Rocky Mountain Power Docket No. 23-035-01 Witness: Douglas R. Staples

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF UTAH

ROCKY MOUNTAIN POWER

REDACTED

Response Testimony of Douglas R. Staples

December 2023

1	Q.	Please state your name, business address, and present position with PacifiCorp.
2	A.	My name is Douglas R. Staples, and my business address is 825 NE Multnomah Street,
3		Suite 600, Portland, Oregon 97232. I am currently employed as a Net Power Cost
4		Advisor in the Net Power Cost Group. I am testifying for PacifiCorp dba Rocky
5		Mountain Power ("PacifiCorp" or "Company").
6		QUALIFICATIONS
7	Q.	Please describe your education and professional experience.
8	A.	I received a Bachelor of Science degree with a focus on finance from the University of
9		South Florida. first gained employment with PacifiCorp in 2015, though I recently
10		rejoined the Company after pursuing a role in Enterprise Risk Management with
11		Portland General Electric from January 2022 through August 2023. During my tenure
12		with PacifiCorp, I have worked as a senior risk management analyst and I currently
13		work as a net power cost advisor, contributing to various regulatory projects including
14		general rate cases and net power cost filings. Before my time with PacifiCorp, I spent
15		seven years working as a senior risk analyst and a supervisor of the risk management
16		group at NextEra Energy Power Marketing, where I designed reports, provided
17		validation and troubleshooting of risk metrics, and oversaw the quarterly validation of
18		valuation assumptions used in mark-to-market accounting for financial statements.
19		Prior to that, I worked as a principal business analyst for San Diego Gas & Electric. In
20		that role, I was a part of the acting arm of the risk management committee, providing
21		oversight to both San Diego Gas & Electric and Southern California Gas Company.

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22 Q. Have you testified in previous regulatory proceedings?

A. Yes. I have previously filed testimony in Washington, Wyoming, California, andOregon.

25 Q. What is the purpose of your testimony in this proceeding?

A. The Purpose of my testimony is to respond to Daymark's recommendation that the
requested energy balancing account ("EBA") recovery be reduced by \$13.9 million
total Company, or \$6.5 million Utah-allocated, for physical power transactions, which
Daymark claims were imprudent due to lack of support for the trade purpose.

30 Q. Please describe how your testimony is organized.

A. My testimony begins with an overview of the various types of hedging that the
Company performs and the associated goals for the program. Next, I address
Daymark's recommended adjustment within the context of PacifiCorp's hedging
program and explain why the Company has acted prudently when executing physical
power transactions.

36 Q. Please summarize your recommendation to the Public Service Commission of 37 Utah ("Commission").

A. My testimony will show that there is ample evidence that the Company acted prudently, and the Company's front office personnel gave consideration to **making** when making their decision to execute the trades that Daymark has identified. It will also show that there is evidence for the reasonableness of those considerations in the Company's record of its activities. Finally, it will show that the trade purpose report documented that the trades were made



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of delivering safe, affordable, and reliable energy. The remainder of the decisions
around hedging and/or procurement are normally managed by front office personnel.

70 Q. What role does each type of hedging have in utility operations?

A. Price hedging can help reduce volatility in power costs, though its impact on net power
costs can vary depending on the fixed price of the hedge relative to market conditions.
Supply hedging has a slightly different focus and is primarily concerned with ensuring
adequate supply is available to meet system obligations.

75 Q. Is there any such thing as a perfect hedge?

A. Yes, but only in financial markets and physical markets for which there is no potential
 for volumetric variability and the financial products available can perfectly offset the
 physical and financial risk. Banks and other market makers typically transact in
 standard contract sizes, so eliminating their open positions (long or short) is easily
 accomplished.

81 For companies operating in a utility space, customer loads, generation resource 82 availabilities, energy resource production, and other variable factors can only be 83 forecasted, so it is not possible to perfectly hedge physical or financial risk. Essentially, 84 utilities do not know years or months ahead of time precisely what their load will be, 85 what the hourly shape of the loads will be, what generation resources will be available 86 to serve it, or how sensitive it might be to external factors (macroeconomic factors, 87 ambient temperatures, etc.). There is simply more ambiguity around the precise size 88 and even the overall direction (long or short) of their position, even though forecasts 89 provide reasonable estimates.

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137	Q.	Please explain how the Company calculates the physical position.
138	А.	The Company uses a least-cost algorithm to forecast future operations on an hourly
139		basis, using:
140		1. load forecast,
141		2. generation unit characteristics, such as heat rates, ramp rates, stable operating
142		ranges, and startup costs,
143		3. transmission topology (limitations on the Company's ability to move power
144		across the system), and
145		4. forward prices for power and gas.
146	Q.	Are there aspects of the long-term position report that seem to be ignored in
146 147	Q.	Are there aspects of the long-term position report that seem to be ignored in Daymark's testimony?
	Q. A.	
147		Daymark's testimony?
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157		2. The availability of the generation fleet includes adjustments for high
158		temperatures, also known as ambient derates, which cannot be accurately
159		forecasted in a granular fashion in the model inputs;
160		3. The equivalent forced outage ("EFOR") rate is spread equally across the 12
161		months when forecasted; and,
162		4. The market was sending strong signals that power scarcity was anticipated,
163		increasing the likelihood of a reliability event.
164		I further explain each of these factors and why they were taken into consideration by
165		the Company's traders when making the decision to when the
166		Company was
167	Q.	Please explain what a P50 report is.
168	A.	The Company's P50 report is created on a daily basis by the risk management group in
169		order to
170		, but it comes with some
171		important limitations. P50 reports are designed to be median condition reports, meaning
172		the Company can reasonably assume that approximately half of the time loads will be
173		higher than depicted in the report, and approximately half of the time loads will be
174		lower than depicted in the report. Importantly, this is true of not just the overall load
175		level in a month or calendar year, but in the peak hour as well. Furthermore, loads can
176		be higher than forecast and resources can be lower than forecast at the same time in
177		actual operations, which can create or exacerbate a load-resource balance issue.
178	Q.	Please explain how Daymark used the P50 report in its review.
179	A.	Daymark relied on the P50 report in its claims that the Company was imprudent



¹ DPU Exhibit 2.3, Daymark Energy Advisors EBA Audit Report at 97 (Nov. 7, 2023).

Please explain how ambient derates are reflected in the Company's long-term

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Q.

position report.

202	A.	Ambient derates were applied only to the months of June through August during 2022
203		(this has recently been expanded to include September), but the derate is applied on an
204		average basis, and not shaped to match the anticipated temperatures, either by month
205		or by hour. The fundamental issue is that, while this is a practical choice from a
206		modeling and forecasting perspective, it does not account for
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209		This is a known issue, but there is
210		no easy way to correct it since it would require an hourly temperature forecast,
211		including an ambient derate function that scales the size of the derate, months or years
212		into the future. The Company's Front Office personnel are aware of the inherent limits
213		of forecasting and factors it into decisions on when to
214		forward market.
215	Q.	How are forced outages represented in PCI?
216	A.	The EFOR rate is applied to each generator in the PCI study to represent the likelihood
217		that a resource is unable to perform when called upon. It essentially provides a "haircut"
218		to output capabilities in the amount of the annualized probability of forced outage
219		multiplied by the generator's maximum dependable output, resulting in a probabilistic
220		annual generation forecast, which is important for the calculation of a gas requirement.
221		However, those rates are applied in a uniform fashion across all months in the forecast
222		period. This conflicts with the operational reality, where plants either perform or don't

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² DPU Exhibit 2.3, Daymark Energy Advisors EBA Audit Report at 97 (Nov. 7, 2023).

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306		SUMMARY AND RECOMMENDATION
307	Q.	Please summarize your argument and recommendation.
308	A.	The Company disagrees with Daymark's specific recommendation for a disallowance
309		related to a There are factors of which the front office personnel
310		are aware, but which resist inclusion in the long-term position report, and those factors
311		are primarily related to a constant of the second of the
312		the Company's record of its actual operations - were weighed by front office personnel,
313		who judged that it was prudent and in keeping with PacifiCorp's goals to
314		pursue length in order to hedge uncertainty around
315		That rationale was recorded in the trade purpose report. For those reasons, the Company
316		recommends that the Commission acknowledge that those trades were reasonable at
317		the time of execution and reject the proposed disallowance.
318	Q.	Does this conclude your response testimony?
319	A.	Yes.