

# FY 2018 CRC Calculation

Sep 2016

		FY 2018		
<b>Step 1</b>	<b>BFBB</b>	Basin Fund Beginning Balance (\$)	\$103,832,000	Projected beginning balance for FY per financial cash flow analysis (FY Beginning Bal * 1000)
	<b>BFTB</b>	Basin Fund Target Balance	\$62,299,200 *	Basin Fund Target Balance is Based on "tiered" criteria.
	<b>PAR</b>	Projected Annual Revenue (\$) w/o CRC	\$203,146,000	Per financial cash flow analysis, (=TOTAL REV *1000)
	<b>PAE</b>	Projected Annual Expense (\$) (Excludes WRP)	\$214,975,000	Per financial cash flow analysis, (=TOTAL EXP *1000)
	<b>NR</b>	Net Revenue (\$)	(\$11,829,000)	=PAR-PAE
	<b>NB</b>	Net Balance (\$)	\$92,003,000	=BFBB + NR
<b>Step 2</b>	<b>EA</b>	SHP Energy Allocation (GWh)	4,948.78	FY '16 SHP energy allocation excluding project use (=SHP DELIVERIES / 1MIL)
	<b>HE</b>	Forecasted Hydro Energy (GWh)	4,854.38	Projected generation from the most current 24-month study, does not include project use (=NET GEN / 1MIL)
	<b>FE</b>	Forecasted Energy Purchase (GWh)	503	Forecasted Energy Purchase (GWh) from the most current 24-month study (=FIRMING PURCHASES / 1MIL)
	<b>Price</b>	Average price per MWh for purchased power	\$28.29	Average price = 60% onpeak + 40% offpeak (=COMP PRICE)
	<b>FX</b>	Forecasted Energy Purchase Expense (\$)	\$14,230,927	Estimated purchased power costs based upon most current 24-month study (= PURCHASE COST)
	<b>Step 3</b>	<b>FA1</b>	Basin Fund Balance Factor (\$)	\$14,230,927
<b>FA2</b>		Revenue Factor (\$)	\$14,230,927	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)	\$14,230,927	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>5,357</b>
	<b>WLP</b>	Waiver level percentage of full SHP	<b>108%</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:  
 Sep 2016, 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

# FY 2018 CRC Calculation

Aug 2016

		FY 2018		
<b>Step 1</b>	<b>BFBB</b>	Basin Fund Beginning Balance (\$)	\$103,832,000	Projected beginning balance for FY per financial cash flow analysis (FY Beginning Bal * 1000)
	<b>BFTB</b>	Basin Fund Target Balance	\$62,299,200 *	Basin Fund Target Balance is Based on "tiered" criteria.
	<b>PAR</b>	Projected Annual Revenue (\$) w/o CRC	\$204,825,000	Per financial cash flow analysis, (=TOTAL REV *1000)
	<b>PAE</b>	Projected Annual Expense (\$) (Excludes WRP)	\$215,134,000	Per financial cash flow analysis, (=TOTAL EXP *1000)
	<b>NR</b>	Net Revenue (\$)	(\$10,309,000)	=PAR-PAE
	<b>NB</b>	Net Balance (\$)	\$93,523,000	=BFBB + NR
<b>Step 2</b>	<b>EA</b>	SHP Energy Allocation (GWh)	4,948.78	FY '16 SHP energy allocation excluding project use (=SHP DELIVERIES / 1MIL)
	<b>HE</b>	Forecasted Hydro Energy (GWh)	4,805.11	Projected generation from the most current 24-month study, does not include project use (=NET GEN / 1MIL)
	<b>FE</b>	Forecasted Energy Purchase (GWh)	491	Forecasted Energy Purchase (GWh) from the most current 24-month study (=FIRMING PURCHASES / 1MIL)
	<b>Price</b>	Average price per MWh for purchased power	\$28.77	Average price = 60% onpeak + 40% offpeak (=COMP PRICE)
	<b>FX</b>	Forecasted Energy Purchase Expense (\$)	\$14,117,908	Estimated purchased power costs based upon most current 24-month study (= PURCHASE COST)
	<b>Step 3</b>	<b>FA1</b>	Basin Fund Balance Factor (\$)	\$14,117,908
<b>FA2</b>		Revenue Factor (\$)	\$14,117,908	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)	\$14,117,908	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>5,296</b>
	<b>WLP</b>	Waiver level percentage of full SHP	<b>107%</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:  
 Aug 2016, 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

# FY 2018 CRC Calculation

Jul 2016

		FY 2018		
<b>Step 1</b>	<b>BFBB</b>	Basin Fund Beginning Balance (\$)	\$102,382,000	Projected beginning balance for FY per financial cash flow analysis (FY Beginning Bal * 1000)
	<b>BFTB</b>	Basin Fund Target Balance	\$61,429,200 *	Basin Fund Target Balance is Based on "tiered" criteria.
	<b>PAR</b>	Projected Annual Revenue (\$) w/o CRC	\$206,418,000	Per financial cash flow analysis, (=TOTAL REV *1000)
	<b>PAE</b>	Projected Annual Expense (\$) (Excludes WRP)	\$216,315,000	Per financial cash flow analysis, (=TOTAL EXP *1000)
	<b>NR</b>	Net Revenue (\$)	(\$9,897,000)	=PAR-PAE
	<b>NB</b>	Net Balance (\$)	\$92,485,000	=BFBB + NR
<b>Step 2</b>	<b>EA</b>	SHP Energy Allocation (GWh)	4,948.78	FY '16 SHP energy allocation excluding project use (=SHP DELIVERIES / 1MIL)
	<b>HE</b>	Forecasted Hydro Energy (GWh)	4,767.79	Projected generation from the most current 24-month study, does not include project use (=NET GEN / 1MIL)
	<b>FE</b>	Forecasted Energy Purchase (GWh)	459	Forecasted Energy Purchase (GWh) from the most current 24-month study (=FIRMING PURCHASES / 1MIL)
	<b>Price</b>	Average price per MWh for purchased power	\$30.98	Average price = 60% onpeak + 40% offpeak (=COMP PRICE)
	<b>FX</b>	Forecasted Energy Purchase Expense (\$)	\$14,228,378	Estimated purchased power costs based upon most current 24-month study (= PURCHASE COST)
	<b>Step 3</b>	<b>FA1</b>	Basin Fund Balance Factor (\$)	\$14,228,378
<b>FA2</b>		Revenue Factor (\$)	\$14,228,378	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)	\$14,228,378	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>5,227</b>
	<b>WLP</b>	Waiver level percentage of full SHP	<b>106%</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:  
Jul 2016, 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: August 15, 2016

# FY 2018 CRC Calculation

Jun 2016

		FY 2018		
<b>Step 1</b>	<b>BFBB</b>	Basin Fund Beginning Balance (\$)	\$96,451,000	Projected beginning balance for FY per financial cash flow analysis (FY Beginning Bal * 1000)
	<b>BFTB</b>	Basin Fund Target Balance	\$57,870,600 *	Basin Fund Target Balance is Based on "tiered" criteria.
	<b>PAR</b>	Projected Annual Revenue (\$) w/o CRC	\$208,609,000	Per financial cash flow analysis, (=TOTAL REV *1000)
	<b>PAE</b>	Projected Annual Expense (\$) (Excludes WRP)	\$219,005,000	Per financial cash flow analysis, (=TOTAL EXP *1000)
	<b>NR</b>	Net Revenue (\$)	(\$10,396,000)	=PAR-PAE
	<b>NB</b>	Net Balance (\$)	\$86,055,000	=BFBB + NR
<b>Step 2</b>	<b>EA</b>	SHP Energy Allocation (GWh)	4,948.78	FY '16 SHP energy allocation excluding project use (=SHP DELIVERIES / 1MIL)
	<b>HE</b>	Forecasted Hydro Energy (GWh)	4,918.32	Projected generation from the most current 24-month study, does not include project use (=NET GEN / 1MIL)
	<b>FE</b>	Forecasted Energy Purchase (GWh)	356	Forecasted Energy Purchase (GWh) from the most current 24-month study (=FIRMING PURCHASES / 1MIL)
	<b>Price</b>	Average price per MWh for purchased power	\$29.08	Average price = 60% onpeak + 40% offpeak (=COMP PRICE)
	<b>FX</b>	Forecasted Energy Purchase Expense (\$)	\$10,352,393	Estimated purchased power costs based upon most current 24-month study (= PURCHASE COST)
	<b>Step 3</b>	<b>FA1</b>	Basin Fund Balance Factor (\$)	\$10,352,393
<b>FA2</b>		Revenue Factor (\$)	\$10,352,393	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)	\$10,352,393	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>	Waiver Level (GWh)	5,274
	<b>WLP</b>	Waiver level percentage of full SHP	107%	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>	Cost Recovery Charge (mills/kWh)	-	=FARR / (EA * 1000)

**Note:** Cash flow projections from the:  
 Jun 2016, 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

# FY 2018 CRC Calculation

May 2016

		FY 2018		
<b>Step 1</b>	<b>BFBB</b>	Basin Fund Beginning Balance (\$)	\$105,835,000	Projected beginning balance for FY per financial cash flow analysis (FY Beginning Bal * 1000)
	<b>BFTB</b>	Basin Fund Target Balance	\$63,501,000 *	Basin Fund Target Balance is Based on "tiered" criteria.
	<b>PAR</b>	Projected Annual Revenue (\$) w/o CRC	\$221,408,000	Per financial cash flow analysis, (=TOTAL REV *1000)
	<b>PAE</b>	Projected Annual Expense (\$) (Excludes WRP)	\$229,188,000	Per financial cash flow analysis, (=TOTAL EXP *1000)
	<b>NR</b>	Net Revenue (\$)	(\$7,780,000)	=PAR-PAE
	<b>NB</b>	Net Balance (\$)	\$98,055,000	=BFBB + NR
<b>Step 2</b>	<b>EA</b>	SHP Energy Allocation (GWh)	4,948.78	FY '16 SHP energy allocation excluding project use (=SHP DELIVERIES / 1MIL)
	<b>HE</b>	Forecasted Hydro Energy (GWh)	4,835.01	Projected generation from the most current 24-month study, does not include project use (=NET GEN / 1MIL)
	<b>FE</b>	Forecasted Energy Purchase (GWh)	414	Forecasted Energy Purchase (GWh) from the most current 24-month study (=FIRMING PURCHASES / 1MIL)
	<b>Price</b>	Average price per MWh for purchased power	\$28.29	Average price = 60% onpeak + 40% offpeak (=COMP PRICE)
	<b>FX</b>	Forecasted Energy Purchase Expense (\$)	\$11,723,776	Estimated purchased power costs based upon most current 24-month study (= PURCHASE COST)
	<b>Step 3</b>	<b>FA1</b>	Basin Fund Balance Factor (\$)	\$11,723,776
<b>FA2</b>		Revenue Factor (\$)	\$11,723,776	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)	\$11,723,776	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>5,249</b>
	<b>WLP</b>	Waiver level percentage of full SHP	<b>106%</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:  
 May 2016, 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