

Rocky Mountain Power
Exhibit RMP__(GND-1R)
Docket No. 13-035-184
Witness: Gregory N. Duvall

BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF UTAH

ROCKY MOUNTAIN POWER

Exhibit Accompanying Rebuttal Testimony of Gregory N. Duvall

Rebuttal Net Power Costs

June 2014

APR_UTGRC14 NPC Study (Rebuttal)

PacifiCorp	Net Power Cost Analysis												
	07/14-06/15	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15
12 months ended June 2015													
Special Sales For Resale													
Long Term Firm Sales													
Black Hills s27013s28160	13,826,920	1,171,405	1,179,294	1,155,689	1,177,039	1,148,805	1,184,703	1,170,997	1,120,224	1,181,705	1,157,316	1,132,828	1,046,916
BPA Wind s42818	2,756,997	123,965	124,596	175,863	219,445	306,794	383,612	298,403	267,250	297,745	186,990	191,247	181,087
Hurricane Sale s393046	13,751	1,146	1,146	1,146	1,146	1,146	1,146	1,146	1,146	1,146	1,146	1,146	1,146
LADVP (JPP Layoff)	29,139,801	2,830,751	2,828,315	2,013,576	3,397,116	2,281,743	2,504,305	2,402,986	2,058,084	2,080,684	1,645,803	2,403,743	2,892,677
Leaning Juniper Revenue	124,068	12,595	15,833	13,060	11,828	8,901	10,031	8,151	8,380	13,301	8,677	6,961	6,351
Shell Sale 2013-2014	4,781,271	882,179	902,850	795,910	756,370	704,892	727,070	-	-	-	-	-	-
SMJD s24296	5,397,375	1,426,350	1,900,875	1,698,300	352,425	19,425	-	-	561,909	593,283	562,825	580,210	866,502
UMPA II s46631	9,540,037	1,779,848	1,400,150	792,640	593,283	582,825	593,283	593,283	-	593,283	-	-	-
Total Long Term Firm Sales	65,580,220	8,238,239	8,353,058	6,646,183	6,510,651	5,054,530	5,404,148	4,474,975	4,016,993	4,167,873	3,562,757	4,316,134	4,814,679
Short Term Firm Sales													
Mead	1,775,173	307,049	304,200	285,660	283,452	302,400	292,412	-	-	-	-	-	-
Palo Verde	54,559,010	4,487,370	1,328,000	1,328,000	11,774,430	11,476,620	11,812,950	4,705,860	4,267,920	4,705,860	-	-	-
Electric Swaps Sales	(2,984,288)	(1,047,410)	(1,239,290)	(684,250)	(101,808)	44,258	44,212	-	-	-	-	-	-
Total Short Term Firm Sales	53,349,895	3,747,009	(935,091)	929,410	11,956,074	11,823,278	12,149,574	4,705,860	4,267,920	4,705,860	-	-	-
System Balancing Sales													
COB	40,490,455	2,994,082	5,266,533	4,928,454	3,988,394	4,562,545	4,864,864	4,883,081	3,438,291	3,267,566	1,663,527	207,997	445,122
Four Corners	68,401,314	6,733,419	9,870,152	8,880,835	5,909,665	6,951,717	4,390,550	3,188,342	5,545,143	5,465,814	5,720,936	4,023,590	1,721,153
Mead	39,241,839	2,873,314	3,928,596	4,352,321	3,605,105	4,011,026	3,441,253	4,365,988	3,521,171	3,020,483	2,526,612	2,056,036	1,539,935
Mid Columbia	14,842,950	304,135	2,397,038	2,583,925	2,326,009	1,023,835	425,327	1,261,011	1,462,213	1,725,689	1,333,768	-	-
Mona	15,668,690	2,049,013	2,848,569	2,828,537	1,737,997	710,042	774,036	519,230	470,252	520,463	1,242,867	1,576,987	390,707
Palo Verde	92,123,907	10,686,895	14,592,496	11,950,916	1,882,643	1,692,646	1,384,736	7,002,626	6,401,231	8,036,379	11,373,478	9,868,043	7,239,818
Trapped Energy	140,634	2,390	-	8,413	2,631	-	60,857	-	36,520	-	10,546	16,331	947
Total System Balancing Sales	270,909,787	25,653,247	38,903,383	35,533,400	19,432,444	18,951,810	15,341,622	21,220,278	20,876,820	22,038,384	23,871,733	17,748,983	11,337,683
Total Special Sales For Resale	389,839,902	37,638,494	46,321,351	43,108,993	37,899,169	35,829,619	32,895,944	30,401,113	29,161,733	30,912,117	27,454,490	22,065,118	16,152,362

\$

APR_UTGRC14 NPC Study (Rebuttal)

12 months ended June 2015	Net Power Cost Analysis												
	07/14-06/15	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15
Qualifying Facilities													
QF California	6,815,157	358,150	271,221	252,006	254,732	279,819	413,542	637,102	714,157	794,372	1,013,580	1,028,701	797,773
QF Idaho	7,444,590	601,567	486,992	435,986	467,246	460,032	436,600	616,427	562,109	694,144	757,952	917,494	1,007,951
QF Oregon	26,034,939	1,938,949	1,822,265	1,886,787	1,838,424	1,682,923	2,038,868	2,287,002	2,145,636	2,455,380	2,719,608	2,760,647	2,468,350
QF Utah	2,087,163	129,063	128,176	109,064	123,353	124,136	99,664	134,724	162,620	193,954	209,799	239,226	436,375
QF Washington	574,646	82,638	86,837	75,004	44,249	29,094	29,033	27,022	27,019	26,986	31,352	47,095	66,317
QF Wyoming	723,228	115,151	115,036	104,170	58,055	32,687	32,769	22,474	21,144	20,448	40,040	80,311	80,942
Biomass One QF	14,029,834	1,377,174	1,377,252	1,368,446	1,398,072	1,315,261	1,221,266	1,302,686	1,302,686	1,319,319	178,405	723,393	718,402
Chevron Wind p498335 QF	2,179,084	146,940	241,299	200,991	302,335	322,556	239,838	204,079	181,318	175,512	74,514	49,747	39,955
DCFP p316701 QF	150,693	9,528	5,672	12,422	21,290	17,031	6,202	13,493	10,165	11,781	13,830	16,145	13,133
Evergreen BioPower p351030 QF	2,453,125	191,420	265,265	252,112	297,472	210,202	208,386	194,715	189,958	176,523	141,532	157,092	168,446
Five Pine Wind QF	7,217,179	512,565	606,222	514,570	623,024	682,098	853,377	671,391	572,575	680,769	532,192	533,266	435,110
Laligo Wind Park QF	1,352,141												735,564
Mountain Wind 1 p367721 QF	8,465,020	407,927	519,460	646,004	719,796	855,772	1,120,054	1,204,831	771,242	797,935	584,542	483,472	364,985
Mountain Wind 2 p398449 QF	12,244,876	808,202	792,975	815,405	855,555	1,122,506	1,528,677	1,798,851	1,078,685	1,124,962	797,084	859,408	702,966
North Point Wind QF	15,782,073	1,142,389	1,345,965	1,143,273	1,371,132	1,474,807	1,847,130	1,454,189	1,243,197	1,472,266	1,168,023	1,196,823	962,878
OM Power I Geothermal QF													
Oregon Wind Farm QF	11,545,896	1,335,923	1,039,607	844,531	848,682	1,000,640	346,199	691,263	738,788	952,230	1,170,368	1,187,991	1,389,764
Power County North Wind QF p5756	3,987,350	276,642	249,121	289,603	378,449	364,660	480,197	379,580	383,534	351,063	330,930	286,151	237,420
Power County South Wind QF p576c	3,816,504	206,895	211,715	258,681	324,356	378,622	508,064	410,977	368,187	379,161	298,713	235,677	235,457
Roseburg Dillard QF	1,034,366	144,200	110,146	98,351	34,378	79,363	105,148	145,702	143,079	71,515	47,164	24,967	30,352
Spanish Fork Wind 2 p311681 QF	2,820,209	280,998	345,406	280,998	229,198	252,903	275,650	183,965	199,368	175,977	166,978	170,414	248,216
Sunyside p83987/p59865 QF	27,688,841	2,485,046	2,459,191	2,353,845	2,051,822	2,384,263	2,452,629	2,451,869	2,344,758	2,454,297	1,629,359	2,205,904	2,405,857
Tesoro QF	1,275,760	96,966	91,069	97,285	110,299	101,638	141,061	117,274	105,788	141,186	115,783	84,110	73,300
Threemile Canyon Wind QF p50013c	2,044,975	165,930	169,994	159,362	163,597	144,615	151,783	152,303	159,689	176,983	167,021	212,401	198,278
Qualifying Facilities Total	161,767,737	12,834,284	12,736,487	12,198,844	12,535,516	13,295,626	14,536,526	15,061,922	13,313,175	14,648,764	12,728,768	14,186,020	13,691,805
Mid-Columbia Contracts													
Douglas - Wells p60828	3,607,688	296,741	296,741	301,420	301,420	301,420	301,420	301,420	301,420	301,420	301,420	301,420	301,420
Grant Reasonable	(8,182,532)	(850,942)	(850,942)	(850,942)	(850,942)	(850,942)	(850,942)	(512,813)	(512,813)	(512,813)	(512,813)	(512,813)	(512,813)
Grant Surplus p256851	1,931,342	151,383	151,383	151,383	151,383	151,383	151,383	170,507	170,507	170,507	170,507	170,507	170,507
Mid-Columbia Contracts Total	(2,643,502)	(402,817)	(402,817)	(398,138)	(398,138)	(398,138)	(398,138)	(40,886)	(40,886)	(40,886)	(40,886)	(40,886)	(40,886)
Total Long Term Firm Purchases	453,115,012	36,335,798	38,433,339	36,507,856	37,020,088	39,203,248	42,393,867	42,896,076	37,500,401	40,651,463	35,573,389	34,248,802	32,350,685

APR_UTGRC14 NPC Study (Rebuttal)

Net Power Cost Analysis

	07/14-06/15	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15
12 months ended June 2015													
Wheeling & U. of F. Expense													
Firm Wheeling	147,375,313	12,809,647	12,841,393	11,489,077	11,789,710	12,316,588	12,638,397	12,449,911	12,474,629	12,532,466	11,778,696	11,734,423	12,520,387
ST Firm & Non-Firm	45,070	1,254	1,352	2,286	2,752	1,478	10,016	10,075	5,981	3,841	1,781	1,037	1,716
Total Wheeling & U. of F. Expense	147,420,383	12,810,901	12,842,744	11,491,863	11,792,462	12,318,066	12,648,413	12,459,986	12,481,610	12,536,307	11,780,477	11,735,460	12,522,103
Coal Fuel Burn Expense													
Carbon	19,413,807	2,065,498	2,172,601	1,697,995	1,919,412	2,026,422	2,117,727	2,163,490	2,012,729	2,206,676	1,014,336	(1,449)	(1,629)
Cholla	58,270,134	4,825,158	5,466,137	5,210,175	5,076,584	5,200,525	5,171,248	5,294,170	4,900,393	5,353,850	3,343,274	4,303,179	4,135,441
Calsirp	15,314,332	1,372,542	1,371,814	1,328,989	1,373,091	1,326,607	1,372,732	1,372,732	1,239,304	1,372,491	1,328,681	820,113	1,035,316
Craig	24,718,274	2,222,166	2,219,744	2,145,619	2,156,512	2,222,604	2,222,604	2,223,960	2,007,649	2,223,288	2,151,129	2,214,478	1,974,429
Dave Johnston	61,478,105	5,658,566	5,696,122	5,439,740	5,479,284	4,953,700	5,079,284	5,141,161	4,674,327	3,907,414	5,218,040	5,258,325	5,013,918
Hayne	13,429,235	1,189,640	1,195,502	1,128,143	1,178,965	1,302,018	1,270,138	1,291,855	1,188,816	1,310,206	886,641	560,553	916,756
Hunter	160,355,274	14,194,017	14,842,732	13,981,025	14,080,354	13,391,817	13,921,332	14,152,207	12,913,344	9,716,747	13,077,662	13,244,542	12,839,495
Huntington	126,548,984	11,222,004	11,724,716	10,280,081	8,739,805	8,903,419	11,147,533	11,329,067	10,398,664	11,304,916	10,827,053	10,475,693	10,208,034
Jim Bridger	234,695,048	21,221,288	21,716,981	20,518,870	21,281,844	20,801,819	20,709,336	20,368,357	18,887,012	19,374,263	17,117,842	15,137,288	17,650,168
Naughton	90,851,577	10,563,957	10,619,018	10,372,923	10,369,700	9,919,698	10,451,924	5,562,734	5,062,891	5,505,066	3,818,214	4,020,291	4,395,221
Wyodak	26,323,621	2,342,404	2,352,102	2,268,299	2,319,654	2,298,777	2,243,692	2,374,229	2,081,045	2,313,431	1,362,314	2,236,181	2,131,493
Total Coal Fuel Burn Expense	831,298,391	76,887,241	79,567,469	74,371,818	73,563,469	71,407,082	75,681,887	71,263,962	65,346,175	64,566,286	60,155,188	58,269,174	60,298,640
Gas Fuel Burn Expense													
Chenails	34,136,732	4,291,710	8,632,295	7,666,299	7,418,624	769,966	793,108	487,749	-	-	4,076,981	-	-
Current Creek	35,348,596	4,551,291	6,119,214	4,153,149	1,378,923	1,434,995	1,406,278	2,199,115	3,454,350	3,700,153	4,440,927	1,187,225	1,322,974
Gadsby	3,058,668	1,001,019	2,057,649	-	-	-	-	-	-	-	-	-	-
Gadsby CT	3,405,450	575,444	859,672	455,440	367,553	178,265	97,180	82,065	48,060	234,519	312,613	77,241	117,399
Hermiston	39,743,677	2,677,720	4,632,715	4,065,631	3,488,696	4,118,573	4,344,108	4,628,946	3,828,556	4,116,557	3,086,694	644,107	111,374
Lake Side 1	58,078,010	4,302,215	8,921,200	6,151,524	3,428,495	3,190,269	4,300,962	4,794,210	3,734,453	6,371,138	6,732,950	4,048,344	974,249
Lake Side 2	88,929,245	7,891,670	9,323,397	8,545,446	7,435,227	8,389,497	8,270,264	8,616,830	7,669,962	7,905,645	4,414,274	5,633,567	4,833,463
Naughton - Gas	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Gas Fuel Burn Expense	262,700,377	26,419,068	40,546,142	31,037,489	23,517,518	18,081,585	19,211,900	20,808,915	18,735,382	22,326,012	23,064,440	11,590,485	7,359,459
Other Generation													
Gas Physical	(427,931)	(78,694)	(79,388)	(76,983)	(79,239)	(22,575)	(23,328)	(23,328)	(21,070)	(23,328)	-	-	-
Gas Swaps	539,700	(140,275)	(322,788)	93,000	77,903	262,575	(61,457)	(488,638)	(382,550)	(257,688)	542,925	834,567	382,125
Clay Basin Gas Storage	291,911	50,533	50,533	50,533	50,533	9,709	(14,046)	(32,545)	(23,716)	(1,222)	50,533	50,533	50,533
Pipeline Reservation Fees	36,137,027	3,036,625	3,036,625	2,988,245	3,036,625	2,988,245	3,036,625	3,036,625	2,899,673	3,036,625	2,972,860	3,021,240	3,047,013
Total Gas Fuel Burn Expense	289,241,082	29,287,258	43,231,125	34,092,284	26,603,341	21,319,519	22,149,695	23,301,030	21,207,720	25,082,400	26,630,758	15,496,824	10,839,130
Other Generation													
Blundell	3,749,908	312,402	312,491	312,089	332,557	331,692	342,635	342,683	309,514	342,683	311,126	197,699	302,336
Integration Charge	3,477,942	253,466	251,115	244,790	274,025	308,872	332,131	349,354	286,113	331,001	282,610	286,276	278,188
Total Other Generation	7,227,849	565,868	563,605	556,879	606,582	640,564	674,766	692,038	595,627	673,685	593,736	483,975	580,524
Net Power Cost	1,510,208,987	144,520,960	145,757,943	119,356,791	118,248,122	119,070,064	128,015,151	128,783,922	119,873,772	127,924,969	116,192,037	118,114,589	124,350,667
Net Power Cost/Net System Load	25.59	26.89	27.58	25.64	25.42	24.73	24.44	24.38	25.59	26.13	25.09	25.17	25.82