,103	1,194,272	138,945	412,886	1,746,103	0
2046	19,642	1,206,608	979,584	134,503	92,521	1,206,608	0	52,497	1,746,103	1,194,272	121,727	430,104	1,746,103	0
2047	19,642	1,206,608	979,584	130,898	96,126	1,206,608	0	52,497	1,746,103	1,194,272	103,783	448,047	1,746,102	1
2048	19,642	1,206,608	979,584	127,086	99,938	1,206,608	0	52,497	1,746,103	1,194,272	85,091	466,740	1,746,103	0
2049	19,642	1,206,608	979,584	123,123	103,901	1,206,608	0	52,497	1,746,103	1,194,272	65,619	486,211	1,746,102	1
2050	19,642	1,206,608	979,584	119,002	108,022	1,206,608	0	52,497	1,746,103	1,194,272	45,335	506,496	1,746,103	0
2051	19,642	1,206,608	979,584	114,717	112,307	1,206,608	0	52,497	1,746,103	1,194,272	33,654	518,177	1,746,103	0
2052	19,642	1,206,608	979,584	187,325	39,699	1,206,608	0	52,497	1,746,103	1,194,272	15,297	536,533	1,746,102	1
2053	19,642	1,206,608	979,584	196,082	30,942	1,206,608	0	52,497	1,746,103	1,194,272	43,858	507,972	1,746,102	1
2054	19,642	1,206,608	979,584	195,048	31,976	1,206,608	0	52,497	1,746,103	1,194,272	32,841	518,990	1,746,103	0
2055	19,642	1,206,608	979,584	193,783	33,241	1,206,608	0	52,497	1,746,103	1,194,272	26,923	524,908	1,746,103	0
2056	19,642	1,206,608	979,584	192,465	34,559	1,206,608	0	52,497	1,746,103	1,194,272	6,378	426,336	1,626,986	119,117
2057	19,642	1,206,608	979,584	191,094	35,930	1,206,608	0	52,497	1,746,103	1,194,272	(8,297)	560,127	1,746,102	1
2058	19,642	1,206,608	979,584	204,031	22,993	1,206,608	0	52,497	1,746,103	1,194,272	42,223	509,608	1,746,103	0
2059	19,642	1,206,608	979,584	205,334	21,690	1,206,608	0	52,497	1,746,103	1,194,272	23,372	528,459	1,746,103	0
2060	19,642	1,206,608	979,584	204,515	22,509	1,206,608	0	52,497	1,746,103	1,194,272	2,437	326,852	1,523,561	222,542
2061	19,642	1,206,608	979,584	203,623	23,401	1,206,608	0	52,497	1,746,103	1,194,272	(6,381)	41,433	1,229,344	516,759
2062	19,642	1,206,608	979,584	202,695	24,329	1,206,608	0	52,497	1,746,103</					

COLORADO RIVER BASIN SALINITY CONTROL PROGRAM TITLE II  
Upper Colorado River Basin Fund  
As of 9/30/2019

A Fiscal Year	B C D E F G H Up-front Cost Sharing						I Total Repayment Transfer to Treasury	J Total Annual Requirement	
	Paradox Valley O&M	Grand Valley O&M	McElmo Creek (Dolores) O&M	Lower Gunnison O&M	Basinwide SCP	USDA NRCS BSP			Total Transfer to UC Region
1987								6,918	6,918
1988								90,088	90,088
1989								110,531	110,531
1990								156,936	156,936
1991								200,047	200,047
1992								301,475	301,475
1993								451,325	451,325
1994								357,687	357,687
1995								1,934,454	1,934,454
1996								2,750,148	2,750,148
1997					222,505	(254,648)	(32,143)	285,643	253,500
1998	65,752	126,103	\$26,036	25,622	487,341	131,146	862,000	135,666	997,666
1999	80,561	50,013	21,423	17,195	803,533	244,275	1,217,000	87,604	1,304,604
2000	122,523	42,997	17,817	20,513	773,201	1,611,949	2,589,000	0	2,589,000
2001	104,192	25,425	19,707	20,202	693,579	(863,105)	0	0	0
2002	97,249	49,402	14,879	11,045	738,660	318,765	1,230,000	0	1,230,000
2003	73,375	42,882	23,278	(161)	549,268	271,358	960,000	0	960,000
2004	88,788	37,100	21,859	(89)	613,687	1,200,655	1,962,000	0	1,962,000
2005	95,089	32,359	27,996		529,948	1,256,756	1,942,148	0	1,942,148
2006	90,822	45,863	33,206		544,650	1,469,355	2,183,896	0	2,183,896
2007	98,721	50,252	18,809		574,676 1/	3,274,556	4,017,014 2/	0	4,017,014
2008	135,786	42,183	25,118		513,236	(2,541,323)	(1,825,000)	0	(1,825,000)
2009	117,029	65,919	27,105		1,110,870	4,725,077	6,046,000	0	6,046,000
2010	141,167	38,278	30,396		430,984	1,289,302	1,930,127	0	1,930,127
2011	137,250	51,500	22,114		545,989	801,982	1,558,835	0	1,558,835
2012	121,350	48,336	21,592		533,448	861,682	1,586,408	0	1,586,408
2013	117,199	56,644	25,341		557,908	930,508	1,687,600	0	1,687,600
2014	131,600	70,700	21,536		450,964	1,603,400	2,278,200	0	2,278,200
2015	212,622	94,100	44,293		639,793	1,009,181	1,999,989	0	1,999,989
2016	188,820	119,230	31,050		583,265	1,005,454	1,927,819	0	1,927,819
2017	166,450	73,831	27,964		650,274	777,577	1,696,096	0	1,696,096
2018	152,957	90,603	30,021		699,612	896,715	1,869,908	0	1,869,908
2019	212,072	59,841	44,134		538,775	1,049,123	1,903,944	0	1,903,944
<b>Subtotal</b>	<b>2,751,374</b>	<b>1,313,560</b>	<b>575,674</b>	<b>94,327</b>	<b>13,786,166</b>	<b>21,069,740</b>	<b>39,590,841</b>	<b>6,868,522</b>	<b>46,459,363</b>
2020	199,600	117,400	32,300		642,900	1,052,800	2,045,000	0	2,045,000
2021	377,600	105,450	30,500		385,700	1,019,600	1,918,850	0	1,918,850
2022	250,000	100,000	30,000		514,300	1,001,800	1,896,100	0	1,896,100
2023	250,000	100,000	30,000		514,300	771,400	1,665,700	0	1,665,700
2024	250,000	100,000	30,000		514,300	771,400	1,665,700	0	1,665,700
2025	250,000	100,000	30,000		514,300	771,400	1,665,700	0	1,665,700
2026	250,000	100,000	30,000		514,300	642,900	1,537,200	1,384,314	2,921,514
2027	250,000	100,000	30,000		514,300	642,900	1,537,200	0	1,537,200
2028	250,000	100,000	30,000		514,300	642,900	1,537,200	0	1,537,200
2029	177,600	100,000	30,000		514,300	642,900	1,464,800	0	1,464,800
2030	177,600	100,000	30,000		514,300	642,900	1,464,800	0	1,464,800
2031	177,600	100,000	30,000		514,300	642,900	1,464,800	0	1,464,800
2032	177,600	100,000	30,000		514,300	642,900	1,464,800	0	1,464,800
2033	177,600	100,000	30,000		514,300	642,900	1,464,800	0	1,464,800
2034	177,600	100,000	30,000		514,300	642,900	1,464,800	0	1,464,800
2035	177,600	100,000	30,000		514,300	642,900	1,464,800	0	1,464,800
2036	177,600	100,000	30,000		514,300	642,900	1,464,800	0	1,464,800
2037	177,600	100,000	30,000		514,300	642,900	1,464,800	0	1,464,800
2038	177,600	100,000	30,000		514,300	642,900	1,464,800	0	1,464,800
2039	177,600	100,000	30,000		514,300	642,900	1,464,800	3,200,008	4,664,808
2040	177,600	100,000	30,000		514,300	514,300	1,336,200	64,747	1,400,947
2041	177,600	100,000	30,000		514,300	514,300	1,336,200	0	1,336,200
2042	177,600	100,000	30,000		514,300	514,300	1,336,200	347,605	1,683,805
2043	177,600	100,000	30,000		514,300	514,300	1,336,200	158,454	1,494,654
2044	177,600	100,000	30,000		514,300	514,300	1,336,200	0	1,336,200
2045	177,600	100,000	30,000		514,300	514,300	1,336,200	0	1,336,200
2046	177,600	100,000	30,000		514,300	514,300	1,336,200	1,071,189	2,407,389
2047	177,600	100,000	30,000		514,300	514,300	1,336,200	1,919,584	3,255,784
2048	177,600	100,000	30,000		514,300	514,300	1,336,200	0	1,336,200
<b>Total</b>	<b>8,630,574</b>	<b>4,236,410</b>	<b>1,448,474</b>	<b>94,327</b>	<b>28,700,866</b>	<b>40,087,440</b>	<b>83,198,091</b>	<b>15,014,423</b>	<b>98,212,514</b>

1/ In FY2003 \$1,103,000 was transferred from the Upper Basin Fund, but was not transferred into the Salinity Program until FY 2007. The total amount was accounted for in the Basinwide Program portion.

2/ The actual amount transferred from the Upper Basin Fund to the UC Region for the Salinity Program was \$2,038,000, of which \$573,000 was for the Basinwide Program. Please see footnote 1/ for the explanation of the difference

**Other Expenses: Unfunded Benefits**  
**5 Year Average**

<b>Total Unrecovered Retirement/FEGLI/Health Benefit Costs</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>5-yr Avg</b>
VMF-JJCR CRSP	\$ 908,190	\$ 1,067,283	\$ 875,212	\$ 1,326,950	\$ 1,453,244	\$ 1,126,176
VMF-GGCR Colorado River Storage	\$ 363,036	\$ 233,070	\$ 174,641	\$ 282,361	\$ 320,933	\$ 274,808
VMF-LLCR CRSP	\$ 396,283	\$ 400,214	\$ 284,372	\$ 424,922	\$ 445,894	\$ 390,337
Consolidated CRSP - JJCR+GGCR+LLCR	\$ 1,667,509	\$ 1,700,567	\$ 1,334,225	\$ 2,034,233	\$ 2,220,071	\$ 1,791,321
WMA-LLCO Collbran	\$ 464	\$ 470	\$ 334	\$ 499	\$ 591	\$ 472
VMF-LLDO Dolores	\$ 464	\$ 564	\$ 401	\$ 599	\$ 710	\$ 547
WMA-LLRG Rio Grande	\$ 464	\$ 564	\$ 401	\$ 599	\$ 710	\$ 547
VMF-LLSE Seedskadee	\$ 479	\$ 564	\$ 401	\$ 599	\$ 710	\$ 550
<b>Total All:</b>	<b>\$ 1,669,381</b>	<b>\$ 1,702,729</b>	<b>\$ 1,335,760</b>	<b>\$ 2,036,527</b>	<b>\$ 2,222,791</b>	<b>\$ 1,793,438</b>

**Aid to Irrigation data for the FY 2020 Preliminary CRSP PRS**

<b>Aid to irrigation 1/</b>		
Irrigation allocation		114,713,204
Less other credits:		
	Contributions	538,928
	CRDF	118,265
	Non-reimbursable	
Due from surplus power & M&I for 2019		<u>114,056,011</u>
Due from surplus power & M&I for 2018		<u>113,515,472</u>
Increase for FY 2019 (goes in PRS IFI)		<u>540,539</u>
M&I payments through 2019		32,708,158
M&I payments through 2018		32,056,755
FY19 Increase to Surplus M&I Revenues for PRS		<u>651,403</u>
Anticipated power repayment		<u>81,347,853</u>

<b>Aid to Part Proj Irr</b>		
Construction	2/	774,031,000
Apportionment	3/	<u>323,477,372</u>
Total	FY 2019	<u>1,097,508,372</u>
	FY 2018 increase for PRS	<u>1,093,056,349</u>
	FY 2019 increase for PRS	<u>4,452,023</u>

**Total Non-power (2019) for SOR**

<b>2019</b>	1,178,856,225
<b>2018 /4</b>	1,174,515,066
<b>Increase</b>	<u>4,341,159</u>

1/ Based on the 2018 SPCCR.

2/ Based on the USBR FY 2018 (62nd Annual Report) revenues required by Basin States for irrigation assistance. From Val Deppe

3/ Based on the apportionment table.

4/ Based on the 2018 SOR.

**ENTERED IN PRS**

**ENTERED IN SOR**

**Colorado River Storage Project (Initial Units) Irrigation  
SPCCR for FY 2018**

	Schedule	0622 Aspinall	0591 Flaming	0557 Glen	0594 O&M	0711 Navajo	0864 Trans	Total
<u>Costs</u>								
Multipurpose Land and Rights (SGL 1711)	A	1,415,126	2,730,583	2,940,104		3,855,634		10,941,447
Building	A	26,063	703,697	2,028,659		324,711		
Construction in Progress (CIP)			1,662	339,736		414,135		
Plant in Service (SGL 1740)	A	1,735,150	13,286,439	52,229,620		26,691,559		93,942,768
Property Transfers	B	43,872	1,728,356	2,249,103				4,021,331
Contributions - Visitor Center Remodel	B			280,509				
Expensed	B					52,429		52,429
Non-reimbursable	B							-
Retirements and Abandoned Plant	B		18,510	1,599,722		17,825		1,636,057
Transfer to Western	B							-
IDC Multipurpose	D							-
IDC Power	D							-
IDC Transferred to Western	D							-
<b>Total Costs</b>		<b>3,220,211</b>	<b>18,469,247</b>	<b>61,667,453</b>	<b>-</b>	<b>31,356,293</b>	<b>-</b>	<b>114,713,204</b>
<u>Repayment</u>								
Contributions	E	3,451	142,562	392,187		728		538,928
CRDF	E	9,305	34,398	18,842		55,720		118,265
Western	E	3,207,456		16,067,130		31,299,844		50,574,430
Surplus M&I Applied to Repayment	E		18,292,287	14,415,871				32,708,158
Future Power Repayment	F	-	-					-
<b>Total Repayment</b>		<b>3,220,212</b>	<b>18,469,247</b>	<b>30,894,030</b>	<b>-</b>	<b>31,356,292</b>	<b>-</b>	<b>83,939,781</b>

## Salt Lake City Area Integrated Projects

### Irrigation Cumulative Repayment Obligations Comparisons

Unit: \$1,000

Item	WAPA-169	WAPA-190	Difference
Aid to Main-stem Irrigation	107,590	114,056 2/	6,466
Aid to Participating Projects Irrigation: 1/			
Construction	778,431	774,031	(4,400)
Apportionment	316,630	323,477	6,847
Total Aid to Participating Projects	1,095,061	1,097,508 2/	2,447

1/ Includes only projects meeting the criteria of the 1983 CREDA agreement. Increase in construction mostly due to revision to cost allocations for Utah's Bonneville Unit. Decrease in apportionment due to MOA between BOR, WAPA, Upper Basin States & CREDA.

2/ Totals are equal to Historical Subtotals for Principle Payment plus Unpaid Balance in the Executive Summary

**Colorado River Storage Project**  
**Aid to Participating Projects Irrigation Repayment Obligations and Apportioned Revenues Applied**  
**FY 2020 PRS**

Unit: \$ 1,000

year	Colorado 46%				New Mexico 17%				Utah 21.5%				Wyoming 15.5%				Total			
	Incremental		Cumulative		Incremental		Cumulative		Incremental		Cumulative		Incremental		Cumulative		Incremental		Cumulative	
	Obligation	Available W/Appor	Obligation	Available W/Appor	Obligation	Available W/Appor	Obligation	Available W/Appor	Obligation	Available W/Appor	Obligation	Available W/Appor	Obligation	Available W/Appor	Obligation	Available W/Appor	Obligation	Available W/Appor	Obligation	Available W/Appor
2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2016	-	4,039	-	4,039	-	1,493	-	1,493	8,781	1,888	8,781	1,888	-	1,361	-	1,361	8,781	8,781	8,781	8,781
2017	3,190	2,030	3,190	6,070	-	750	-	2,243	-	949	-	2,243	1,224	684	1,224	2,045	4,414	4,414	13,195	13,195
2018	-	-	3,190	6,070	-	-	-	2,243	-	-	8,781	2,837	-	-	1,224	2,045	-	-	-	13,195
2019	-	-	3,190	6,070	-	-	-	2,243	-	-	8,781	2,837	-	-	1,224	2,045	-	-	-	13,195
2020	-	2,940	3,190	9,010	-	1,086	-	3,330	6,391	1,374	15,172	4,211	-	991	1,224	3,036	6,391	6,391	19,586	19,586
2021	13,684	6,295	16,874	15,304	-	2,326	-	5,656	-	2,942	15,172	7,153	-	2,121	1,224	5,157	13,684	13,684	33,270	33,270
2022	-	-	16,874	15,304	-	-	-	5,656	-	-	15,172	7,153	-	-	1,224	5,157	-	-	-	33,270
2023	-	10,027	16,874	25,331	21,797	3,705	21,797	9,361	-	4,686	15,172	11,839	-	3,379	1,224	8,535	21,797	21,797	55,067	55,067
2024	-	-	16,874	25,331	-	-	21,797	9,361	-	-	15,172	11,839	-	-	1,224	8,535	-	-	-	55,067
2025	-	47,726	16,874	73,057	-	17,638	21,797	26,999	103,753	22,307	118,925	34,146	-	16,082	1,224	24,617	103,753	103,753	158,820	158,820
2026	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	158,820
2027	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	158,820
2028	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	158,820
2029	5,482	36,761	5,482	36,761	-	13,586	-	13,586	-	17,182	-	17,182	12,387	12,387	12,387	12,387	17,869	79,916	176,689	238,736
2030	-	-	5,482	36,761	-	-	-	13,586	-	-	-	17,182	-	-	12,387	12,387	-	-	-	176,689
2031	-	-	5,482	36,761	-	-	-	13,586	-	-	-	17,182	-	-	12,387	12,387	-	-	-	176,689
2032	-	-	5,482	36,761	7,578	-	7,578	13,586	-	-	-	17,182	-	-	12,387	12,387	7,578	-	184,267	238,736
2033	-	-	5,482	36,761	-	-	7,578	13,586	-	-	-	17,182	-	-	12,387	12,387	-	-	184,267	238,736
2034	-	-	5,482	36,761	-	-	7,578	13,586	4,977	-	4,977	17,182	-	-	12,387	12,387	4,977	-	189,244	238,736
2035	-	70,668	5,482	107,429	-	26,116	7,578	39,702	-	33,030	4,977	50,212	23,812	23,812	36,199	36,199	23,812	153,626	213,056	392,362
2036	-	-	5,482	107,429	-	-	7,578	39,702	-	-	4,977	50,212	-	-	36,199	36,199	-	-	213,056	392,362
2037	-	-	5,482	107,429	-	-	7,578	39,702	-	-	4,977	50,212	-	-	36,199	36,199	-	-	213,056	392,362
2038	50,454	-	55,936	107,429	-	-	7,578	39,702	-	-	4,977	50,212	-	-	36,199	36,199	50,454	-	263,510	392,362
2039	-	-	55,936	107,429	-	-	7,578	39,702	-	-	4,977	50,212	-	-	36,199	36,199	-	-	263,510	392,362
2040	5,146	-	61,082	107,429	-	-	7,578	39,702	-	-	4,977	50,212	-	-	36,199	36,199	5,146	-	268,656	392,362
2041	-	-	61,082	107,429	-	-	7,578	39,702	-	-	4,977	50,212	-	-	36,199	36,199	-	-	268,656	392,362
2042	1,905	-	62,987	107,429	-	-	7,578	39,702	-	-	4,977	50,212	-	-	36,199	36,199	1,905	-	270,561	392,362
2043	-	-	62,987	107,429	-	-	7,578	39,702	-	-	4,977	50,212	-	-	36,199	36,199	-	-	270,561	392,362
2044	-	-	62,987	107,429	-	-	7,578	39,702	-	-	4,977	50,212	-	-	36,199	36,199	-	-	270,561	392,362
2045	101,807	57,365	164,794	164,794	-	21,200	7,578	60,902	-	26,812	4,977	77,023	19,329	-	36,199	55,528	101,807	124,706	372,368	517,068
2046	-	-	164,794	164,794	-	-	7,578	60,902	-	-	4,977	77,023	-	-	36,199	55,528	-	-	372,368	517,068
2047	-	-	164,794	164,794	-	-	7,578	60,902	-	-	4,977	77,023	-	-	36,199	55,528	-	-	372,368	517,068
2048	78,521	78,521	243,315	243,315	-	29,019	7,578	89,921	-	36,700	4,977	113,723	26,458	-	36,199	81,987	78,521	170,698	450,889	687,766
2049	23,264	23,264	266,579	266,579	-	8,598	7,578	98,518	-	10,873	4,977	124,597	7,839	-	36,199	89,826	23,264	50,574	474,153	738,340
2050	-	-	266,579	266,579	-	-	7,578	98,518	73,209	-	78,186	124,597	-	-	36,199	89,826	73,209	-	547,362	738,340
2051	-	-	266,579	266,579	-	-	7,578	98,518	-	-	78,186	124,597	-	-	36,199	89,826	-	-	547,362	738,340
2052	80,719	80,719	347,298	347,298	-	29,831	7,578	128,349	-	37,727	78,186	162,324	27,199	-	36,199	117,024	80,719	175,476	628,081	913,816
2053	-	-	347,298	347,298	-	-	7,578	128,349	-	-	78,186	162,324	-	-	36,199	117,024	-	-	628,081	913,816
2054	-	27,446	347,298	374,744	-	10,143	7,578	138,492	96,966	12,828	175,152	175,152	9,248	-	36,199	126,272	96,966	59,665	725,047	973,480
2055	-	31,120	347,298	405,863	-	11,501	7,578	149,993	14,545	14,545	189,697	189,697	10,486	-	36,199	136,758	14,545	67,651	739,592	1,041,132
2056	-	-	347,298	405,863	-	-	7,578	149,993	-	-	189,697	189,697	-	-	36,199	136,758	-	-	739,592	1,041,132
2057	22,703	25,933	370,001	431,797	-	9,584	7,578	159,577	12,121	12,121	201,818	201,818	8,738	-	36,199	145,497	34,824	56,377	774,416	1,097,508
2058	-	-	370,001	431,797	-	-	7,578	159,577	-	-	201,818	201,818	-	-	36,199	145,497	-	-	774,416	1,097,508
2059	-	-	370,001	431,797	-	-	7,578	159,577	-	-	201,818	201,818	-	-	36,199	145,497	-	-	774,416	1,097,508
2060	-	-	370,001	431,797	-	-	7,578	159,577	-	-	201,818	201,818	-	-	36,199	145,497	-	-	774,416	1,097,508
<b>Total</b>	<b>386,875</b>	<b>504,854</b>	<b>29,375</b>	<b>186,576</b>	<b>320,743</b>	<b>235,964</b>	<b>37,423</b>	<b>170,114</b>	<b>774,416</b>	<b>1,097,508</b>										

Note: Boxed yellow amounts trigger apportionment. Boxed green amounts indicate total available with apportionment. Boxed blue amounts indicate apportionment under MOA agreement

REVENUES REQUIRED BY THE UPPER COLORADO RIVER BASIN STATES  
FOR IRRIGATION ASSISTANCE OF PARTICIPATING PROJECTS  
USING FULL 50-YEAR REPAYMENT PERIOD FOR EACH BLOCK

Fiscal Year 2018 - 62nd Annual Report  
(Units = \$1,000)

<i>Fiscal Year</i>	<b>Colorado</b>		<b>New Mexico</b>		<b>Utah</b>		<b>Wyoming</b>		<i>Total of Four States</i>
	<i>Project or Block</i>	<i>Amount Required</i>							
2016					Vernal Unit	8,781			8,781
2017	Smith Fork	3,190					Seedskaadee	1,224	4,414
2020					Emery County	6,391			6,391
2021	Florida	7,728							7,728
2021	Silt	5,956							5,956
2023			San Juan-Chama 1	21,797					21,797
2025					Duchesne	103,753			103,753
2029	Bostwick Park	5,482					Eden	12,387	17,869
2032			San Juan-Chama 2	941					941
2032			Hammond	6,637					6,637
2034					Jensen Unit	4,977			4,977
2035							Lyman	23,812	23,812
2038	Dolores 1	50,454							50,454
2040	Paonia	5,146							5,146
2042	Dallas Creek	1,905							1,905
2045	Dolores 4	101,807							101,807
2048	Dolores 6	78,521							78,521
2049	Dolores 7	23,264							23,264
2050					Heber-Francis	73,209			73,209
2052	Dolores 8	80,719							80,719
2054					Utah County	96,966			96,966
2055					Starvation Reservoir	14,545			14,545
2057	Animas-La Plata 1/	22,703			UBRP	12,121			34,824
SUBTOTAL:		386,875		29,375		320,743		37,423	774,416
2110	Fruitland Mesa				Uintah Unit		Savery-Pot Hook		
2110	West Divide				Upalco Unit		LaBarge		
2110	San Miguel								
2110	Savery-Pot Hook								
SUBTOTAL: 2/		0		0		0		0	0
TOTAL:		386,875		29,375		320,743		37,423	774,416

1/ Legal waiver of assistance for irrigation investigation costs still not available. Timing dated 50 years from construction completion estimated at year 2007.

2/ Apportioned revenues associated with those projects indefinitely deferred pursuant to the 1983 CREDA Agreement.

## Salt Lake City Integrated Projects

unit: 1,000

### Average Annual Transmission Revenue Comparison

Item	WAPA-169 SLIP-F10	WAPA-190 SLIP-F11	Difference
Total Transmission Revenue	\$ 19,640	\$ 14,881	\$ (4,759)

**PROJECTED CRSP FIRM AND NON-FIRM WHEELING AND EXCHANGE REVENUE**

Table consistently reviewed and updated. Last review February 2020

Customer	Contract Number	Contract Expiration Date	Rate Unit	\$1.645				
				2021	2022	2023	2024	2025
<b>CRSP Energy Mngt. &amp; Mktg Office (EMMO)</b>								
FES Transmission Reservation	11-SLC-0659		kW	1,435,886	1,435,886	1,435,886	1,435,886	1,435,886
<b>Total Merchant Service Agreements</b>	07-SLC-0610	9/30/2024	kW	1,507,000	1,507,000	1,507,000	1,507,000	1,507,000
			\$ 1.65	\$ -	\$ -	\$ -	\$ -	\$ -
	98-SLC-0372		kW	130,000	130,000	130,000	130,000	130,000
			\$ 0.00	\$ -	\$ -	\$ -	\$ -	\$ -
	00-SLC-0439			440,000	440,000	440,000	440,000	440,000
			\$ 0.00	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL CRSP EMMO</b>			kW	3,512,886	3,512,886	3,512,886	3,512,886	3,512,886
			\$	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Exchange Contracts</b>								
APS		6/1/2046	kW	150,000	150,000	150,000	150,000	150,000
	14-06-400-3654		\$	\$ -	\$ -	\$ -	\$ -	\$ -
Salt River Project	14-06-400-2468	9/30/2024	kW	250,000	250,000	250,000	250,000	250,000
			\$ 1.65	\$ 4,935,000	\$ 4,935,000	\$ 4,935,000	\$ 4,935,000	\$ 4,935,000
Salt River Project	08-SLC-0615	6/30/2018	kW	0	0	0	0	0
25MW Provided to SRP from Merchant Reservation (Counted in Load Sheet for VAR)			\$	\$ -	\$ -	\$ -	\$ -	\$ -

**PROJECTED CRSP FIRM AND NON-FIRM WHEELING AND EXCHANGE REVENUE**

Table consistently reviewed and updated. Last review February 2020

Customer	Contract Number	Contract Expiration Date	Rate Unit	\$1.645					
				2021	2022	2023	2024	2025	
Public Service Company of New Mexico	14-06-400-2425	6/1/2047	kW	84,000	84,000	84,000	84,000	84,000	
<b>NO BILL - EXCHANGE</b> (Add to 14-06-400-2425 Load for TransRate)	8-07-40-P0695			50,000	50,000	50,000	50,000	50,000	
			kW						
			\$	\$ -	\$ -	\$ -	\$ -	\$ -	
Tri-State G&T (Colorado-Ute)	91-SLC-0178	9/30/2053	kW	100,000	100,000	100,000	100,000	100,000	
16-SLC-0731, 0732, 0733 (50MW+15MW + 35MW)			\$	1.65	\$ 1,974,000	\$ 1,974,000	\$ 1,974,000	\$ 1,974,000	
<b>Total Exchange Contracts</b>			kW	634,000	634,000	634,000	634,000	634,000	
			\$	\$ 6,909,000	\$ 6,909,000	\$ 6,909,000	\$ 6,909,000	\$ 6,909,000	

**PROJECTED CRSP FIRM AND NON-FIRM WHEELING AND EXCHANGE REVENUE**

Table consistently reviewed and updated. Last review February 2020

Customer	Contract Number	Contract Expiration Date	Rate Unit	\$1.645					
					2021	2022	2023	2024	2025
<b>Firm Wheeling Contracts</b>									
Delta Montrose Electric Assoc.	99-SLC-0407	3/31/2008	kW		20	20	20	20	20
			\$	1.65	\$ 395	\$ 395	\$ 395	\$ 395	\$ 395
Los Alamos County	14-RMR-2495	9/30/2024	kW		10,000	10,000	10,000	10,000	10,000
			\$	1.65	\$ 197,400	\$ 197,400	\$ 197,400	\$ 197,400	\$ 197,400
Municipal Energy Agency of NE (18-SLC-0961)	13-RMR-2411	5/1/2019	kW		2,000	0			
	19-SLC-0991	5/1/2021	\$	1.65	\$ 23,030	\$ -	\$ -	\$ -	\$ -
	15-RMR-2636	4/30/2020	kW		5,000	5,000	5,000	5,000	5,000
			\$	1.65	\$ 98,700	\$ 98,700	\$ 98,700	\$ 98,700	\$ 98,700
Navajo Tribal Utility Authority 4/	14-06-400-4537	6/1/2023	kW		30,000	30,000	30,000	30,000	30,000
			\$	1.65	\$ -	\$ -	\$ -	\$ -	\$ -
<i>The 30MW will change to 40MW under the new OAT agreement</i>									
PacifiCorp/APS	94-SLC-0276	1/31/2021	kW		250,000	0	0	0	0
			\$	1.65	\$ 1,645,000	\$ -	\$ -	\$ -	\$ -
<i>To terminate in Jan 2021</i>									
Salt River Project (OATT)	15-SLC-0712	12/31/2020	kW		0	0	0	0	0
			\$	1.65	\$ -	\$ -	\$ -	\$ -	\$ -
Tri-State G&T	03-SLC-0503	10/28/2037	kW		100,000	100,000	100,000	100,000	100,000
			\$	1.65	\$ 1,974,000	\$ 1,974,000	\$ 1,974,000	\$ 1,974,000	\$ 1,974,000
<b>Total Firm Wheeling</b>			kW		409,020	157,020	157,020	157,020	157,020
			\$		\$ 4,167,917	\$ 2,499,887	\$ 2,499,887	\$ 2,499,887	\$ 2,499,887

**PROJECTED CRSP FIRM AND NON-FIRM WHEELING AND EXCHANGE REVENUE**

Table consistently reviewed and updated. Last review February 2020

Customer	Contract Number	Contract Expiration Date	Rate Unit	\$1.645						
					2021	2022	2023	2024	2025	
<b>Network Contracts</b>										
Aztec, City of Network contract	16-RMR-2760	6/30/2023	kW \$	1.65	\$ 4,262	\$ 84,132	\$ 4,262	\$ 84,132	\$ 4,262	\$ 84,132
APS Network contract	09-SLC-0628	12/31/2020	kW \$	1.65	\$ 53,015	\$ 1,046,516	\$ 53,015	\$ 1,046,516	\$ 53,015	\$ 1,046,516
Black Hills/Colorado Electric Utility Company, LP Network contract	11-SLC-0661	12/31/2022	kW \$	1.65	\$ 14,420	\$ -	\$ 14,420	\$ -	\$ 14,420	\$ -
Deseret (Garkane South) 17-RMR-2832 (28MW) Network contract	17-RMR-2832	8/1/2020	kW \$	1.65	\$ 9,288	\$ 183,345	\$ 9,288	\$ 183,345	\$ 9,288	\$ 183,345
Fredonia, AZ 3/ Network contract	08-SLC-0620	9/30/2028 Can terminate w/5yrs notice	kW \$	1.65	\$ 1,769	\$ 34,920	\$ 1,769	\$ 34,920	\$ 1,769	\$ 34,920
Municipal Energy Agency of NE 3/ Network contract	12-RMR-2321	9/30/2022	kW \$	1.65	\$ 3,612	\$ 71,301	\$ 3,612	\$ 71,301	\$ 3,612	\$ 71,301
Page, City of 3/ Network contract	12-DSR-12368	12/31/2022	kW \$	1.65	\$ 6,191	\$ 122,210	\$ 6,191	\$ 122,210	\$ 6,191	\$ 122,210
<b>Total Network Contracts</b>			kW \$		\$ 92,557	\$ 1,542,424	\$ 92,557	\$ 1,542,424	\$ 92,557	\$ 1,542,424
<b>TRANSFORMATION</b>										
Farmington, NM			kW Per Yr Charg		100,000	100,000	100,000	100,000	100,000	100,000
	3-07-40-P0715	6/30/2022		1.975	\$ 197,500	\$ 197,500	\$ 197,500	\$ 197,500	\$ 197,500	\$ 197,500
Navajo Tribal Utility Authority	14-06-400-4537	6/1/2023	kW \$		\$ 40,000	\$ -	\$ 40,000	\$ -	\$ 40,000	\$ -
<b>Total Transformation</b>			kW \$		\$ 140,000	\$ 197,500	\$ 140,000	\$ 197,500	\$ 140,000	\$ 197,500

**PROJECTED CRSP FIRM AND NON-FIRM WHEELING AND EXCHANGE REVENUE**

Table consistently reviewed and updated. Last review February 2020

Customer	Contract Number	Contract Expiration Date	Rate Unit	\$1.645					
					2021	2022	2023	2024	2025
<b>PASS THRU - NO REVENUE - NOT A LOAD</b>									
Holloman Air Force Base 2/	05-SLC-0578	9/30/2024	kW		2,000	2,000	2,000	2,000	2,000
\$2.42/kWh = \$2.31 + .07Ans. Svs + .04 Sch. 2 Chg.			\$	-	\$ -	\$ -	\$ -	\$ -	\$ -
<b>OFFSETTING REVENUES</b>									
<b>Palo Verde Nuclear Generating Station Shutdown Power &amp; Blackstart Services</b>									
	09-DSR-12008	12/31/2023	\$	\$	549,869	\$ 549,869	\$ 549,869	\$ 549,869	\$ 549,869
<b>Provo River Project (UAMPS, UMPA &amp; Heber)*</b>									
	94-SLC-0253 & 0254, 07-SLC-0601	9/30/2024	\$	\$	29,788	\$ 29,788	\$ 29,788	\$ 29,788	\$ 29,788
<b>Western Systems Coordination Council</b>									
*This is phase shifter revenue, 5 year average			\$	\$	1,092,386	\$ 1,092,386	\$ 1,092,386	\$ 1,092,386	\$ 1,092,386
<b>Total Offsetting Revenues</b>					\$	\$ 1,672,043	\$ 1,672,043	\$ 1,672,043	\$ 1,672,043
<b>Total Transmission System Load</b>			kW		4,338,043	4,086,043	4,086,043	4,086,043	4,086,043
<b>Total Transmission Revenue</b>			\$	\$	18,001,770	\$ 16,333,740	\$ 16,333,740	\$ 16,333,740	\$ 16,333,740
<b>Total for PRS</b>					\$	\$ 16,132,227	\$ 14,464,197	\$ 14,464,197	\$ 14,464,197

\*Revenue CRSP charges UAMPS and UMPA to wheel PRP power, which is marketed separately from Integrated Projects Power.

1/ Farmington, NM, PNM, and Williams Energy Services all use the Shiprock Transformer. These contracts are listed on the PO&M under Firm Transmission.

2/ This contract is a pass-through expense - through El Paso Electric

3/ Avg. 12-CP for the past 12mos.

4/ Because NTUA received additional CROD capacity in the Post-2004 allocation process and additional capacity from the native American Power Pool/Benefit Crediting, they have no need for transmission capacity under this contract for the time being. Per Brent 7/26/05

## Salt Lake City Area Integrated Projects

### Offsetting Revenues Projections Comparisons

Unit: \$1,000

Revenue	WAPA-169 3/		FY 2020 Preliminary	Difference
Firm Transmission	\$	16,400	\$ 14,650	\$ (1,750)
Non-firm Transmission	\$	3,240	\$ 3,689	\$ 449
Resale Energy 1/	\$	7,737	\$ 6,700	\$ (1,037)
Transaction fees 1/	\$	2,181	\$ 2,499	\$ 318
Other 2/	\$	5,118	\$ 4,610	\$ (508)
<b>Total</b>	<b>\$</b>	<b>34,676</b>	<b>\$ 32,148</b>	<b>\$ (2,528)</b>

1/ Merchant function.

2/ Includes revenues from ancillary services, auxiliary services, spinning reserves, admin charges for WRP and CDP transactions, facility use, energy imbalance, and other misc. revenues.

3/ From WAPA-169 Final FRN

## CRSP Offsetting Revenues

as of Jan 2020

Year	Transmission Revenues			Merchant Function Revenue			Other Revenues 5/	Total Offsetting Revenues
	Firm 1/	Non-firm 2/	Total	Resale 3/	Transaction Fee 4/	Total		
2016		2,174,708		6,660,983	2,471,152	9,132,135	5,144,015	
2017		3,372,533		6,211,333	2,542,326	8,753,659	5,295,216	
2018		4,649,751		6,039,477	2,388,705	8,428,182	4,423,058	
2019		4,812,204		7,605,011	2,543,395	10,148,406	3,682,030	
2020		3,434,691		6,980,790	2,550,087	9,530,877	4,504,271	
<b>5-yr AVG</b>	<b>14,649,534</b>	<b>3,688,777</b>	<b>18,338,311</b>	<b>6,699,519</b>	<b>2,499,133</b>	<b>9,198,652</b>	<b>4,609,718</b>	<b>32,146,681</b>
		6/				7/	8/	

1/ Based on average-firm transmission contracts in the PRS, from 2020 through the "pinchpoint"

2/ Non-firm transmission revenues are taken off of the PO&M 60's

3/ Resale revenue is the difference between monthly sales and purchases. Does not include WRP sales or purchases.

4/ Transaction fees reflect the cost of real time merchant services, management and energy accounting support, and information technology costs.

5/ Includes revenues from ancillary services, auxiliary services, spinning reserves, admin charges for WRP and CDP transactions, facility use, energy imbalance, and other misc. revenues.

6/ Entered as Non-Firm Transmission column (S) in PRS

7/ Entered in Merchant Function column (U) in PRS

8/ Entered in Other Revs column (V) in PRS

**CRSP STORAGE UNITS - HISTORIC AND PROJECT NET REVENUES FROM M&I WATER SALES - FY2015**  
**(After Paying OM&R Costs -- Units = \$1,000)**

Year	Blue Mesa Reservoir		Navajo Reservoir		Glen Canyon Reservoir		Flaming Gorge Reservoir		CRSP Total		Year	
	Acre-Feet	Revenue	Acre-Feet	Revenue	Acre-Feet	Revenue	Acre-Feet	Revenue	Acre-Feet	Revenue		
1974										291.0	1974	
1975										492.5	1975	
1976										560.6	1976	
1977										560.0	1977	
1978										838.8	1978	
1979										733.0	1979	
1980										721.9	1980	
1981										638.7	1981	
1982										903.2	1982	
1983										676.8	1983	
1984										808.9	1984	
1985										677.8	1985	
1986										1,110.1	1986	
1987										1,018.1	1987	
1988										1,168.8	1988	
1989										1,024.9	1989	
1990										1,004.7	1990	
1991										866.3	1991	
1992										1,183.9	1992	
1993										1,399.6	1993	
1994										458.0	1994	
1995										418.5	1995	
1996										423.2	1996	
1997										430.3	1997	
1998										311.8	1998	
1999										402.3	1999	
2000										348.4	2000	
2001										307.6	2001	
2002										382.1	2002	
2003										360.2	2003	
2004										313.7	2004	
2005										334.3	2005	
2006										279.2	2006	
2007										217.5	2007	
2008										216.6	2008	
2009										217.0	2009	
2010										379.1	2010	
2011										257.4	2011	
2012										245.9	2012	
2013										350.0	2013	
2014										2,549.0	2014	
2015										3,427.0	2015	
2016										3,888.1	2016	
2017										3,622.0	2017	
2018										3,347.0	2018	
2019										3,437.0	2019	
2020	1,049	60.2	50	0.9	4,390	256.0	100	4.3	5,589	321.5	2020	PR Entry 321,453
2021	1,091	64.0	50	0.9	4,390	258.7	100	4.4	5,631	328.0	2021	328,045
2022	1,109	67.1	50	0.9	4,390	261.5	100	4.5	5,649	334.0	2022	334,016
2023	1,161	71.9	50	0.9	4,390	264.3	100	4.6	5,701	341.7	2023	341,693
2024	1,221	77.3	50	0.9	4,390	291.9	100	4.7	5,761	374.9	2024	374,853
2025	1,226	79.2	50	1.0	3,190	183.1	100	4.8	4,566	268.0	2025	268,000
2026	1,196	79.2	50	1.0	3,190	184.1	100	4.9	4,536	269.2	2026	269,163
2027	1,196	80.8	50	1.0	3,190	185.1	100	5.0	4,536	271.9	2027	271,889
2028	1,196	82.4	0	0.0	3,190	186.2	100	5.1	4,486	273.7	2028	273,655
2029	1,196	84.1	0	0.0	3,190	216.9	100	5.2	4,486	306.2	2029	306,186
2030	1,098	82.2	0	0.0	3,390	234.5	100	5.3	4,588	322.0	2030	321,966
2031	1,098	83.8	0	0.0	3,390	236.2	100	5.4	4,588	325.4	2031	325,379
2032	1,098	85.5	0	0.0	3,390	237.9	100	5.5	4,588	328.9	2032	328,878
2033	1,095	87.1	0	0.0	3,390	239.7	100	5.6	4,585	332.3	2033	332,329
2034	1,095	88.8	0	0.0	3,390	277.1	100	5.7	4,585	371.6	2034	371,621
2035	1,095	90.6	0	0.0	3,490	288.8	100	5.8	4,685	385.2	2035	385,183
2036	1,095	92.4	0	0.0	3,490	291.0	100	5.9	4,685	389.3	2036	389,337
2037	1,095	94.2	0	0.0	3,490	293.3	100	6.1	4,685	393.6	2037	393,598
2038	1,095	96.1	0	0.0	3,490	295.7	100	6.2	4,685	398.0	2038	397,966
2039	1,095	98.0	0	0.0	3,490	340.8	100	6.3	4,685	445.2	2039	445,189
2040	1,095	100.0	0	0.0	3,490	343.4	100	6.4	4,685	449.8	2040	449,783
2041	1,095	102.0	0	0.0	3,590	357.3	100	6.6	4,785	465.9	2041	465,911
2042	1,095	104.0	0	0.0	3,590	360.4	100	6.7	4,785	471.1	2042	471,095
2043	1,072	104.4	0	0.0	3,590	363.5	100	6.8	4,762	474.6	2043	474,638
2044	1,047	104.4	0	0.0	3,590	418.0	100	7.0	4,737	529.3	2044	529,296
2045	439	47.6	0	0.0	3,590	421.3	100	7.1	4,129	476.0	2045	475,963
2046	300	35.4	0	0.0	3,690	438.0	100	7.2	4,090	480.6	2046	480,567
2047	300	36.1	0	0.0	3,690	441.9	100	7.4	4,090	485.3	2047	485,324
2048	290	35.7	0	0.0	3,690	445.9	100	7.5	4,080	489.1	2048	489,143
2049	290	36.4	0	0.0	3,690	511.6	100	7.7	4,080	555.7	2049	555,732
2050	246	32.1	0	0.0	3,690	515.9	100	7.8	4,036	555.8	2050	555,775
2051	238	31.7	0	0.0	3,690	520.3	100	8.0	4,028	560.0	2051	559,979
2052	211	28.7	0	0.0	2,740	369.4	100	8.2	3,051	406.3	2052	406,285
2053	68	9.1	0	0.0	2,740	369.4	100	8.3	2,908	386.8	2053	386,797
2054	63	8.5	0	0.0	2,740	443.3	100	8.5	2,903	460.3	2054	460,257
2055	63	8.7	0	0.0	2,740	443.3	100	8.6	2,903	460.6	2055	460,597
2056	63	8.9	0	0.0	2,740	443.3	100	8.8	2,903	460.9	2056	460,944
2057	63	9.0	0	0.0	2,740	443.3	100	9.0	2,903	461.3	2057	461,297
2058	63	9.2	0	0.0	2,740	443.3	100	9.2	2,903	461.7	2058	461,658
2059	63	9.4	0	0.0	2,740	531.9	100	9.4	2,903	550.7	2059	550,665
2060	63	9.6	0	0.0	2,740	531.9	100	9.5	2,903	551.0	2060	551,040

**2020 SLIP Preliminary PRS Sales Projections**  
**(Assuming Project Use Loads Variable thru 2029, Constant Beyond 2030)**

Year	Energy			Capacity			Rounded (MW)
	Proj Use-Energy /1	LT Firm Com (MWH) /2	Total (MWH)	Proj Use-Cap /3	LT Firm Com (MW) /4	Total (MW)	
<b>2020</b>	202,920	4,951,786	5,154,706	44,720	1,360,778	1,405,498	1,405,500
<b>2021</b>	204,920	4,951,786	5,156,706	45,510	1,360,780	1,406,290	1,406,300
<b>2022</b>	204,920	4,951,786	5,156,706	45,860	1,360,780	1,406,640	1,406,600
<b>2023</b>	210,220	4,951,786	5,162,006	51,110	1,360,780	1,411,890	1,411,900
<b>2024</b>	285,290	4,951,786	5,237,076	63,845	1,360,780	1,424,625	1,424,600
<b>2025</b>	297,490	4,951,786	5,249,276	69,120	1,360,780	1,429,900	1,429,900
<b>2026</b>	308,490	4,951,786	5,260,276	70,620	1,360,780	1,431,400	1,431,400
<b>2027</b>	308,490	4,951,786	5,260,276	70,620	1,360,780	1,431,400	1,431,400
<b>2028</b>	313,590	4,951,786	5,265,376	75,370	1,360,780	1,436,150	1,436,200
<b>2029</b>	315,480	4,951,786	5,267,266	76,040	1,360,780	1,436,820	1,436,800
<b>2030</b>	316,070	4,951,786	5,267,856	76,040	1,360,780	1,436,820	1,436,800
<b>2031</b>	316,070	4,951,786	5,267,856	76,540	1,360,780	1,437,320	1,437,300
<b>2032</b>	316,170	4,951,786	5,267,956	76,540	1,360,780	1,437,320	1,437,300
<b>2033</b>	316,170	4,951,786	5,267,956	76,540	1,360,780	1,437,320	1,437,300
<b>2034</b>	316,170	4,951,786	5,267,956	76,540	1,360,780	1,437,320	1,437,300
<b>Avg, 2019-2029 (Pinch Point)</b>	272,099	4,951,786	5,223,885	63,122	1,360,780	1,423,902	1,423,900

### FY 2020 Project Use Summary

Year	MW							GWH			
	<u>Summer</u>			<u>Winter</u>			Average Used	<u>Summer</u>	<u>Winter</u>	<u>Total</u>	Total Used
	Total	Unassigned	Used	Total	Unassigned	Used		Summer	Winter	Total	
2020	187	124.16	62.84	187	160.40	26.60	44,720	158.18	44.74	202.92	202,920
2021	187	122.58	64.42	187	160.40	26.60	45,510	159.38	45.54	204.92	204,920
2022	187	122.58	64.42	187	159.70	27.30	45,860	159.38	45.54	204.92	204,920
2023	187	117.33	69.67	187	154.45	32.55	51,110	162.18	48.04	210.22	210,220
2024	187	104.36	82.64	187	141.95	45.05	63,845	199.75	85.54	285.29	285,290
2025	187	98.81	88.19	187	136.95	50.05	69,120	206.55	90.94	297.49	297,490
2026	187	95.81	91.19	187	136.95	50.05	70,620	215.05	93.44	308.49	308,490
2027	187	95.81	91.19	187	136.95	50.05	70,620	215.05	93.44	308.49	308,490
2028	187	91.06	95.94	187	132.20	54.80	75,370	217.65	95.94	313.59	313,590
2029	187	90.10	96.90	187	131.82	55.18	76,040	219.64	95.84	315.48	315,480
2030	187	90.10	96.90	187	131.82	55.18	76,040	219.64	96.43	316.07	316,070
2031	187	90.10	96.90	187	130.82	56.18	76,540	219.64	96.43	316.07	316,070
2032	187	90.10	96.90	187	130.82	56.18	76,540	219.64	96.53	316.17	316,170
2033	187	90.10	96.90	187	130.82	56.18	76,540	219.64	96.53	316.17	316,170
2034	187	90.10	96.90	187	130.82	56.18	76,540	219.64	96.53	316.17	316,170

COLORADO RIVER STORAGE PROJECT  
Participating Projects  
Estimated Project Power Requirements (1)  
Table 1

Monthly Summer Peak Demands (MW), typically from April to September (but may vary from contract to contract)

Year	Silt	Navajo		NTUA	(4)			Dutch John	(2)		Unassigned Total (MW)	Total (MW)
		(NAPI/ NIIP)	Navajo/ Gallup		(Tyzak) Jensen	Bonneville	Dolores		Animas-LaPlata (Durango)			
2020	0.60	27	7	12	0.93	3.24	10	0.20	1.87	(2)	124.16	187
2021	0.60	28	7	12	0.93	3.24	10	0.20	2.45	(2)	122.58	187
2022	0.60	28	7	12	0.93	3.24	10	0.20	2.45	(2)	122.58	187
2023	0.60	28	7.5	12	0.93	7.99	10	0.20	2.45	(2)	117.33	187
2024	0.60	28	20	12	1.4	7.99	10	0.20	2.45	(2)	104.36	187
2025	0.60	28	25	12	1.4	7.99	10	0.20	3.00	(2)	98.81	187
2026	0.60	30	26	12	1.4	7.99	10	0.20	3.00	(2)	95.81	187
2027	0.60	30	26	12	1.4	7.99	10	0.20	3.00	(2)	95.81	187
2028	0.60	30	26	12	1.4	12.74	10	0.20	3.00	(2)	91.06	187
2029	0.60	30	26	12	1.86	12.74	10	0.20	3.50	(2)	90.10	187
2030	0.60	30	26	12	1.86	12.74	10	0.20	3.50	(2)	90.10	187
2031	0.60	30	26	12	1.86	12.74	10	0.20	3.50	(2)	90.10	187
2032	0.60	30	26	12	1.86	12.74	10	0.20	3.50	(2)	90.10	187
2033	0.60	30	26	12	1.86	12.74	10	0.20	3.50	(2)	90.10	187
2034	0.60	30	26	12	1.86	12.74	10	0.20	3.50	(2)	90.10	187

Summer Energy Use (GWH) - Total for Six Month Period

Year	Silt	Navajo		NTUA	(4)			Dutch John	(2)		Total (GWH)
		(NAPI/ NIIP)	Navajo/ Gallup		Jensen	Bonneville	Dolores		Animas-LaPlata (Durango)		
2020	0.20	56	24.5	42	1.88	13.6	15.9	0.1	4.00	(2)	158.18
2021	0.20	56	24.5	42	1.88	13.6	15.9	0.1	5.20	(2)	159.38
2022	0.20	56	24.5	42	1.88	13.6	15.9	0.1	5.20	(2)	159.38
2023	0.20	56	24.8	42	1.88	16.1	15.9	0.1	5.20	(2)	162.18
2024	0.20	56	62	42	2.25	16.1	15.9	0.1	5.20	(2)	199.75
2025	0.20	56	67.5	42	2.25	16.1	15.9	0.1	6.50	(2)	206.55
2026	0.20	62	70	42	2.25	16.1	15.9	0.1	6.50	(2)	215.05
2027	0.20	62	70	42	2.25	16.1	15.9	0.1	6.50	(2)	215.05
2028	0.20	62	70	42	2.25	18.7	15.9	0.1	6.50	(2)	217.65
2029	0.20	62	70	42	3.14	18.7	15.9	0.1	7.60	(2)	219.64
2030	0.20	62	70	42	3.14	18.7	15.9	0.1	7.60	(2)	219.64
2031	0.20	62	70	42	3.14	18.7	15.9	0.1	7.60	(2)	219.64
2032	0.20	62	70	42	3.14	18.7	15.9	0.1	7.60	(2)	219.64
2033	0.20	62	70	42	3.14	18.7	15.9	0.1	7.60	(2)	219.64
2034	0.20	62	70	42	3.14	18.7	15.9	0.1	7.60	(2)	219.64

(1) Estimates do not include losses.

(2) Power requirements will be updated as project proponents refine their water development. Current projections assume full non-Ute Indian development after 2030. Full project development (Indian + Non-Indian) would require a Summer Peak demand of 17.0 MW and a Summer use of 42.0 GWH. Summer season now at two months.

(3) The capacity for the Dolores Project includes 1.5 MW for the Ute Mt Utes. The normal Dolores summer demand is 8.6 mw and add the 1.5 mw for Mt Ute results in 10.1 mw forecasted above.

(4) The major projects for CUP's use of CRSP power are in the early planning stages. An additional 0.5MW is anticipated starting in the year 2025, to meet Mitigation and Conservation commitments associated with the Provo River Delta Restoration Project.

(5) energy for NTUA computed on bases of 8 months (March 1 to Oct 31) at 60% load factor.

COLORADO RIVER STORAGE PROJECT  
Participating Projects  
Estimated Project Power Requirements (1)  
Table 2

Monthly Winter Peak Demands (MW), typically from October to March (but may vary from contract to contract)

Year	Silt	CUP				(4) CUP			Dutch John	(2) Animas LaPlata (Durango)		Unassigned (MW)	Total (MW)
		Navajo (NAPI/ NIIP)	Navajo/ Gallup	NTUA	(Tyzak) Jensen	Bonneville	Dolores						
2020	0	10	7	0	0.09	5.71	3.4	0.20	0.20	(2)	160.40	187	
2021	0	10	7	0	0.09	5.71	3.4	0.20	0.20	(2)	160.40	187	
2022	0	10	7	0	0.09	5.71	3.4	0.20	0.90	(2)	159.70	187	
2023	0	10	7.5	0	0.09	10.46	3.4	0.20	0.90	(2)	154.45	187	
2024	0	10	20	0	0.09	10.46	3.4	0.20	0.90	(2)	141.95	187	
2025	0	10	25	0	0.09	10.46	3.4	0.20	0.90	(2)	136.95	187	
2026	0	10	25	0	0.09	10.46	3.4	0.20	0.90	(2)	136.95	187	
2027	0	10	25	0	0.09	10.46	3.4	0.20	0.90	(2)	136.95	187	
2028	0	10	25	0	0.09	15.21	3.4	0.20	0.90	(2)	132.20	187	
2029	0	10	25	0	0.47	15.21	3.4	0.20	0.90	(2)	131.82	187	
2030	0	10	25	0	0.47	15.21	3.4	0.20	0.90	(2)	131.82	187	
2031	0	10	26	0	0.47	15.21	3.4	0.20	0.90	(2)	130.82	187	
2032	0	10	26	0	0.47	15.21	3.4	0.20	0.90	(2)	130.82	187	
2033	0	10	26	0	0.47	15.21	3.4	0.20	0.90	(2)	130.82	187	
2034	0	10	26	0	0.47	15.21	3.4	0.20	0.90	(2)	130.82	187	

Winter Energy Use (GWH) - Total Six Month Period

Year	Silt	CUP				(4) CUP			Dutch John	(2) Animas LaPlata (Durango)		Total (GWH)
		Navajo (NAPI/ NIIP)	Navajo/ Gallup	NTUA	Jensen	Bonneville	Dolores					
2020	0	2.5	24.5	0.0	0.04	15.2	1.4	0.1	1.00	(2)	44.74	
2021	0	2.5	24.5	0.0	0.04	15.2	1.4	0.1	1.80	(2)	45.54	
2022	0	2.5	24.5	0.0	0.04	15.2	1.4	0.1	1.80	(2)	45.54	
2023	0	2.5	24.5	0.0	0.04	17.7	1.4	0.1	1.80	(2)	48.04	
2024	0	2.5	62.0	0.0	0.04	17.7	1.4	0.1	1.80	(2)	85.54	
2025	0	2.5	67.5	0.0	0.04	17.7	1.4	0.1	1.70	(2)	90.94	
2026	0	2.5	70.0	0.0	0.04	17.7	1.4	0.1	1.70	(2)	93.44	
2027	0	2.5	70.0	0.0	0.04	17.7	1.4	0.1	1.70	(2)	93.44	
2028	0	2.5	70.0	0.0	0.04	20.2	1.4	0.1	1.70	(2)	95.94	
2029	0	2.5	70.0	0.0	0.04	20.2	1.4	0.1	1.60	(2)	95.84	
2030	0	2.5	70.0	0.0	0.63	20.2	1.4	0.1	1.60	(2)	96.43	
2031	0	2.5	70.0	0.0	0.63	20.2	1.4	0.1	1.60	(2)	96.43	
2032	0	2.5	70.0	0.0	0.63	20.3	1.4	0.1	1.60	(2)	96.53	
2033	0	2.5	70.0	0.0	0.63	20.3	1.4	0.1	1.60	(2)	96.53	
2034	0	2.5	70.0	0.0	0.63	20.3	1.4	0.1	1.60	(2)	96.53	

(1) Estimates do not include losses.

(2) Power requirements will be updated as project proponents refine their water development. Current projections assume full non-Ute Indian development after 2030. Full project development (Indian + Non-Indian) will require a Winter Peak Demand of 10.0 MW and a Winter use of 17.0 GWH. Winter season now at 10 months.

(3) The capacity for the Dolores Project includes 1.5 MW for the Ute Mt Utes. The normal Dolores winter demand is 2.0 mw and add the 1.5 mw for the Ute Mt Utes results in 3.5 mw forecasted above.

(4) The major projects for CUP's use of CRSP power are in the early planning stages. An additional 0.5MW is anticipated starting in the year 2025, to meet Mitigation and Conservation commitments associated with the Provo River Delta Restoration Project.

(5) 12 MW transferred from NIIP to Western for NTUA under amendment 5 to 87-SLC-0013 is only from March 1 to October 31 (an 8 month period), therefore 0 demand and 0 energy is shown here for the winter season.



**Department of Energy**  
Western Area Power Administration  
299 South Main Street, Suite 200  
Salt Lake City, UT 84111

May 1, 2019

Sent via E-mail

Dear Salt Lake City Area Integrated Projects Customer:

Under your firm electric service contract, Western Area Power Administration (WAPA) assesses energy and demand charges as set forth in Rate Schedule SLIP-F10. Additionally, under this rate schedule, a Cost Recovery Charge (CRC) may also be assessed if WAPA determines it is necessary.

WAPA is required to notify its customers by May 1, 2019, if a CRC is needed in the next fiscal year. We have reviewed our financial situation compared to the anticipated hydropower generation levels and determined there will be no CRC for FY 2020. Because there is no CRC, there is no need for action on your part.

Had the CRC been necessary, each customer would have been provided with two sets of energy numbers for the next fiscal year. One set would have shown the full Sustainable Hydropower (SHP) energy allocation, and the other set would have shown a lower SHP allocation. Under this scenario, each customer would then decide whether to accept or decline the CRC. Customers accepting the CRC would receive the full SHP allocation and be charged the additional expense of the CRC. Those customers declining the CRC would avoid the charge, but receive less energy from WAPA in the next fiscal year.

Since a CRC is not necessary for FY 2020, WAPA will not be providing alternative energy and capacity allocations. WAPA will proceed as normal and provide your Winter Season attachment later this summer.

If there are any questions, please contact Tony Henriquez at (801) 524-6388 or [THenriquez@wapa.gov](mailto:THenriquez@wapa.gov).

Sincerely,

**TIMOTHY  
VIGIL**

Tim Vigil

Vice President of Power Marketing  
CRSP Management Center

Digitally signed by  
TIMOTHY VIGIL  
Date: 2019.05.01 16:30:01  
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Enclosure

## FY 2020 Cost Recovery Charge Calculation

In order to mitigate extraordinary financial conditions, the CRSP-MC has a cost recovery mechanism called the Cost Recovery Charge (CRC) that may be implemented to maintain a sufficient balance in the Basin Fund (BF). The need for a CRC is based on the BF Balance at the beginning of the fiscal year and the projected decrease in the Basin Fund balance throughout the FY. The table on page two shows the criteria used to set the BF floor.

WAPA monitors the Basin Fund throughout the FY and the factors (net revenues and Purchase Power expenses) that can trigger a CRC.

### April 2019 projections for triggering a CRC in FY2020:

#### STEP 1: Compute the maximum available decrease in the basin fund

The projected FY 2020 Basin Fund Beginning Balance (BFBB):	\$	113,453,890
*The FY 2020 Beginning Balance falls within tier iii in the CRC table, and the allowable Percent decrease is:	-40%	\$ (45,381,556)
<b>**The FY 2020 minimum value for the Basin Fund is:</b>	<b>\$</b>	<b>68,072,334</b>

#### STEP 2: Compute the projected increase (or decrease) in the basin fund

Basin Fund Beginning Balance:	\$	113,453,890
Projected FY 2020 projected increase (or decrease):		
Projected net revenue (projected FY revenues - projected FY expenses):	\$190,628,380 - \$189,962,730 =	\$ 665,650
<b>Projected FY 2020 end of year balance:</b>	<b>\$</b>	<b>114,119,540</b>

#### STEP 3: Compare max allowable decrease to projected increase (or decrease)

**\*\*\*Amount that we need to recover using the CRC: NONE**

This value is equal to \$0 because the projected end of year Basin Fund Balance is greater than the allowed minimum balance:

**If a CRC were to be implemented**, WAPA would also implement a Waiver Level that would reduce purchase power expense by delivering less energy than contractually required. Customers that choose to voluntarily schedule their reduced allocation would be exempt from the CRC. The Waiver Level will be set at the sum of the energy that can be provided through hydro generation and power purchased with monies in the Basin Fund. The Waiver Level will not be less than the forecasted Hydro Energy.

Waiver Level (GWh) equals the lesser of SHP allocation or Forecasted Energy:	5,340
Waiver Level Percent:	103.0%
CRC Energy (GWh):	0
CRC level percentage of full SHP:	0.0%
Cost Recovery Charge (mills/kWh):	0.00

\* See CRC tier criteria on Pg. 2: Under CRC Tier iii, the allowable decrease is -40%, where BFBB is less than \$120,000,000 but greater than \$90,000,000

\*\* Also known as the Basin Fund Target Balance (BFTB)

\*\*\* The CRC formulas are set up so that the maximum amount recovered is never greater than the purchase power expense.

## CRC Based on the Tiers Below

Tier	Criteria, if the BFBB is:	Review
i	Greater than \$150 million, with an expected decrease to below \$75 million	Annually
ii	Less than \$150 million but greater than \$120 million, with an expected 50-percent decrease in the next FY	
iii	Less than \$120 million but greater than \$90 million, with an expected 40-percent decrease in the next FY	
iv	Less than \$90 million but greater than \$60 million, with an expected 25-percent decrease in the next FY	(May / November)
v	Less than \$60 million but greater than \$40 million, with an expected decrease to below \$40 million in the next FY	Monthly

# FY 2020 CRC Calculation

Apr 2019

		FY 2020		
<b>Step 1</b>	<b>BFBB</b>	Basin Fund Beginning Balance (\$)	\$113,453,890	Projected beginning balance for FY per financial cash flow analysis (FY Beginning Bal * 1000)
	<b>BFTB</b>	Basin Fund Target Balance	\$68,072,334 *	Basin Fund Target Balance is Based on "tiered" criteria.
	<b>PAR</b>	Projected Annual Revenue (\$) w/o CRC	\$190,628,380	Per financial cash flow analysis, (=TOTAL REV *1000)
	<b>PAE</b>	Projected Annual Expense (\$) (Excludes WRP)	\$189,962,730	Per financial cash flow analysis, (=TOTAL EXP *1000)
	<b>NR</b>	Net Revenue (\$)	\$665,650	=PAR-PAE
	<b>NB</b>	Net Balance (\$)	\$114,119,540	=BFBB + NR
<b>Step 2</b>	<b>EA</b>	SHP Energy Allocation (GWh)	5,186.27	FY '16 SHP energy allocation excluding project use (=SHP DELIVERIES / 1MIL)
	<b>HE</b>	Forecasted Hydro Energy (GWh)	4,994.13	Projected generation from the most current 24-month study, does not include project use (=NET GEN / 1MIL)
	<b>FE</b>	Forecasted Energy Purchase (GWh)	346	Forecasted Energy Purchase (GWh) from the most current 24-month study (=FIRMING PURCHASES / 1MIL)
	<b>Price</b>	Average price per MWh for purchased power	\$31.65	Average price = 60% onpeak + 40% offpeak (=COMP PRICE)
	<b>FX</b>	Forecasted Energy Purchase Expense (\$)	\$10,960,393	Estimated purchased power costs based upon most current 24-month study (= PURCHASE COST)
<b>Step 3</b>	<b>FA1</b>	Basin Fund Balance Factor (\$)	\$10,960,393	If NB is greater than BFTB then use FA1=FX, if NB is less than BFTB then use FX-(BFTB-NB) Formula is: -IF(NB>BFTB,FX,FX-(BFTB-NB))
	<b>FA2</b>	Revenue Factor (\$)	\$10,960,393	If NR is greater than -(1 - tiered percent) of BFBB then FX, if NR is less than -(1 - tiered percent) of BFBB then, FX+(NR+(tiered percent *BFBB)). Formula is: =IF(NR>-(1 - tiered percent *BFBB),FX,FX+(NR+(1 - tiered percent *BFBB)))
	<b>FA</b>	Funds Available (\$) (Lesser of FA1 or FA2)	\$10,960,393	The lesser of FA1 or FA2 but not less than zero: if (min(FA1,FA2) >= 0, MIN(FA1,FA2),0)
	<b>FARR</b>	Additional Revenue to be Recovered (FX-FA)	\$0	=FX-FA
<b>Step 4</b>	<b>WL</b>	<b>Waiver Level (GWH)</b>	<b>5,340</b>	<b>Equals the lesser of SHP or HE + (FE * (FA / FX))</b>
	<b>WLP</b>	Waiver level percentage of full SHP	<b>103%</b>	Percent of waiver level to full SHP
	<b>CRCE</b>	CRC Energy GWh (EA-WL)	0	= EA-WL (Does not include losses projected at 7.81%)
	<b>CRCEP</b>	CRC level percentage of full SHP	0%	Percent of CRCE to full SHP or CRCE/EA
	<b>CRC</b>	<b>Cost Recovery Charge (mills/kWh)</b>	<b>-</b>	<b>=FARR / (EA * 1000)</b>

**Note:** Cash flow projections from the:  
Apr 2019, 24-month study  
\* BFTB based on CRC tier iii: 60% of BFBB (40% decrease), where BFBB is less than \$120,000,000 but greater than \$90,000,000

Updated: April 25, 2019



**Historic Interest Rates**  
Western Area Power Administration  
Updated October 7, 2019

The table below contains interest rates certified by the U.S. Department of the Treasury, under Table 9 - Power Marketing Administration - within the [www.treasurydirect.gov](http://www.treasurydirect.gov) site.

Interest rates are listed from the project's inception through the present, for all projects with repayment supervised by WAPA. The latest available interest rate is used for all future interest rate calculations.

FY	Coupon %	Yield %	FY	Coupon %	Yield %	FY	Coupon %	Yield %	Floor % <sup>1/</sup>
1940-1956	N.A.	3.000	1978	6.063	7.000	2000	8.542	5.750	
1957	2.875	3.000	1979	6.595	7.500	2001	8.469	6.250	
1958	2.625	3.000	1980	7.210	8.000	2002	8.315	5.625	
1959	3.250	3.000	1981	8.605	8.500	2003	8.270	5.500	
1960	4.125	3.000	1982	9.352	9.000	2004	8.209	4.875	
1961	2.632	3.000	1983	10.051	9.500	2005	8.077	5.125	
1962	2.742	3.000	1984	10.403	10.750	2006	7.892	4.625	
1963	2.936	3.000	1985	10.898	12.375	2007	7.652	4.875	
1964	3.046	3.000	1986	11.070	11.375	2008	7.457	4.875	
1965	3.137	3.000	1987	10.693	8.875	2009	7.095	4.500	
1966	3.222	3.000	1988	10.371	8.500	2010	6.568	4.000	
1967	3.225	3.000	1989	10.250	9.250	2011	6.081	4.125	
1968	3.253	3.000	1990	10.075	8.875	2012	5.769	4.000	
1969	3.256	3.000	1991	9.920	8.750	2013	5.357	2.750	3.000
1970	3.342	3.000	1992	9.737	8.500	2014	5.101	3.000	
1971	3.463	5.375	1993	9.503	7.875	2015	4.934	3.375	
1972	3.502	5.875	1994	9.319	7.125	2016	4.673	2.625	3.000
1973	3.649	5.500	1995	9.226	7.250	2017	4.429	2.375	3.000
1974	4.012	5.625	1996	9.134	7.625	2018	4.208	2.750	3.000
1975	4.371	6.125	1997	9.012	6.875	2019	4.090	2.875	3.000
1976	5.116	6.625	1998	8.874	6.875	2020	3.892	2.750	3.000
1977	5.683	7.000	1999	8.703	6.000	2021			

<sup>1/</sup> The minimum, or floor, rate is 3% for all WAPA & Bureau investments; therefore, when any year's interest rate falls below 3.0%, the floor rate will apply. The Corp of Engineers are not bound by the 3% cap so their investments can be calculated at a lower rate.

**Yield Rate** (Yield Rate Applies to all projects except CRSP, CRSP Participating Projects and Fry-Ark.)

The average daily 'Yield Rate' calculated by the U.S. Treasury, on an annual basis, for Treasury bonds having terms of fifteen years or more remaining to maturity. The calculated Yield Rate is rounded to the nearest one-eighth of one percent.

**Coupon Rate**

The "Coupon Rate" shall be determined by the Secretary of the Treasury, as of the beginning of the fiscal year in which construction is initiated, on the basis of the computed average interest rate payable by the Treasury upon its outstanding marketable public obligations, which are neither due nor callable for redemption for fifteen years from the date of issue.

Note: The Coupon Rate is assigned to the Colorado River Storage Project and its participating projects (Dolores, Seedskaadee and Olmsted) and to the Frypan-Arkansas Project per their legislation.

**The Department of Energy Order No. RA6120.2 paragraph 11 (b) reads as follows:**

"For purposes of this paragraph, the yield rate is the average yield during the preceding fiscal year on interest-bearing marketable securities of the United States which, at the time the computation is made, have terms of 15 years or more remaining to maturity. The average yield shall be computed as the average during the fiscal year of the daily bid prices. Where the average, so computed, is not a multiple of one-eighth of one percent, the yield rate shall be the multiple of one-eighth of one percent nearest to such average yield."

The interest rate determined for fiscal year 2020 in accordance with the above-quoted formula is **2.7201%** which adjusted to the nearest 1/8 of 1% is **2-3/4%**.

**Section 9 of Public Law 86-529 specifies that:**

The interest rate for the Colorado River Storage Project and its participating projects "shall be determined by the Secretary of the Treasury, as of the beginning of the fiscal year in which construction is initiated, on the basis of the computed average interest rate payable by the Treasury upon its outstanding marketable public obligations, which are neither due nor callable for redemption for fifteen years from the date of issue."

The interest rate determined in accordance with the above-quoted formula is **3.892%**.