

Public Utility Commission

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August 13, 2012

Via Electronic Filing and U.S. Mail

OREGON PUBLIC UTILITY COMMISSION ATTENTION: FILING CENTER PO BOX 2148 SALEM OR 97308-2148

RE: <u>Docket No. UE 233 Phase II</u> – In the Matter of IDAHO POWER COMPANY Request for General Rate Revision.

Enclosed for electronic filing in the above-captioned docket is the Public Utility Commission Staff's Rebuttal Testimony (redacted).

/s/ Kay Barnes
Kay Barnes
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c: UE 233 Service List (parties)

CERTIFICATE OF SERVICE

UE 233

I certify that I have, this day, served the foregoing document upon all parties of record in this proceeding by delivering a copy in person or by mailing a copy properly addressed with first class postage prepaid, or by electronic mail pursuant to OAR 860-001-0180, to the following parties or attorneys of parties.

Dated this 13th day of August, 2012 at Salem, Oregon

Kay Barnes

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PUBLIC UTILITY COMMISSION OF OREGON

UE 233 - Phase II

STAFF REBUTTAL TESTIMONY OF ERIK COLVILLE

In the Matter of IDAHO POWER COMPANY Request for General Rate Revision.

REDACTED August 13, 2012

CASE: UE 233 WITNESS: ERIK COLVILLE

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 1200

Rebuttal Testimony

August 13, 2012

1 Q. ARE YOU THE SAME ERIK COLVILLE WHO PREVIOUSLY TESTIFIED IN 2 THIS PROCEEDING? 3 Α. Yes. 4 WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY? Q. Α. 5 My rebuttal testimony is intended to address and respond to issues raised in 6 Citizens' Utility Board of Oregon testimony (CUB/300), and Idaho Power 7 Company's reply testimony (Idaho Power/1500 and Idaho Power/1600). 8 DID YOU PREPARE EXHIBITS FOR THIS DOCKET? Q. 9 Α. Yes. I prepared Staff/1201 "Response to CUB Testimony" (consisting of four 10 pages), and Staff/1202 "Capital Cost Comparison" (consisting of one page). 11 **HOW DOES THE COMMISSION DETERMINE PRUDENCE?** Q. 12 Α. "Prudence is determined by the reasonableness of the actions 'based on 13 information that was available (or could reasonably have been available) at the time." (In re PGE, UE 102, Order No. 99-033 at 36-37.)¹ 14 15 Q. IS IT POSSIBLE TO CONCLUDE THAT THE ENVIRONMENTAL 16 COMPLIANCE INVESTMENTS WERE PRUDENT NOTWITHSTANDING 17 **DECISION MAKING PROCESS INFIRMITIES?** 18 A. Yes. The Commission has clarified that "if the record demonstrates that a 19 challenged business decision was reasonable, taking into account 20 established historical facts and circumstances, the utility's decision must be

upheld as prudent even if the record lacks detail on the utility's actual

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¹ See also In re Northwest Natural Gas, UG 132, Order No. 99-697 at 52 ("In this review, therefore, we must determine whether the NW Natural's actions and decisions, based on what it knew or should have known at the time, were prudent in light of existing circumstances.").

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subjective decision making process." (See Order No. 02-469 p. 5; In re

PacifiCorp (Commission adopting PacifiCorp's description of the legal
standard for determining prudence.)) Under this standard, a utility's action
can be prudent even if the process leading up to the decision has infirmities.
A utility's decision process is probative on whether the action itself is prudent,
but under the Commission's prudence standard, the primary focus of the
inquiry is on the reasonableness of the action, not on the process leading to
it.

Q. PLEASE RESTATE WHAT ACTIONS ARE AT ISSUE IN THIS DOCKET.

- A. In 2008, Idaho Power, along with the coal plant unit co-owner PacifiCorp, decided to upgrade the existing scrubbers for the Jim Bridger Unit 3 to improve the removal of sulfur dioxide (SO2) from the plant emissions. In 2008, PacifiCorp issued a Request for Proposals to complete the project and in December 2008, entered into an engineering, procurement and construction (EPC) contract for the upgrade. The work was completed in the spring of 2011, during a planned outage. Idaho Power's share of the capital investment in the project is claimed to be \$8.2 million.
- Q. WAS IDAHO POWER'S ACTION TO INVEST IN THE SCRUBBER

 UPGRADE PROJECT REASONABLE GIVEN WHAT THE COMPANY

 KNEW, OR SHOULD HAVE KNOWN?
- A. The Company's action to proceed with the environmental compliance investments in the Jim Bridger Unit 3 coal fired plant was reasonable. In accordance with the prudence standard, since the action was reasonable, the

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action was prudent.

WHAT IS THE BASIS FOR YOUR CONCLUSION REGARDING THE Q. PRUDENCE OF THE COMPANY'S ACTION?

- As noted in my Staff/1100 testimony there are infirmities in the process Idaho A. Power used to inform its decision to proceed with the Jim Bridger Unit 3 scrubber upgrade project. However, based on information that was available (or could reasonably have been available) to Idaho Power at the time of its decision, the present value revenue requirement differential (PVRR(d)) benefit to customers from the environmental compliance investments for Jim Bridger Unit 3 would have been a This benefit is so large that correcting all the decision-process infirmities identified by CUB and me would not have led Idaho Power to choose to not make the investments at issue.
- PLEASE EXLAIN HOW YOU CAME TO THIS CONCLUSION. Q.
- An updated PVRR(d) analysis was provided in PacifiCorp Docket No. UE 246 A. reply testimony PAC/1500, incorporated into this docket by reference in Idaho Power/1500. PacifiCorp performed a PVRR(d) analysis prior to the time Idaho Power and PacifiCorp made the decision to proceed with the upgrade to Bridger Unit 3, but that analysis assumed the alternative to the upgrade would be idling the plant in 2008 (See Staff/1100, Colville/12 (Discussing 2008 CAI Capital Projects Study for Jim Bridger U3-Dec. 2008)). The updated PVRR(d) analysis revises the assumed coal plant unit idling date to a more appropriate date.

Q. DISCUSS THE ISSUE OF THE DATE PACIFICORP ASSUMED IN ITS

DECISION MAKING ANALYSES FOR IDLING THE JIM BRIDGER UNIT 3

COAL PLANT UNIT.

A. The PacifiCorp PVRR(d) analyses performed for decision making assumed the coal plant unit would be idled in the year of decision making. The result of the assumed idling date is to overstate the PVRR(d) benefit for the coal plant unit from making the environmental compliance investments. While the CUB testimony advocates for using a 2015 idling date as the basis for PVRR(d) analyses, I see the first compliance date in the state permit as a reasonable idling date for use in analysis. The table below presents the state permit compliance date I identified.

Coal Plant Unit	State Permit Compliance Date	State Permit
Jim Bridger Unit 3	June 2011	MD-1552A

Q. DESCRIBE WHAT WAS UPDATED IN AND THE RESULTS OF THE UPDATED PVRR(d) ANALYSES.

A. PacifiCorp updated its PVRR(d) analysis considering a 2014 idling date for the Jim Bridger Unit 3. The selection of a 2014 idling date is later in time than I suggest above but not as late as CUB advocates for. The reason behind selecting 2014 is discussed in PacifiCorp reply testimony (PAC/1500 Teply/4-5). The 2014 idling date appears to be a reasonable analysis compromise.

The updated PVRR(d) analysis provided by PacifiCorp shows a
benefit of State of the Jim Bridger Unit 3. This is a reduction of
approximately compared to its decision making analyses
(which is based on the 2008 idling date).

- Q. IS THE UPDATED PVRR(d) ANALYSIS PERTINENT IF IDAHO POWER
 DID NOT RELY ON THIS ANALYSIS WHEN IT MADE ITS DECISION IN
 2008?
- A. The updated PVRR(d) analysis shows what information was reasonably available to Idaho Power at the time it made its decision. Given that prudence is determined by the reasonableness of the Company's actions based on information that could reasonably have been available at the time, it is pertinent to show what information was reasonably available to inform the Company's decision in 2008. As discussed above, it is not necessary for Idaho Power to show that it relied on this information when making its decision to proceed with the upgrade in order to show its action was prudent. The question is whether Idaho Power, relying on this information, would have decided to proceed with the upgrade. I conclude that the answer to this question is yes.
- Q. DOES THE UPDATED PVRR(d) ANALYSIS CORRECT FOR ALL DECISION MAKING PROCESS INFIRMITIES IDENTIFIED IN THIS DOCKET?
- A. No. However, as already discussed, the PVRR(d) result from proceeding with the investment is so large that that correcting for the remaining infirmities

would not have changed the Company decision to proceed with the investment.

Q. ARE THE DECISION MAKING PROCESS INFIRMITIES THAT YOU AND CUB HAVE IDENTIFIED IRRELEVANT IN THIS DOCKET?

- A. Even though I conclude that correcting for the decision making process infirmities would not have led Idaho Power to a different decision, I think these infirmities are concerning and should be considered by the Commission in this proceeding. As explained below, this docket presents an opportunity for the Commission to clarify its expectations for utilities with respect to environmental compliance investments.
- Q. ARE THERE UPDATES TO YOUR STAFF/1100 TESTIMONY REGARDING IDAHO POWER'S DECISION MAKING PROCESS THAT YOU WISH TO HIGHLIGHT?
- A. Yes. I would like to highlight the following updates to my Staff/1100 testimony.
 The effect of these updates is addressed and incorporated into the remainder of my rebuttal testimony.
 - Contrary to my statements on Staff/1100 page 20 line 14, the Company
 did do sensitivity analysis for variations in the market price of power. As a
 result, I remove that observation from my list of decision making process
 infirmities.
 - On Staff/1100 page 15 line 23, and page 16 line 1 I note that the
 Company analyses considered only one alternative to making
 environmental compliance investments idling a coal plant unit and

replacing it with market power purchases. My Staff/1100 testimony and this rebuttal testimony do not conclude that considering only one alternative to making the investments is a decision making process infirmity. Given that the market price of electricity does not generally include all the fixed and variable costs of generating electricity, had the Company considered a replacement resource such as a combined cycle combustion turbine (CCCT) or refueling the coal plant unit with natural gas, it is likely the PVRR(d) benefit may well have been significantly higher than the Company presented in its testimony. While I have not performed an analysis using replacement resources to verify this possibility, if it is true, then the Company erred on the conservative side in its choice of analyses which used only market power purchases.

- In Staff/1100 testimony I did not consider the impact of the assumed idling date on the PVRR(d) analyses. I conclude the assumed idling date of 2008, rather than the State permit compliance date, is a decision making process infirmity.
- Sensitivity cases for analysis of Best Available Retrofit Technology
 (BART) compliance costs were not analyzed. I consider lack of sensitivity
 analyses to be a decision making process infirmity. Since I did not note
 this specific infirmity in Staff/1100 testimony, I add it to the list of decision
 making process infirmities on Staff/1100 page 20 line 14.
- Q. WHAT IS YOUR RESPONSE TO THE ISSUES RAISED IN THE CUB
 TESTIMONY?

A. I considered each of the issues raised in the CUB testimony. I note that the issues raised are largely the same as those I raised as decision making process infirmities in Staff/1100. Attached to this rebuttal testimony is a summary of the issues CUB raises as well as my responses to those issues that are found in Staff/1100 or this rebuttal testimony (See Staff/1201).

Q. WHY DO YOU NOT INCLUDE THE POSSIBILITY OF A DISALLOWANCE IN YOUR RECOMMENDATIONS?

- A. I do not think the circumstances in this case warrant a disallowance of Idaho Power's investment or some other financial penalty related to Idaho Power's decision making process. Idaho Power's investment was prudent. And, although Idaho Power's decision making process had infirmities, I do not think those infirmities warrant a financial penalty.
- Q. DOES THIS CONCLUDE YOUR TESTIMONY?
- 14 | A. Yes.

CASE: UE 233 WITNESS: ERIK COLVILLE

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 1201

Exhibits in Support Of Rebuttal Testimony

August 13, 2012

A list summarizing the issues raised in the Citizens' Utility Board of Oregon (CUB) testimony (CUB/300) is presented below. My responses follow each issue.

General

1. The analyses should have considered idling the coal plant unit in 2015 (CUB/300 page 12).

Response: This issue is addressed in the body of my rebuttal testimony.

2. The "Boardman" Best Available Retrofit Technology (BART) analysis approach should have been used (CUB/300 pages 8 and 14).

Response: The Boardman approach to BART analysis was not recognized as being beneficial until late 2010, so I do not consider it a precedent for the environmental compliance investment decisions in this docket. I do conclude the decision making process could be better informed by considering the remaining useful life to be a variable, as was done in the Boardman approach to BART analysis. I also recognize that the ability to meaningfully consider alternatives to compliance derived from varying the remaining useful life is likely dependent upon the regulatory environment where the coal plant unit is located. Going forward, I suggest it is the Company's responsibility to prove it is not reasonable to consider the remaining life as a variable in BART analyses.

3. The environmental compliance investments should have been included in on-going analyses rather than being considered sunk and in a piecemeal fashion (CUB/300 pages 3-4 and 10).

Response: The concern is that environmental compliance investments in each coal plant unit are being considered in a "piecemeal" fashion rather than one large project spread over several phases. I am convinced the concern about "piecemeal" consideration of environmental compliance investments extends to all types of serial capital projects and could exist for every resource type — be it a hydroelectric resource, natural gas fired resource, or a coal fired resource that must comply with increasingly stringent regulations. I can also imagine the possibility the concern may apply in the future to a wind, biomass, geothermal, or solar resource.

I do not support piecemeal consideration of capital projects. In fact, the process I identified in Staff/1100 testimony as what a company would use to inform a reasonable business decision (Staff/1100 page 10) includes a "life-cycle" economic analysis. If the process were conducted without infirmities, the life-cycle economic analysis would include every cost reasonably foreseeable. A problem arises because no one has perfect foresight, and concluding what is reasonably foreseeable is a matter of opinion. I find the Idaho Power decision making analyses to have infirmities but not to be a "piecemeal" approach.

4. Environmental compliance investments should have been postponed till the Regional Haze Rule (RHR) is finalized (CUB/300 page 4-5), and the regulatory path was clear (CUB/300 page 13).

Response: With state permit compliance deadlines and impending federal compliance deadlines, I would not consider postponing action while awaiting a clear regulatory path to be reasonable given what information the Company had or reasonably could have had. As a result, such a postponement would not be prudent.

5. The analyses should have considered alternatives beyond market purchases (CUB/300 page 13-14).

Response: I would prefer that more than one alternative be analyzed. However, analysis of one alternative is reasonable. I would like to note that the cost of market power may not represent the full cost of a replacement generating resource. As a result, had the Company considered a replacement resource such as a combined cycle combustion turbine (CCCT) or refueling the coal plant unit with natural gas, the present value revenue requirement differential (PVRR(d)) benefit may have been significantly higher than it was. Thus the Company likely erred on the conservative side in its choice of replacement with market power purchases.

6. The Company failed to revisit analyses as conditions changed (CUB/300 page 13).

Response: As stated in my Staff/1100 and this rebuttal testimony, I consider it a decision process infirmity to not re-evaluate decisions at significant milestones, such as beginning physical construction activities. While I advocate for thorough analyses and revisiting decision making at project milestones, CUB advocates for what could result in decision making paralysis in response to unpredictable electricity markets and a fluid environmental

regulatory situation. Paralyzed decision making would not be prudent.

Specifically related to the market electricity price, looking at the market price of electricity at the time of decision making, I am not convinced Idaho Power or PacifiCorp had a clear picture that prices were on a long term decline as CUB asserts. The market electricity price figure below represents the picture available for decision making in 2009. The 2008 down turn in prices looks similar to the temporary downturn in 2001.



- 7. Capital cost estimates in the analyses were incomplete:
 - Selective Catalytic Reduction (SCR) (CUB/300 page 13).

Response: Based on the PacifiCorp's response to Staff DR No. 138 in Docket No. UE 246, the cost for SCR was included in the decision making analyses.

Capital costs were not updated (CUB/300 page 13).

Response: My comparison of the capital cost estimates used in decision making (response to Docket No. UE 246, Staff DR No. 138) with the capital cost estimates derived by adding the decision making capital cost to the post-2011 capital cost stream included in the coal screening model¹ is reflected on Staff/1202. Based on this comparison, capital cost estimates for Jim Bridger Unit 3 have risen since decision making. The updated PVRR(d) benefit presented in PacifiCorp's Docket No. UE 246 reply

¹ The coal screening model and associated capital cost stream was provided in Docket No. LC 52 as support for and part of the Company's March 30, 2012 Coal Replacement Study Update.

testimony is larger than the alleged missing capital cost so including it would not have changed the business decision.

8. Idaho Power's actions were not prudent (CUB/300 page 15).

Response: This issue is addressed in the body of my rebuttal testimony.

CASE: UE 233 WITNESS: ERIK COLVILLE

PUBLIC UTILITY COMMISSION OF OREGON

STAFF EXHIBIT 1202

Exhibits in Support Of Rebuttal Testimony

August 13, 2012

