

Case No. PAC-E-21-07
Exhibit No. 55
Witness: Robert M. Meredith

BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION

ROCKY MOUNTAIN POWER

Exhibit Accompanying Direct Testimony of Robert M. Meredith

Street Light - Estimated Annual Energy Consumption

May 2021

Rocky Mountain Power
 State of Idaho
 Present and Proposed Lighting Revenue by Lamp Type
 Adjusted Historic Test Period 12 Months Ended December 2020

Ownership	Maintenance for Customer-Owned	Lamp Attributes			Annual Total	Present		Proposed		Revenue TAA	Revenue Base	Total	Schedule	Lamp Description	Price	Revenue				
		Units	Monthly per Unit	kWh		Base	Total													
Company	None	1,462	69	100,878	27.22	(80,004.5)	\$27.22	(80,004.5)	\$3,377	\$3,377	\$3,377	7	Level 1 (0.5-500 LED Equivalent Lumens)	\$8.00	\$1,696					
Company	None	183	145	26,535	48.54	(90,004.5)	\$48.54	(90,004.5)	\$8,773	\$8,773	\$8,773	7	20,000 Lumens, MV*	\$9.24	\$1,691					
Company	None	48	28	1,344	13.76	(90,004.5)	\$13.76	(90,004.5)	\$654	\$654	\$654	7	5,000 Lumens, HPSV, No Co-Owned Pole*	\$8.00	\$384					
Company	None	216	39	8,424	\$19.80	(90,004.5)	\$19.80	(90,004.5)	\$4,277	\$4,277	\$4,277	7	9,500 Lumens, HPSV, Co-Owned Pole*	\$8.00	\$1,728					
Company	None	336	59	11,326	\$16.26	(90,004.5)	\$16.26	(90,004.5)	\$5,422	\$5,422	\$5,422	7	16,000 Lumens, HPSV, Co-Owned Pole*	\$8.00	\$2,323					
Company	None	60	59	19,824	\$26.07	(90,004.5)	\$26.07	(90,004.5)	\$8,760	\$8,760	\$8,760	7	16,000 Lumens, HPSV, Co-Owned Pole*	\$9.24	\$3,105					
Company	None	9	864	7,632	\$27.51	(90,004.5)	\$27.51	(90,004.5)	\$249	\$249	\$249	7	27,500 Lumens, HPSV, Co-Owned Pole*	\$11.14	\$106					
Company	None	84	148	12,288	\$23.96	(90,004.5)	\$23.96	(90,004.5)	\$3,996	\$3,996	\$3,996	7	16,000 Lumens, HPSV, No Co-Owned Pole*	\$11.14	\$256					
Company	None	84	148	12,288	\$23.96	(90,004.5)	\$23.96	(90,004.5)	\$3,996	\$3,996	\$3,996	7	16,000 Lumens, HPSV, No Co-Owned Pole*	\$11.14	\$256					
Company	None	213	59	12,567	\$26.39	(90,004.5)	\$26.39	(90,004.5)	\$5,639	\$5,639	\$5,639	7	Level 2 (12,000 and Greater LED Equivalent Lumens)	\$11.14	\$368					
Company	None	108	59	6,372	\$23.21	(90,004.5)	\$23.21	(90,004.5)	\$2,481	\$2,481	\$2,481	7	Level 2 (12,000 and Greater LED Equivalent Lumens)	\$9.24	\$998					
Company	None	193	96	18,528	\$27.51	(90,004.5)	\$27.51	(90,004.5)	\$5,299	\$5,299	\$5,299	7	Level 3 (12,000 and Greater LED Equivalent Lumens)	\$11.14	\$2,150					
Company	None	48	96	4,608	\$33.96	(90,004.5)	\$33.96	(90,004.5)	\$1,611	\$1,611	\$1,611	7	Level 3 (12,000 and Greater LED Equivalent Lumens)	\$11.14	\$535					
Company	None	48	148	7,104	\$27.41	(90,004.5)	\$27.41	(90,004.5)	\$2,487	\$2,487	\$2,487	7	Level 3 (12,000 and Greater LED Equivalent Lumens)	\$11.14	\$535					
Company	None	96	148	14,208	\$27.41	(90,004.5)	\$27.41	(90,004.5)	\$4,974	\$4,974	\$4,974	7	Level 3 (12,000 and Greater LED Equivalent Lumens)	\$11.14	\$1,069					
Customer	None	252	39	9,828	\$15.13	(90,004.5)	\$15.13	(90,004.5)	\$3,725	\$3,725	\$3,725	12	16,000 Lumens, HPSV*	\$13.28	\$3,347					
Company	None	970	69	69,930	\$27.22	(90,004.5)	\$27.22	(90,004.5)	\$26,125	\$26,125	\$26,125	7A	Level 1 (0.5-500 LED Equivalent Lumens)	\$8.00	\$7,700					
Company	None	15	4	60	\$1.65	(90,004.5)	\$1.65	(90,004.5)	\$24	\$24	\$24	7A	Level 2 (12,000 and Greater LED Equivalent Lumens)	\$8.00	\$24					
Company	None	156	28	4,368	\$13.76	(90,004.5)	\$13.76	(90,004.5)	\$2,139	\$2,139	\$2,139	7A	Level 2 (12,000 and Greater LED Equivalent Lumens)	\$8.00	\$1,526					
Company	None	192	39	7,488	\$19.80	(90,004.5)	\$19.80	(90,004.5)	\$3,771	\$3,771	\$3,771	7A	Level 1 (0.5-500 LED Equivalent Lumens)	\$8.00	\$1,536					
Company	None	368	39	14,352	\$16.26	(90,004.5)	\$16.26	(90,004.5)	\$5,924	\$5,924	\$5,924	7A	Level 1 (0.5-500 LED Equivalent Lumens)	\$8.00	\$2,944					
Company	None	83	59	4,897	\$26.07	(90,004.5)	\$26.07	(90,004.5)	\$2,144	\$2,144	\$2,144	7A	Level 2 (12,000 and Greater LED Equivalent Lumens)	\$9.24	\$767					
Company	None	24	59	1,416	\$23.21	(90,004.5)	\$23.21	(90,004.5)	\$551	\$551	\$551	7A	Level 2 (12,000 and Greater LED Equivalent Lumens)	\$9.24	\$262					
Company	None	12	96	708	\$23.21	(90,004.5)	\$23.21	(90,004.5)	\$276	\$276	\$276	7A	Level 2 (12,000 and Greater LED Equivalent Lumens)	\$9.24	\$111					
Company	None	12	96	708	\$23.21	(90,004.5)	\$23.21	(90,004.5)	\$276	\$276	\$276	7A	Level 3 (12,000 and Greater LED Equivalent Lumens)	\$11.14	\$124					
Company	None	61	17	1,037	\$15.83	(90,004.5)	\$15.83	(90,004.5)	\$931	\$931	\$931	11	Level 2 (12,000 and Greater LED Equivalent Lumens)	\$9.92	\$605					
Company	None	25	25	625	\$16.83	(90,004.5)	\$16.83	(90,004.5)	\$419	\$419	\$419	11	Level 3 (12,000 and Greater LED Equivalent Lumens)	\$10.42	\$260					
Company	None	64	64	5,120	\$22.81	(90,004.5)	\$22.81	(90,004.5)	\$1,456	\$1,456	\$1,456	11	Level 3 (12,000 and Greater LED Equivalent Lumens)	\$11.69	\$748					
Company	None	84	28	2,352	\$15.13	(90,004.5)	\$15.13	(90,004.5)	\$1,260	\$1,260	\$1,260	11	Level 3 (12,000 and Greater LED Equivalent Lumens)	\$9.92	\$825					
Company	None	2,981	59	116,259	\$19.15	(90,004.5)	\$19.15	(90,004.5)	\$57,086	\$57,086	\$57,086	11	Level 3 (12,000 and Greater LED Equivalent Lumens)	\$9.92	\$29,572					
Company	None	134	59	7,906	\$26.10	(90,004.5)	\$26.10	(90,004.5)	\$3,459	\$3,459	\$3,459	11	Level 3 (12,000 and Greater LED Equivalent Lumens)	\$10.42	\$1,396					
Company	None	172	96	16,512	\$16.44	(90,004.5)	\$16.44	(90,004.5)	\$2,818	\$2,818	\$2,818	11	Level 3 (12,000 and Greater LED Equivalent Lumens)	\$11.69	\$2,011					
Company	None	60	148	8,880	\$33.49	(90,004.5)	\$33.49	(90,004.5)	\$2,099	\$2,099	\$2,099	11	Level 6 (15,500 and Greater LED Equivalent Lumens)	\$13.79	\$827					
Company	None	39	39	3,060	\$31.68	(90,004.5)	\$31.68	(90,004.5)	\$1,236	\$1,236	\$1,236	11	Closed							
Company	None	59	59	4,662	\$26.07	(90,004.5)	\$26.07	(90,004.5)	\$1,536	\$1,536	\$1,536	11	Closed							
Company	None	59	59	4,662	\$26.07	(90,004.5)	\$26.07	(90,004.5)	\$1,536	\$1,536	\$1,536	11	Closed							
Customer	None	132	28	3,696	\$23.90	(90,004.5)	\$23.90	(90,004.5)	\$315	\$315	\$315	12	5,800 Lumens, HPSV	\$1.57	\$207					
Customer	None	1,151	59	67,909	\$4.06	(90,004.5)	\$4.06	(90,004.5)	\$47,119	\$47,119	\$47,119	12	16,000 Lumens, HPSV	\$2.21	\$3,259					
Customer	None	299	96	28,704	\$10.32	(90,004.5)	\$10.32	(90,004.5)	\$3,031	\$3,031	\$3,031	12	27,500 Lumens, HPSV	\$5.76	\$3,722					
Customer	None	1,020	148	150,960	\$15.85	(90,004.5)	\$15.85	(90,004.5)	\$16,167	\$16,167	\$16,167	12	50,000 Lumens, HPSV	\$8.82	\$8,996					
Customer	None	39	69	2,676	\$4.10	(90,004.5)	\$4.10	(90,004.5)	\$160	\$160	\$160	12	9,000 Lumens, MH	\$2.25	\$90					
Customer	None	93	93	7,254	\$7.20	(90,004.5)	\$7.20	(90,004.5)	\$670	\$670	\$670	12	12,000 Lumens, MH	\$3.92	\$369					
Customer	None	84	145	12,180	\$9.86	(90,004.5)	\$9.86	(90,004.5)	\$830	\$830	\$830	12	19,500 Lumens, MH	\$5.44	\$454					
Customer	None	352	352	27,744	\$15.49	(90,004.5)	\$15.49	(90,004.5)	\$5,449	\$5,449	\$5,449	12	32,000 Lumens, MH	\$8.60	\$722					
Customer	None	96	74	7,104	\$9.36	(90,004.5)	\$9.36	(90,004.5)	\$889	\$889	\$889	12	107,800 Lumens, MH	\$20.37	\$561					
Customer	None	144	93	14,664	\$0.102229	(90,004.5)	\$0.102229	(90,004.5)	\$14,664	\$14,664	\$14,664	12	Non-Irradiated Luminaire kWh	\$0.07627	\$6,031					
Customer	Partial	240	145	34,800	\$22.47	(90,004.5)	\$22.47	(90,004.5)	\$5,237	\$5,237	\$5,237	12	20,000 Lumens, MV*	\$15.58	\$1,709					
Customer	Partial	71	28	1,988	\$6.02	(90,004.5)	\$6.02	(90,004.5)	\$427	\$427	\$427	12	5,800 Lumens, HPS*	\$4.69	\$333					
Customer	Partial	684	39	26,676	\$7.75	(90,004.5)	\$7.75	(90,004.5)	\$5,301	\$5,301	\$5,301	12	9,500 Lumens, HPS*	\$5.90	\$4,036					
Customer	Partial	588	96	56,448	\$12.40	(90,004.5)	\$12.40	(90,004.5)	\$7,291	\$7,291	\$7,291	12	27,500 Lumens, HPS*	\$7.84	\$4,610					
Customer	Partial	408	148	60,384	\$16.71	(90,004.5)	\$16.71	(90,004.5)	\$6,703	\$6,703	\$6,703	12	50,000 Lumens, HPS*	\$9.68	\$3,949					
Customer	Full	7,127	39	279,956	\$6.71	(90,004.5)	\$6.71	(90,004.5)	\$47,441	\$47,441	\$47,441	12	5,800 Lumens, HPS*	\$5.38	\$38,343					
Customer	Full	25,499	28	714,372	\$8.56	(90,004.5)	\$8.56	(90,004.5)	\$218,271	\$218,271	\$218,271	12	9,500 Lumens, HPS*	\$6.71	\$171,098					
Customer	Full	1,534	59	90,206	\$10.27	(90,004.5)	\$10.27	(90,004.5)	\$15,794	\$15,794	\$15,794	12	16,000 Lumens, HPS*	\$7.47	\$11,459					
Customer	Full	5,776	96	552,486	\$13.45	(90,004.5)	\$13.45	(90,004.5)	\$77,887	\$77,887	\$77,887	12	27,500 Lumens, HPS*	\$8.89	\$33,569					
Customer	Full	216	148	32,068	\$17.93	(90,004.5)	\$17.93	(90,004.5)	\$3,861	\$3,861	\$3,861	12	30,000 Lumens, HPS*	\$10.90	\$8,804					
Total Proposed Revenue											\$394,621	Total Proposed Revenue	\$394,621							

*No New Service
 Embedded Cost of Service for Lighting Class Difference Adjustment Factor

\$394,621
 \$394,621
 \$4
 44.18%

Rocky Mountain Power
 State of Idaho
 Consolidated Proposed Lighting Revenue by Lamp Type
 Adjusted Historic Test Period 12 Months Ended December 2020

Schedule Number	Schedule Title	Company-Owned Lamp Category	Lamp Units	kWh	Price	Price Units	Revenue
7	Security Area Lighting	Level 1 (0-5,500 LED Equivalent Lumens)	2,016		8.00	\$/mo	\$16,131
7	Security Area Lighting	Level 2 (5,501-12,000 LED Equivalent Lumens)	900		9.24	\$/mo	\$8,316
7	Security Area Lighting	Level 3 (12,001 and Greater LED Equivalent Lumens)	580		11.14	\$/mo	\$6,461
7A	Security Area Lighting (Residential and Farm)	Level 1 (0-5,500 LED Equivalent Lumens)	1,686		8.00	\$/mo	\$13,488
7A	Security Area Lighting (Residential and Farm)	Level 2 (5,501-12,000 LED Equivalent Lumens)	143		9.24	\$/mo	\$1,321
7A	Security Area Lighting (Residential and Farm)	Level 3 (12,001 and Greater LED Equivalent Lumens)	12		11.14	\$/mo	\$134
11	Street Lighting Service - Company-Owned System	Level 1 (0-3,500 LED Equivalent Lumens)	84		9.23	\$/mo	\$775
11	Street Lighting Service - Company-Owned System	Level 2 (3,501-5,500 LED Equivalent Lumens)	3,042		9.92	\$/mo	\$30,177
11	Street Lighting Service - Company-Owned System	Level 3 (5,501-8,000 LED Equivalent Lumens)	134		10.42	\$/mo	\$1,396
11	Street Lighting Service - Company-Owned System	Level 4 (8,001-12,000 LED Equivalent Lumens)	-		10.96	\$/mo	\$0
11	Street Lighting Service - Company-Owned System	Level 5 (12,001-15,500 LED Equivalent Lumens)	172		11.69	\$/mo	\$2,011
11	Street Lighting Service - Company-Owned System	Level 6 (15,501 and Greater LED Equivalent Lumens)	60		13.79	\$/mo	\$827
12	Street and Security Area Lighting - Customer-Owned System			2,415,862	0.057627	\$/kWh	\$311,058
Total Proposed Revenue							\$392,095
Total Unique Price Count (Company-Owned System)							12