

Exhibit No. CAC-1CT  
Docket UE-152253  
Witness: Cindy A. Crane

**BEFORE THE WASHINGTON  
UTILITIES AND TRANSPORTATION COMMISSION**

WASHINGTON UTILITIES AND  
TRANSPORTATION COMMISSION,

Complainant,

v.

PACIFIC POWER & LIGHT  
COMPANY,

Respondent.

DOCKET UE-152253

**PACIFIC POWER & LIGHT COMPANY**

**REDACTED SUPPLEMENTAL REBUTTAL TESTIMONY OF  
CINDY A. CRANE**

**May 2016**

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**ATTACHED EXHIBITS**

- Confidential Exhibit No. CAC-2C—Corrected Coal Cost Comparison between January 2013  
Long-Term Fueling Plan and October 2013 Mine Plan
- Confidential Exhibit No. CAC-3C—Analysis of Hypothetical Jim Bridger Two-Unit  
Scenario
- Exhibit No. CAC-4—Pacific Power’s Response to Sierra Club Data Request 1.11

1 **Q. Please state your name, business address, and present position.**

2 A. My name is Cindy A. Crane. My business address is 1407 West North Temple,  
3 Suite 310, Salt Lake City, Utah 84116. I am the President and Chief Executive  
4 Officer of Rocky Mountain Power, a division of PacifiCorp.

5 **Q. Have you previously testified in this proceeding on behalf of Pacific Power &  
6 Light Company (Pacific Power or Company), a division of PacifiCorp?**

7 A. No, but I am adopting the pre-filed rebuttal testimony and exhibits of Mr. Dana  
8 Ralston, which have been identified as Exhibit Nos. DR-1CT, 2C, 3C, and 4C.

9 **QUALIFICATIONS**

10 **Q. Briefly describe your professional experience.**

11 A. I joined PacifiCorp in 1990. Since then I have served as Director of Business  
12 Systems Integration, Managing Director of Business Planning and Strategic Analysis,  
13 Vice President of Strategy and Division Services, and Vice President of Interwest  
14 Mining Company and Fuel Resources. My responsibilities in these positions included  
15 the management and development of PacifiCorp's 10-year business plan, directing  
16 operations of the Energy West Mining and Bridger Coal companies, and coal supply  
17 acquisition and fuel management for PacifiCorp's coal-fired generating plants. In  
18 October 2014, I was appointed to my present position as President and Chief  
19 Executive Officer of Rocky Mountain Power.

20 **Q. Have you testified in previous regulatory proceedings?**

21 A. Yes. I have filed testimony in proceedings before public utility commissions in all  
22 states in which PacifiCorp serves customers, including Washington.

1 **PURPOSE AND SUMMARY OF TESTIMONY**

2 **Q. What is the purpose of your supplemental rebuttal testimony?**

3 A. My testimony responds to the supplemental testimony of Mr. Jeremy B. Twitchell on  
4 behalf of Staff of the Washington Utilities and Transportation Commission  
5 (Commission) related to the prudence of the Company’s decision to install selective  
6 catalytic reduction systems (SCRs) on Units 3 and 4 of the Jim Bridger generating  
7 plant (Jim Bridger Units 3 and 4). In particular, I respond to Staff’s analysis of the  
8 coal costs Pacific Power used in its present value revenue requirement differential  
9 calculations (PVRR(d)) supporting the decision to install SCRs.

10 **Q. Please summarize your testimony.**

11 A. Pacific Power’s decision to install SCRs at Jim Bridger Units 3 and 4 was prudent,  
12 and the Company’s analysis supporting the decision was based on the best available  
13 information at the time the decision was made. Staff accuses the Company of failing  
14 to consider increases in coal costs and decreases in natural gas prices when it issued  
15 the full notice to proceed (FNTP) on December 1, 2013. Staff bases these accusations  
16 on an alleged lack of evidence that these changes were considered, and relies on an  
17 analysis of Bridger Coal Company (BCC) coal costs prepared by the Company in fall  
18 2013 as part of its annual budgeting process (the October 2013 mine plan) and  
19 selective application of third-party natural gas price forecasts. Staff’s accusations are  
20 unfounded and untrue.

21 Mr. Chad A. Tepy addresses Staff’s assertions that the Company did not  
22 consider these changes in December 2013 before issuing the FNTP, and Mr. Rick T.  
23 Link addresses the natural gas price forecasts. In this testimony, I address Staff’s

1 assertions about estimated coal costs in fall 2013. Although certain costs related to  
2 BCC increased in the October 2013 mine plan, other costs decreased, including  
3 decreases in capital expenditures and third-party coal costs. The changes in the  
4 October 2013 mine plan were not material and did not warrant an update to the  
5 Company's long-term fueling plan (what has been called the January 2013 mine plan,  
6 but is referred to in the Company's supplemental rebuttal testimony as the January  
7 2013 long-term fueling plan to clarify the intended purposes of the two different types  
8 of plans) or its SCR analysis.

#### 9 **OCTOBER 2013 MINE PLAN**

10 **Q. Please describe the Company's October 2013 mine plan.**

11 A. As discussed in Mr. Ralston's rebuttal testimony, the October 2013 mine plan was  
12 developed by the Company as part of its annual budgeting process.<sup>1</sup> The plan was  
13 prepared to forecast BCC coal costs for a 10-year budget horizon. Although the  
14 October 2013 mine plan includes forecasts beyond this 10-year horizon, this  
15 information is used only to develop reclamation funding inputs for the 10-year budget  
16 horizon. In contrast, the Company prepares long-term fueling plans, such as the  
17 January 2013 long-term fueling plan, for use in the integrated resource planning  
18 process and in analyses of decisions with long-term impacts to the Company and its  
19 customers, such as the decision to install SCRs at Jim Bridger Units 3 and 4.  
20 Therefore, the nature of the data provided in the two types of plans is different, and  
21 different analytical rigor is applied in developing the long-term data included in the  
22 plans.

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<sup>1</sup> Ralston, Exh. No. DR-1CT 3:8-4:10.

1 **Q. Is the October 2013 mine plan directly comparable to the January 2013 long-**  
2 **term fueling plan?**

3 A. No. As Mr. Ralston previously testified, the plans are not comparable given the  
4 major differences in their purpose, scope, and planning horizons. The Company  
5 never relied on the October 2013 mine plan as a long-term fueling forecast for the Jim  
6 Bridger plant.

7 **Q. Did the BCC coal costs included in the October 2013 Mine Plan increase by**  
8 **██████████ over the BCC coal costs included in the January 2013 long-term**  
9 **fueling plan, as Staff testified?<sup>2</sup>**

10 A. No. Because the January 2013 and October 2013 plans are not directly comparable,  
11 Staff needed to make several assumptions in conducting its analysis. When errors in  
12 these assumptions are corrected, the results show that overall coal costs for the Jim  
13 Bridger plant increased by only ██████████ during the 10-year budget horizon  
14 covered by the October 2013 mine plan. This amount is consistent with the  
15 ██████████ increase reflected in the Company's long-term fueling plan for the Jim  
16 Bridger plant used for the 2015 Integrated Resource Plan (IRP) for the 2016-2030  
17 period.<sup>3</sup> If the Company had updated costs by this percentage increase in both the  
18 two-unit operating scenario (the natural gas conversion alternative) and four-unit  
19 operating scenario (the SCR alternative), the SCR benefits would have decreased by  
20 approximately ██████████ over the 10-year budget period, as set forth in Exhibit

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<sup>2</sup> Twitchell, Exh. No. JBT-28HCT 18:12-15.

<sup>3</sup> Ralston, Exh. No. DR-1CT 7:16, Exh. No. DR-4C. The long-term fueling costs used in the 2015 IRP were based on the Company's July 22, 2014 BCC mine plan. The Company originally produced a BCC mine plan on July 9, 2014, that it used in its 10-year budget. This plan was updated with only a few changes in the July 22, 2014 mine plan. The long-term fueling plan was finalized in November 2014 after the Company had updated third-party coal costs.

1 No. CAC-2C. This is a conservative assumption because, as discussed below, the  
2 Company's analysis shows that projected cost increases in a two-unit scenario under  
3 the October 2013 mine plan would have offset all cost increases in the four-unit  
4 scenario.

5 **Q. Before filing its initial or supplemental testimony, was Staff aware that the**  
6 **October 2013 Mine Plan was not directly comparable to the January 2013 long-**  
7 **term fueling plan?**

8 A. Yes. In Mr. Twitchell's initial testimony, he explained that he had reviewed the  
9 record from the Company's 2014 Utah rate case to determine how the SCR  
10 investments were treated.<sup>4</sup> My testimony in that case explained the differences  
11 between the October 2013 mine plan and the January 2013 long-term fueling plan and  
12 made clear that they are not directly comparable.<sup>5</sup> Mr. Twitchell's review of the  
13 record from the 2014 Utah rate case should have alerted him to the material  
14 differences in these two plans. Moreover, Mr. Ralston clearly explained in his  
15 rebuttal testimony that these two plans are not directly comparable for the same  
16 reasons discussed here.<sup>6</sup>

17 **Q. Please describe the first incorrect assumption made in Staff's new analysis.**

18 A. Staff mistakenly assumes that the long-term data in the October 2013 mine plan is  
19 comparable to the long-term data in the January 2013 long-term fueling plan and uses  
20 some of this longer-term data from the October 2013 mine plan (data for the period

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<sup>4</sup> Twitchell, Exh. No. JBT-1T 62:1-4. Sierra Club also included a copy of my Utah rebuttal testimony as an exhibit to its testimony in this case. Fisher, Exh. No. JIF-8. The Company's 2014 Utah rate case was docket No. 13-035-184.

<sup>5</sup> See e.g. Exh. No. JIF-8 5:72-81.

<sup>6</sup> Ralston, Exh. No. DR-1CT 3:8-23.

1 2023 through 2030).<sup>7</sup> As I explain above, the long-term cost and revenue  
2 assumptions included in the October 2013 mine plan were not developed with the  
3 same analytical rigor that the Company uses to develop its long-term fueling plans  
4 because this data is used solely to determine appropriate contributions to the  
5 reclamation sinking fund during the 10-year budget horizon. This is why, as Staff  
6 noted, in the October 2013 mine plan the longer-term capital cost data was kept in a  
7 different file than the capital cost data for the 10-year budget horizon.<sup>8</sup>

8 **Q. Please describe the second erroneous assumption in Staff's analysis.**

9 A. Staff's analysis includes a modeling error in BCC's "Mine and Equipment  
10 Maintenance" cost component in 2028 that inflates coal costs by [REDACTED]  
11 (Company portion, [REDACTED]). On a net-present-value basis, correcting this error  
12 reduces Staff's calculated coal cost increase by approximately [REDACTED].

13 **Q. What is the impact of correcting the analysis to account for only the 10-year  
14 budget horizon reflected in the October 2013 mine plan and correcting Staff's  
15 modeling error?**

16 A. The overall increase in coal costs is only [REDACTED]. Notably, this increase is  
17 consistent with the overall increase between the January 2013 and 2015 IRP long-  
18 term fueling plans for the Jim Bridger plant, as I note above. The fact that the long-  
19 term cost projections in the 2015 IRP are consistent with the 10-year budget but  
20 inconsistent with Staff's 2016 to 2030 analysis highlights the underlying problems in  
21 Staff's approach.

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<sup>7</sup> See e.g. Twitchell, Exh. No. JBT-28HCT 18:7-9.

<sup>8</sup> Twitchell, Exh. No. JBT-28HCT 17 n. 21.



1 **Q. Are there any other indicators that Staff's analysis was flawed?**

2 A. Yes. The flaws in Staff's revised analysis should have been apparent simply by  
3 examining the overall results. In response testimony, Staff claimed that BCC coal  
4 costs increased by [REDACTED], which resulted in a downward adjustment to the SCR  
5 benefits of [REDACTED].<sup>9</sup> Now, Staff claims that coal costs increased by only  
6 [REDACTED], yet the downward SCR adjustment increased to [REDACTED].<sup>10</sup>

7 **Q. Staff contends that the Company's continued reliance on the January 2013 long-**  
8 **term fueling plan even after the October 2013 mine plan was developed was**  
9 **unreasonable.<sup>11</sup> How do you respond?**

10 A. I disagree. During the budgeting process in fall 2013, the Company recognized that  
11 increases in BCC cash costs would be substantially offset by reduced BCC capital  
12 spending and third-party fuel costs. Nothing in the October 2013 mine plan signaled  
13 that the January 2013 long-term fueling plan was obsolete.

14 **Q. Staff bolsters its long-term analysis by pointing to coal cost increases reported in**  
15 **the Company's 2014 Washington rate case.<sup>12</sup> Is Staff's reliance on rate case coal**  
16 **costs appropriate here?**

17 A. No. Staff claims that if the October 2013 mine plan "created cost increases that were  
18 sufficiently known and measurable to support a rate increase, then those costs  
19 increases were sufficiently known and measurable to be included in the Company's  
20 planning." But as Staff acknowledges, the coal costs included in the Company's rate

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<sup>9</sup> Twitchell, Exh. No. JBT-1T 34:12-14; 9, Figure 1.

<sup>10</sup> Twitchell, Exh. No. JBT-28HCT 18:12-15; 19:20-21.

<sup>11</sup> Twitchell, Exh. No. JBT-28HCT 6:12-19.

<sup>12</sup> Twitchell, Exh. No. JBT-28HCT 7:8-12; 8:1-14; 10:17 – 11:20. The Company's 2014 Washington rate case was Docket UE-140762.

1 case filings reflect costs expected during the rate year.<sup>13</sup> The analysis used to develop  
2 test-period coal costs for a general rate case is fundamentally different from the  
3 analysis required to develop long-term fuel plans for a generating plant. Because the  
4 October 2013 mine plan updated BCC coal costs for the 10-year budget horizon (a  
5 relatively short-term period), the Company reasonably relied on the October 2013  
6 mine plan to establish short-term rates. The fact that the mine plan was used to  
7 determine short-term costs does not mean that it is appropriate as a long-term forecast  
8 or as a comprehensive life-of-plant fueling plan for the Jim Bridger plant.

### 9 THIRD-PARTY FUEL COSTS

10 **Q. Staff acknowledges that the October 2013 Mine Plan did not update third-party**  
11 **coal costs.<sup>14</sup> Staff therefore relied on the third-party coal increases from the**  
12 **2014 Washington rate case to forecast the change in third-party coal costs over**  
13 **the 2016 to 2030 study period.<sup>15</sup> Is this a valid way to forecast third-party coal**  
14 **costs?**

15 A. No. Staff's reliance on the 2014 Washington rate case produces two fundamental  
16 errors in its analysis of third-party coal costs. First, Staff unreasonably assumes an  
17 [REDACTED] annual cost increase for third-party coal. Second, Staff unreasonably  
18 assumes that the production ratio between BCC and third-party suppliers reflected in  
19 the Company's direct filing in its 2014 Washington rate case will remain constant  
20 through 2030. Both of these assumptions are incorrect.

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<sup>13</sup> Twitchell, Exh. No. JBT-28HCT 11: 16-17.

<sup>14</sup> Twitchell, Exh. No. JBT-28HCT 10:5-9.

<sup>15</sup> Twitchell, Exh. No. JBT-28HCT 18:17 – 19: 8.

1 **Q. How did Staff calculate its assumed increase for third-party coal costs?**

2 A. Staff compared the costs of Black Butte coal in the Company's 2013 Washington rate  
3 case<sup>16</sup> to the costs of Black Butte coal in the Company's 2014 Washington rate case.  
4 Because costs increased by [REDACTED] between the 2013 and 2014 cases, Staff  
5 assumed that costs would continue to increase at [REDACTED] annually until 2030.<sup>17</sup>

6 **Q. What is wrong with this assumption?**

7 A. First, there were 15 months between the 2013 and 2014 net power cost test years.  
8 Therefore, the annual change is only [REDACTED], not [REDACTED]. Second, it is  
9 unreasonable to assume that third-party coal costs would increase at the same  
10 percentage annually through 2030 based on consideration of changes over only one  
11 15-month period. The third-party cost increase between the 2013 and 2014 case  
12 represented a price change between two test periods based on contract terms that were  
13 expiring in 2015. There is absolutely no basis to assume that the increases in those  
14 cases reflect long-term expectations.

15 **Q. How would you correct Staff's assumed third-party cost increase?**

16 A. Based on what the Company knew in fall 2013, during the 10-year budget horizon  
17 third-party coal costs were expected to increase by roughly [REDACTED] annually.  
18 When factored into the overall plant fueling costs, third-party costs inclusive of coal  
19 inventory changes known in fall 2013 actually *decrease* by [REDACTED] relative to the  
20 third-party costs assumed in the SCR analysis. This decrease further offsets the  
21 modest increase in BCC costs reported in the October 2013 mine plan's 10-year  
22 budget horizon.

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<sup>16</sup> *Wash. Utils. & Transp. Comm'n v. PacifiCorp*, Docket UE-130043.

<sup>17</sup> Twitchell, Exh. No. JBT-28HCT 18:18-22.

1 **Q. Are there any other deficiencies in Staff’s analysis?**

2 A. Yes. The Company’s direct testimony in the 2014 Washington rate case was filed in  
3 May 2014, well after the period of time that Staff concedes is relevant to the prudence  
4 determination in this case. Staff claims that it is improper to reference the long-term  
5 fueling plan used in the 2015 IRP to validate the absence of major cost increases in  
6 the October 2013 mine plan. But Staff attempts to do the same thing by referencing  
7 Company testimony filed in May 2014. The testimony on which Staff relies,  
8 however, is irrelevant to the long-term coal cost increases at issue in this case.

9 **Q. What is the second error in Staff’s analysis?**

10 A. Staff incorrectly assumes that the ratio between BCC and third-party coal reflected in  
11 a single year is indicative of the ratio from 2016 through 2030.<sup>18</sup>

12 **Q. How did Staff determine the amount of coal provided by BCC and third-parties  
13 from 2016 through 2030?**

14 A. To determine the ratio between BCC and third-party coal over a 17-year period, Staff  
15 relies on testimony from the Company’s 2014 Washington rate case. In that case, the  
16 Company’s direct testimony projected that BCC would provide roughly 85 percent of  
17 the plant’s total coal, with third-party mines providing the remaining 15 percent. The  
18 Company’s projection in the 2014 rate case, however, was based on expected coal  
19 deliveries *during a single year*—April 2015 through March 2016. Staff is incorrect to  
20 assume that BCC would provide 85 percent of the plant’s total coal until 2030 based  
21 on a single year of data.

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<sup>18</sup> Twitchell, Exh. No. JBT-28HCT 18:17 – 19:8.

1           The flaw in Staff’s assumption is evident from the record in the 2014 rate  
2 case. By the time the Company filed its rebuttal testimony in that case, the proportion  
3 of BCC coal decreased to approximately 70 percent of the plant’s total coal  
4 requirement.<sup>19</sup> This fact undermines Staff’s claim that the October 2013 mine plan  
5 increased the Company’s exposure to market risk because of greater reliance on third-  
6 party coal.<sup>20</sup>

### 7                           **TWO-UNIT SCENARIO**

8   **Q.   Staff contends that if the Company had performed a two-unit scenario analysis**  
9       **in October 2013 it would have shown that coal costs in a two-unit scenario would**  
10      **have decreased, making gas conversion even more attractive.<sup>21</sup> Is Staff’s**  
11      **conclusion sound?**

12   A.   No. Staff’s analysis again relies on incorrect assumptions. First, Staff claims that the  
13 surface mine is subject to economies of scale, while implying that the underground  
14 mine is not.<sup>22</sup> On the contrary, both the surface and underground mine are subject to  
15 economies of scale—as production decreases in either operation the per-unit cost  
16 increases. Under a two-unit scenario, production would decrease.

17   **Q.   Does Staff’s analysis include any other incorrect assumptions?**

18   A.   Yes. Staff reasons that under a two-unit scenario based on the October 2013 Mine  
19 Plan, the surface mine would continue to operate, which would avoid accelerated  
20 reclamation and result in lower costs relative to the two-unit scenario based on the

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<sup>19</sup> *Wash. Utils. & Transp. Comm’n v. Pacific Power & Light Co.*, Docket UE-140762, Exh. No. CAC-1CT 6:13-16.

<sup>20</sup> Twitchell, Exh. No. JBT-28HCT 12:10-18.

<sup>21</sup> Twitchell, Exh. No. JBT-28HCT 24:10-13.

<sup>22</sup> Twitchell, Exh. No. JBT-28HCT 23:19 – 24:13.

1 January 2013 long-term fueling plan.<sup>23</sup> Additionally, Staff states that availability of  
2 underground coal through 2023 in the October 2013 mine plan would also lower  
3 costs.<sup>24</sup> Relying on these assumptions, Staff concludes that a two-unit scenario based  
4 on the October 2013 mine plan would have lower costs than the January 2013 two-  
5 unit scenario.

6 **Q. If the Company had developed a two-unit scenario based on the October 2013**  
7 **Mine Plan, would the costs be less than the January 2013 two-unit scenario?**

8 A. No. Both the January 2013 two-unit scenario and the October 2013 mine plan  
9 consider varying levels of underground coal production through 2023. The primary  
10 difference between the January 2013 two-unit scenario and a two-unit scenario based  
11 on the October 2013 mine plan is that surface mine closure occurs in 2018 in the  
12 January 2013 two-unit scenario and the surface mine continues to operate in the  
13 October 2013 mine plan.

14 To quantify the impact of this change using information available in fall 2013,  
15 the Company compared BCC surface mine cash costs, BCC surface mine capital  
16 costs expressed on a revenue requirement basis, and external coal prices to costs in  
17 the January 2013 two-unit scenario. Based on this analysis, the Company estimates  
18 that two-unit scenario coal costs would have increased by approximately [REDACTED]  
19 during [REDACTED] based on changes in the October 2013 mine plan. This is  
20 primarily due to higher costs at the surface mine. The cost increases in the two-unit  
21 scenario would have entirely offset the cost increases in the four-unit scenario in the  
22 Company's PVR(d) analysis—making the SCR investment become more favorable

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<sup>23</sup> Twitchell, Exh. No. JBT-28HCT 23:10-18.

<sup>24</sup> Twitchell, Exh. No. JBT-28HCT 24:8-10.

1 based on the October 2013 Mine Plan. My analysis is shown in Exhibit No. CAC-3C.

2 **Q. How does this analysis relate to the Company's previous testimony responding**  
3 **to Sierra Club's use of the January 2013 four-unit scenario as a proxy for the**  
4 **October 2013 two-unit scenario?**

5 A. In rebuttal testimony, Mr. Ralston testified that it was reasonable to assume that the  
6 two-unit costs increased at the same percentage as the four-unit costs in the  
7 Company's 2015 IRP fueling plan. This responded to Sierra Club's claim that the  
8 two-unit costs in the 2015 IRP fueling plan would have actually decreased to the level  
9 of four-unit costs in January 2013. The Company's updated analysis indicates that its  
10 previous estimate of two-unit coal costs in the 2015 IRP fueling plan, which projected  
11 only a [REDACTED] increase, was conservative.<sup>25</sup>

12 **Q. Why didn't the Company update its two-unit scenario coal costs in fall 2013?**

13 A. As I discuss above, nothing in the October 2013 mine plan raised concerns that the  
14 January 2013 long-term fueling plan was obsolete or that costs in the two-unit  
15 scenario were decreasing relative to costs in the four-unit scenario. Under these  
16 circumstances, updating the two-unit scenario was unnecessary.

17 **OTHER ISSUES**

18 **Q. Staff testifies that they do not understand why the Company conducted analysis**  
19 **in its rebuttal testimony based on the Company's 2015 IRP fueling plan.<sup>26</sup> Why**  
20 **did the Company include that analysis in its rebuttal testimony?**

21 A. As explained clearly in Mr. Ralston's rebuttal testimony, the Company was  
22 responding to Sierra Club's comparison of coal costs between the January 2013 long-

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<sup>25</sup> Ralston, Exh. No. DR-1CT 12:10-14.

<sup>26</sup> Twitchell, Exh. No. JBT-28HCT 8:16 – 9:4.

1 term fueling plan and the long-term fueling plan used in the 2015 IRP.<sup>27</sup>

2 **Q. Staff claims that the long-term fueling plan used in the 2015 IRP is “not relevant**  
3 **in evaluating the prudence of the Company’s decision” because “it was prepared**  
4 **several months after Pacific Power issued the full notice to proceed (FNTP) with**  
5 **SCR installation at Bridger.”<sup>28</sup> Do you agree?**

6 A. Yes, in part. The Company generally agrees that the prudence standard examines  
7 whether a utility’s decision was reasonable based on the information it knew or  
8 should have known at the time the decision was made. The data used in the 2015 IRP  
9 is therefore not relevant to the prudence of the Company’s decision to install SCRs at  
10 Jim Bridger Units 3 and 4 because the data was developed after the Company made  
11 the decision in May 2013 and after it issued the FNTP on December 1, 2013. But in  
12 this case, Staff argues that “rising coal costs and falling natural gas costs”<sup>29</sup> between  
13 January 2013 and October 2013 demonstrate “obvious trends” that the Company  
14 willfully ignored before issuing the FNTP.<sup>30</sup> The analysis of the SCR investments  
15 using the 2015 IRP data is therefore relevant to rebut this argument and to verify that  
16 there was no significant long-term trend of increasing coal costs.

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<sup>27</sup> Ralston, Exh. No. DR-1CT 6:4-9; 7:14 – 10:16.

<sup>28</sup> Twitchell, Exh. No. JBT-28HCT 8:17-19.

<sup>29</sup> Twitchell, Exh. No. JBT-28HCT 33:5-6.

<sup>30</sup> Twitchell, Exh. No. JBT-28HCT 31:18-19.



1 **Q. One of the corrections Staff made in its supplemental testimony is to exclude**  
2 **non-cash operating costs (i.e., depletion, depreciation, and amortization) from its**  
3 **analysis. While acknowledging its previous error, Staff faults the Company for**  
4 **failing to explain that non-cash operating costs were excluded from the SCR**  
5 **analysis.<sup>31</sup> How do you respond to Staff’s allegation?**

6 A. Staff’s criticism of the Company is unwarranted. On January 20, 2016, Staff received  
7 the Company’s response to Sierra Club’s Data Request No. 11. That request  
8 referenced the Company’s cash coal costs set forth in Exhibit No. RTL-3C and asked  
9 the Company to: “Identify, separately, the elements of Bridger Coal Company’s costs  
10 which are specifically included and excluded in cash costs.” The Company’s  
11 response clearly indicated that amortization, depreciation, and depletion are excluded  
12 from the cash costs used in the Company’s SCR analysis. This data response is  
13 attached as Exhibit No. CAC-4. Staff had this information well before filing its  
14 rebuttal testimony. In addition, my Utah testimony that Mr. Twitchell reviewed  
15 before filing his initial testimony,<sup>32</sup> described in detail how the Company removed  
16 the non-cash operating costs from its SCR analysis.<sup>33</sup>

## 17 CONCLUSION

18 **Q. What is your recommendation to the Commission?**

19 A. The Commission should conclude that the Company’s SCR analysis was robust and  
20 its decision to install SCR systems on Jim Bridger Units 3 and 4 was prudent. The  
21 October 2013 mine plan showed increased operating cash costs, but those increasing

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<sup>31</sup> Twitchell, Exh. No. JBT-28HCT 15:16 – 16:3.

<sup>32</sup> Twitchell, Exh. No. JBT-1T 62:1-4.

<sup>33</sup> Fisher, Exh. No. JIF-8 6:107 – 7:116.

1 costs were substantially offset by decreased capital and third-party costs, and by cost  
2 increases in the two-unit scenario. This shows that changes in coal costs during the  
3 period the SCR analysis was under review were adequately considered before the  
4 FNTF was issued, as demonstrated by the Company in its rebuttal testimony.

5 **Q. Does this conclude your supplemental rebuttal testimony?**

6 A. Yes.