

FORMULA RATE SUMMARY TABLE - 4th QUARTER 2015 FORMULA RATE CALCULATIONS

Fiscal Year	Quarter	Start of Quarter	End of Quarter	LT GSR (\$/kW/mo)	SHORT-TERM GSR			FPT Rate Factor	IR Base Rate (\$/kw/mo)
					Days 1 through 5 (\$/kW/day)	Day 6 and Beyond (\$/kW/day)	Hourly Firm and Non-Firm Service (mills/kilowatthour)		
2014	1	10/1/2013	12/31/2013	\$0.000	\$0.000	\$0.000	\$0.000	1.000	\$ 1.736
2014	2	1/1/2014	3/31/2014	\$0.000	\$0.000	\$0.000	\$0.000	1.000	\$ 1.736
2014	3	4/1/2014	6/30/2014	\$0.000	\$0.000	\$0.000	\$0.000	1.000	\$ 1.736
2014	4	7/1/2014	9/30/2014	\$0.000	\$0.000	\$0.000	\$0.000	1.000	\$ 1.736
2015	1	10/1/2014	12/31/2014	\$0.000	\$0.000	\$0.000	\$0.000	1.000	\$ 1.736
2015	2	1/1/2015	3/31/2015	\$0.000	\$0.000	\$0.000	\$0.000	1.000	\$ 1.736
2015	3	4/1/2015	6/30/2015	\$0.000	\$0.000	\$0.000	\$0.000	1.000	\$ 1.736
2015	4	7/1/2015	9/30/2015	\$0.000	\$0.000	\$0.000	\$0.000	1.000	\$ 1.736

4th QUARTER 2015: GENERATION SUPPLIED REACTIVE (GSR) FORMULA RATE CALCULATION: LONG-TERM SERVICE

Fiscal Year	Quarter	Start of Quarter	End of Quarter	bd (MW-mo/yr)	Nq (\$)	Uq-1 (\$)	Sq (MW-mo/qtr)	Zq-1 (\$)	LT GSR Rate (\$/kW/mo)
2014	1	10/1/2013	12/31/2013	470,532	\$ -	\$ -	0	\$ -	\$ -
2014	2	1/1/2014	3/31/2014	470,532	\$ -	\$ -	0	\$ -	\$ -
2014	3	4/1/2014	6/30/2014	470,532	\$ -	\$ -	0	\$ -	\$ -
2014	4	7/1/2014	9/30/2014	470,532	\$ -	\$ -	0	\$ -	\$ -
2015	1	10/1/2014	12/31/2014	470,532	\$ -	\$ -	0	\$ -	\$ -
2015	2	1/1/2015	3/31/2015	470,532	\$ -	\$ -	0	\$ -	\$ -
2015	3	4/1/2015	6/30/2015	470,532	\$ -	\$ -	0	\$ -	\$ -
2015	4	7/1/2015	9/30/2015	470,532	\$ -	\$ -	0	\$ -	\$ -

GSR RATE FORMULA FOR LONG-TERM FIRM PTP TRANSMISSION SERVICE AND NT SERVICE

$$\frac{4(Nq + Uq-1 + Zq-1)}{bd - 4Sq}$$

PARAMETERS AND DEFINITIONS

RATE PERIOD CONSTANTS			
Variable	Value	Unit	Parameter Definition
bd	470,532	MW-mo/yr	Average of forecasted FY 2014 and FY 2015 GSR Service billing determinants. Each annual billing determinant is the sum of 12 monthly billing determinants.
RATE PERIOD VARIABLES			
Variable	Value	Unit	Parameter Definition
Nq	See Detail	\$	Non-federal GSR costs to be paid by BPA-TBL under a FERC-approved rate during the relevant quarter, as anticipated prior to the quarter.
Uq-1	See Detail	\$	Payments of non-federal GSR costs made in preceding quarter(s) that were not included in the effective rate for the preceding quarter(s). Any refunds received by BPA-TBL would reduce this cost. Uq-1 is a true-up for any deviation of non-federal GSR costs from the amount used in a previous quarter's GSR rate calculation. For calculating the GSR rate effective October 1, 2009, Uq-1 is zero.
Sq	See Detail	MW-mo/qtr	Reduction in effective billing demand for approved self-supply of reactive during the relevant quarter, as anticipated prior to the quarter.
Zq-1	See Detail	\$	A dollar true-up for under- or overstatement of reactive self-supply in rate calculations for the preceding quarter(s). For calculating the GSR rate effective October 1, 2009, Zq-1 is zero. Zq-1 will be calculated by multiplying the under- or overstated megawatt amount of self-supply by the GSR rate that was effective during the quarter of self-supply deviation.

QUARTERLY PARAMETER DETAIL

Nq - (Non-Federal GSR Costs Payable based on FERC Approved GSR Rates (\$))													
Customer	FERC Docket No.	Effective Date	End Date	Annual Payment	FY 2014				FY 2015				Notes
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Sum				\$ -									

Uq-1 - (True-up for non-Federal GSR from preceding quarters (\$))															
Customer	FERC Docket No.	Effective Date	End Date	Annual Payment	(U)nderpaid or (O)verpaid? [Enter U or O]	FY 2013	FY 2014				FY 2015				Notes
						Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Sum						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	

Sq - (Reduction in billing demand for approved self-supply (MW-mo/qtr))														
Customer	Tx Contract No.	Start Date of Self-Supply	End Date of Self-Supply	Reserved Capacity (MW)	Contribution Factor	FY 2014				FY 2015				Notes
						Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Sum						0	0	0	0	0	0	0	0	

Zq-1 - (True-up for self-supply from previous quarters (\$))																		
Customer	Tx Contract No.	Start Date of Under/Over Recovery	End Date of Under/Over Recovery	MW Under/Over Recovered (Mw-mo/qtr)	Were MW (U)nder or (O)ver Stated? [Enter U or O]	Rate in Effect during Under/Over Recovery (\$/kW-mo)	Fiscal Year in which to Apply Adjustment	Quarter in which to Apply Adjustment	FY 2013	FY 2014				FY 2015				Notes
									Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Sum								\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		

4th QUARTER 2015
GENERATION SUPPLIED REACTIVE (GSR) FORMULA RATE CALCULATION:
SHORT-TERM FIRM AND NON-FIRM PTP TRANSMISSION SERVICE

SHORT-TERM GSR RATE					
Fiscal Year	Quarter	LT GSR Rate (\$/kW-mo)	Days 1 through 5 ¹ (\$/kW/day)	Day 6 and beyond ² (\$/kW/day)	Hourly Firm and Non-Firm Service ³ (mills/kilowatthour)
2014	1	\$ -	\$ -	\$ -	\$ -
2014	2	\$ -	\$ -	\$ -	\$ -
2014	3	\$ -	\$ -	\$ -	\$ -
2014	4	\$ -	\$ -	\$ -	\$ -
2015	1	\$ -	\$ -	\$ -	\$ -
2015	2	\$ -	\$ -	\$ -	\$ -
2015	3	\$ -	\$ -	\$ -	\$ -
2015	4	\$ -	\$ -	\$ -	\$ -

Notes:

¹ Formula for Days 1 through 5: **Long-Term Service Rate * (12 months/(52 weeks * 5 days))**

² Formula for Day 6 and beyond: **Long-Term Service Rate * (12 months/(52 weeks * 7 days))**

³ Formula Rate for Hourly Firm and Non-Firm Service: **Long-Term Service Rate * (12 months/(52 weeks * 5 days * 16 hours))**

4th QUARTER 2015
GENERATION SUPPLIED REACTIVE (GSR) FORMULA RATE CALCULATION:
FPT RATE FACTOR AND IR BASE RATE

Fiscal Year	Quarter	LT GSR Rate (\$/kW-mo)	FPT Rate Factor ¹	IR Base Rate ² (\$/kW-mo)
2014	1	\$ -	1.000	\$ 1.736
2014	2	\$ -	1.000	\$ 1.736
2014	3	\$ -	1.000	\$ 1.736
2014	4	\$ -	1.000	\$ 1.736
2015	1	\$ -	1.000	\$ 1.736
2015	2	\$ -	1.000	\$ 1.736
2015	3	\$ -	1.000	\$ 1.736
2015	4	\$ -	1.000	\$ 1.736

Notes

¹ Formula for FPT.1 Rate Factor: $(1 + ((\text{LT GSR Rate}/\text{kW}/\text{mo})/1.695/\text{kW}/\text{mo}))$

Formula for FPT.3 Rate Factor: $(1 + ((\text{LT GSR Rate}/\text{kW}/\text{mo})/1.666/\text{kW}/\text{mo}))$

² Formula for IR Base Rate: $\$1.736\text{kW}/\text{mo} + \text{LT GSR Rate}$