

**EXH. RJR-30T
DOCKETS UE-170033/UG-170034
2017 PSE GENERAL RATE CASE
WITNESS: RONALD J. ROBERTS**

**BEFORE THE
WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION**

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

PUGET SOUND ENERGY,

Respondent.

**Docket UE-170033
Docket UG-170034**

**PREFILED REBUTTAL TESTIMONY
(NONCONFIDENTIAL) OF
RONALD J. ROBERTS
ON BEHALF OF PUGET SOUND ENERGY**

AUGUST 9, 2017

PUGET SOUND ENERGY

**PREFILED REBUTTAL TESTIMONY
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1 **PUGET SOUND ENERGY**

2 **PREFILED REBUTTAL TESTIMONY**
3 **(NONCONFIDENTIAL) OF**
4 **RONALD J. ROBERTS**

5 **I. INTRODUCTION**

6 **Q. Are you the same Ronald J. Roberts who submitted prefiled direct testimony**
7 **on January 13, 2017, on behalf of Puget Sound Energy (“PSE”) in this**
8 **proceeding?**

9 A. Yes.

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

11 A. This rebuttal testimony addresses the following:

- 12 (i) mischaracterizations of the planned closure of Colstrip
13 Units 1 and 2 as an “early retirement” of those units;
- 14 (ii) plans of Talen Montana to continue to serve as operator of
15 each of the Colstrip units;
- 16 (iii) PSE intention to work with Talen Montana to create a plan
17 that maintains the usefulness of Colstrip Units 1 and 2,
18 ensures that Talen Montana continues to operate the units
19 in a safe manner, and excludes work that would extend the
20 life of Colstrip Units 1 and 2 beyond their identified
21 retirement date;
- 22 (iv) reasons why the arguments of the Industrial Customers of
23 Northwest Utilities (“ICNU”) regarding the wet ash
24 disposal system for Colstrip Units 1 and 2 are misplaced;
- 25 (v) PSE’s intent to continue to be involved in the community
26 of Colstrip, Montana for the foreseeable future; and

1 (vi) updates to PSE's production operation and maintenance
2 ("O&M") costs.

3 **II. COLSTRIP**

4 **A. Parties Mischaracterize the Planned Closure of Colstrip Units 1 and 2**
5 **as an "Early Retirement" of Those Units**

6 **Q. Are parties to this proceeding correct in characterizing the closure of**
7 **Colstrip Units 1 and 2 no later than mid-2022 as "early retirement" of those**
8 **units?**

9 A. No. Parties to this proceeding have mischaracterized the closure of Colstrip
10 Units 1 and 2 no later than mid-2022 as "early retirement" of those units.¹
11 Colstrip Units 1 and 2 began operations in 1975 and 1976, respectively, and a
12 scheduled closure of units over forty-five years after they began operations is not
13 an "early retirement".

14 It appears that parties use the phrase "early retirement" in relation to depreciation
15 schedules for Colstrip Units 1 and 2 established in Docket UE-072300
16 ("2007 GRC"). In the 2007 GRC PSE recommended the use of depreciation
17 schedules that projected service lives of the Colstrip units of between forty and
18 forty-five years. Specifically, PSE's proposed depreciation schedule in the 2007
19 GRC projected that Colstrip Units 1 and 2 would retire in 2019, Colstrip Unit 3
20 would retire in 2024, and Colstrip Unit 4 would retire in 2026. PSE's
21 recommended depreciation schedules in the 2007 GRC expressly took into

¹ See, e.g., Hancock, CSH-1CT at 21:13 – 22:3; McGuire, Exh. CRM-1T at 16:13-21; Mullins, Exh. BGM-1CT at 4:1 – 25:22; Power, Exh. TMP-1T at 17:26 – 20:25.

1 consideration the physical condition, capital expenditures, fuel supply, and
2 environmental and other regulations affecting the units. Although the settlement
3 approved by the Washington Utilities and Transportation Commission
4 (“Commission”) in the 2007 GRC generally accepted the results of an updated
5 depreciation study commissioned by PSE, the settlement reflected adjustments
6 from the Company’s rebuttal filing to reflect WUTC Staff’s (“Staff”) and Public
7 Counsel’s proposed Colstrip depreciable life of 60 years:

8 Another significant feature of the overall settlement is the parties’
9 agreement to accept the results of an updated depreciation study
10 commissioned by PSE, with one adjustment, for purposes of
11 resolving this case. The electric depreciation rates have been
12 adjusted from the Company’s rebuttal filing to reflect Staff’s and
13 Public Counsel’s proposed Colstrip depreciable life of 60 years.

14 Since PSE identified a likely retirement date of 2019 for Colstrip Units 1 and 2 in
15 the 2007 GRC, a number of additional factors have affected the economic lives of
16 Colstrip Units 1 and 2.

17 The U.S. Environmental Protection Agency’s Regional Haze Rule, which relies
18 on the Best Available Retrofit Technology standard, has been applied and
19 implemented in Montana. Analysis of the Regional Haze Rule suggest that the
20 retirement of Colstrip Units 1 and 2 ensures that Colstrip Units 3 and 4 would
21 meet future requirements, without costly emission control equipment additions.

22 Talen Montana and PSE also considered the federal Clean Power Plan compliance
23 requirements (since stayed) when considering retirement dates for Colstrip
24 Units 1 and 2. Additionally, the Coal Combustion Residuals Rule and the
25 Administrative Order on Consent between all of the Colstrip owners and the

1 Montana Department of Environment Quality placed restrictions and obligations
2 on Colstrip Units 1 and 2 that were not foreseen in 2007.

3 In deciding on a planned retirement date of mid-2022, PSE also took into account
4 a myriad of other factors, such as (i) coal supply arrangements for Colstrip
5 Units 1 and 2, (ii) overall energy markets, (iii) potential tax and policy changes by
6 state and federal governments, (iv) future costs for water management; and (v) the
7 commitment of Talen Montana to continued operations of Colstrip Units 1 and 2.

8 Additionally, it is important to note that the expected lives of Colstrip Units 1 and
9 2—first generation coal plants designed for lower quality Powder River Basin
10 coal—was 25-30 years. Colstrip Units 1 and 2 have now reached over 40 years of
11 service life, and the assumption that these units could continue to run for another
12 two decades is optimistic, at best. It would be a mischaracterization to suggest
13 that a planned retirement date of mid-2022 for Colstrip Units 1 and 2 is an “early
14 retirement” of those units.

15 Much has changed in the electricity industry in the last decade with respect to
16 coal-fired generating units. In agreeing to retire Colstrip Units 1 and 2 no later
17 than mid-2022, PSE fulfilled its obligation to evaluate its generation portfolio and
18 respond to market, legal, and regulatory pressures.

19 **Q. Are the issues discussed above for Colstrip Units 1 and 2 pertinent to**
20 **Colstrip Units 3 and 4?**

21 A. Yes. The issues discussed above for Colstrip Units 1 and 2 are pertinent to
22 Colstrip Units 3 and 4. Foremost, ever-changing market and economic forces

1 affect Colstrip Units 3 and 4. PSE's 2013 Integrated Resource Plan identified
2 three risk factors as influences on Colstrip – carbon pricing, coal combustion
3 residuals disposal costs, and natural gas prices. Even in the absence of carbon
4 pricing, low natural gas prices and increased penetration of renewable energy and
5 periods of negative pricing have eroded some of the traditional cost advantage
6 that Colstrip Units 3 and 4 enjoyed vis-à-vis wholesale electricity prices.
7 Moreover, there have been numerous proposals to implement carbon pricing in
8 Washington State, and PSE must continue to be vigilant in its evaluation of the
9 value of Colstrip Units 3 and 4 in light of these changing circumstances.

10 Finally, policy decisions in other jurisdictions also could affect the economic lives
11 of Colstrip Units 3 and 4. For example, the State of Oregon passed a legislative
12 measure in 2016 that requires Oregon-serving utilities to remove coal-fired
13 generation resources for their electric allocation by 2030. At this time, PSE does
14 not know if or how this measure will affect the operations of other co-owners of
15 Colstrip Units 3 and 4 affected by this Oregon legislation (i.e., Portland General
16 Electric Company and PacifiCorp). Additionally, environmental regulations at
17 federal and state levels continue to evolve that could affect Colstrip Units 3 and 4.

18 **Q. Have any decisions been made regarding planned retirement of Colstrip**
19 **Units 3 and 4?**

20 A. No. No decisions have been made regarding planned retirement of Colstrip
21 Units 3 and 4. Operational costs for Colstrip Units 1 and 2 are different than
22 operating costs for Colstrip Units 3 and 4. Coal fuel costs for Colstrip Units 1 and

1 2 are higher than coal fuel costs for Colstrip Units 3 and 4 due to the mining area
2 utilized for Colstrip Units 1 and 2 and the cost of coal transport. Also, Colstrip
3 Units 1 and 2 are older than Colstrip Units 3 and 4, and the two sets of units have
4 different generation and environmental technologies.

5 Each of PSE and Talen Montana has an undivided 50 percent ownership of
6 Colstrip Units 1 and 2. Therefore, any disagreement between PSE (a regulated
7 utility) and Talen Montana (a merchant generator) would result in a deadlock
8 between two entities with different business obligations. Talen Montana and PSE
9 are wholly different business models. Talen Energy is a merchant generator,
10 running plants to sell energy into the open market. Talen Montana makes money
11 when the cost of production of Colstrip Units 1 and 2 is lower than prevailing
12 wholesale electricity prices. PSE is a regulated utility with an obligation to serve
13 customers. Therefore, PSE places a greater value on reliability and capacity than
14 would a merchant generator, while also valuing low-cost production.

15 The ownership structure of Colstrip Units 3 and 4 is significantly different than
16 the ownership structure of Colstrip Units 1 and 2. For example, each of PSE and
17 Talen Montana has an undivided 50 percent ownership of Colstrip Units 1 and 2.
18 Therefore, any disagreement between PSE (a regulated utility) and Talen
19 Montana (a merchant generator) would result in a deadlock between two entities
20 with different business obligations. Colstrip Units 3 and 4, however, are
21 predominately owned by five regulated utilities with obligations to serve their
22 customers and a merchant generator.

1 In short, Colstrip Units 3 and 4 owners must make a consensus decision to seek a
2 retirement date for those units, and no decision has been made on a future
3 retirement date.

4 **B. Talen Montana Will Serve as Operator of Each of Colstrip Units 1**
5 **and 2 and Colstrip Units 3 and 4 and Has Indicated Intentions to**
6 **Maintain Operations at Colstrip Units 1 and 2 Until the Scheduled**
7 **Retirement Date in Mid-2022**

8 **Q. Can you provide an update on the ownership of Talen Montana?**

9 A. Riverstone Holdings LLC (“Riverstone”) acquired Talen Energy (the parent
10 company of Talen Montana) in December 2016. Since that time, Riverstone has
11 been familiarizing itself with the assets that came with Talen Energy, including
12 the interests of Talen Montana in Colstrip Units 1 and 2 and Colstrip Units 3 and
13 4. Additionally, Riverstone has made significant changes in the management
14 structure of Talen Energy. Riverstone has changed the executive team that had
15 been overseeing Talen Montana, and a new executive team is now addressing
16 Talen Montana’s interests in the Colstrip units.

17 **Q. Can you provide an update on the role of Talen Montana as operator of each**
18 **of Colstrip Units 1 and 2 and Colstrip Units 3 and 4?**

19 A. By letter dated June 19, 2017, Talen Montana provided the other owners of
20 Colstrip Units 3 and 4 with notice of withdrawal of Talen Montana’s prior
21 resignation as operator of those units.² In July 2017, the owners of Colstrip

² See Smith, Exh. RCS-10C at 19-20.

1 Units 3 and 4 considered and accepted the withdrawal of Talen Montana's prior
2 resignation as operator of those units. Furthermore, Talen Montana has also
3 recently indicated intentions to seek new customers for generation from its share
4 of Colstrip Units 1 and 2 and to maintain operations at Colstrip Units 1 and 2 until
5 the scheduled retirement date in mid-2022.

6 **Q. Has any party to this proceeding made a recommendation regarding the**
7 **recovery of costs incurred by PSE in response to Talen Montana's prior**
8 **notice of withdrawal as operator of the Colstrip units?**

9 A. Yes. Public Counsel's testimony recommends that PSE remove all of its out-of-
10 pocket costs related to efforts to transition to a new operator of the Colstrip units
11 from the revenue requirement in the current rate case and to collect those costs
12 from Talen Montana.³ This recommendation results from an offer for
13 reimbursement by Talen Montana in the letter dated June 19, 2017:

14 Additionally, as a gesture of good faith and to remedy the financial
15 impacts resulting from the notice of intent to resign, Talen
16 Montana is prepared to reimburse the other owners for their
17 reasonable out-of-pocket costs incurred to date related to the effort
18 to transition to a new operator, including the fees paid to the
19 Owners' joint legal counsel, up to \$225,000 in the aggregate.⁴

20 PSE will be working with the other co-owners of Colstrip Units 3 and 4 to seek
21 reimbursement from Talen Montana for costs associated with pursuing a new
22 operator for the Colstrip units. PSE would note that the majority of external costs

³ Smith, Exh. RCS-1CT at 75:2-6.

⁴ Smith, Exh. RCS-10C at 20.

1 associated with the work to transition the role of operator of the Colstrip units
2 began after September 30, 2016, and are not included in the revenue requirement
3 in this proceeding.

4 **C. PSE Will Work with Talen Montana to Create a Plan that Maintains**
5 **the Usefulness of Colstrip Units 1 and 2, Ensures that Talen Montana**
6 **Continues to Operate the Units in a Safe Manner, and Excludes Work**
7 **that Would Extend the Life of Colstrip Units 1 and 2 Beyond Their**
8 **Identified Retirement Date**

9 **Q. Will operating and capital costs for Colstrip Units 1 and 2 change between**
10 **present day and the retirement of those units?**

11 A. As operator, Talen Montana provides the budget for of Colstrip Units 1 and 2
12 operations. Given the settlement agreement that fixes a retirement date for
13 Colstrip Units 1 and 2 of not later than July 1, 2022, the adopted budget for 2017
14 reflects reductions in capital spending.

15 **Q. Have Talen Montana and PSE discussed the need to evaluate budgeting in**
16 **light of the planned retirement of Colstrip Units 1 and 2?**

17 A. Yes. Talen and PSE have discussed the need to evaluate budgeting in light of the
18 planned retirement of Colstrip Units 1 and 2. Although Talen Montana and PSE
19 will evaluate budgets with the future retirement in mind, they will not pursue cost
20 measures that could sacrifice safety. Indeed, Talen Montana must operate Colstrip
21 Units 1 and 2 in a manner that puts the safety of workers as the top priority. PSE
22 will work with Talen Montana to create a plan that (i) ensures that Talen Montana
23 continues to operate Colstrip Units 1 and 2 in a safe manner; (ii) maintains the

1 usefulness of Colstrip Units 1 and 2; and (iii) excludes work that would extend the
2 life of Colstrip Units 1 and 2 beyond their identified retirement date.

3 **Q. Does any party make any recommendations regarding future capital**
4 **spending for Colstrip Units 1 and 2?**

5 A. Yes. ICNU's testimony suggests that PSE accrue any additional capital
6 expenditures at Colstrip Units 1 and 2 into an unrecovered investment balance,
7 subject to review by the Commission.⁵ Please see the Prefiled Rebuttal Testimony
8 of Katherine J. Barnard, Exh. KJB-17T, for PSE's response to the ICNU proposal.

9 **D. ICNU's Arguments Regarding the Wet Ash Disposal System for**
10 **Colstrip Units 1 and 2 Are Misplaced**

11 **Q. Why was a wet ash disposal system selected in lieu of a dry ash disposal**
12 **system for Colstrip Units 1 and 2?**

13 A. Colstrip Units 1 and 2 were designed to burn low-sulfur, subbituminous coal from
14 the adjacent Rosebud coal mine. Yet even with the low sulfur coal, Colstrip
15 Units 1 and 2 needed to install additional pollution control technology to meet the
16 NSPS Subpart D requirements. The owners of Colstrip Units 1 and 2 chose a
17 then-state-of-the art wet Venturi scrubber as an integrated system to control sulfur
18 dioxide and particulate matter to levels well below that required by the Clean Air
19 Act. The system used the naturally high alkalinity of the fly ash created by coal
20 combustion to assist in the removal of sulfur dioxide.

⁵ Mullins, Exh. BGM-1CT at 22:4-13.

1 At the time of development of Colstrip Units 1 and 2, wet scrubbing technology
2 was the primary control option available to reduce sulfur dioxide from flue gas.
3 By using each unit's own fly ash to control sulfur dioxide, the system was able to
4 significantly reduce sulfur dioxide without the need for lime or other additives.

5 **Q. Were dry ash disposal systems commercially available at the time of the**
6 **development of Colstrip Units 1 and 2?**

7 A. No. Dry scrubbing was not commercially available at the time of the development
8 of Colstrip Units 1 and 2. Indeed, even by mid-1979, the U.S. Environmental
9 Protection Agency described dry scrubbing as an emerging technology, and noted
10 that there were no full scale dry scrubbers in operation at any utility plant.⁶ The
11 wet scrubbers at Colstrip Units 1 and 2 substantially exceeded their design
12 specifications and were able to reduce emissions to levels well below required
13 amounts. Over the forty years that Colstrip Units 1 and 2 have been in operation,
14 the wet scrubbers have continued to maintain the units in compliance with the
15 Clean Air Act's requirements and have aided in Montana's compliance with
16 ambient air quality standards.

⁶ New Stationary Source Performance Standards: Electric Utility Steam Generating Units, 44 Fed. Reg. 33,580, 33,594 (June 11, 1979).

1 **Q. Could the owners of Colstrip Units 1 and 2 elected to install a dry ash**
2 **disposal system at the time of the development of Colstrip Units 1 and 2?**

3 A. No. Although ICNU criticizes the use of wet ash disposal system selected in lieu
4 of a dry ash disposal system at Colstrip Units 1 and 2,⁷ it would have been
5 impossible for PSE to foresee and approve a more expensive, emerging
6 technology versus a lower-cost, proven and commercially available technology at
7 the time of the development of Colstrip Units 1 and 2 in the late 1960s.

8 Furthermore, the ICNU testimony fails to consider other environmental
9 regulations that Colstrip Units 1 and 2 must meet, such as air pollution standards.

10 At the time of the construction of Colstrip Units 1 and 2, the Venturi (with alkali
11 chemical) system was state of the art scrubber technology. In the application for a
12 Construction Permit to the Montana Department of Health and Environmental
13 Services for Colstrip Units 1 and 2, the gas scrubbing system specification are
14 listed, and the note in Item II of the document states:

15 This equipment will be guaranteed to limit particulate emissions
16 to .018 grains per actual cubic foot and to limit sulfur oxide
17 emissions to 1.0 lbs per million Btu input over the entire operating
18 range of the power plant.

19 Please see the First Exhibit to the Prefiled Rebuttal Testimony of Ronald J.
20 Roberts, Exh. RJR-31, for a copy of the application for a Construction Permit to
21 the Montana Department of Health and Environmental Services for Colstrip
22 Units 1 and 2.

⁷ Mullins, Exh. BCM-1CT at 17:12 – 19:10.

1 In short, the wet ash disposal system ensured that Colstrip Units 1 and 2 would
2 meet the then-existing Clean Air Act performance standards.

3 **Q. Could the owners of Colstrip Units 1 and 2 subsequently elected to install a**
4 **dry ash disposal system?**

5 A. It may be that the ICNU testimony argues that the owners of Colstrip Units 1 and
6 2 could have elected to install a dry ash disposal system for the second stage of
7 the ponds. The Study of Alternate Ash Disposal Methods For Colstrip Units No. 1
8 and No. 2, issued by The Montana Power Company in February 1985, clearly
9 states in section 4.2 that the wet ash disposal system was the superior choice at
10 that time:

11 The choice of which of the two main disposal methods the
12 Company should pursue was made fairly simple due to the
13 magnitude of the cost differential between them. The pond method
14 is less expensive on a levelized annual basis by a margin ranging
15 from \$283,000 per year to as much as \$1,907,000 per year. This
16 difference amounts to millions of dollars over the 25-year life of
17 the project. It was determined, therefore, that this cost advantage of
18 the pond method far outweighed the disadvantages associated with
19 it. Only if the levelized annual costs were nearly equal, would
20 there be a need to assign an importance level to each advantage
21 and disadvantage and make an evaluation based on such
22 weighting.⁸

23 Please see the Second Exhibit to the Prefiled Rebuttal Testimony of Ronald J.
24 Roberts, Exh. RJR-32, for a copy of the Study of Alternate Ash Disposal Methods
25 For Colstrip Units No. 1 and No. 2, issued by The Montana Power Company in
26 February 1985. Furthermore, the report also states in addressing the advantages

⁸ Roberts, Exh. RJR-32 at 72-73.

1 and disadvantages of each system that “the differences (e.g. permitting) are
2 difficult to quantify [sic] and are quite subjective.”⁹

3 Finally, the ICNU testimony adds its own qualifier in stating that the wet disposal
4 option carried a “significant risk of groundwater contamination.”¹⁰ This is a
5 mischaracterization of the report’s ultimate conclusions and takes certain areas
6 out of context regarding groundwater. Although the report acknowledges pond
7 seepage and groundwater as environmental considerations, it ultimately
8 recommends pond construction (i.e., wet disposal) and groundwater monitoring
9 programs. Further, the report makes no in-depth comparison between the risks of
10 groundwater contamination and associated costs of installing a wet versus dry
11 disposal system. The report simply states that wet (pond) disposal has a “Greater
12 potential for groundwater impacts” while dry disposal has “Less potential for
13 groundwater impacts.”¹¹ Overall, the report recommends wet ash disposal, and
14 there is no basis to suggest that the owners of Colstrip Units 1 and 2 should have
15 elected a dry ash disposal system at the time the second stage ponds were
16 developed.

⁹ Roberts, Exh. RJR-32 at 71.

¹⁰ Mullins, Exh. BCM-1CT at 17:1.

¹¹ Roberts, Exh. RJR-32 at 72.

1 **E. PSE Will Continue to be Involved in the Community of Colstrip,**
2 **Montana for the Foreseeable Future**

3 **Q. How does PSE see its future involvement in the community of Colstrip,**
4 **Montana?**

5 A. As pointed out in the testimony of NW Energy Coalition, Renewable Northwest,
6 and Natural Resources Defense Council,¹² PSE has been a long-standing business
7 partner in the community of Colstrip, Montana. Over the past four decades, PSE
8 has provided the financial support for the construction and operation of Colstrip
9 Units 1 through 4 over four decades. At the time of the design and construction of
10 Colstrip Units 1 and 2, the coal mining operations in Colstrip, Montana, had been
11 shuttered for more than a decade. Colstrip Units 1 and 2 gave the area a renewed
12 economic opportunity, also linked to coal. PSE recognizes that Colstrip Units 1
13 and 2 have been a significant contributor to the direct and indirect tax base in
14 Montana and provided good family wage jobs for Colstrip, Montana.

15 In creating the Coal Severance Tax Fund to provide ongoing financial resources
16 for the state and its citizens, Montanans foresaw the day when coal use would
17 decline or the resource would be depleted. The time for declining coal use has
18 come, pushed by lower natural gas costs, increased use of renewable generation,
19 changing public opinion change on coal usage, and environmental regulation
20 applicable to coal-burning facilities. The Coal Severance Tax Fund relies on the
21 15 percent coal severance tax which is paid though each ton of coal the owners

¹² See generally Powers, Exh. TMP-1T.

1 supply to the Colstrip units. This coal tax helps support Montana now and will for
2 years to come.

3 As the operator of Colstrip Units 1 through 4, Talen Montana provides a safe and
4 productive work environment to its employees. When Colstrip Units 1 and 2
5 retire, approximately a third of the current capacity of the Colstrip units will be
6 shuttered. Talen Montana has agreed with PSE's position that, as an integrated
7 workforce, Talen Montana must provide a worker transition plan that respects
8 long-standing employees and maintains a successful operation of Colstrip Units 3
9 and 4. Talen will be managing Colstrip Units 3 and 4 to provide as little
10 disruption to employees as possible.

11 As the nation transitions away from coal generation, the federal government has
12 recognized the impact that closure of coal units can have on communities.

13 Montana Governor Steve Bullock recently announced a \$4.6 million dollar grant
14 obtain through the POWER program at the U.S. Department of Labor. The grant
15 is targeted to help with work-force training in communities affected by coal
16 industry decline. This grant may be helpful to those in the community of Colstrip.
17 Montana, who choose to train for a future time when coal jobs in general are in
18 shorter supply.

19 Economic diversification will be important for the long term future of Colstrip,
20 Montana. The community has taken on this work seriously. The city and the
21 Southeastern Montana Development Corporation have already produced a
22 Colstrip Economic Diversification Strategy. The plan is an organic document that

1 received the input of the residents and workers in the area and takes into account
2 what they see in their future. PSE looks forward to supporting this effort and
3 others to support Colstrip, Montana.

4 III. PRODUCTION O&M

5 **Q. Are you proposing any changes to production O&M in this rebuttal?**

6 A. Yes. PSE is proposing two adjustments to production O&M. These adjustments
7 reduce production O&M from \$147.0 million in the initial filing to \$145.4 million
8 in the rebuttal filing. This results in a reduction of \$1.6 million.

9 **Q. What is the nature of these reductions?**

10 A. The first adjustment is a reduction to amortization associated with major
11 maintenance for Colstrip Units 1 and 2. The amortization period for the
12 2017 outage for Colstrip Unit 1 has been extended from 36 months to 60 months.
13 The amortization period for the 2018 outage for Colstrip Unit 2 has been extended
14 from 36 months to 48 months. The amortization period for both of these events
15 now extend to the projected closing date in mid-2022.

16 **Q. What is nature of the second adjustment?**

17 A. The second adjustment is a reduction of hydroelectric license O&M from
18 \$3.495 million to \$2.903 million; a reduction of \$0.591 million. The initial filing
19 was based on rate year budgeted license O&M. Hydroelectric license O&M in the
20 rebuttal is based on test year actual license O&M.

1 **Q. Why is PSE reducing hydroelectric license O&M from the amount you**
2 **presented in your prefiled direct testimony?**

3 A. Staff recommends that the Commission adjust PSE's O&M amounts related to
4 licensing activities for PSE's Baker and Snoqualmie Hydroelectric Projects
5 because these projects have experienced a history of significant swings in budget
6 to actual expenses. Therefore, as Staff explains, PSE should eliminate forecasted
7 rate year licensing expenses for the Baker and Snoqualmie Hydroelectric Projects
8 because, in Staff's opinion, they are not sufficiently known and measurable.¹³

9 Although PSE believes that its budgeted hydroelectric licensing expenses are
10 sufficiently known and measurable, and although PSE's process is consistent with
11 the ratemaking treatment that has been approved by the Commission in past rate
12 proceedings, PSE finds Staff's recommendation reasonable in light of the historic
13 swings in budget versus actual expenses for these hydroelectric projects.

14 **IV. CONCLUSION**

15 **Q. Does this conclude your rebuttal testimony?**

16 A. Yes.

¹³ Gomez, Exh. DCG-1CT at 11:5 – 13:12.