

November 21, 2017

#### VIA ELECTRONIC FILING

Utah Public Service Commission Heber M. Wells Building, 4<sup>th</sup> Floor 160 East 300 South Salt Lake City, UT 84114

Attention: Gary Widerburg

**Commission Secretary** 

RE: Docket No. 17-035-T07 - In the Matter of Rocky Mountain Power's Proposed

Tariff Revisions to Electric Service Schedule No. 37, Avoided Cost Purchases

from Qualifying Facilities

Docket No. 17-035-37 – In the Matter of Rocky Mountain Power's 2017

**Avoided Cost Input Changes Quarterly Compliance Filing** 

The Company hereby files its Surrebuttal Testimony as directed by the Commission. Rocky Mountain Power respectfully requests that all formal correspondence and requests for additional information regarding this filing be addressed to the following:

By E-mail (preferred): <a href="mailto:datarequest@pacificorp.com">datarequest@pacificorp.com</a>

<u>utahdockets@pacificorp.com</u> <u>jana.saba@pacificorp.com</u> <u>yvonne.hogle@pacificorp.com</u>

By regular mail: Data Request Response Center

PacifiCorp

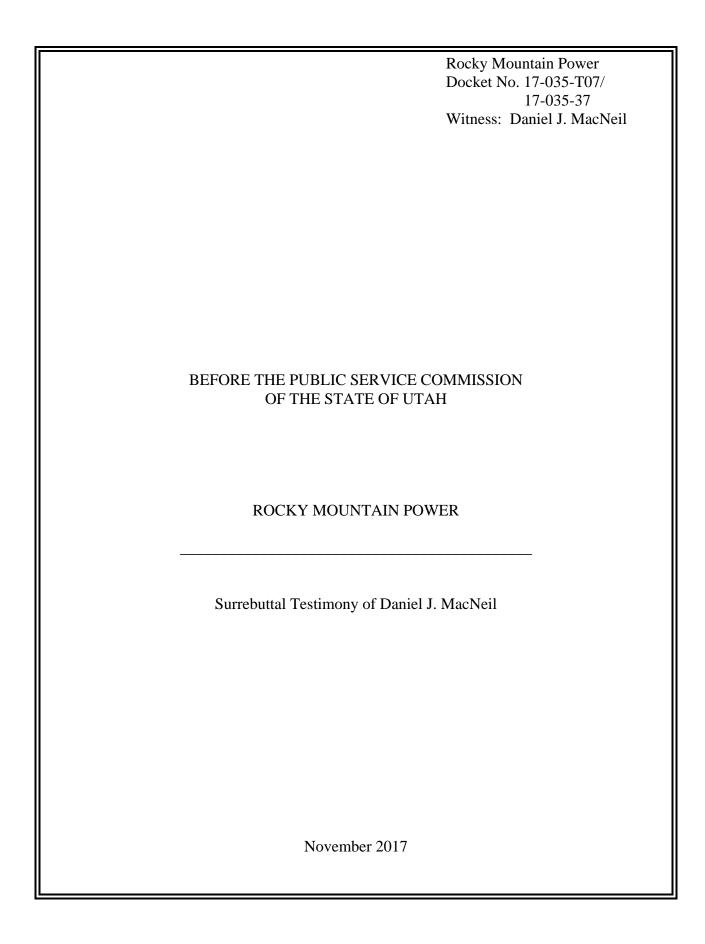
825 NE Multnomah, Suite 2000

Portland, OR 97232

Informal inquiries may be directed to Jana Saba at (801) 220-2823.

Sincerely,

Joelle R. Steward
Vice President, Regulation



1 Q. Are you the same Daniel J. MacNeil who presented direct and rebuttal testimony 2 in this proceeding on behalf of PacifiCorp, d.b.a. Rocky Mountain Power ("the 3 Company")? 4 Α. Yes. 5 PURPOSE OF TESTIMONY AND RECOMMENDATION 6 Q. What is the purpose of your surrebuttal testimony? 7 A. I respond to the rebuttal testimony filed on October 31, 2017 by witnesses Dr. 8 Abdinasir M. Abdulle for the Division of Public Utilities ("DPU"), Ms. Cheryl Murray 9 for the Office of Consumer Services ("OCS"), and Mr. Ken Dragoon and Ms. Kate 10 Bowman for Utah Clean Energy ("UCE"). 11 Q. Please summarize the issues addressed in your surrebuttal testimony. 12 A. I address the following issues: 13 • UCE's and the Renewable Energy Coalition's ("Coalition") failure to include 14 supporting calculations for their proposals; 15 Additional considerations related to potential deferral of the Aeolus to 16 Bridger/Anticline transmission upgrade; 17 Factors affecting avoided costs and ratepayer indifference, specifically 18 additional qualifying facilities ("QF") resources and avoided cost updates. 19 Please summarize Dr. Abdulle's position regarding UCE's and the Coalition's Q. 20 failure to provide supporting calculations for their recommended proposals. 21 A. Dr. Abdulle addresses UCE's and the Coalition's failure to support their proposal in

his rebuttal testimony, stating, "[b]ecause Mr. Dragoon presented no numerical

calculations in relation to his proposed alternative method, the Division is unable to

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determine whether or not the proposed method would yield a reasonable avoided cost."<sup>1</sup> 24 25 He takes the same position with regard to the proposals made by Mr. Lowe and Mr. Townsend for the Coalition.<sup>2</sup> 26 27 Do you agree with Dr. Abdulle that it is impossible to evaluate the reasonableness Q. 28 of Mr. Dragoon's proposed methodology since no supporting calculations were provided?<sup>3</sup> 29 30 Yes. Without an avoided cost, it is difficult to know whether an avoided cost A. 31 methodology will produce reasonable avoided cost results. Dr. Abdulle notes the 32 importance of the customer indifference standard in setting avoided cost, and it is 33 impossible to assess customer indifference without having at least an indication of the 34 avoided cost outcomes. 35 To assess customer outcomes, the Company asked UCE for avoided cost 36 calculations based on Mr. Dragoon's proposed avoided cost methodology. In response, UCE indicated that it "has not proposed a specific pricing method or pricing options, 37 38 and therefore has not prepared the requested calculations." See Rocky Mountain Power 39 Data Request 1 to UCE, attached as Exhibit RMP\_\_\_(DJM-1S). 40 Similarly, the Company asked the Coalition for avoided cost calculations based 41 on the proposed avoided cost methodologies of Mr. Townsend and Mr. Lowe. The 42 Coalition's response indicated that it "has not prepared the requested calculations." See 43 Rocky Mountain Power Data Request 1 to the Coalition, attached as Exhibit 44 RMP\_\_\_(DJM-2S).

<sup>1</sup> Adbulle Rebuttal at page 3, lines 56-59.

<sup>&</sup>lt;sup>2</sup> Adbulle Rebuttal at page 3-4, lines 61-69.

<sup>&</sup>lt;sup>3</sup> Abdulle Rebuttal at page 3, lines 56-60.

45 Q. Mr. Dragoon states that "there is no compelling reason to exclude renewable OFs from the opportunity to defer renewable resources of a different type." Do you 46 agree? 47 48 No. First, Mr. Dragoon appears to conclude that Mr. Townsend's analysis of the A. 49 deferral of renewable resources of different types was inadequate and is unable to 50 provide an alternative. As such, Mr. Dragoon has no compelling reason to allow 51 deferral of renewable resources of any type as he proposes. More importantly, as 52 discussed in my rebuttal testimony, the current method of capacity-equivalence does not adequately account for the variations in operational characteristics between 53 54 different types of renewable resources. In other words, while one apple and two donuts 55 may weigh the same, this does not mean they cost the same, provide the same 56 nutritional benefits, or are interchangeable components of a healthy diet. Mr. Dragoon 57 recommends replacing 3.8 megawatts ("MW") of wind resource with 1 MW of tracking 58 solar resource, claiming this produces an equivalent portfolio without any supporting 59 calculations to verify the result.<sup>5</sup> 60 Q. Mr. Dragoon also suggests that excluding deferral of renewables of different types 61 "may deprive Utah ratepayers of the opportunity to benefit from local renewable resources." How do you respond? 62 63 A. The Company's avoided cost methodology does not account for costs and benefits that 64 are beyond the scope of its revenue requirement and customer rates. Customers have

<sup>&</sup>lt;sup>4</sup> Dragoon Rebuttal at page 3, lines 31-32.

<sup>&</sup>lt;sup>5</sup> One MW of east tracking solar with a 59.7 percent capacity contribution is equivalent to approximately 3.8 MW of east wind with a 15.8 percent capacity contribution, as both resources provide 0.597 MW of capacity.

<sup>&</sup>lt;sup>6</sup> Dragoon Rebuttal at page 3, lines 33-34.

if the 2021 Wyoming wind is considered deferrable. Should the Commission
Dr. Abdulle suggests that it is appropriate to include avoided transmission costs
their discretion.
of these schedules allow customers the opportunity to support renewable generation at
located on or adjacent to their premises and which is intended to offset their load. All
conditions for customers which own, lease, or purchase renewable generation that is
Generators, which supersedes the net-metering tariff and identifies the terms and
usage at their home or business. Schedule 136 is the Transition Program for Customer
at a fixed price, with purchased energy offsetting a portion of their own billed energy
opportunity to buy kilowatt-hour blocks of electricity from a Company solar resource
Schedule 73 is the Company's Subscriber Solar program, the gives customers the
and administrative costs are used to fund community-based renewable energy projects.
("RECs") to match customer subscriptions. Funds remaining after REC procurement
Blue Sky program, under which the Company procures renewable energy credits
agreements to receive service from renewable resources. Schedule 70 is the Company's
Schedules 70, 73 or 136. Schedules 32 and 34 allow large customers to enter
32 or 34, and small customers can request service from renewable resources under
customers may be eligible to receive service from renewable resources under Schedules
other opportunities to voluntarily support local renewable resources. For example, large

- consider both the wind and transmission resources deferrable?

  No. While the Aeolus to Bridger/Anticline transmission upgrade cannot be incrementally adjusted to a smaller size, the associated wind resource additions could
- be incrementally reduced. This means that even if the 2021 Wyoming wind resource is

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considered deferrable, the Aeolus to Bridger/Anticline transmission upgrade does not necessarily need to be considered deferrable as well.

Q. Is the Aeolus to Bridger/Anticline transmission upgrade solely for the purpose of connecting the 2021 Wyoming wind resource to the Company's transmission system?

No. The transmission upgrades, which enable interconnection of the 2021 Wyoming wind resources, provide additional benefits beyond the connection of the proposed wind to the Company's system. First, the wind resource additions have an average output of approximately 450 MW, which leaves more than one third of the 750 MW of incremental transfer capability available for other resources such as the Company's existing wind resources and Dave Johnston and Wyodak coal plants. Thus, the incremental transfer capability creates additional customer benefits by allowing these low-cost resources to displace higher-cost resources elsewhere on the Company's system. Further, as noted in the 2017 IRP, in addition to the increase in transfer capability, the transmission upgrade will result in reduced line losses and reduced transmission system derates.<sup>7</sup> If transmission costs are included in avoided costs, the lost transmission benefits described above should also be considered.

Q. Ms. Bowman claims that only 18 small QF projects have been completed in Utah and that only 12.2 MW came online during 2016.8 Are her claims accurate?

107 A. No. Ms. Bowman's figures did not include several hydro and baseload/cogeneration 108 projects. At present, the Company has 25 small QF projects in Utah that are delivering

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<sup>&</sup>lt;sup>7</sup> PacifiCorp's 2017 IRP Volume I. p. 62-63. Available online at: <a href="https://www.pacificorp.com/content/dam/pacificorp/doc/Energy\_Sources/Integrated\_Resource\_Plan/2017\_IRP/2017\_IRP\_VolumeI\_IRP\_Final.pdf">https://www.pacificorp.com/content/dam/pacificorp/doc/Energy\_Sources/Integrated\_Resource\_Plan/2017\_IRP/2017\_IRP\_VolumeI\_IRP\_Final.pdf</a>.

<sup>&</sup>lt;sup>8</sup> Bowman Rebuttal at page 3, lines 37-39.

power under QF power purchase agreements. In addition, while small Utah QF contracts with 2016 commercial operation dates ("CODs") were relatively limited, over 800 MW of new QFs achieved CODs in 2016. While 12.2 MW of new QFs may not have a significant impact on avoided costs, 800 MW certainly could impact avoided costs. Ignoring that impact, as proposed by Ms. Bowman, would result in rates above the Company's actual avoided cost, violating the customer indifference standard to the detriment of retail customers.

Q. Ms. Murray suggests that if the 2021 Wyoming wind resource is included in the calculation of avoided cost pricing, it should immediately be removed at such time as the project stops being pursued to ensure that the customer indifference standard continues to be upheld. How do you respond?

The Company agrees that changes in avoided cost rates are necessary to maintain customer indifference, but this is true whether the Company's avoided cost goes up or down. In particular, the 2021 Wyoming wind resource was included in the 2017 preferred portfolio due to the projected customer benefits of a portfolio including that resource relative to other potential portfolios. Since other potential portfolios are more expensive, the Company's avoided cost should be higher if the 2021 Wyoming wind resource is not feasible or cost-effective, barring other changes in conditions. As shown in Figures 2R, 3R, and 4R in my rebuttal testimony, assuming the Wyoming wind resource is not deferred by Utah QFs results in higher avoided costs, particularly for wind QFs, which represent the most direct and reasonable comparison. This is because there are elements within the 2017 IRP preferred portfolio that are higher cost than the

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<sup>&</sup>lt;sup>9</sup> MacNeil Rebuttal at pages 23-35, lines 483-505.

131		2021 Wyoming wind. If the 2021 Wyoming wind was removed from the portfolio,
132		more of these higher cost elements would be necessary.
133	Q.	How does the Company intend to incorporate the outcome of the wind RFP in
134		avoided costs?
135	A.	Once they are fully executed, new contracts and agreements would be included in
136		avoided costs calculated under Schedule 38, displacing resources identified in the IRP
137		preferred portfolio just like QF resources of the same type. The Company's 2017 IRP
138		Update preferred portfolio, to be filed in March 2018, is expected to reflect the results
139		of the wind RFP, either through executed agreements or a portfolio without the 2021
140		Wyoming wind and transmission. The 2017 IRP Update preferred portfolio would be
141		used to determine Schedule 38 rates once it is filed and would form the basis for a filing
142		in April 2018 to update Schedule 37 rates.
143	Q.	Does this conclude your surrebuttal testimony?
144	A.	Yes.

Rocky Mountain Power Exhibit RMP\_\_\_(DJM-1S) Docket No. 17-035-T07/ 17-035-37

Witness: Daniel J. MacNeil

# BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF UTAH

# **ROCKY MOUNTAIN POWER**

Exhibit Accompanying Surrebuttal Testimony of Daniel J. MacNeil

Rocky Mountain Power Data Request 1 to Utah Clean Energy

November 2017

# RMP Data Request 1.

Please provide avoided cost calculations based on Mr. Dragoon's proposed Schedule 37 and 38 methodology(ies) for the 10 MW base load, wind, fixed tilt solar, and tracking solar resources used in the Company's direct filing. Please provide all workpapers and assumptions used in the development of the requests results.

# **UCE Response to RMP Data Request 1.**

In response to the Company's application, Mr. Dragoon's testimony outlines a conceptual framework for how Schedule 38 avoided costs could be calculated when there is a renewable proxy in the IRP. Utah Clean Energy has not proposed a specific pricing method or pricing options, and therefore has not prepared the requested calculations. Mr. Dragoon's testimony did not address Schedule 37.

# RMP Data Request 2.

Please explain how Mr. Dragoon's proposed methodology accounts for the following, and provide all workpapers necessary to implement the proposal:

- a. Timing differences between a proposed QF's output and the output of the renewable proxy resource
- b. Locational differences between a proposed QF output and a renewable proxy resource
- c. The aggregate effect of QF resources on the Company's avoided capacity and energy costs.

# **UCE Response to RMP Data Request 2.**

Please see the answer to question 1.

Rocky Mountain Power Exhibit RMP\_\_\_(DJM-2S) Docket No. 17-035-T07/ 17-035-37

Witness: Daniel J. MacNeil

# BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF UTAH

# **ROCKY MOUNTAIN POWER**

Exhibit Accompanying Surrebuttal Testimony of Daniel J. MacNeil

Rocky Mountain Power Data Request 1 to Renewable Energy Coalition

November 2017

J. Craig Smith (04143) (jcsmith@shutah.law)

Adam S. Long (14701)

(along@shutah.law)

SMITH HARTVIGSEN, PLLC

257 East 200 South, Suite 500

Salt Lake City, Utah 84111

Telephone: (801) 413-1600 Facsimile: (801) 413-1620

Counsel for the Renewable Energy Coalition

#### BEFORE THE PUBLIC SERVICE COMMISSION OF UTAH

In the Matter of: Rocky Mountain Power's Proposed Tariff Revisions to Electric Service Schedule No. 37, Avoided Cost Purchases from Qualifying Facilities

In the Matter of Rocky Mountain Power's 2017 Avoided Cost Input Changes Quarterly Compliance Filing

Docket No. 17-035-T07

Docket No. 17-035-37

RENEWABLE ENERGY COALITION'S RESPONSES TO ROCKY MOUNTAIN POWER'S FIRST SET OF DATA REQUESTS

Rocky Mountain Power's data requests, as provided to the Renewable Energy Coalition ("**REC**" or the "**Coalition**") on October 17, 2017, are in bold, below, and the Coalition's responses to each follow.

# **DATA REQUESTS AND RESPONSES**

1. Please provide avoided cost calculations based on Mr. Townsend's proposed Schedule 37 and 38 methodology(ies) for the 10 MW base load, wind, fixed tilt solar, and tracking solar resources used in the Company's direct filing. Please provide all workpapers and assumptions used in the development of the requests results.

RESPONSE: Since this case involves the revolves around the method to use for QF pricing (not the prices themselves), Mr. Townsend has not prepared the requested calculations for RMP's Utah QF cases.

2. Please provide avoided cost calculations based on Mr. Lowe's proposed Schedule 37 and 38 methodology(ies) for the 10 MW base load, wind, fixed tilt solar, and tracking solar resources used in the Company's direct filing. Please provide all workpapers and assumptions used in the development of the requests results.

RESPONSE: Since this case involves the revolves around the method to use for QF pricing (not the prices themselves), Mr. Lowe has not prepared the requested calculations for RMP's Utah QF cases.

### **CERTIFICATE OF SERVICE**

Docket No. 17-035-T07 and 17-035-37

I hereby certify that on November 21, 2017, a true and correct copy of the foregoing was served by electronic mail to the following:

# **Utah Office of Consumer Services**

Cheryl Murray - <a href="mailto:cmurray@utah.gov">cmurray@utah.gov</a> Michele Beck - <a href="mailto:mbeck@utah.gov">mbeck@utah.gov</a>

# **Division of Public Utilities**

Chris Parker - <u>ChrisParker@utah.gov</u> William Powell - <u>wpowell@utah.gov</u> Erika Tedder - etedder@utah.gov

### **Assistant Attorney General**

For Division of Public Utilities
Patricia Schmid - <a href="mailto:pschmid@agutah.gov">pschmid@agutah.gov</a>
Justin Jetter - <a href="mailto:jjetter@agutah.gov">jjetter@agutah.gov</a>

For Utah Office of Consumer Services
Robert Moore – rmoore@agutah.gov
Steven Snarr - stevensnarr@agutah.gov

#### **Renewable Energy Coalition**

John Lowe – <u>jravenesanmarcos@yahoo.com</u>
J. Craig Smith - <u>jcsmith@smithlawonline.com</u>
Adam S. Long - <u>along@smithlawonline.com</u>
Irion Sanger - <u>irion@sanger-law.com</u>

#### **Utah Clean Energy**

Sophie Hayes - <a href="mailto:sophie@utahcleanenergy.org">sophie@utahcleanenergy.org</a>
Kate Bowman - <a href="mailto:kate@utahcleanenergy.org">kate@utahcleanenergy.org</a>

# **Rocky Mountain Power**

Jana Saba – <u>jana.saba@pacificorp.com</u>
<u>utahdockets@pacificorp.com</u>

Yvonne Hogle – <u>Yvonne.hogle@pacificorp.com</u>

Data Request Response Center – <u>datarequest@pacificorp.com</u>

Jennifer Angell
Supervisor, Regulatory Operations