

Rocky Mountain Power  
Exhibit RMP\_\_(JKL-3R)  
Docket No. 17-035-39  
Witness: Jeffrey K. Larsen

BEFORE THE PUBLIC SERVICE COMMISSION  
OF THE STATE OF UTAH

ROCKY MOUNTAIN POWER

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Exhibit Accompanying Rebuttal Testimony of Jeffrey K. Larsen  
Example Monthly RTM Deferral Calculation - Revenue Requirement

October 2017

**PacifiCorp  
 Utah**  
 Wind Repowering - Example Monthly RTM Deferral Calculation  
 Revenue Requirement

Line No.	Reference	2019 January	2019 February	2019 March	2019 April	2019 May	2019 June	2019 July	2019 August	2019 September	2019 October	2019 November	2019 December
<b>Total Company</b>													
<b>Plant Revenue Requirement</b>													
1 Capital Investment		-	-	-	-	-	-	145,625	145,625	145,625	587,127	949,528	949,528
2 Depreciation Reserve		-	-	-	-	-	-	(405)	(809)	(1,214)	(2,844)	(5,482)	(8,120)
3 Accumulated DIT Balance		-	-	-	-	-	-	(11,912)	(17,868)	(23,824)	(30,780)	(37,736)	(44,692)
4 Net Rate Base	sum of lines 1-3	-	-	-	-	-	-	133,309	132,904	126,544	511,111	825,156	782,869
5 Pre-Tax Rate of Return	line 34	10.649%	10.649%	10.649%	10.649%	10.649%	10.649%	10.649%	10.649%	10.649%	10.649%	10.649%	10.649%
6 Pre-Tax Return on Rate Base	Footnote 1	-	-	-	-	-	-	1,183	1,179	1,179	1,123	4,536	7,323
7 Wholesale Wheeling Revenue	Footnote 2	-	-	-	-	-	-	-	-	-	-	-	-
8 Operation & Maintenance	Footnote 5	-	-	-	-	-	-	324	621	713	754	716	748
9 Depreciation	Prior December (line 1 + line 2) x line 35	-	-	-	-	-	-	405	405	405	1,631	2,638	2,638
10 Property Taxes		-	-	-	-	-	-	-	-	-	-	-	-
11 Wind Tax		-	-	-	-	-	-	8	15	17	18	17	18
12 <b>Total Plant Revenue Requirement</b>	sum of lines 6-11	-	-	-	-	-	-	736	2,223	2,314	3,526	7,907	10,726
<b>Net Power Cost</b>													
13 NPC Incremental Savings	See Exhibit JKL-4	-	-	-	-	-	-	77	147	170	179	170	178
<b>PTC Benefit</b>													
14 PTC Benefit		-	-	-	-	-	-	(1,608)	(3,083)	(3,544)	(3,745)	(3,557)	(3,714)
15 PTC Benefit in Base Rates		-	-	-	-	-	-	-	-	-	-	-	-
16 Net PTC	sum of lines 14 and 15	-	-	-	-	-	-	(1,608)	(3,083)	(3,544)	(3,745)	(3,557)	(3,714)
17 Gross-up for taxes	line 16 * (line 31 - 1)	-	-	-	-	-	-	(983)	(1,896)	(2,167)	(2,290)	(2,175)	(2,271)
18 PTC Revenue Requirement	sum of line 16 and 17	-	-	-	-	-	-	(2,591)	(4,969)	(5,711)	(6,035)	(5,732)	(5,985)
19 <b>Rev. Requirement</b>	sum of lines 12, 13 and 18	-	-	-	-	-	-	(1,778)	(2,598)	(3,227)	(2,330)	2,345	4,918
<b>Adjustment for EBA Pass-through</b>													
20 NPC Incremental Savings	line 13	-	-	-	-	-	-	77	147	170	179	170	178
21 Percentage included in EBA (100%)	line 20 * line 21	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
22 EBA Pass-through	line 19 - line 22	-	-	-	-	-	-	(1,855)	(2,746)	(3,397)	(2,509)	2,175	4,741
23 <b>Rev. Reqt after EBA Pass-through</b>	Footnote 4	-	-	-	-	-	-	(791)	(1,170)	(1,448)	(1,070)	927	2,021
<b>Utah Allocated</b>													
24 <b>Total Deferral - UT Share</b>	line 22 * line 36 + line 24	-	-	-	-	-	-	(758)	(1,108)	(1,376)	(993)	1,000	2,097
25 <b>Net Customer Benefit</b>													
<b>Deferral Balance - UT Share</b>													
26 Beginning Deferral Balance	line 30 of previous month	-	-	-	-	-	-	-	(793)	(1,970)	(3,432)	(4,521)	(3,614)
27 Monthly Deferral	line 24	-	-	-	-	-	-	(791)	(1,170)	(1,448)	(1,070)	927	2,021
28 Deferral Collection	Footnote 3	-	-	-	-	-	-	-	-	-	-	-	-
29 Carrying Charge	(in 26 + 5 * (in 27 - in 28)) * in 33	-	-	-	-	-	-	(2)	(7)	(13)	(20)	(20)	(13)
30 <b>Ending Deferral Balance</b>	sum of lines 26-29	-	-	-	-	-	-	(793)	(1,970)	(3,432)	(4,521)	(3,614)	(1,606)
31 Federal/State Combined Tax Rate	JKL_4R, line 5	37.951%											
32 Netto Gross Bump up Factor = (1/(1-tax rate))	JKL_4R, line 6	1.6116											
33 Deferred Balance Carrying Charge	UT EBA rate; see JKL_2R line 33	6.00%											
34 Pretax Return	JKL_4R, line 4	10.649%											
35 Property Tax Rate	JKL_4R, line 14	0.77%											
36 Utah SG Factor	JKL_4R, line 15	42.6283%											
37 Utah GPS Factor	JKL_4R, line 16	42.4704%											

Footnotes:  
 1) Pre-tax Return, line 6, is calculated as the rate of return (line 5) multiplied by the ending net rate base of the prior month (line 4) divided by 12  
 2) Not Applicable for Repowering  
 3) For illustrative purposes, collection of RTM until the next general rate case so that, after taking into account the wind repowering benefits that will flow through the Company's EBA, it will not operate to surcharge customers  
 4) The Company is proposing to cap the RTM until the next general rate case so that, after taking into account the wind repowering benefits that will flow through the Company's EBA, it will not operate to surcharge customers  
 5) As stated in testimony, actual depreciation expense will be adjusted by the impact of the retired assets until the next depreciation study







**Total Plant Revenue Requirement (Lines 1 - 12, 34):**

Exhibit JKL-3R shows the calculation of the RTM revenue requirement deferral described in my testimony. The calculation starts with total Company amounts on lines 1 - 23 to calculate the Utah specific amounts on lines 24 - 30. To calculate the return on rate base associated with the wind repowering investment, net rate base associated with the repowered wind resources is calculated on a monthly basis. The net rate base balance on line 4 includes the investment in repowered wind resources, along with the associated impacts on the depreciation reserve and accumulated DIT Balance. The monthly beginning net rate base (the final amount from the prior month) is then multiplied by the pre-tax Weighted Average Cost of Capital ("WACC") from the last Utah general rate case on line 5 to determine the Company's pre-tax return on rate base on line 6. The example uses the pre-tax WACC from Docket No. 09-035-15. The total plant revenue requirement is calculated by taking the return on rate base shown on line 6 and adding the O&M expense, depreciation expense, property taxes and wind tax on lines 8 - 11 to determine the total plant revenue requirement on line 12. Wholesale wheeling revenue on line 7 is not used for wind repowering, but is needed for a similar calculation for the Gateway transmission and wind expansion project.

**Net Power Costs (Line 13):**

The total company incremental NPC savings associated with repowered wind resources is shown on line 13. The incremental NPC savings associated with the repowered wind projects are multiplied by one hundred percent on line 21 to determine the amount of the NPC savings that will be returned to customers through the sharing band of the EBA. The calculation of NPC savings is described in Exhibit JKL-4R.

**PTC Benefits (Lines 14-18, 31, 32):**

Lines 14-18 show the calculation of the PTC benefits associated with the repowered wind resources. The actual PTC sales are grossed-up for taxes using the net-to-gross bump-up factor from the Company's last general rate case (shown on line 32) to derive the PTC revenue requirement on line 18. The tax gross-up is necessary for customers to get the full revenue requirement benefit of the PTCs and is calculated using the federal and state combined tax rate shown on line 31, which was also included in the last general rate case.

**Deferral Balance (Lines 19 - 30):**

The Utah share of the net deferral begins by calculating the total repowering project revenue requirement on line 19, which is the sum of Total Plant Revenue Requirement on line 12, NPC Incremental Savings on line 13, and PTC Revenue Requirement on line 18. The EBA pass-through on line 22 is subtracted to provide the Revenue Requirement after EBA Pass-through on line 23. Utah's share of the Total Deferral is dependent upon the amount of revenue requirement cost or benefit that is determined in a particular year. If the Revenue Requirement after EBA Pass-through for any year on line 23 is negative, which means that the repowering project provides a revenue requirement benefit greater than the benefit being passed through the EBA, then that year's deferral is equal to the additional benefit found on line 23. If the Revenue Requirement after EBA Pass-through for any year on line 23 is positive, the Company is proposing to cap the RTM until the next general rate case so that, after taking into account the wind repowering benefits that will flow through the Company's EBA, it will not operate to surcharge customers. The Net Customer Benefit (line 25) is the sum of the EBA Pass-through (line 22) and the Total Deferral - Utah Share (line 24). The carrying charge, shown on line 29 is calculated using the Commission-authorized rate on line 33 and is consistent with the calculations used in the Company's other mechanisms such as the EBA. As described earlier, each month the total-Company RTM revenue requirement will be calculated as illustrated on Exhibit JKL-3 to align with the resources included in the EBA. Once per year on a calendar-year basis, the Company will sum the monthly RTM revenue requirement entries to prepare the annual RTM application for filing with the Commission on March 15, with an interim rate effective date that corresponds with the EBA application, May 1.