



Q3 Quarterly Business Review Technical Workshop

August 18, 2020 9:00 am – 11:30 a.m. WebEx: Bridge: (415) 527-5035 Access Code: 199 591 1125



Agenda

Time	Min	Agenda Topic	Presenter
9:00	5	Introduction and safety moment	Nadine Coseo
9:05	10	Revisit Q2 COVID-19 "Bad Case" and Discuss Q3 COVID-19 Approach	Zach Mandell, Kevin Bernards, Daniela Schlough
9:15			Cheryl Hargin, Karlee Manary, Kyle Hardy, Jeff Cook, Nadine Coseo, Damen Bleiler, Zach Mandell
10:15	30	Net Secondary Revenue and Point-to-Point Revenue Update	Steve Gaube, Danny Chen
10:45	30	Grid Modernization Update	Allie Mace
11:15	15	Q & A Session	All

Revisit Q2 COVID-19 "Bad Case" and Discuss Q3 COVID-19 Approach

Zach Mandell, Kevin Bernards, Daniela Schlough

BPA's Current COVID-19 Posture

- After moving to a less restrictive response level of the pandemic plan in June, on August 12th BPA returned to a more restrictive posture, which focuses on remote work enablers such as telecommuting to reduce the concentration of employees in any one location and continue meeting business requirements.
- BPA is using the best available information from the public health sector and guidance from local, state and national authorities in its decision-making processes.
- BPA is deferring all maintenance and construction projects that are not directly tied to life safety or reliability.
- Crews will continue to respond to outages and other emergencies to continue delivering power to customers and operating the grid.
- There are no current operational impacts to BPA as a result of these actions.
 While some support activities may experience some dips in productivity due to workflow changes, BPA management is working to support seamless operations.

COVID-19 "Bad Case" Scenario:

In Q2, the base forecast did not assume any effects from COVID-19. Instead Staff developed a COVID-19 Bad Case Scenario to show alongside the base Q2 forecast.

The primary effects identified in the Bad Case Scenario were:

	Power	Transmission
Revenue	\$39 million decrease due to load loss.	\$4 million decrease due to load loss.
Expenses	 \$25 million decrease, primarily due to project delays at the Corps and Reclamation and Energy Efficiency. (Power Capital to Expense was not forecast in the scenario) 	 \$48 million increase, consisting of: \$15 million increase in direct labor costs, \$50 million in indirect labor costs shifting from capital to expense, \$18 million decrease in other expenses
Capital	Capital execution reduction of \$85 million.	Capital Execution reduction of \$109 million

For Q3, then-expected COVID-19 impacts were built in to the base forecast. This does not include the August 12th change in posture.

In general, the financial impacts were forecast to be much lower than the Bad Case Scenario. The state of BPAs revenues, expenses, and capital will be discussed further throughout the presentation.

Status of Accounting Review of FY20 Capital Costs

Transmission

- Initial stay at home orders due to COVID-19 resulted in delays in executing capital projects for Transmission and resulted in an under clearing of indirect costs through Q3.
- Recent projections had showed optimism around executing most of the start of year capital budgets. However, BPA's decision to return to a more restrictive posture will negatively impact these forecasts.
- It is too early to know the impacts, but this will increase the risk that BPA may need to write off a portion of the indirect costs to expense. BPA will continue to monitor these impacts.

Power

- Initial stay at home orders due to COVID-19 resulted in delays in executing capital projects at the Corps and Reclamation hydro-power dams but the impacts on current year forecasted execution have not been significant so far.
- Both agencies reported a modest shift from capital to expense with no significant impacts on expense.
- Both agencies also reported a very slight decrease in their overhead rates due to a reduction in travel and training costs.
- BPA staff will continue to communicate with Corps and Reclamation Staff to monitor the impacts from COVID-19.
- No write-off actions has been taken as of Q3.

Q3 Forecast Including Income Statement, Capital and Reserves

Cheryl Hargin, Karlee Manary, Kyle Hardy, Jeff Cook, Nadine Coseo, Damen Bleiler, Zach Mandell

Report ID: 0123FY20 Requesting BL: Trans Unit of Measure: \$ The	mission Business Unit	BR Forecast Analysis: Transmission Services Program Plan View Through the Month Ended June 30, 2020 Preliminary / Unaudited	R	Data un Date/Time: July 6 of Year Elapsed =		
			Α	В	С	
Unit of Measure: \$ Thousan	ds		FY	2020	FY 2020	
			Rate Case Current EOY Forecast		Current EOY Forecast - Rate Case	
Operating Reven	Jes					
Sales			\$ 919,467	\$ 925,803	\$ 6,33	
Other Revenue	es		43,031	45,275	2,24	
Inter-Business	Unit Revenues		123,755	114,368	(9,38	
Total Operating	Revenues		1,086,253	1,085,445	(80	
Operating Expension	ses Iram Review Programs					
Asset Manage	ment		262,974	262,040	(93	
Operations			71,098	66,420	(4,67	
Commercial A	ctivities		62.078	60,551	(1,52	
Enterprise Ser	vices G&A		92,528	103,397	10,86	
Undistributed F			02,020	-		
Sub-Total Int	egrated Program Review O	operating Expenses	488,678	492,408	3,73	
Operating Expension	ses					
	Program Review Programs	S				
Commercial A			128,005	121,262	(6,74	
	Expenses and Adjustments		-			
Depreciation 8	Amortization		342,088	339,550	(2,53	
Sub-Total No	n-Integrated Program Revi	ew Operating Expenses	470,093	460,812	(9,28	
Total Operating	Expenses		958,771	953,220	(5,55	
Net Operating Rev	venues (Expenses)		127,482	132,225	4,74	
Interest expense	and other income, net					
Interest Expen			183,458	156,490	(26,96	
AFUDC			(14,211)	(14,800)	(58	
Interest Incom	e		(5,078)	(2,225)	2,85	
Other income.			(0,070)	5.095	5.09	
Other Income,	het			5,095	5,05	
Total interest	expense and other incom	e, net	164,169	144,561	(19,60	
Total Expenses			1,122,940	1,097,781	(25,15	
	Expenses)		\$ (36,687)	\$ (12,336)	\$ 24,35	

<1 Although the forecasts in this report are presented as point estimates, BPA operates a hydro-based system that encounters much uncertainty regarding water supply and wholesale market prices. These uncertainties, among other factors, may result in large range swings +/- impacting the final results in revenues, expenses, and cash reserves.</p>

Transmission Services QBR Analysis: FY 20 Q3 End of Year Forecast (Note: Variance explanations are for +/-\$2M or greater)

Integrated Program Review Operating Expenses:

Row 6 - Transmission Operations: \$5 million below rate case due to Enterprise Services direct charges for Grid Mod forecasted in rate case shifted from this program into the allocated Enterprise Services expense.

Row 8 – Enterprise Services G&A: \$11 million higher due to a greater portion of the overall Enterprise Services support costs driven mainly by increased IT expense partially offset by a decrease in post retirement benefits.

Non-Integrated Program Review Operating Expenses:

Row 11 – Commercial Activities: \$7 million lower reimbursable work.

Row 13 – Depreciation and Amortization: \$2 million lower than rate case based on actual plant that has been placed into service as of the third quarter and the estimated capital expected to go into service over the remainder of FY20.

Row 21 – Net Interest Expense: \$20 million below rate case due to putting less lease financing in place and slightly less Federal borrowing coupled with lower interest rates than assumed in the rate case.

Report ID: 0121FY20 QBR Forecast Analysis: P	Report ID: 0121FY20 QBR Forecast Analysis: Power Services Data Source: PFMS					
Requesting BL: POWER BUSINESS UNIT Program Plan	Requesting BL: POWER BUSINESS UNIT Program Plan View Run Date/Time: July					
Unit of measure: \$ Thousands Through the Month Ended J		6 of Year Elapsed =	75%			
Preliminary / Unaud	ited					
	Α	В	С			
	FY	2020	FY 2020			
	Rate Case	Q3 Forecast	Q3 Forecast - Rate Case			
Operating Revenues						
1 Gross Sales (excluding bookout adjustment)	\$ 2,472,943	\$ 2,539,595	\$ 66,652			
2 Bookout Adjustment to Sales	-	(29,212)	(29,212)			
3 Other Revenues	28,016	33,520	5,504			
4 Inter-Business Unit	117,901	116,074	(1,827)			
5 U.S. Treasury Credits	90,850	104,376	13,526			
6 Total Operating Revenues	2,709,710	2,764,352	54,643			
Operating Expenses						
Integrated Program Review Programs						
7 Asset Management	961,496	949,909	(11,587)			
8 Operations	124,378	131,587	7,208			
9 Commercial Activities	106,852	95,866	(10,985)			
10 Enterprise Services G&A	77,436	80,991	3,555			
11 Sub-Total Integrated Program Review Operating Expenses	1,270,162	1,258,353	(11,809)			
On anothing Furnesson						
Operating Expenses						
Non-Integrated Program Review Programs			(5.6.4.)			
12 Asset Management	36,708	30,897	(5,811)			
13 Operations	351,361	336,805	(14,556)			
14 Commercial Activities	214,630	218,091	3,461			
 Other Income, Expenses & Adjustments Non-Federal Debt Service <note 2<="" li=""> </note>	-					
17 Depreciation, Amortization & Accretion	518,295	477,360	(40,935)			
18 Sub-Total Non-Integrated Program Review Operating Expense						
Sub-rotal Non-Integrated Program Review Operating Expense	1,120,993	1,063,153	(57,840)			
19 Total Operating Expenses	2,391,155	2,321,506	(69,649)			
20 Net Operating Revenues (Expenses)	318,555	442,846	124,292			
Interest expense and other income, net						
21 Interest Expense	305,707	305,044	(663)			
22 AFUDC	(15,904)	· · · ·	1,629			
23 Interest Income	(13,777)	(14,273) (9,918)	3,859			
24 Other income, net	(13,777) (5,052)		3,059			
25 Total interest expense and other income, net	270,974	275,799	4,825			
	210,514	215,199	4,025			
26 Total Expenses	2,662,129	2,597,305	(64,824)			
26 Net Revenues (Expenses)	\$ 47,580	\$ 167,047	\$ 119,467			

<1 Although the forecasts in this report are presented as point estimates, BPA operates a hydro-based system that encounters much uncertainty regarding water supply and wholesale market prices. These uncertainties, among other factors, may result in large range swings +/- impacting the final results in revenues, expenses, and cash reserves.</p>

<2 In FY20, balances will be reflected in interest expense and amortization line items of the income statement.</p>

Power Services QBR Analysis: FY 20 Q3 End of Year Forecast

(Note: Variance explanations are for +/-\$2M or greater)

Row 6 – Total Operating Revenues: Higher Gross Sales due to higher Demand Revenues, higher Secondary Sales, this is partially offset by a forecasted \$10M Slice True-up Credit. The higher Gross Sales also includes \$21M of Reserves Surchage which was not in the rate case forecast. There will be no more reserves surcharge collected for the remainder of the FY.

Integrated Program Review Operating Expenses:

Row 7 – Asset Management: \$10 million F&W contracting and observed delays in proceeding with seasonal project work.

Row 8 - Operations and Row 9 - Commercial Activities: When BP20 was created Program Plans did not exist therefore there has been a shift of costs between the Program Plans.

Power Services QBR Analysis: FY 20 Q3 End of Year Forecast (Note: Variance explanations are for +/-\$2M or greater)

Non-Integrated Program Review Operating Expenses:

Row 12 – Asset Management: \$6 million lower than Rate Case to reflect actual Colville Settlement.

Row 13 – Operations: \$15 million lower than Rate Case reflects lower loads and lower 3rd Party GTA wheeling.

Row 14 – Commercial Activities: \$3 million higher than Rate Case due to higher power purchase due to dry weather conditions experienced early in FY as well as seasonality of runoff in the late spring.

Row 17 – Depreciation, Amortization and Accretion: \$41 million lower than Rate Case is due to the implementation of new accounting treatment for Energy Northwest and other nonfederal assets as discussed at Q1. Rate Case levels were set prior to the new accounting treatment being finalized and as such a Rate Case to actuals difference was created for the BP-20 rate period.

Row 25 - Net interest Expense: \$5 million higher than Rate Case primarily due to federal interest income being lower because of lower interest rates than assumed in Rate Case.

Row 26 – Total Net Revenues: \$167 million, which is \$119 million greater than Rate Case.

Agency Capital Expenditures: FY 20 Performance

Re	port ID: 0027FY20 questing BL: Corporate Business Unit it of Measure: \$Thousands	g BL: Corporate Business Unit FYTD Through the Month Ended June 30, 2020		Data Source: PFM Run Date/Time: July 27,2020 / 03:13 % of Year Elapsed = 75%				
				Α		В		С
			F	Rate Case Current EOY Forecast			FY 2020 Current EOY Forecast - Rate Case	
	Transmission Business Unit							
-	MAIN GRID		\$	2,320	\$	1,430	\$	(890)
	AREA & CUSTOMER SERVICE			73,359		32,593		(40,766)
	SYSTEM REPLACEMENTS			316,710		222,736		(93,975)
	UPGRADES & ADDITIONS			58,319		61,812		3,494
	ENVIRONMENT CAPITAL			6,898		7,965		1,067
	PFIA			-		-		-
	MISC. PFIA PROJECTS			14,034		6,263		(7,771)
	GENERATOR INTERCONNECTIO	N		69,157		18,777		(50,380)
	SPECTRUM RELOCATION			1,522		224		(1,298)
	CORPORATE CAPITAL INDIRECTS,	undistributed		0		0		0
	TBL CAPITAL INDIRECTS, undistribut	ted		0		0		
_	LAPSE FACTOR			(13,125))	0		13,125
	TOTAL Transmission Business Unit			529,194		351,801		(177,394)
	Power Business Unit							
	BUREAU OF RECLAMATION <note< td=""><td>1</td><td></td><td>120,893</td><td></td><td>32,163</td><td></td><td>(88,730)</td></note<>	1		120,893		32,163		(88,730)
	CORPS OF ENGINEERS <note 1<="" td=""><td></td><td></td><td>133,011</td><td></td><td>163,538</td><td></td><td>30,526</td></note>			133,011		163,538		30,526
	POWER INFORMATION TECHNOLO	GY		3,900		757		(3,143)
_	FISH & WILDLIFE <note 2<="" td=""><td></td><td></td><td>47,266</td><td></td><td>42,000</td><td></td><td>(5,266)</td></note>			47,266		42,000		(5,266)
	TOTAL Power Business Unit			305,070		238,457		(66,613)
	Corporate Business Unit							
-	CORPORATE PROJECTS			13,200		22,972		9,772
	TOTAL Corporate Business Unit			13,200		22,972		9,772
	OTAL BPA Capital Expenditures		\$	847,465	\$	613,230	\$	(234,235)

< 1 Excludes projects funded by federal appropriations.

< 2 Amounts are reported as regulatory assets and not utility plant

Agency Capital Expenditures: FY20 Performance

(Note: Variance explanations are for +/-\$2M or greater)

Transmission Business Unit

Transmission is \$177 million below rate case due to a shift in Transmission's Sustain and Expand Program prioritizations in FY18 and project delays due to work stoppages on non-essential projects during the COVID-19 pandemic. Regarding the prioritization change, analysis revealed BPA's need to focus on the Sustain Program was required in order to maintain the reliability of the Grid. This resulted in a change to the mix and size of projects & their corresponding demand for resources. A Sustain-focused program requires a larger amount of resources. Due to staffing change limitations, Transmission reduced their Start of Year (SOY) Budget to what they believed to be an accurate reflection of what could be delivered. The Q3 forecasts do not reflect BPA's 8/12 decision to stop all non-essential construction and maintenance work as part of returning to a more restrictive posture.

Row 2 – Area and Customer Service: \$41 million below rate case due to a shift to more Sustain projects, including an \$11 million decrease due to work stoppage and project delays due to COVID-19.

Row 3 – System Replacements: \$94M less than rate case due to increase in smaller, complex projects with high resource demands.

Row 4 – Upgrades and additions: \$3.5 million above rate case due to higher loading costs* forecasted at the Start of Year (SOY) Budget than included in Rate Case.

Rows 6-8 – Projects Funded in Advance (PFIA): \$59.5 million less than rate case due to a change in strategy above. This was budgeted for a reduced amount at SOY and currently on track.

Power Business Unit

Row 13 – Bureau of Reclamation: \$89 million below rate case due to reprioritization in the capital program that has shifted more investment in FY20 to the Corps. Additional project delays further decreased FY20 expected spending by approximately \$14 million compared to the Q2 End of Year forecast.

Row 14 – Corps of Engineers: \$31 million above rate case due to Asset Investment Excellence initiative, projects were prioritized and pulled forward. Delays due to COVID-19 work stoppages have decreased FY20 expected spending by approximately \$8 million compared to Q2 End of Year forecast.

Row 15 – Power IT: \$3 million below rate case due to project prioritization resulting in EE tracking and reporting being the only Power specific IT project moving forward.

Row 16 - Fish and Wildlife: \$5 million below rate case due to expected delay of qualified land acquisitions.

Corporate Business Unit

Row 18 – Corporate IT projects: \$10 million above rate case due to project prioritization of new customer billing and enterprise business system disaster recovery project for DOE policy compliance, project components qualifying for capital when assumed to be expense, and updated project estimates.

Q3 Reserves for Risk* Forecast – FY20 EOY



* Reminder – Rate mechanics trigger off of ACNR, not RFR

Reserves Forecast – FY20 EOY

_		Α	В	С	D	E	
	(in \$ Thousands)	BP-20		FY 2020		Delta	
			Days				
	POWER	FY 2020	Cash	Q3	Cash	(C - A)	
1	PS RESERVES for RISK	320,594	65	308,869	65	(11,725)	
2	PS RESERVES not for RISK	121,509		95,709		(25,800)	
3	PS TOTAL RESERVES	442,103		404,578		(37,525)	
	TRANSMISSION						
4	TS RESERVES for RISK	147,750	88	256,835	151	109,085	
5	TS RESERVES not for RISK	114,538		65,691		(48,846)	
6	TS TOTAL RESERVES	262,288		322,527		60,238	
Ī	AGENCY						
7	RESERVES for RISK	468,344	70	565,705	87	97,360	
8	RESERVES not for RISK	236,046		161,400		(74,646)	
9	AGENCY TOTAL RESERVES	704,391		727,105		22,714	

Power Crosswalk – Key Drivers

PS FY20 EOY Reserves for Risk (RFR) is forecasted to be \$309m, which is ~\$12m less than the rate case forecast of \$321m. Key drivers:

- The BP-20 Rate Case assumed PS ended FY19 with RFR = \$288m, but PS ended FY19 with \$203m, resulting in \$85m less in RFR heading into FY20 than assumed in the rate case.
- FY20 Driver: The Q3 Net Revenue* forecast is \$119M higher than the rate case projection.
 - Higher Gross Sales due to higher demand, higher secondary sales and lower
 Depreciation/Amortization
 - Depreciation/Amortization is lower by \$41m, but is non-cash
 - Power has not seen a significant decrease due to Covid-19

(\$ in millions)	
Power Crosswalk	
Q3 FY20 EOY RFR Forecast	309
BP-20 RFR Forecast	321
Delta	(\$12)
=	
Explain the (\$12)m Delta	
FY20 SOY RFR Beg Bal Delta from RC	(85)
Plus: Increase in Net Revenues	119
Minus: Non-Cash Portion of Net Revenues	(41)
Plus: Cash and Booking Timing	6
Less: Customer Payment Extension to FY21	(7)
Less: Miscellaneous	(4)
-	(\$12)

* Forecast reflects reduced revenues due to FRP Surcharge suspension.

Transmission Crosswalk – Key Drivers

TS FY20 EOY Reserves for Risk (RFR) is forecasted to be \$257m, which is ~\$109m more than the rate case forecast of \$148m. Key drivers:

- The BP-20 Rate Case assumed TS ended FY19 with RFR = \$207m, but TS ended FY19 with \$281m, resulting in \$75m more in RFR heading into FY20 than assumed in the rate case.
- FY20 Drivers: The Q3 Net Revenue forecast and other cash receipts.
 - Q3 NR forecast is \$24m higher than rate case due primarily to a decrease in Interest Expense by \$21m and other, including Depreciation/ Amortization
 - \$10m cash receipt from a customer settlement not included in the rate case
 - \$5m non cash expense related to converting the POM line of credit to long-term bonds

(\$ in millions)	
Transmission Crosswalk	
Q3 FY20 EOY RFR Forecast	257
BP-20 RFR Forecast	148
Delta	\$109
-	
<u>Explain the \$104m Delta</u>	
FY20 SOY RFR Beg Bal Delta from RC	75
Plus: Increase in Net Revenues	24
Minus: Non-Cash Portion of Net Revenues	(3)
Plus: Non Cash POM Termination Fee	5
Plus: Cash and Booking Timing	10
Less: Miscellaneous	(3)
	\$109

Reserves Forecast Uncertainties

- As part of our continued focus on strengthening key processes, including our Reserve forecasting ability, there are two areas of uncertainty to highlight with the current forecast.
 - Forecast Model Differences:
 - To forecast the end of year (EOY) reserves, BPA uses an annual reserves model that starts with the current net revenue forecast and adjusts for non-cash revenues and expenses (aka the "annual model").
 - BPA also maintains a model that forecasts reserves 90 days out, known as the "short-term model".
 - At Q3, comparison of the EOY reserves forecasts produced by these two models revealed: Power only a \$2M difference; Transmission – a \$25M difference, with the short-term model coming in higher than the annual model.
 - True Up for Prior Year Financing Adjustments:
 - Most BPA construction projects are multi-year; prior to project close out the source of financing may change, e.g. from master lease (ML) to US Treasury (UST) financing, or vice versa. This change requires a "lookback" or true up process to ensure financing sources stay aligned.
 - From a Reserves perspective there should be no impact as the cash to fund the project is either from UST borrowings or from ML draws.
 - We are improving (systemizing and standardizing) this prior year lookback process. Analysis of prior year spending and the timing of cash draws will indicate the amount of the prior year adjustment, if any.
- These uncertainties have been incorporated into the Transmission risk distribution and risk mechanism probabilities (*discussed further Transmission Risk Distribution slide*).

Financial Reserves Update

Power Reserves Distribution

- 1% to 99% Range: \$288m to \$342m
- 25% to 75% Range: \$302m to \$314m

Power Risk Mechanisms

- Power FRP Surcharge is suspended for FY 2021
- 0% modeled probability of a Power CRAC or Power RDC



Financial Reserves Update



Transmission Reserves Distribution

- 1% to 99% Range:
 \$210m to \$320m
- 25% to 75% Range: \$247m to \$283m

Transmission Risk Mechanisms

- Transmission FRP Surcharge Suspended for FY 2021
- 0% modeled probability of a Transmission CRAC
- 15% modeled probability of a Transmission RDC with an Expected Value of \$2.8m

FY 2020 Risk Mechanisms and ACNR

The Power and Transmission Risk Mechanisms include the Cost Recovery Adjustment Clause (CRAC), the Reserves Distribution Clause (RDC), and the Financial Reserves Policy Surcharge (FRPS). The FRPS has been suspended for application in FY 2021.

The Risk Mechanisms trigger based on Accumulated Calibrated Net Revenue (ACNR). ACNR is a Net Revenue based metric, designed to track with Reserves for Risk (with certain exceptions). Calibrations are included in ACNR in order to maintain the relationship between ACNR and Reserves for Risk.

Calibration Events are defined as financial events not forecast in the BP-20 rate case that

- 1. Impact Net Revenue differently than they impact Reserves For Risk,
- 2. Result in a difference of at least \$5 million (positive or negative), and
- 3. Last more than 12 months (i.e. is not a difference of cash timing lag between one fiscal year and the next)

Q3 Reserves for Risk Forecast – FY20 EOY



Q3 Rate Triggers Forecast – FY20 EOY



*"ACNR" values shown are adjusted to be comparable with Reserves for Risk based thresholds

Risk Mechanisms Trigger based on ACNR. Power ACNR is \$29m lower than Power RFR due to cash timing shifts between FY 2020 and FY 2021. This difference is not calibrated for because the cash flow occurs within 12 months.

Power and Transmission Market Landcape Steve Gaube and Danny Chen

Henry Hub Prices



Mid-C Prices



Water Supply Forecast



Forward Prices



Net Secondary Revenue Uncertainty – or lack thereof

- Since the previous QBR, Net Secondary Revenue (NSR) has been affected by offsetting factors, water volume increase (positive for NSR) and price decrease (negative for NSR).
- BPA does not expect significant changes to its NSR forecast for the remainder of FY20.
- As the volatility of Mid-C prices and the water supply forecast has declined over the past several months, the NSR forecast volatility has reduced as well.
- Although there are still modest fluctuations expected in both Mid-C prices and water inventory, the inherent volatility is small and within reasonable bounds relative to earlier in the fiscal year.

Transmission Revenue Forecast

- Revenue forecast is \$1.085 million for FY 2020 Third Quarter.
- Third Quarter revenue forecast is \$1 million below rate case
 - Forecast has increased from second quarter update due June oversupply and wireless lease true-ups.
 - NT revenues are now projected to be close in line with rate case expectations. Upward potential could be driven by NT revenues from warmer than normal summer temperatures that are offsetting COVID impacts for the rest of the fiscal year.
 - Downward risks to revenues through end of year are projected to be minimal.
- FY 2020 Actuals to date (Oct to July)
 - Revenues are tracking against third quarter forecast, but reduction against Rate Case is primarily due to non-renewal of long term service.

Grid Modernization Update Allie Mace

ILLE WER Ν Е V A D MINISTRATION В 0 Ν Ρ 0

Ma Sy O **Grid Modernization Roadmap** FY20 Q4 As of 08/06/2020 – Subject to Change

FY 2018	FY 2019	FY 2020	FY 2021	FY 2022		FY 2023
Marketing & Settlements System (MSS) (C) 06/30/2018						
Outage Tracking System (OTS) (09/30/2018					
Coordinated Transmission Agree		019				
Energy Trading & Risk Managem	ent & MSS Expansion (C)	4/30/2020				
Mission Critical IT – Integration (C	;)		9/30/2020			
Mission Critical IT – Infrastructure	(C)				6/30/2022	
RAS Automatic Arming (P)			9/30/2021			
Outage Management System (P)				11/21/2021		
One BPA Outage (N)		02/28/2020				
Mission Critical IT – Service Mana	igement (C)	04/29/2020				
Real-time Operations Modernizat	on (P)					
Mission Critical IT – Architecture	C)	04/22/2020				
EIM Settleme	nts Scoping (E)	10/1/2019				
Reliability Co	ordinator Decision, Planning & Execution (C)	12/31/2020			
Power Servic	es Training Program (C)		12/31/2020			
Federal Data	& Generation Dispatch Modernization (C)					06/1/2023
Metering Rev	ew & Update (C)					9/27/2024 🖒
BPA Network	Model (P)					9/30/2022
AGC Modern	zation (C)					9/30/2023
Data	Analytics (P)			12/31/2021		
Cus	tomer Billing Center Replacement (P)			1/1/2022		
	Agency Enterprise Portal (P)			9/30/2021		
	Agency Metering System (AMS) Re	placement (P)		9/30/2021		
	Price & Dispatch Analysis	(PRADA) (C)				9/30/2023
	Sub-hourly Scheduling on		2/28/2021			
	Load & Renewable Forect					
	Short-Term Available Tran			10/1/2021		
		anning & Reliability Assessment (P)				12/31/2022
Legend E – EIM Project	Mission Crit	ical IT – Re-Platforming				→
C - Critical for EIM		EIM Settlements Implementation (E)		-	6/30/2022	
P - Partially Critical for EIM N - Not Critical for EIM		EIM Bid and Base Scheduling (E)		-	6/30/2022	
- Completed Projects		EIM Real Time Operations (E)			6/30/2022	
- Projects in "Deliver"	"	EIM Training Program (E)				
 Projects in "Identify, Define, Integrate Projects not started 		EIM Testing Program (E)				
POC: GRIDMOD@BPA.GOV						VSA/DTC Phase 2 (P) →



GM Mobilization Status

62%

AGC Modernization Agency Enterprise Portal



GM Progress Metric



- 89% of milestones for projects in deliver are on-track or completed.
- A milestone identifies the completion of significant events and/or key decisions associated with the grid modernization project. Examples include (but are not limited to) a formal project kickoff, RFO release dates, "go-live" dates for new software, targets for completing training for new processes, and project conclusion.
- Status: Green





- 52% of the FY 2020 IPR expense budget has been spent at the close of the third quarter for projects in deliver.
- This is the equivalent of \$4.7 million out of an expected \$9 million.
- Status: Green
GM FY 2020 Spending



- BPA had previously anticipated an overspend in FY 2020.
 - The official Q3 forecast reflects a total need of \$12.1 million.

EIM Timeline

	FY 2019	FY 2	2020		FY 2021			FY 2022					
EIM Decision Phases	Phase II: Implementation Agreement	Phase Policy Dec			Phase IV: Rate and Tariff Proceedi	ngs	Phase V: Close-Out*						
CAISO EIM Milestones	Implementation Agreement Effective Date	Detail Project Management Plan	System Implement	tation and	d Connectivity Testing	Marke	et Simulation	Parallel Operations	EIM Go-Live: March 1, 2022				
EIM Projects	Projects - Identify	Projects – Define/Integrate		Projects – Deliver					Post go-live evaluation				
									II not start until the rates and tarif oncludes and a letter is drafted.				

Phase V must also be complete before the start of parallel operations.

- Five EIM-specific grid modernization projects include:
 - EIM Bid & Base Scheduling
 - EIM Settlements Implementation
 - EIM Real-time Operations
 - EIM Training Project
 - EIM Testing Program

EIM Phase III Decision Document

- BPA issued the draft Phase III Decision Document for comment on Aug. 14.
- The document covers decisions on:
 - Sub-allocation of resource sufficiency requirements
 - Non-federal resource participation
 - Metering
 - EIM losses
- Questions on the draft can be addressed at the Aug. 25 TC-22/BP-22/EIM workshop.
- Comments will be due Sept. 18 with a final document issued in October.

EIM Implementation Q4 Milestones

- Finalize CAISO commitment to operations automation capability and timeline.
- EIM Bid and Base Scheduling
 - Begin software integration.
- EIM Settlements
 - Hire team and develop implementation plan.
- EIM Testing
 - Complete building project team and start building parallel environment.

More Information

On grid modernization: <u>www.bpa.gov/goto/gridmodernization</u>

On EIM: www.bpa.gov/goto/eim

Q & A Session





Appendix

Slice Reporting Composite Cost Pool Review Forecast of Annual Slice True-Up Adjustment

Q3 Forecast of FY 2020 Slice True-Up Adjustment

	FY 2020 Forecast \$ in thousands
February 11, 2020 First Quarter Technical Workshop	\$(4,524)*
May 18, 2020 Second Quarter Technical Workshop	\$(10,111)*
August 18, 2020 Third Quarter Technical Workshop	\$(9,868)*
November 2020 Fourth Quarter Technical Workshop	

*Negative = Credit; Positive = Charge

Summary of Differences From Q3 Forecast to FY 20 (BP-20)

#		A Composite Cost Pool True-Up Table Reference	QTR3 ^B Rate Case \$ in thousands
1	Total Expenses	Row 95	\$(80,305)
2	Total Revenue Credits	Rows 113 + 122	\$1,588
3	Minimum Required Net Revenue	Row 145	\$40,872
4	TOTAL Composite Cost Pool (1 - 2 + 3) \$(80,305) - \$1,588 + \$40,872 = (41,021)	Row 150	\$(41,021)
5	TOTAL in line 4 divided by <u>0.9451467</u> sum of TOCAs \$(41,021)/ <u>0.9451467</u> = \$(43,402)	Row 152	\$(43,402)
6	QTR Forecast of FY 20 True-up Adjustment 22.7358 percent of Total in line 5 0.227358 * \$(43,402) = \$(9,868)	Row 153	\$(9 <i>,</i> 868)

FY20 Impacts of Debt Management Actions

			А		В	С		D
FY20	Impacts of Acceleration of Debt							
<u>#</u>	Description	FY2	0 Q3 QBR	FY2	0 Rate Case	CCP	1	from the rate case
1	MRNR Section of Composite Cost Pool Table						\$	i.
2	Principal Payment of Federal Debt						\$.=
3	2020 Regional Cooperation Debt (RCD)	\$	18,803,026	\$	21,148,026		\$	2,345,000
4	2020 Debt Service Reassignment (DSR)	\$	1,506,974	\$	1,506,974		\$	-
5	Prepay	\$	-	\$			\$	-
6	Energy Northwest's Line Of Credit (LOC)	\$	-	\$			\$	-
7	Rate Case Scheduled Base Power Principal	\$	151,000,000	\$	151,000,000		\$	-
8	Total Principal Payment of Fed Debt	\$	171,310,000	\$	173,655,000	row 125	\$	2,345,000
							\$	-
9	Repayment of Non-Federal Obligations	\$	227,000,000	\$	227,000,000	row 126	\$	<u>-</u>
							\$	÷
10	Customer Proceeds	\$	-	\$	-	row 134	\$	
11	Non-Cash Expenses	\$		\$	a	row 133	\$	23
12	Nonfederal Bond Principal Payment	\$	43,340,000	\$	41,581,000	row 127	\$	(1,759,000

Composite Cost Pool Interest Credit

	Allocation of Interest Earned on the Bonneville Fund		
	(\$ in thousands)		
		<u>Q3 2020</u>	
1	Fiscal Year Reserves Balance	570,255	
2	Adjustments for pre-2002 Items	<u>16,341</u>	
3	Reserves for Composite Cost Pool		
3	(Line 1 + Line 2)	586,596	
4	Composite Interest Rate	0.28%	
5	Composite Interest Credit	(1,615)	
6	Prepay Offset Credit	0	
7	Total Interest Credit for Power Services	(1,100)	
8	Non-Slice Interest Credit (Line 7 – (Line 5 + Line 6))	515	

Net Interest Expense in Slice True-Up Forecast

		FY20 Rate Case	Q3 Forecast
		<u>(\$ in thousands)</u>	<u>(\$ in thousands)</u>
•	Federal Appropriation	44,686	45,891
•	Capitalization Adjustment	(45,937)	(45,937)
•	Borrowings from US Treasury	61,157	54,351
•	Prepay Interest Expense	9,826	9,826
•	Interest Expense	69,733	64,131
•	AFUDC	(15,904)	(14,275)
•	Interest Income (composite)	(13,777)	(1,615)
•	Prepay Offset Credit	(0)	(0)
•	Total Net Interest Expense	40,052	48,241

BONNEVILLE POWER ADMINISTRATION

<u>Proposed</u> Schedule for Slice True-Up Adjustment for Composite Cost Pool True-Up Table and Cost Verification Process

Dates	Agenda
February 11, 2020	First Quarter Technical Workshop
May 18, 2020	Second Quarter Technical Workshop
August 18, 2020	Third Quarter Technical Workshop
October 2020	BPA External CPA firm conducting audit for fiscal year end
Mid-October 2020	Recording the Fiscal Year End Slice True-Up Adjustment Accrual
End of October	Final audited actual financial data is expected to be available
November 13, 2020	Mail notification to Slice Customers of the Slice True-Up Adjustment for the Composite Cost Pool
November 17, 2020	BPA to post Composite Cost Pool True-Up Table containing actual values and the Slice True-Up Adjustment
November 2020	Fourth Quarter Business Review and Technical Workshop Meeting Provide Slice True-Up Adjustment for the Composite Cost Pool (this is the number posted in the financial system; the final actual number may be different)
December 10, 2020	Deadline for customers to submit questions about actual line items in the Composite Cost Pool True-Up Table with the Slice True-Up Adjustment for inclusion in the Agreed Upon Procedures (AUPs) Performed by BPA external CPA firm (customers have 15 business days following the BPA posting of Composite Cost Pool Table containing actual values and the Slice True-Up Adjustment)
December 24, 2020	BPA posts a response to customer questions (Attachment A does not specify an exact date)
January 11, 2021	Customer comments are due on the list of tasks (The deadline can not exceed 10 days from BPA posting)
February 2, 2021	BPA finalizes list of questions about actual lines items in the Composite Cost Pool True-Up Table for the AUPs

	COMPOSITE COST POOL TRU	LE-	OF TABL	-			
			Q3	6	Rate Case precast for FY 2020		- Rate Case ifference
			(\$000)		(\$000)		
1	Operating Expenses						
2	Power System Generation Resources						
3	Operating Generation	\$	205 000				0.405
4	COLUMBIA GENERATING STATION (WNP-2)	÷	265,836				3,425
5	BUREAU OF RECLAMATION	*	155,899		153,609		
6	CORPS OF ENGINEERS	1.5	11,929		a second s		(3,000
7	LONG-TERM CONTRACT GENERATING PROJECTS	\$					(780
8	Sub-Total		683,281	1	681,345	\$	1,935
9	Operating Generation Settlement Payment and Other Paymen				a 012/0301	-	200 C 200
10	COLVILLE GENERATION SETTLEMENT	\$	17,586		and the second sec		(5,41
11	SPOKANE LEGISLATION PAYMENT	\$	-			\$	
12	Sub-Total		17,586		22,997		(5,411
13	Non-Operating Generation						
14	TROJAN DECOMMISSIONING	\$	867	10.7			(333
15	WNP-183 DECOMMISSIONING	\$	1,144				71
16	Sub-Total	*	2,011	-	1,631		380
17	Gross Contracted Power Purchases						
18	PNCA HEADWATER BENEFITS	\$	2,909	\$	3,100	\$	(19
19	OTHER POWER PURCHASES (omit, except Designated Obligations or Purchase	\$	(19,560)			\$	(19,560
20	Sub-Total	+	(16,651)		3,100	*	(19,751
21	Bookout Adjustment to Power Purchases (omit)	1		1		1	
22	Augmentation Power Purchases (omit - calculated below)						
23	AUGMENTATION POWER PURCHASES	\$		\$	-	\$	
24	Sub-Total	*	-				1.0
25	Exchanges and Settlements				< and the second se		
26	RESIDENTIAL EXCHANGE PROGRAM (REP)	\$	249,767		249,767	*	- 1
27	OTHER SETTLEMENTS	\$				\$	
28	Sub-Total	\$	249,767	\$	249,767	\$	0
29	Renewable Generation			-		-	
30	RENEWABLES (excludes KIII)	\$	27,570		26,475	\$	1,095
31	Sub-Total		27,570		26,475		1,095
32	Generation Conservation			1			
33	CONSERVATION ACQUISITION	\$	71,190	\$	67,000	\$	4,190
34	CONSERVATION INFRASCTRUCTURE	\$	23,254		27,296	\$	(4,04
35	LOW INCOME WEATHERIZATION & TRIBAL	\$	5,746				
36	ENERGY EFFICIENCY DEVELOPMENT		7,674				1326
37	DR & SMART GRID	8	276			117	(57)
38	LEGACY	\$	724			1000	13
39	MARKET TRANSFORMATION	1	12.090				4
40	Sub-Total			1.7		1	(576
41	Power System Generation Sub-Total		1,084,517			-	(22,327
42	r weer opstelli Generation Sub-Total		1,907,911	-	1,100,040		tere and a

	COMPOSITE COST POOL TRU	JE-	UP TABL	E				
	Q3 (400			Rate Case forecast for FY 2020		Q3- Rate Case Difference		
		-	(+000)		(\$000)			
43	Power Non-Generation Operations	-						
44	Power Services System Operations	\$				\$		
45	EFFICIENCIES PROGRAM	3	88				10 000	
46	INFORMATION TECHNOLOGY	-	6,505	1.00	1777.000	\$	(6,626	
47	GENERATION PROJECT COORDINATION	1:	6,505		6,059	\$	445	
48	ASSET MGMT ENTERPRISE SVCS		423		555		923	
49	SLICE IMPLEMENTATION	5		1.0		233		
50	Sub-Total	٠	7,871		13,329	•	(5,457)	
51	Power Services Scheduling		0.404		0.000	-	220	
52	OPERATIONS SCHEDULING	8	9,184		8,806		378	
53	OPERATIONS PLANNING	1.0	7,613		5,643	2.	1,971	
54	Sub-Total	\$	16,797		14,449	\$	2,348	
55	Power Services Marketing and Business Support					1		
56	COMMERCIAL ENTERPRISE SVCS	\$	2,373		-	\$	2,373	
57	OPERATIONS ENTERPRISE SVCS	\$	5,023		1.1	\$	5,023	
58	POWER R&D	\$	2,133		2,662		(529	
59	SALES & SUPPORT	\$	11,847	100	23,191	P. 2	(11,344	
60	STRATEGY, FINANCE & RISK MGMT (REP support costs included here)	\$	19,100	4	16,905	100	2,195	
61	EXECUTIVE AND ADMINISTRATIVE SERVICES (REP support costs include		3,218		3,880		(662	
62	CONSERVATION SUPPORT	\$	7,982		8,399		(417	
63	Sub-Total	\$	51,677	-		+	(3,361)	
64	Power Non-Generation Operations Sub-Total	\$	76,346	+	82,815	*	(6,470)	
65	Power Services Transmission Acquisition and Ancillary Services		0.573	902	27596			
66	TRANSMISSION and ANCILLARY Services - System Obligations	\$	32,028	100	32,028	733		
67	3RD PARTY GTA WHEELING	\$	80,000		96,200	\$	(16,200	
68	POWER 3RD PARTY TRANS & ANCILLARY SVCS (Composite Cost)	\$	3,500	\$	2,338	\$	1,162	
69	TRANS ACQ GENERATION INTEGRATION	\$	13,577	\$	13,577	\$	-	
70	TELEMETERING/EQUIP REPLACEMT	\$	accesses.	1	-	\$		
71	Power Services Trans Acquisition and Ancillary Serv Sub-Tot		129,105	\$	144,143	\$	(15,038)	
72	Fish and Wildlife/USF&W/Planning Council/Environmental Reg							
73	Fish & Wildlife	\$	239,603		249,603	\$	(10,000)	
74	USF&W Lover Snake Hatcheries	\$	30,483		30,483	\$	-	
75	Planning Council	\$	11,522	\$	11,725	\$	(203	
76	Environmental Requirements	\$	-	\$	-	\$		
77	Fish and Wildlife/USF&W/Planning Council Sub-Total		281,608	\$	291,811		(10,203)	
78	BPA Internal Support	1						
79	Additional Post-Retirement Contribution	\$	17,289		19,577	\$	(2,287	
80	Agency Services G&A (excludes direct project support)	\$	63,701	1	57,859	\$	5,842	
81	BPA Internal Support Sub-Total	1	80,991	\$	77,436	\$	3,555	
82	Bad Debt Expense	\$	-	\$	-	\$		
83	Other Income, Expenses, Adjustments	\$	-		-	\$		
84	Depreciation	\$	140,480		138,968	\$	1,512	
85	Amortization	\$	303.760		345,589		(41.829	
86	Accretion (CGS)	\$	33.120		33,738		(41,02.3	
87	Total Operating Expenses	1	2,129,927		2,221,345		(91.418)	
	Contraction of the second se		and and a house a	-	any series to be a lot	-	A 10 14 1 100	

* The Residential Exchange Program Support costs have been moved from the Residential Exchange line into the respective Non-Gen Ops programs of Strategy, Finance & Risk Mgmt. and Executive and Administrative Services. This is a net zero impact but is different than what was shown in the final proposal rate case in Table F for these line items

99 Downstream Benefits and Pumping Power revenues \$ 20, 100 4(h)(10)(c) credit \$ 39, 101 Colville and Spokane Settlements \$ 4,4 102 Energy Efficiency Revenues \$ 7,1 103 PF Load Forecast Deviation Liquidated Damages \$ 10,1 104 Miscellaneous revenues \$ 11,1 105 Renew able Energy Certificates \$ 11,1 106 Net Revenues from other Designated BPA System Obligations (Upper Baket) \$ 2,2 107 RSS Revenues \$ 2,1 108 Firm Surplus and Secondary Adjustment (from Unused RHWM) \$ 68,8 109 Balancing Augmentation Adjustment \$ 1,1 100 Transmission Loss Adjustment \$ 30,1 111 Tite 2 Rate Adjustment \$ 30,1 118 Total Revenue Credits \$ 365,3 119 Ite 1 Augmentation Resources (includes Augmentation RSS and Augmentation R \$ 12,3 110 Total Augmentation Costs (not subject to True-Up). \$ 111	BLI	E			
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101 Colville and Spokane Settlements \$ 4,1 102 Energy Efficiency Revenues \$ 7,1 103 PF Load Forecast Deviation Liquidated Damages \$ 1,1 104 Miscellaneous revenues \$ 11,1 105 Renew able Energy Certificates \$ 11,0 106 Net Revenues from other Designated BPA System Obligations (Upper Baker) \$ 2,2 107 RSS Revenues \$ 2,2 108 Net Revenues \$ 2,2 109 Balancing Augmentation Adjustment (from Unused RHWM) \$ 68,8 109 Balancing Augmentation Adjustment \$ 1, 100 Transmission Loss Adjustment \$ 1, 110 Transmission Loss Adjustment \$ 30,1 111 Tite 2 Rate Adjustment \$ 3 112 NR Revenue Credits \$ 113 Total Revenue Credits \$ 385,3 114 12,3 115 Augmentation Resources (includes Augmentation RSS and Augmentation R \$ 12,3	799	\$	19,364	\$	1,435
02 Energy Efficiency Revenues \$ 7,1 03 PF Load Forecast Deviation Liquidated Damages \$ 1,0 04 Miscellaneous revenues \$ 11,0 05 Renew able Energy Certificates \$ 11,0 06 Net Revenues from other Designated BPA System Obligations (Upper Baker) \$ 0 07 RSS Revenues \$ 2,0 08 Firm Surplus and Secondary Adjustment (from Unused RHwM) \$ 68,0 09 Balancing Augmentation Adjustment \$ 10,1 10 Transmission Loss Adjustment \$ 30,1 110 Transmission Loss Adjustment \$ 30,1 111 Titel 2 Rate Adjustment \$ 30,1 112 NR Revenues \$ 365,3 113 Total Revenue Credits \$ 365,3 114 Heavenues \$ 12,3 115 Augmentation Resources (includes Augmentation RSS and Augmentation R \$ 12,3 116 Total Augmentation Costs \$ 12,3 117 Augmentation Costs \$ 4,0 121 Revenues 12 a/W @ IP rate \$ 4,0 122 DSI Revenues \$ 4,0 <td></td> <td></td> <td>86,250</td> <td></td> <td>13,526</td>			86,250		13,526
103 PF Load Forecast Deviation Liquidated Damages \$ 1.0 104 Miscellaneous revenues \$ 11, 105 Renewable Energy Certificates \$ 11, 106 Net Revenues from other Designated BPA System Obligations (Upper Baker) \$ 12, 107 RSS Revenues \$ 2, 108 Firm Surplus and Secondary Adjustment (from Unused RHWM) \$ 68, 109 Balancing Augmentation Adjustment \$ 1, 100 Transmission Loss Adjustment \$ 30, 110 Transmission Loss Adjustment \$ 30, 111 Tier 2 Rate Adjustment \$ 30, 112 NR Revenues \$ 365,3 113 Total Revenue Credits \$ 365,3 114 Iter 1 Augmentation Resources (includes Augmentation RSS and Augmentation R \$ 118 Total Augmentation Costs \$ 12,3 119 Iter Augmentation Costs \$ 12,3 119 Iter Augmentation Costs \$ 12,3 110 Transmission Loss 4,0 \$ 12,3 111 Tet al Augmentation Costs \$ 12,3 111 Tet al Augmentation Costs \$	500	\$	4,600	\$	0
04 Miscellaneous revenues \$ 11, 05 Renew able Energy Certificates \$ 06 Net Revenues from other Designated BPA System Obligations (Upper Baker) \$ 07 RSS Revenues \$ 08 Firm Surplus and Secondary Adjustment (from Unused RHwM) \$ 09 Balancing Augmentation Adjustment \$ 010 Transmission Loss Adjustment \$ 110 Transmission Loss Adjustment \$ 111 Tite 2 Rate Adjustment \$ 112 NR Revenues \$ 113 Total Revenue Credits \$ 114 Titer 1 Augmentation Resources (includes Augmentation RSS and Augmentation R\$ \$ 116 Augmentation Costs fnot subject to True-Up) \$ 117 Augmentation Costs fnot subject to True-Up) \$ 118 Augmentation Costs \$ 119 Total Augmentation Costs \$ 120 DSI Revenue Credit \$ 121 Revenues 12 a/W @ IP rate \$ 122 Total DSI revenues \$ 123 Principal Payment of Fed Debt for Power \$ 124 Revenues 12 a/W @ IP rate \$ 125 Prinoipal Payment of Fed Debt for Power \$	874	\$	8,000	\$	(326
05 Renew able Energy Certificates \$ 06 Net Revenues from other Designated BPA System Obligations (Upper Baker) \$ 07 RSS Revenues \$ 08 Firm Surplus and Secondary Adjustment (from Unused RHWM) \$ 09 Balancing Augmentation Adjustment \$ 010 Transmission Loss Adjustment \$ 110 Transmission Loss Adjustment \$ 111 Tier 2 Rate Adjustment \$ 112 NR Revenues \$ 113 Total Revenue Credits \$ 116 Augmentation Resources (includes Augmentation RSS and Augmentation R \$ 117 Augmentation Costs Inot subject to True-Upl \$ 118 Total Augmentation Costs \$ 119 Total Augmentation Costs \$ 110 Transmission Costs \$ 1117 Augmentation Costs \$ 118 Total Augmentation Costs \$ 119 Cost Revenue Credit \$ 110 Total DSI revenues \$ 111 Revenues 12 alfW @ P rate \$ 112 Revenues 12 alfW @ P rate \$ 113 Total DSI revenues \$ 114 S \$	493		9,499	\$	(8,006
06 Net Revenues from other Designated BPA System Obligations (Upper Baker) \$ 07 RSS Revenues \$ 08 Firm Surplus and Secondary Adjustment (from Unused RHVM) \$ 09 Balancing Augmentation Adjustment \$ 010 Transmission Loss Adjustment \$ 110 Transmission Loss Adjustment \$ 111 Tier 2 Rate Adjustment \$ 112 NR Revenues \$ 113 Total Revenue Credits \$ 114 Tier 1 Augmentation Resources (includes Augmentation RSS and Augmentation R \$ 116 Augmentation Costs fnot subject to True-Upl. \$ 117 Augmentation Costs fnot subject to True-Upl. \$ 118 Total Augmentation Costs \$ \$ 119 Total Augmentation Costs \$ \$ 110 Total Augmentation Costs \$ \$ 111 Total Augmentation Costs \$ \$ 117 Augmentation Puschases \$ \$ 118 Total Augmentation Costs \$ \$ 119 20 DSI Revenue Credit \$ 12 Revenues 12 alfW @ P rate \$ \$ 12 Total DSI revenues \$	180	\$	12,362	\$	(1,182
07 RSS Revenues \$ 2, 08 Firm Surplus and Secondary Adjustment (from Unused RHWM) \$ 68, 09 Balancing Augmentation Adjustment \$ 1, 10 Transmission Loss Adjustment \$ 30, 111 Tiet 2 Rate Adjustment \$ 30, 112 NR Revenues \$ 30, 113 Total Revenue Credits \$ 365,3 114 Fire 1 Augmentation Resources (includes Augmentation RSS and Augmentation R \$ 12,4 115 Augmentation Costs (not subject to True-Up). \$ 12,4 116 Augmentation Costs (not subject to True-Up). \$ 12,3 117 Augmentation Costs (not subject to True-Up). \$ 12,3 118 Total Augmentation Costs \$ 12,3 119 OSI Revenue Credit \$ \$ 120 DSI Revenue Credit \$ 4,0 121 Revenues 12 aMW @ P rate \$ 4,0 122 Minimum Required Net Revenue Calculation \$ 4,0 123 * * 4,0	-		-		
108 Firm Surplus and Secondary Adjustment (from Unused RHWM) \$ 68, 109 Balancing Augmentation Adjustment \$ 1, 110 Transmission Loss Adjustment \$ 30, 111 Tiet 2 Rate Adjustment \$ 30, 112 NR Revenues \$ 30, 113 Total Revenue Credits \$ 365,3 114 * * 365,3 115 Augmentation Costs (not subject to True=Up). * * 116 Tiet 1Augmentation Resources (includes Augmentation RSS and Augmentation R \$ 12,3 118 Total Augmentation Costs \$ 12,3 119 * * * 12,3 110 DSI Revenue Credit * * 4,0 121 Revenues 12 aMW @ P rate \$ 4,0 122 DSI Revenue Credit * 4,0 123 * * 4,0 124 Minimum Required Net Revenue Calculation * 4,0 125 Principal Payment of Fed Debt for Power \$ 171,1	449		353		96
09 Balancing Augmentation Adjustment \$ 1, 110 Transmission Loss Adjustment \$ 30,0 111 Tiet 2 Rate Adjustment \$ 30,0 112 NR Revenues \$ 10,0 113 Total Revenue Credits \$ 365,0 114 * * 115 Augmentation Costs (not subject to True=Up). * 116 Tiet 1 Augmentation Resources (includes Augmentation RSS and Augmentation R \$ 12,0 118 Total Augmentation Costs \$ 12,3 119 * * * 20 DSI Revenue Credit \$ 4,0 21 Revenues 12 aMW @ P rate \$ 4,0 22 Total DSI revenues \$ 4,0 23 * * 4,0 24 Minimum Required Net Revenue Calculation * 4,0 23 * * 4,0 24 Minimum Required Net Revenue Calculation * 4,0 25 Principal Payment of Fed Debt for Power \$ 171, * 26 Principal Payment of Non-Federal Obligations (EN Line of Credit) \$ 227,0	728	\$	2,728	\$	
110 Transmission Loss Adjustment \$ 30,1 111 Tiet 2 Rate Adjustment \$ 112 NR Revenues \$ 113 Total Revenue Credits \$ 365,3 114 * * 115 Augmentation Costs (not subject to True=Up). * 116 Ties 1 Augmentation Resources (includes Augmentation RSS and Augmentation R * 12,3 117 Augmentation Purchases \$ 118 Total Augmentation Costs \$ 12,3 119 * * 120 DSI Revenue Credit \$ 4,0 121 Revenues 12 aMW @ Prate \$ 4,0 122 Total DSI revenues \$ 4,0 123 * * 124 Minimum Required Net Revenue Calculation * 125 Principal Payment of Fed Debt for Power \$ 171,1 126 Repayment of Non-Federal Obligations (EN Line of Credit) \$ 227,1	746		68,746	\$	-
Tiet 2 Rate Adjustment \$ 111 Tiet 2 Rate Adjustment \$ 112 NR Revenues \$ 113 Total Revenue Credits \$ 114 * 365.3 115 Augmentation Costs (not subject to True-Up). * 116 Tiet 1 Augmentation Resources (includes Augmentation RSS and Augmentation R \$ 117 Augmentation Purchases \$ 118 Total Augmentation Costs \$ 12.3 119 * * 12.3 119 * * 4.0 110 * * 4.0 111 Revenues 12 aMW @ P rate \$ 4.0 112 Revenues 12 aMW @ P rate \$ 4.0 121 Revenues \$ 4.0 121 Revenues 12 aMW @ P rate \$ 4.0 121 Revenues 12 aMW @ P rate \$ 4.0 122 Total DSI revenues \$ 4.0 123 * * 4.0 124 Payment of Fed Debt for Power \$ 171,	213	\$	1,213	\$	-
NR Revenues \$ 113 Total Revenue Credits \$ 365.3 114 * 365.3 115 Augmentation Costs (not subject to True-Up). * 116 Tier 1 Augmentation Resources (includes Augmentation RSS and Augmentation R * 12.3 117 Augmentation Purchases * 118 Total Augmentation Costs \$ 12.3 119 * * 20 DSI Revenue Credit * 121 Revenues 12 afWW @ IP rate \$ 4,0 23 * * 24 Minimum Required Net Revenue Calculation * 25 Principal Payment of Fed Debt for Power \$ 171, 26 Repayment of Non-Federal Obligations (EN Line of Credit) \$ 227,	066		30,066		7
113 Total Revenue Credits \$ 365,3 114 Augmentation Costs (not subject to True-Up). 11 115 Augmentation Resources (includes Augmentation RSS and Augmentation R * 12,3 12,3 116 Total Augmentation Purchases \$ 12,3 117 Augmentation Costs \$ 12,3 118 Total Augmentation Costs \$ 12,3 119 5 \$ 12,3 110 5 \$ 12,3 111 Revenues Credit \$ 4,0 112 Revenues 12 aMW @ P rate \$ 4,0 121 Revenues \$ 4,0 122 Total DSI revenues \$ 4,0 123 13 14 124 Minimum Required Net Revenue Calculation 14 125 Principal Payment of Fed Debt for Power \$ 171,1 126 Repayment of Non-Federal Obligations (EN Line of Credit) \$ 227,1	510		510		
114 Augmentation Costs (not subject to True-Up). 115 Augmentation Resources (includes Augmentation RSS and Augmentation R \$ 12,3 116 Total Augmentation Purchases 117 Augmentation Purchases 118 Total Augmentation Costs 119 110 120 DSI Revenue Credit 121 Revenues 12 aMW @ P rate 122 Total DSI revenues 123 4,0 124 Minimum Required Net Revenue Calculation 125 Principal Payment of Fed Debt for Power 126 Repayment of Non-Federal Obligations (EN Line of Credit) 127 Repayment of Non-Federal Obligations (EN Line of Credit)	1	\$	1	\$	10
Augmentation Costs (not subject to True-Up). Image: State of the subject to True-Up). Tie 1 Augmentation Resources (includes Augmentation RSS and Augmentation R \$ 12,3 12,3 Total Augmentation Costs \$ 12,3 III Total Augmentation Costs \$ 12,3 III Total Augmentation Costs \$ 12,3 III Revenue Credit \$ 12,3 III Revenue Credit \$ 4,0 III Revenues 12 a/W @ P rate \$ 4,0 III Revenues \$ 4,0 III Revenues \$ 4,0 III Revenues 12 a/W @ P rate \$ 4,0 III Revenues 12 a/W @ P rate \$ 4,0 III Revenues 12 a/W @ P rate \$ 17,0 III Revenues 12 a/W @ P rate \$ 17,0 III Revenues 12 a/W @ P rate \$ 12,0 III Revenues 12 a/W @ P rate \$ 12,0 III Revenues 12 a/W @ P rate \$ 14,0 III Revenues 12 a/W @ P rate \$ 17,0 III Revenues 12 a/W @ P rate \$ 12,0 III Revenues 12 a/W @ P rate \$ 12,0 IIII R	310		363,507	\$	1,803
Tie 1 Augmentation Resources (includes Augmentation RSS and Augmentation R \$ 12,3 Augmentation Purchases Total Augmentation Costs 118 Total Augmentation Costs 119 20 DSI Revenue Credit 121 Revenues 12 aMW @ IP rate 122 Total DSI revenues 123 24 Minimum Required Net Revenue Calculation 25 26 27 28 29 29 20 21 Repayment of Fed Debt for Power 12 28 29 20 21 22 23 24 Minimum Required Net Revenue Calculation 25 26 27 28 29 29 20 21 22 23 24 25 26 27 <td></td> <td>_</td> <td></td> <td>_</td> <td></td>		_		_	
Influence Image: state s					
Total Augmentation Costs \$ 12,3 119 119 20 DSI Revenue Credit 121 Revenues 12 aMW @ IP rate 122 Total DSI revenues 123 119 24 Minimum Required Net Revenue Calculation 25 Principal Payment of Fed Debt for Power 26 171, 27 Repayment of Non-Federal Obligations (EN Line of Credit) 28 227,	367		12,367		
119 Image: State of the	-	\$	-	\$	
20 DSI Revenue Credit 121 Revenues 12 aMW @ IP rate \$ 4,0 122 Total DSI revenues \$ 4,0 123 Iminimum Required Net Revenue Calculation 171, 125 Principal Payment of Fed Debt for Power \$ 171, 126 Repayment of Non-Federal Obligations (EN Line of Credit) \$ 227,	67		12,367		
121 Revenues 12 aMW @ IP rate \$ 4,0 122 Total DSI revenues \$ 4,0 123 Image: state s					
122 Total DSI revenues \$ 4,0 123 124 Minimum Required Net Revenue Calculation 125 Principal Payment of Fed Debt for Power \$ 171, 126 Repayment of Non-Federal Obligations (EN Line of Credit) \$ 227,	-				10.00
123 Minimum Required Net Revenue Calculation 124 Minimum Required Net Revenue Calculation 125 Principal Payment of Fed Debt for Power \$ 171, 126 Repayment of Non-Federal Obligations (EN Line of Credit) \$ 227,	388		4,303		(215
24 Minimum Required Net Revenue Calculation 25 Principal Payment of Fed Debt for Power \$ 171, 26 Repayment of Non-Federal Obligations (EN Line of Credit) \$ 227,	88	*	4,303	*	(215
25 Principal Payment of Fed Debt for Power \$ 171, 26 Repayment of Non-Federal Obligations (EN Line of Credit) \$ 227,					
26 Repayment of Non-Federal Obligations (EN Line of Credit) \$ 227,	210		173.072		(1 700
		0.0	227.000		(1,762
				-	1 700
27 Repayment of Non-Federal Obligations (CGS, WNP1, WNP3, N. Wasco, Cowlitz Fa # 43,		*	41,581		1,759
Irigation assistance \$ 24. 29 Sub-Total \$ 465.7	079	and the second	24,331	_	(252

	COMPOSITE COST POOL TRU	JE-	UP TABLE	E			
			Q3		Rate Case forecast for FY 2020		Rate Case fference
			(\$000)		(\$000)		
130	Depreciation	\$	140,480		138,968		1,512
131	Amortization	\$	303,760		345,589	\$	(41,829
132	Accretion	\$	33,120	\$	33,738	\$	(618
133	Capitalization Adjustment	\$	(45,937)	\$	(45,937)	\$	-
134	Non-Cash Expenses	\$	-	\$	-	\$	-
135	Customer Proceeds	\$	7	\$		\$	
136	Cash freed up by DSR refinancing	\$	16,590		16,590	\$	
137	Prepay Revenue Credits	\$	(30,600)	\$	(30,600)	\$	
138	Bond Call Premium/Discount	\$	(192)	\$	-	\$	(192
139	Non-Federal Interest (Prepay)	\$	9,826	\$	9,826	\$	-
140	Contribution to decommissioning trust fund	\$	(4,100)		(4,100)	\$	
141	Gainsilosses on decommissioning trust fund	\$	(5,052)		(5,052)	\$	
142	Interest earned on decommissioning trust fund	\$	(8,818)	\$	(8,818)	\$	
143	Sub-Total	\$	409,078		450,204	\$	[41,127
144	Principal Payment of Fed Debt plus Irrigation assistance exceeds non cash expension	\$	56,651	8	15,780	\$	40,872
145	Minimum Required Net Revenues		56,651		15,780		40,872
146							
147	Annual Composite Cost Pool (Amounts for each FY)	\$	2,170,724		2,211,745	\$	(41,021
148	we was here was a particulation of the spectrum of the spectrum of						
149	SLICE TRUE-UP ADJUSTMENT CALCULATION FOR COMPOSITE COS	ST P	POOL				
150	TRUE-UP AMOUNT (Diff. between Rate Case and Forecast)		(41.021)				
151	Sum of TOCAs		0.9451467				
152	Adjustment of True-Up Amount when actual TOCAs < 100 percent		(43,402)				
153	TRUE-UP ADJUSTMENT CHARGE BILLED (22, 7358 percent)		(9.868)				

Financial Disclosures

This information has been made publicly available by BPA on August 14, 2020 and contains information not sourced directly from BPA financial statements.