

**Ancillary Services, Schedule No. 2 -
REACTIVE SUPPLY AND VOLTAGE CONTROL FROM
GENERATION SOURCE SERVICES**

Line
No.

1 BHP Schedule 2 Tariff:

2 "Not later than September 30 of each year, Transmission Provider shall determine the next
3 calendar year's projected Summed Reactive billing Loads. Such projected load shall serve as
4 the rate divisor for purposes of deriving charges to be billed for Schedule 2 service provided
5 during that calendar year. Consistent with the requirements of Attachment H and as part of
6 the annual rate determination process governed by Attachment H, by October 30 of each year,
7 Transmission Provider will hold a meeting, to which its customers and representatives of SDPUC
8 and WPSC will be invited, to identify the applicable Aggregate Annual Reactive Revenue
9 Requirement and to explain the projected aggregate Reactive Billing Load, the resulting
10 \$/kW-month rate, and the resulting rates for weekly, daily, and hourly services."

11 2016 Schedule 2 Rates - OASIS

Service	Hourly (\$/kW Hour)		Daily (\$/kW Day)		Weekly (\$/kW Week)	Monthly (\$/kW Month)	Yearly (\$/kW Year)
	On-Peak	Off-Peak	On-Peak	Off-Peak			
BHP Charge	0.00034	0.00019	0.0054	0.0046	0.0326	0.1413	1.6957
Gillette Charge	0.00006	0.00003	0.0010	0.0008	0.0058	0.0252	0.3027
CLFP Charge	0.00012	0.00007	0.0020	0.0017	0.0118	0.0512	0.6140
BHW Charge	0.00005	0.00003	0.0009	0.0007	0.0051	0.0222	0.2660
Basin Charge	0.00021	0.00012	0.0034	0.0029	0.0203	0.0881	1.0569
WMPA Charge	0.00001	0.00001	0.0002	0.0002	0.0013	0.0057	0.0682
Total Charge	0.00079	0.00045	0.0129	0.0109	0.0769	0.3337	4.0035

21 2016 Projected Load: 979,000

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2	Gillette Revenue Requirement	\$296,353	Application accepted by FERC September 3, 2015
3	Cheyenne Light Revenue Requirement	\$601,062	CLFP FERC application dated May 22, 2009 (see Page 2)
4	Black Hills Wyoming Revenue Requirement	\$260,384	BHW FERC application dated August 25, 2009 (see Page 3)
5	Basin Revenue Requirement	\$1,034,689	Application accepted by FERC July 29, 2013
6	WMPA Revenue Requirement	\$66,747	Application accepted by FERC July 29, 2013
7	Total Revenue Requirement for Reactive Power	\$1,660,052	Black Hills Power
8	Common Use AC Facility Transmission Load (2016 Projected Load)	979,000	Common Use System AC Facilities Ln.17
9	Annual Reactive Power Charges	\$1.6957	\$ per kW - Year (Ln 7/ Ln 8)
10		\$0.1413	\$ per kW - Month (Ln 9 / 12)
11		\$0.0326	\$ per kW - Week (Ln 9 / 52)
12		\$0.0046	\$ per kW - day off peak (Ln 9 / 365) 365 days
13		\$0.0054	\$ per kW - day on peak (Ln 9 / 312) 6 days * 16 hours * 52 weeks
14		\$0.00019	\$ per kW - hour off peak (Ln 9 / 8760)
15		\$0.00034	\$ per kW - hour on peak (Ln 9 / 4992) 4992 hours

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7	Total Revenue Requirement for Reactive Power	\$296,353	Gillette
8	Common Use AC Facility Transmission Load (2016 Projected Load)	979,000	Common Use System AC Facilities Ln.17
9	Annual Reactive Power Charges	\$0.3027	\$ per kW - Year (Ln 7/ Ln 8)
10		\$0.0252	\$ per kW - Month (Ln 9 / 12)
11		\$0.0058	\$ per kW - Week (Ln 9 / 52)
12		\$0.0008	\$ per kW - day off peak (Ln 9 / 365) 365 days
13		\$0.0010	\$ per kW - day on peak (Ln 9 / 312) 6 days * 16 hours * 52 weeks
14		\$0.00003	\$ per kW - hour off peak (Ln 9 / 8760)
15		\$0.00006	\$ per kW - hour on peak (Ln 9 / 4992) 4992 hours

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7	<u>Total Revenue Requirement for Reactive Power</u>	<u>\$601,062</u>	Cheyenne Light
8	Common Use AC Facility Transmission Load (2016 Projected Load)	979,000	Common Use System AC Facilities Ln.17
9	Annual Reactive Power Charges	\$0.6140	\$ per kW - Year (Ln 7/ Ln 8)
10		\$0.0512	\$ per kW - Month (Ln 9 / 12)
11		\$0.0118	\$ per kW - Week (Ln 9 / 52)
12		\$0.0017	\$ per kW - day off peak (Ln 9 / 365) 365 days
13		\$0.0020	\$ per kW - day on peak (Ln 9 / 312) 6 days * 16 hours * 52 weeks
14		\$0.00007	\$ per kW - hour off peak (Ln 9 / 8760)
15		\$0.00012	\$ per kW - hour on peak (Ln 9 / 4992) 4992 hours

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6	WMPA Revenue Requirement	\$66,747	Application accepted by FERC July 29, 2013
7	Total Revenue Requirement for Reactive Power	\$260,384	Black Hills Wyoming
8	Common Use AC Facility Transmission Load (2016 Projected Load)	979,000	Common Use System AC Facilities Ln.17
9	Annual Reactive Power Charges	\$0.2660	\$ per kW - Year (Ln 7/ Ln 8)
10		\$0.0222	\$ per kW - Month (Ln 9 / 12)
11		\$0.0051	\$ per kW - Week (Ln 9 / 52)
12		\$0.0007	\$ per kW - day off peak (Ln 9 / 365) 365 days
13		\$0.0009	\$ per kW - day on peak (Ln 9 / 312) 6 days * 16 hours * 52 weeks
14		\$0.00003	\$ per kW - hour off peak (Ln 9 / 8760)
15		\$0.00005	\$ per kW - hour on peak (Ln 9 / 4992) 4992 hours

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7	Total Revenue Requirement for Reactive Power	\$1,034,689	Basin
8	Common Use AC Facility Transmission Load (2016 Projected Load)	979,000	Common Use System AC Facilities Ln.17
9	Annual Reactive Power Charges	\$1.0569	\$ per kW - Year (Ln 7/ Ln 8)
10		\$0.0881	\$ per kW - Month (Ln 9 / 12)
11		\$0.0203	\$ per kW - Week (Ln 9 / 52)
12		\$0.0029	\$ per kW - day off peak (Ln 9 / 365) 365 days
13		\$0.0034	\$ per kW - day on peak (Ln 9 / 312) 6 days * 16 hours * 52 weeks
14		\$0.00012	\$ per kW - hour off peak (Ln 9 / 8760)
15		\$0.00021	\$ per kW - hour on peak (Ln 9 / 4992) 4992 hours

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6	WMPA Revenue Requirement	\$66,747	Application accepted by FERC July 29, 2013	
7	Total Revenue Requirement for Reactive Power	\$66,747	WMPA	
8	Common Use AC Facility Transmission Load (2016 Projected Load)	979,000	Common Use System AC Facilities Ln.17	
9	Annual Reactive Power Charges	\$0.0682	\$ per kW - Year (Ln 7/ Ln 8)	
10		\$0.0057	\$ per kW - Month (Ln 9 / 12)	
11		\$0.0013	\$ per kW - Week (Ln 9 / 52)	
12		\$0.0002	\$ per kW - day off peak (Ln 9 / 365)	365 days
13		\$0.0002	\$ per kW - day on peak (Ln 9 / 312)	6 days * 16 hours * 52 weeks
14		\$0.00001	\$ per kW - hour off peak (Ln 9 / 8760)	
15		\$0.00001	\$ per kW - hour on peak (Ln 9 / 4992)	4992 hours

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6	WMPA Revenue Requirement	\$66,747	Application accepted by FERC July 29, 2013
7	Total Revenue Requirement for Reactive Power	\$3,919,287	Total
8	Common Use AC Facility Transmission Load (2016 Projected Load)	979,000	Common Use System AC Facilities Ln.17
9	Annual Reactive Power Charges	\$4.0034	\$ per kW - Year (Ln 7/ Ln 8)
10		\$0.3336	\$ per kW - Month (Ln 9 / 12)
11		\$0.0770	\$ per kW - Week (Ln 9 / 52)
12		\$0.0110	\$ per kW - day off peak (Ln 9 / 365) 365 days
13		\$0.0128	\$ per kW - day on peak (Ln 9 / 312) 6 days * 16 hours * 52 weeks
14		\$0.00046	\$ per kW - hour off peak (Ln 9 / 8760)
15		\$0.00080	\$ per kW - hour on peak (Ln 9 / 4992) 4992 hours

Common Use System AC Facilities

Joint Tariff Rates
Common Use AC Facilities

2016 Projected Load Data¹

Line
No.

		BHP TOTAL LOAD	BASIN TOTAL LOAD	SD WEST LOAD	CITY OF GILLETTE LOAD	FIRM POINT TO POINT LOAD	CHEYENNE LIGHT CUS LOAD	TOTAL COMMON USE AC LOAD
1								
2								
3								
4	January	313	383	2	62	130	80	970
5	February	300	374	2	56	130	80	942
6	March	291	374	2	46	130	80	923
7	April	242	345	3	43	130	80	843
8	May	265	304	3	48	130	80	830
9	June	276	294	3	59	260	80	972
10	July	333	310	4	67	260	80	1054
11	August	319	322	4	63	260	80	1048
12	September	317	316	4	68	260	80	1045
13	October	254	320	3	47	260	80	964
14	November	284	369	2	58	260	80	1053
15	December	318	380	2	68	260	80	1108
16								
17	ANNUAL AVERAGE MW	293	341	3	57	206	80	979

18
19 1 - Transmission projected load from Transmission Planning