

Rocky Mountain Power
Exhibit RMP___(RMM-9)
Docket No. 16-035-___
Witness: Robert M. Meredith

BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF UTAH

ROCKY MOUNTAIN POWER

Exhibit Accompanying Direct Testimony of Robert M. Meredith

Metering Cost Related to Utah Net Metering Program

November 2016

**Metering Cost Related to Utah Net Metering Program
 12 Months Ending December 31, 2015**

Description	FERC Account	Total Cost for Utah	Cost Related to Residential	Cost Related to Schedule 23	Cost Related to Schedule 6	Cost Related to Schedule 8	Cost Related to Schedule 10
Estimated Incremental Metering Capital Cost in 2002		\$162.23	\$162.23	\$0.00	\$0.00	\$0.00	\$0.00
Estimated Incremental Metering Capital Cost in 2003		\$652.46	\$652.46	\$0.00	\$0.00	\$0.00	\$0.00
Estimated Incremental Metering Capital Cost in 2004		\$843.19	\$489.35	\$353.84	\$0.00	\$0.00	\$0.00
Estimated Incremental Metering Capital Cost in 2005		\$8,595.33	\$7,500.77	\$683.41	\$0.00	\$0.00	\$411.15
Estimated Incremental Metering Capital Cost in 2006		\$2,144.01	\$2,144.01	\$0.00	\$0.00	\$0.00	\$0.00
Estimated Incremental Metering Capital Cost in 2007		\$11,669.27	\$10,574.71	\$683.41	\$411.15	\$0.00	\$0.00
Estimated Incremental Metering Capital Cost in 2008		\$42,508.55	\$34,649.28	\$7,859.27	\$0.00	\$0.00	\$0.00
Estimated Incremental Metering Capital Cost in 2009		\$26,641.55	\$21,090.87	\$3,417.07	\$1,644.58	\$489.03	\$0.00
Estimated Incremental Metering Capital Cost in 2010		\$46,181.00	\$37,285.64	\$4,783.90	\$4,111.46	\$0.00	\$0.00
Estimated Incremental Metering Capital Cost in 2011		\$67,407.66	\$51,597.30	\$9,123.00	\$6,687.36	\$0.00	\$0.00
Estimated Incremental Metering Capital Cost in 2012		\$88,058.59	\$74,006.35	\$7,298.40	\$5,433.48	\$902.40	\$417.96
Estimated Incremental Metering Capital Cost in 2013		\$134,527.61	\$114,304.97	\$13,502.04	\$6,269.40	\$451.20	\$0.00
Estimated Incremental Metering Capital Cost in 2014		\$264,768.07	\$231,999.55	\$18,975.84	\$11,702.88	\$0.00	\$2,089.80
Estimated Incremental Metering Capital Cost in 2015		\$603,547.78	\$557,589.82	\$23,354.88	\$13,792.68	\$451.20	\$8,359.20
Meters Gross Plant (13-month average)	370	\$995,933.41					
Accumulated Depreciation (13-month average)	108370	-\$74,167.82					
Accumulated Deferred Income Tax Balance (ADIT)							
Depreciation Expense	403	\$38,841.40					
Reprogramming Cost Expense in 2015	586	\$11,376.00	\$0.00	\$3,792.00	\$7,110.00	\$237.00	\$237.00

Notes

To measure the bi-directional flow of energy for a net metering customer, the meter for residential customers is replaced. Some of the meters installed for non-residential customers may be capable of measuring bi-directional flows of energy, but need to be reprogrammed to do so.

For non-residential customers, the meter is therefore either replaced or reprogrammed. The proportions that were reprogrammed versus replaced for each non-residential customer class are assumed to be the same as the proportions of meters currently in place that are capable of being reprogrammed or which would have to be replaced. To determine meter reprogramming expense for 2015, the number of interconnections during 2015 are multiplied by the estimated proportion of meters that need to be reprogrammed which are multiplied by the estimated cost of reprogramming.

To determine gross meter plant, the number of installed meters for each year are multiplied by the cost of a meter capable of measuring bi-directional energy flows for the year and summed across all years from 2002 through 2015. Data reflects a 13 month average, as is used in the results of operations reports.

To determine accumulated depreciation for meters, the capital for each year is depreciated by the currently effective depreciation rates for each year and summed across all years. Data reflects a 13 month average, as is used in the results of operations reports.

Depreciation expense is determined from the depreciation in 2015.

**Metering Depreciation Related to Utah Net Metering Program
 12 Months Ending December 31, 2015**

Depreciation Rates:	4/1/2000	3.79%
	4/1/2003	3.32%
	1/1/2008	3.25%
	1/1/2014	3.90%

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Total
Total Cost for Utah	\$162	\$5	\$11	\$22	\$28	\$36	\$379	\$433	\$866	\$866	\$866	\$866	\$1,039	\$1,039	\$74
Estimated Incremental Metering Capital Cost in 2002	\$652		\$22	\$22	\$22	\$22	\$21	\$21	\$21	\$21	\$21	\$21	\$25	\$25	\$276
Estimated Incremental Metering Capital Cost in 2003	\$843	\$11	\$14	\$28	\$28	\$28	\$27	\$27	\$27	\$27	\$27	\$27	\$33	\$33	\$328
Estimated Incremental Metering Capital Cost in 2004	\$8,595			\$143	\$285	\$285	\$279	\$279	\$279	\$279	\$279	\$279	\$335	\$335	\$3,060
Estimated Incremental Metering Capital Cost in 2005	\$2,144				\$71	\$194	\$70	\$70	\$70	\$70	\$70	\$70	\$84	\$84	\$692
Estimated Incremental Metering Capital Cost in 2006	\$11,669						\$379	\$379	\$379	\$379	\$379	\$379	\$455	\$455	\$3,379
Estimated Incremental Metering Capital Cost in 2007	\$42,509						\$691	\$433	\$866	\$1,382	\$1,382	\$1,382	\$1,658	\$1,658	\$10,914
Estimated Incremental Metering Capital Cost in 2008	\$26,642								\$750	\$1,501	\$1,501	\$1,501	\$1,801	\$1,801	\$8,855
Estimated Incremental Metering Capital Cost in 2009	\$46,181									\$1,095	\$2,191	\$2,191	\$2,629	\$2,629	\$10,735
Estimated Incremental Metering Capital Cost in 2010	\$67,408										\$1,431	\$2,862	\$3,434	\$3,434	\$11,161
Estimated Incremental Metering Capital Cost in 2011	\$88,059											\$2,186	\$5,247	\$5,247	\$12,679
Estimated Incremental Metering Capital Cost in 2012	\$134,528												\$5,163	\$5,163	\$15,489
Estimated Incremental Metering Capital Cost in 2013	\$264,768														
Estimated Incremental Metering Capital Cost in 2014	\$603,548	\$3	\$16	\$41	\$198	\$376	\$1,473	\$2,597	\$3,780	\$5,626	\$8,152	\$11,769	\$21,909	\$38,841	\$95,387
Estimated Incremental Metering Capital Cost in 2015															

Year End 13-month average
 \$1,297,707 \$ 995,933

Account 370 - Gross Plant
 -\$95,387 \$ (74,168)

Account 108370 - Accumulated Depreciation
 \$38,841

Account 403 - Depreciation Expense
 \$38,841

Tax Data:

Plant in Service	SCHMAT Book Depreciation	SCHMDT Tax Depreciation	41010 Def Inc Tax Exp	282 ADIT 13-month Average
1,658	64	39	(12)	(280)
22,408	874	1,001	50	(1,737)
115,332	4,498	2,832	(634)	(21,049)
289,995	11,310	7,211	(1,555)	(63,965)
868,316	22,095	322,648	114,064	(107,202)
1,297,709	38,841	333,731	111,913	(194,233)

2002 through 2004
 2005 through 2007
 2008 through 2010
 2011 through 2013
 2014 through 2015
 Totals