

**Exh. JLB-1T
Dockets UE-190334, UG-190335,
and UE-190222
Witness: Jason L. Ball**

**BEFORE THE WASHINGTON
UTILITIES AND TRANSPORTATION COMMISSION**

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

**AVISTA CORPORATION, d/b/a
AVISTA UTILITIES,**

Respondent.

**DOCKETS UE-190334, UG-190335,
and UE-190222 (*Consolidated*)**

TESTIMONY OF

Jason L. Ball

**STAFF OF
WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION**

*Cost of Service, Electric and Natural Gas
Rate Spread, Electric and Natural Gas
Rate Design, Electric and Natural Gas*

October 3, 2019

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1 **I. INTRODUCTION**

2

3 **Q. Please state your name and business address.**

4 A. My name is Jason L. Ball, and my business address is 621 Woodland Square Loop
5 SE, Lacey, Washington, 98503. My business mailing address is P.O. Box 47250,
6 Olympia, Washington, 98504-7250. My business email address is
7 jason.ball@utc.wa.gov.

8

9 **Q. By whom are you employed and in what capacity?**

10 A. I am employed by the Washington Utilities and Transportation Commission
11 (Commission) as the Deputy Assistant Director in the Energy Section of the
12 Regulatory Services Division.

13

14 **Q. How long have you been employed by the Commission?**

15 A. I have been employed by the Commission since June 2013.

16

17 **Q. Please state your qualifications to provide testimony in this proceeding.**

18 A. I earned a degree from New Mexico State University in 2010 with a dual major in
19 Economics and Government. In 2013, I graduated with honors from New Mexico
20 State University with a Master of Economics degree specializing in Public Utility
21 Policy and Regulation. Since that time I have worked on multiple major projects at
22 the Commission including: leading the inquiry into reliability reporting, under
23 Docket UE-190027; developing cost of service rules through the ongoing

1 rulemakings in Dockets UE-170002 and UG-170003; and leading the Washington
2 negotiation team for the Pacific Power & Light Company's (Pacific Power) multi-
3 state process.

4
5 **Q. Have you testified previously before the Commission?**

6 A. Yes. I testified on cost of service, rate spread, and rate design for both electric and
7 natural gas in Puget Sound Energy's (PSE's) 2017 general rate case (UE-170033 and
8 UG-170034) and the general rate case filed by Avista Corporation d/b/a Avista
9 Utilities ("Avista" or "Company") in Docket UE-160228. I sponsored testimony in
10 Pacific Power's general rate case in Docket UE-152253 on overall policy, revenue
11 requirement, decoupling mechanism, and proposed rate plan. I presented power
12 supply and load forecasting testimony in Avista's general rate case in Docket UE-
13 140188. I presented an economic feasibility study relating to line extensions for PSE
14 in Docket UE-141335.

15
16 **II. SCOPE AND SUMMARY OF TESTIMONY**

17
18 **Q. What is the scope and purpose of your testimony?**

19 A. I address Avista's proposed electric and natural gas cost of service studies, rate
20 spread, and rate design.

21
22 **Q. Please summarize your recommendations.**

23 A. *Electric and Natural Gas Cost of Service*

- 1 • The Company’s cost of service models are adequate for this case, considering the
2 progress being made in the cost of service rulemaking, Dockets UE-170002 and
3 UG-170003.

4 *Electric and Natural Gas Rate Spread*

- 5 • I recommend that rate spread be used to correct the alarming disparity in cost
6 assignment between residential ratepayers and almost all other Avista ratepayers.
7 However, my proposal is limited to addressing unfair cost allocations among
8 classes that are more than 10 points above or below parity.

- 9 • My proposed rate spread is based on Staff’s recommended revenue requirement.
10 If the Commission authorizes a revenue requirement at or near the Company’s
11 requested amount, I recommend the Commission use the Company’s proposed
12 rate spread for both electric and natural gas.

13 *Electric Rate Design*

- 14 • I recommend the Commission accept the company’s proposed electric rate
15 design changes.
- 16 • I recommend that Avista collaborate with interested customers to develop a
17 banded rate schedule. If the Company does not agree to a collaborative
18 development of a banded rate schedule, I propose to change the rate design of
19 schedule 25 and create a new schedule.

20 *Natural Gas Rate Design*

- 21 • I recommend the Commission accept the company’s proposed natural gas rate
22 design changes.

- 1 • I recommend Avista perform updated economic bypass alternatives for all
2 special contract customers on schedule 148 by May 1, 2021.

3

4 **III. ELECTRIC AND NATURAL GAS COST OF SERVICE STUDIES**

5

6 **A. Background for Understanding Cost of Service Studies**

7

8 **Q. What is a cost of service study?**

9 A. A cost of service study (COSS) identifies the costs to serve the customers of each
10 schedule and compares the costs to the total revenue provided by each schedule. The
11 rate base, revenue, and expenses are divided proportionally based on the service
12 provided to each group of customers. This allows rates to be set properly for
13 individual customer groups, called customer classes.

14 A COSS principally relies on cost causation for assigning costs. However,
15 multiple methodologies exist for assigning costs to individual customer classes. Each
16 of these methodologies has a variety of strengths and weaknesses. Due to this and
17 other ongoing issues with COSS, the Commission is currently engaged in a
18 rulemaking to address cost of service.

19

20 **Q. Please provide the status of the cost of service rulemaking in Dockets UE-**
21 **170002 and UG-170003.**

22 A. The cost of service rulemaking is progressing well due to collaborative effort with
23 participating stakeholders, including Avista. The Commission held a workshop on

1 September 25th, 2019 to discuss informal draft rules and other concepts with the
2 parties.

3
4 **Q. How does a COSS affect rates?**

5 A. A COSS is a useful guide for determining a rate spread that allows the Company to
6 recover the appropriate level of revenue from each customer class. In rate design, the
7 breakdown among fixed basic, demand, and volumetric charges is informed by the
8 division of costs into each functional category. The principle outputs of a COSS, the
9 revenue-to-cost ratio and parity ratio, are important inputs into developing cost-based
10 rates. The Commission considers the COSS results along with other factors to
11 determine rate spread and rate design.

12
13 **Q. Please describe the revenue-to-cost ratio and parity ratio.**

14 A. Cost of service (COS) studies identify the costs incurred to service particular classes
15 of customers, and provide a roadmap for how to spread the change in revenue
16 requirement amongst customers. Two important results from a cost of service study
17 inform equitable cost allocation for each customer class: the revenue-to-cost ratio
18 and the parity ratio.

- 19 1) Revenue-to-cost ratio shows how much of a class' costs, as identified in the
20 COSS, are recovered with test-year revenues. When the revenue-to-cost ratio
21 does not equal one, a subsidy is occurring between customer classes. The
22 revenue-to-cost ratio describes the relationship between costs and revenues *as*
23 *they exist today.*

1 2) Parity ratio adjusts the revenue-to-cost ratio to reflect the new proposed revenue
2 requirement. Parity serves as a starting point for assigning class responsibility
3 for the proposed revenue requirement increase. The parity ratio describes the
4 relationships between costs and revenue *as they may exist in the upcoming rate*
5 *year.*

6
7 **B. Avista’s Use of Return Ratios**

8
9 **Q. Did the company provide parity ratios in its direct testimony?**

10 A. No. The Company presented the relative rate of return ratio for electric and natural
11 gas customers. The rate of return ratio shows the relationship between a class’
12 profitability and the profitability of the entire system.

13
14 **Q. Please explain why this is misleading.**

15 A. Avista is presenting how *profitable* a class is, not the percentage of the *cost of*
16 *service* that class is paying. The resulting ratios are significantly different than the
17 parity ratios for each class. Presenting these results in place of parity ratios could
18 lead to the wrong cost assignment based on a balance of the factors the Commission
19 considers in rate spread (outlined below). The tables below compare the rate of
20 return ratio as presented by Avista to their respective parity ratio.

21 **Table 1 – Electric Parity Ratios vs. Relative Return Ratio**

Rate Schedule	Relative Return Ratio <i>(As presented by Avista)</i>	Parity Ratio
Residential Service, 1-2	0.43	0.87
General Service, 11-12	2.24	1.29
Large General Service, 21-22	1.55	1.13
Extra Large General Service, 25	1.08	1.02

Pumping Service, 31-32	0.85	0.96
Street and Area Lights, 41-48	1.14	1.05

Table 2 – Natural Gas Parity Ratios vs. Relative Return Ratio

Rate Schedule	Relative Return Ratio <i>(As presented by Avista)</i>	Parity Ratio
General Service, 101	0.68	0.92
Large General Service, 111-112	2.68	1.56
Interruptible Service, 131-132	2.19	1.40
Transportation Service. 146	1.14	1.05

1

2

As these tables illustrate, there is a stark difference between relative return ratio and parity ratio which could lead to disparate outcomes when allocating costs.

3

4

5

Q. What are the principles the Commission uses in setting rate spread?

6

A. The Commission has laid out several important factors that the Commission routinely considers in establishing rate spread:

7

8

[D]etermining an appropriate rate spread requires consideration of a number of factors and is not the result of pure arithmetic calculations. Of course we consider the results of a valid COSS with the goal of ensuring that each customer class bears the burden of the costs it imposes on the utility. However we also consider principles of rate stability, gradualism, and the avoidance of rate shock.¹

9

10

11

12

13

14

I have compiled the following list of factors the Commission considers in setting rate spread:²

15

16

- Fairness
- Perceptions of equity
- Economic conditions in the service territory
- Gradualism
- Avoidance of rate shock
- Rate stability

17

18

19

20

21

¹ *Wash. Utils. & Transp. Comm'n v. PacifiCorp d/b/a Pacific Power & Light Company*, Docket UE-100749, Order 06, 109, ¶ 315 (March 25, 2011) (2010 Pacific Power GRC Order).

² *Id.*, see also, *Wash. Utils. & Transp. Comm'n v. Puget Sound Energy, Inc.*, Dockets UE-111048 & UG-111049, Order 08, 124-25, ¶ 350 (May 7, 2012) (2011 PSE GRC Order).

1 **Q. How have you applied these principles to your recommendations?**

2 A. In general, I focus on the first two factors. I believe that the COSS results show that a
3 significant number of the Company's customers are suffering from cross-class
4 subsidization. Therefore, I strongly recommend making meaningful movement for
5 these classes towards more appropriate rate levels.

6 However, I cannot and do not ignore the other factors. Regarding economic
7 conditions, gradualism, and rate shock, I tie my rate spread to Staff's proposed
8 revenue requirement. In contrast, the Company's proposed revenue requirement
9 represents too large of rate change to make meaningful corrections to rate parity
10 without creating rate shock.

11 Finally, I agree with the Company's proposed rate design changes, which are
12 minimal. These changes preserve the existing rate structures for customers; I believe
13 this adds a necessary amount of stability to the overall rate spread and rate design.

14

15 **C. Avista's Cost of Service Study is Directionally Accurate**

16

17 **Q. Do you recommend the Commission rely on the cost of service studies presented**
18 **by Avista?**

19 A. For the purposes of this case, yes. However, there are certain elements of Avista's
20 COSS that I do not believe appropriately allocate costs amongst classes. For
21 example, the Company electric cost of service relies on the system load factor to
22 classify demand and energy related costs. However, the peak credit methodology for
23 Avista is based on the use of both thermal Combined Cycle Combustion Turbine

1 (CCCT) and hydro plants. Both state policy and industry trends are pushing
2 generation towards renewable power. Relying on a CCCT to classify costs is out of
3 step with these policies and trends because CCCT rely on natural gas and do not
4 reflect the operating characteristics of renewable generation. This and other Staff
5 concerns are being addressed in the Commission's rulemaking regarding cost of
6 service.

7
8 **Q. If your concerns are being address through the cost of service rulemaking, how**
9 **should the Commission use the cost of service study results presented by**
10 **Avista?**

11 A. Although Staff is concerned with the precision of the results from the Company's
12 proposed COSS, this does not render the current methodology or its presentation
13 irrelevant. The COSS should be considered *directionally* accurate for the purpose of
14 setting rates. Further, as discussed in the rate spread section of my testimony, a
15 COSS is not the sole factor used by the Commission in setting rates.

16
17 **D. Parity Ranges and Cross-Class Subsidization**

18
19 **Q. How should the Commission use the parity ratios from the COSS in this case to**
20 **allocate revenues?**

21 A. Since parity ratios are important for allocating any revenue requirement increase or
22 decrease, I propose specific ranges for judging parity ratios. A parity ratio that falls
23 outside of a target range may be considered unreasonable or unfair. For example, a

1 rate schedule with a parity ratio well below 1.00 means that schedule is being
 2 subsidized by other rate schedule(s); this is referred to as cross-class subsidization.
 3 Historically, the Commission considers plus or minus five percent of parity to be an
 4 acceptable error range.³ However, the Commission has also emphasized balancing
 5 rate spread with other principles like gradualism and rate stability.⁴ Further, the
 6 COSS in this case can only be considered to be directionally accurate. Taking all of
 7 this into consideration, for the purposes of this case, I propose the following ranges
 8 for judging parity ratios:

9 **Table 3 - Parity Ranges**

Parity Ratio Range	Category
+/- 5 (i.e. 0.95 to 1.05)	Error range
+/- 10 (i.e. 0.90 to 1.10)	Range of reasonableness
+/- 20 (i.e. 0.80 to .90 or 1.10 to 1.20)	Unreasonable cross-class subsidization
+/-30 (i.e. 0.70 to .90 or 1.20 to 1.30)	Excessive cross-class subsidization
+40 (i.e. <0.70 or >1.30)	Grossly excessive cross-class subsidization

10 **Q. Is it important to achieve a parity ratio of 1.00 for all rate schedules?**

11 A. No. The results of any given COSS, and its associated parity ratios, should inform
 12 the Commission's judgment when it assigns proportions of an average rate increase.⁵

³ *Wash. Utils. & Transp. Comm'n v. PacifiCorp d/b/a Pacific Power & Light Company*, Docket UE-152253, Order 12, 74-75, n. 350 (September 1, 2016) (2015 Pacific Power GRC Order).

⁴ *See, Wash. Utils. & Transp. Comm'n v. Puget Sound Energy, Inc.*, Dockets UE-170033 & UG-170034, Order 08, 4, n. 10 (December 5, 2017) (2017 PSE GRC Order).

⁵ The Commission has repeatedly emphasized this point. *See, e.g.*, 2017 PSE GRC Order at 4 n. 10; 2010 Pacific Power GRC Order at 314-17; *Wash. Utils. & Transp. Comm'n v. PacifiCorp d/b/a Pacific Power & Light Company*, UE-140762 (consolidated), Order 08, 84, ¶ 197 (March 25, 2015) (2014 Pacific Power GRC Order).

1 However, the Commission should pay particular attention to schedules that do not
2 fall within the reasonable range of 90 to 110 percentage points of parity. As I discuss
3 later in my testimony, 98.9 percent of Avista electric customers and 98.7 percent of
4 non-residential natural gas customers are outside the range of reasonableness; more
5 importantly, all of the 98.7 percent of non-residential natural gas customers are in the
6 grossly excessive category. Therefore, I recommend the Commission set a rate
7 spread to start alleviating the cross-class subsidization already in effect.

8
9 **Q. Why is it important to address the issue of cross-class subsidization?**

10 A. First, cross-class subsidization violates the regulatory principles of cost-causation
11 and benefit follows burden. The principles of cost causation and benefit follows
12 burden state that individuals causing costs should pay for those costs. Additionally,
13 the benefits related to certain costs should flow to those who pay those costs and
14 have the best opportunity of realizing the benefits.⁶ Addressing cross-class
15 subsidization is especially important when customer class parity ratios are in the
16 excessive or grossly excessive categories.

17 Second, cross-class subsidization should be considered when weighing fairness
18 and perceptions of equity, two factors the Commission considers when establishing
19 rate spread.⁷

20

⁶ For a more detailed explanation, see my previous testimony in Dockets UE-170033 & UG-170034, Ball, Exh. JLB-1T at 2-3 (June 30, 2017).

⁷ *Wash. Utils. & Transp. Comm'n v. Puget Sound Energy, Inc.*, Dockets UE-111048 & UG-111049, Order 08, 124-25, ¶ 350 (May 7, 2012) (2010 PSE GRC Order).

1 **IV. ELECTRIC RATE SPREAD**

2
3 **Q. What is your recommendation regarding electric rate spread?**

4 A. My recommended rate spread is summarized in the table below using Staff's
5 proposed revenue requirement:

6 **Table 4 - Staff Recommended Electric Rate Spread**

Electric Rate Schedule	Rate Spread <i>(As presented by Avista)</i>	Staff Proposed
Residential Service, 1-2	110%	170%
General Service, 11-12	80%	25%
Large General Service, 21-22	100%	25%
Extra Large General Service, 25	100%	100%
Pumping Service, 31-32	100%	100%
Street and Area Lights, 41-48	0.0%	100%

7 **Q. Please explain the rationale for your proposed rate spread.**

8 A. I focus on classes that fall outside the range of reasonableness, especially those
9 schedules experiencing excessive or grossly excessive cross-class subsidization, such
10 as General Service and Large General Service customer classes. I recommend that
11 these classes receive, at most, 25 percent of the proposed rate increase. For classes
12 that are within the range of reasonableness, I set rate spread to preserve the parity
13 ratio at or near its current level.

14
15 **Q. Do you have any alternative recommendations regarding electric rate spread?**

16 A. Yes. Staff is recommending a significantly lower revenue requirement than Avista. If
17 the Commission approves an electric revenue requirement at or near the Company's
18 amount, I recommend the Commission use the Company's proposed electric rate

1 spread. My proposed rates spread would result in a large rate shock to the residential
2 class, if the revenue increase is near the Company's initial filing.

3
4 **A. Residential Rate Spread**

5
6 **Q. Why are you proposing the residential schedules receive such large relative**
7 **increases?**

8 A. The residential schedule is below parity and outside the range of reasonableness
9 while General Service (Schedule 11/12), Large General Service (Schedule 21/22),
10 Extra Large General Service (Schedule 25) and Street and Area Lights (Schedules
11 41-48) are above parity. This is patently unfair. My recommendation results in a
12 parity ratio of 0.89 for the residential class, almost within the range of
13 reasonableness. Further, as the Company has acknowledged in their direct testimony,
14 the residential class has been below parity for quite some time.⁸

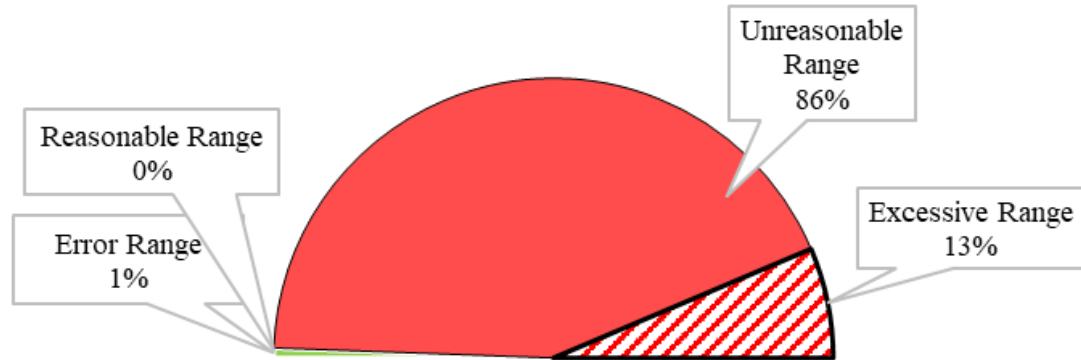
15
16 **B. General Service and Large General Service Schedules Rate Spread**

17
18 **Q. What is your recommended rate spread regarding general service and large**
19 **general service classes?**

⁸ Miller, Exh. JDM-1T at 6:10-13.

1 A. The charts below illustrates where all electric customer classes fall within the parity
2 ranges I have set.

Figure 1 – Electric Customer Classes Grouped by Parity Range



3 General Service customers are currently at the very top of the excessive cross-class
4 subsidization category and Large General Service customers are experiencing
5 unreasonable cross-class subsidization. These customers are receiving electricity at
6 prices well beyond their cost to serve. To address this, I recommend these customer
7 classes receive, at most, 25 percent of the proposed rate increase.

8

9 **Q. Why do you recommend 25 percent of the proposed rate increase be applied to**
10 **the General Service and Large General Service Customer classes?**

11 A. These classes are paying well above parity and steps should be taken to reduce the
12 cross-class subsidization. However, rate spread is a balance of multiple competing
13 objectives, such as gradualism and perceptions of equity. Therefore, a limited
14 amount of the proposed rate increase should be applied to those schedules
15 significantly above parity; this makes it so that all customers are participating in the
16 rate increase.

17

1 **A. Extra Large General Service Rate Spread**

2

3 **Q. Why do you propose Extra Large General Service receive 100 percent of the**
4 **rate increase?**

5 A. Extra Large General Service is currently within the range of reasonableness with a
6 parity ratio of 1.02. Under my proposal, their parity ratio remains at 1.02. This is
7 within the error range, very close to parity. Also, Staff believes the COSS is only
8 directionally accurate in this case – in essence, a directionally accurate COSS should
9 not be the basis for adjusting minor variances in parity. I believe assigning 100
10 percent of the proposed rate increase to this class is more aligned with the
11 Commission’s policy goals of fairness and perceptions of equity.

12

13 **B. Street and Area Lighting Rate Spread**

14

15 **Q. What are you proposing for the Street and Area Lights Schedules?**

16 A. I propose the Street and Area Lights Schedules receive 100 percent of the proposed
17 rate increase. Their parity ratio is currently 1.05, well within the range of
18 reasonableness. With the proposed increase, their parity ratio moves to 1.03, further
19 inside the range. The Company, however, has proposed that this class receive none
20 of the proposed rate increase for this case.

21

22 **Q. Do you agree with the Company’s proposal to assign none of the proposed rate**
23 **increase to Street and Area Lighting?**

1 A. No. The Company represents that smaller communities may eliminate lighting to
2 reduce operating expenses. In turn, this would reduce revenue to Avista and
3 increases costs for all ratepayers.⁹ While I understand the Company’s rationale,
4 ratepayers should not be responsible for shoring up local community’s budgets.
5 Further, the Company is not responsible for ensuring universal access to public
6 safety services.¹⁰ Those decisions should be left to local governments and their
7 constituents. Assigning none of the proposed increase to these schedules would
8 result in significant subsidization of local budgets across multiple legal jurisdictions
9 in the Company’s service territory (such as towns, cities, or counties).

10

11 **C. The Company’s Proposed Electric Rate Spread is Inadequate**

12

13 **Q. Does the Company proposes to address the cross-subsidization problem?**

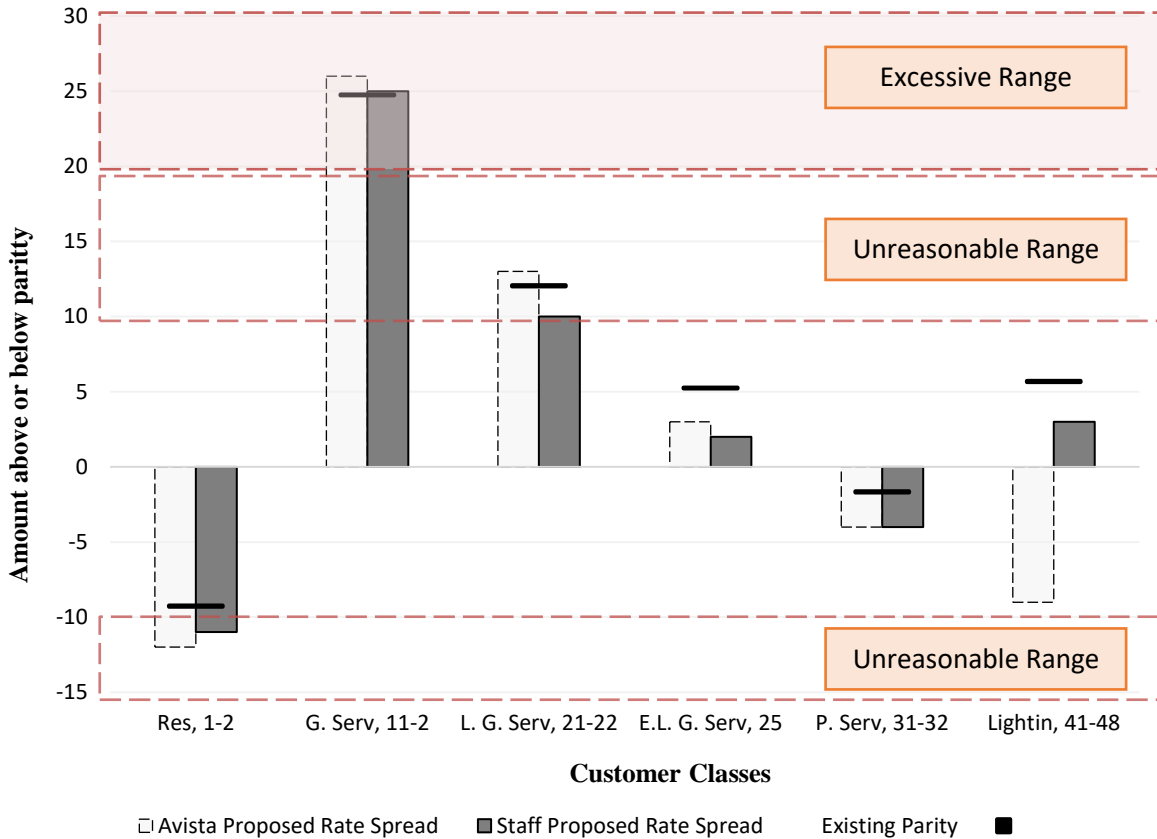
14 A. Yes. Even though the Company acknowledges the problem, I do not believe the
15 Company’s proposal adequately addresses it.

⁹ Miller, Exh. JDM-1T at 8:11-20

¹⁰ *In re Petition For an Order Requiring Puget Sound Energy to Fund Replacement of Electric Facilities*, Docket UE-141335, Order 04, 9, ¶ 23 (quoting initial order, Docket UE-141335, Order 03, 12, ¶ 34: “The importance of electric service to a customer (or to the customer’s customers) is not a basis on which the Commission will determine who pays for that service or the facilities used to deliver it.”) (October 13, 2015).

1

Figure 2 – Comparison of Staff and Avista Electric Parity Ratios



2

3

4

5

6

7

Q. Why do you recommend adopting the Company’s proposed rate spread if the Commission approves the revenue requirement the Company presented?

8

9

A. Rate spread is a balance of multiple competing objectives. While I strongly

10

recommend the Commission adopt a rate spread that starts to alleviate cross-class

11

subsidization, the Company’s proposed revenue requirement results in a significant

12

overall rate increase. At or near that overall increase, the Commission’s principles of

1 gradualism, economic conditions in the service territory, and avoidance of rate shock
2 temper the amount that can be done to alleviate cross-class subsidization.

3
4 **D. Results of Staff Proposed Rate Spread**

5
6 **Q. Please provide a summary of Staff’s proposed electric rate spread.**

7 A. The table below summarizes Staff’s proposed electric rate spread using Staff’s
8 proposed electric revenue requirement increase.

9 **Table 5 – Results of Staff’s Proposed Electric Rate Spread**

10
11

Electric Rate Schedule	Percent of Uniform Increase	Allocated Revenue Increase (000)’s	Resulting Parity Ratio
Residential Service, 1-2	170%	\$12,866	0.89
General Service, 11-12	25%	\$659	1.25
Large General Service, 21-22	25%	\$1,103	1.10
Extra Large General Service, 25	50%	\$2,342	1.02
Pumping Service, 31-32	100%	\$422	0.96
Street and Area Lights, 41-48	100%	\$225	1.03

12
13

14 **V. NATURAL GAS RATE SPREAD**

15
16 **Q. What is your recommendation regarding natural gas rate spread?**

17 A. My recommended rate spread is summarized in the table below:

18 **Table 6 - Staff Recommended Natural Gas Service Rate Spread**

Natural Rate Schedule	Rate Spread (As presented by Avista)	Staff Proposed
General Service, 101	100%	119%
Large General Service, 111-112	100%	25%
Interruptible Service, 131-132	100%	25%
Transportation Service. 146	100%	100%

1 **Q. Please explain the rationale for your proposed rate spread.**

2 A. I focus on classes that fall outside the range of reasonableness, especially those
3 schedules experiencing excessive or grossly excessive cross-class subsidization.
4 Unlike electric service, nearly all natural gas non-residential customers are
5 experiencing grossly-excessive cross class subsidization. I recommend that these
6 classes receive 25 percent of the proposed rate increase. Although the natural gas
7 residential class is within the range of reasonableness, they are the only class below
8 parity. Therefore, I assign the majority of the natural gas rate increase to the
9 residential class.

10

11 **Q. Do you have any alternative recommendations regarding natural gas rate
12 spread?**

13 A. Yes. Staff is recommending a significantly lower revenue requirement than Avista
14 presented. If the Commission approves natural gas revenue requirement at or near
15 the Company's amount, I recommend the Commission use the Company's proposed
16 natural gas rate spread.

17

18 **A. Residential Rate Spread**

19

20 **Q. Why are you proposing the Residential Schedules receive such large relative
21 increases?**

22 A. The Residential Schedule is the only natural gas customer class below parity. Large
23 General Service (Schedule 111/112), Interruptible Service (Schedule 131/132), and

1 Transportation Services (Schedule 146) are grossly above parity. This is far from
2 fair. My recommendation results in a parity ratio of 0.93 for the Residential Class,
3 still below parity but within the range of reasonableness.

4
5 **B. Large General Service and Interruptible Schedules Rate Spread**

6
7 **Q. Why do you recommend 25 percent of the rate increase be applied the Large**
8 **General Service and Interruptible Classes?**

9 A. Both Large General Service and Interruptible Classes are within the grossly
10 excessive cross-subsidization category. Even with my recommendation to assign 25
11 percent of the proposed rate increase to these classes, Large General Service remains
12 in the grossly excessive cross-subsidization category with a parity ratio of 1.46. The
13 Interruptible Schedules moves from grossly-excessive to excessive with a new parity
14 ratio of 1.30.

15
16 **C. The Company's Proposed Natural Gas Rate Spread is Inadequate**

17
18 **Q. Does the Company propose to address the cross-subsidization problem?**

19 A. The Company's proposal only addresses cross-subsidization if the Commission sets
20 the revenue requirement at less than the level proposed in Avista's initial filing.
21 Avista proposes an equal percent of margin increase if the Commission approves the
22 Company's proposed revenue requirement. However, Avista recommends applying
23 the same increase as their proposed revenue requirement if the Commission approves

1 a smaller revenue requirement increase.¹¹ This may be intended to mitigate some of
2 the rate impact from the Company's proposed 14.1 percent increase in margin rates.

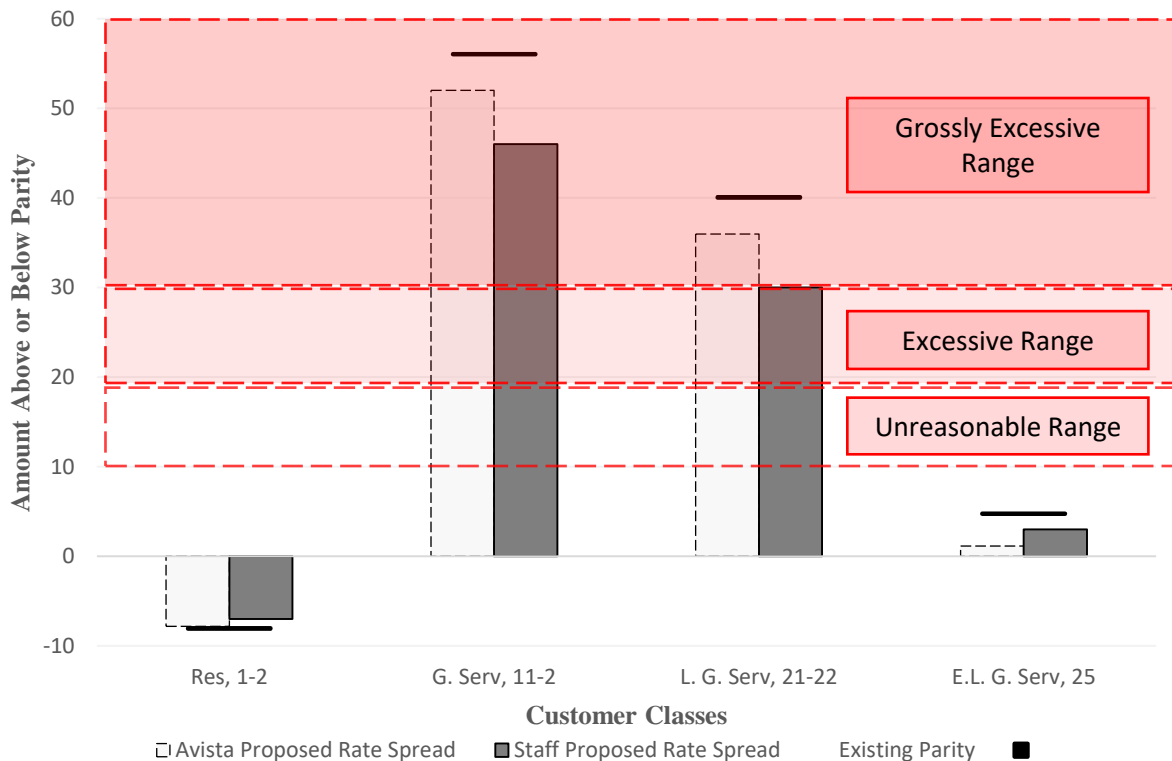
3

4 **Q. Do you agree with the Company's proposal to use equal percent of margin?**

5 A. No. An equal percent of margin rate spread in this case perpetuates the grossly
6 excessive cross-subsidization already in effect for non-residential classes. This does
7 not meet the Commission's principles of fairness or perceptions of equity. As the
8 chart below illustrates, the Company's proposal makes little progress in addressing
9 the cross-class subsidization that exists.

10

Figure 3 - Comparison of Staff and Avista Natural Gas Parity Ratios



¹¹ Miller, Exh. JDM-1T at 21:7-14.

1 **Q. Do you agree with the Company’s proposal to apply the same increase to the**
2 **residential class regardless of revenue requirement set by the Commission?**

3 A. No. The Company’s proposal appears to rely upon the premise that the Commission
4 authorizes a revenue requirement increase of at least \$10.3 million. This is the
5 amount of cost allocation the Company recommends assigning to the residential
6 class regardless of revenue requirement. If the Commission authorizes a level below
7 this amount, then other schedules would have to receive a rate decrease to maintain
8 the balance. I do not believe it is appropriate to assign a rate decrease to any class in
9 this proceeding, based on the revenue requirement recommended by Staff.

10
11 **D. Results of Staff Proposed Rate Spread**

12
13 **Q. Please provide a summary of Staff’s proposed natural gas rate spread.**

14 A. The table below summarizes Staff’s proposed natural gas rate spread using Staff’s
15 proposed natural gas revenue requirement increase.

16
17 **Table 7 - Results of Staff’s Proposed Natural Gas Rate Spread**

18

Natural Gas Rate Schedule	Percent of Uniform Increase	Allocated Revenue Increase (000’s)	Resulting Parity Ratio
General Service, 101	119%	\$6,459	0.93
Large General Service, 111-112	25%	\$333	1.46
Interruptible Service, 131-132	25%	\$4	1.30
Transportation Service. 146	100%	\$248	1.03

19

20
21

1 VI. ELECTRIC RATE DESIGN

2

3 Q. Please provide an overview of the Company’s proposed electric rate design.

4 A. Residential Schedules 1/2

- 5 • No changes to rate design

6

7 General Services Schedules 11/12

- 8 • No changes to basic charge
- 9 • Increase demand charge by \$.50 per kW

10

11 Large General Services Schedules 21/22

- 12 • Increase Minimum Demand Charge by \$50
- 13 • Increase demand charge by \$.50 per kW

14

15 Extra Large General Services Schedule 25

- 16 • Increase Minimum Demand Charge by \$2,500
- 17 • Increase demand charge by \$.50 per kW

18

19 Pumping Schedules 31/32

- 20 • No changes to rate design

21

22 Street and Area Lighting Schedules 41-48

- 23 • Add several banded LED rates

24

25 Q. Do you agree with the Company’s proposed electric rate design?

26 A. Yes. However, I propose two options for the Commission to consider for Schedule
27 25.

28 Option A) – The Company should work collaboratively with interested
29 customers to convert Schedule 25 to a banded rate tariff or develop
30 special contracts as appropriate.

31 Option B) – If the Company does not agree to Option A, I recommend creating a
32 new schedule and customer class: Schedule 26 - Ultra Large General
33 Service.

1 **Q. Why do you recommend these changes?**

2 A. I am concerned that this schedule is not homogenous, especially in regards to one
3 particular customer. My analysis of this class is attached as Exh. JLB-2. In summary:

- 4 1. A single customer has an average demand that is over ten times higher than
5 the class average;
- 6 2. A single customer uses almost half (45 percent) of all kWh's; and,
- 7 3. A single customer is the responsible for over 80 percent of the primary
8 voltage discount the schedule receives.

9

10 **Q. Why is it important for a rate schedule to be homogeneous?**

11 A. State law generally prohibits rate discrimination for "like or contemporaneous
12 service."¹² As the Commission has explained:

13 The purpose of these statutes is to protect utility customers from paying
14 different rates for electrical or natural gas services than the rates other,
15 similarly situated customers pay when they receive the same, or at least
16 closely comparable, electrical or natural gas services.¹³

17 This interpretation was applied to the 2013 decoupling program for Puget Sound
18 Energy. In that case, the Commission acknowledged that:

19 Different non-residential customers have different needs for service and
20 these are recognized by the availability of multiple rate schedules that have
21 different rate designs. Where customers are, in fact, similarly situated,
22 their rate designs and rates are the same.¹⁴

23 Based on my analysis of this schedule, this single customer is not receiving like or
24 contemporaneous service as the other customers in the schedule.

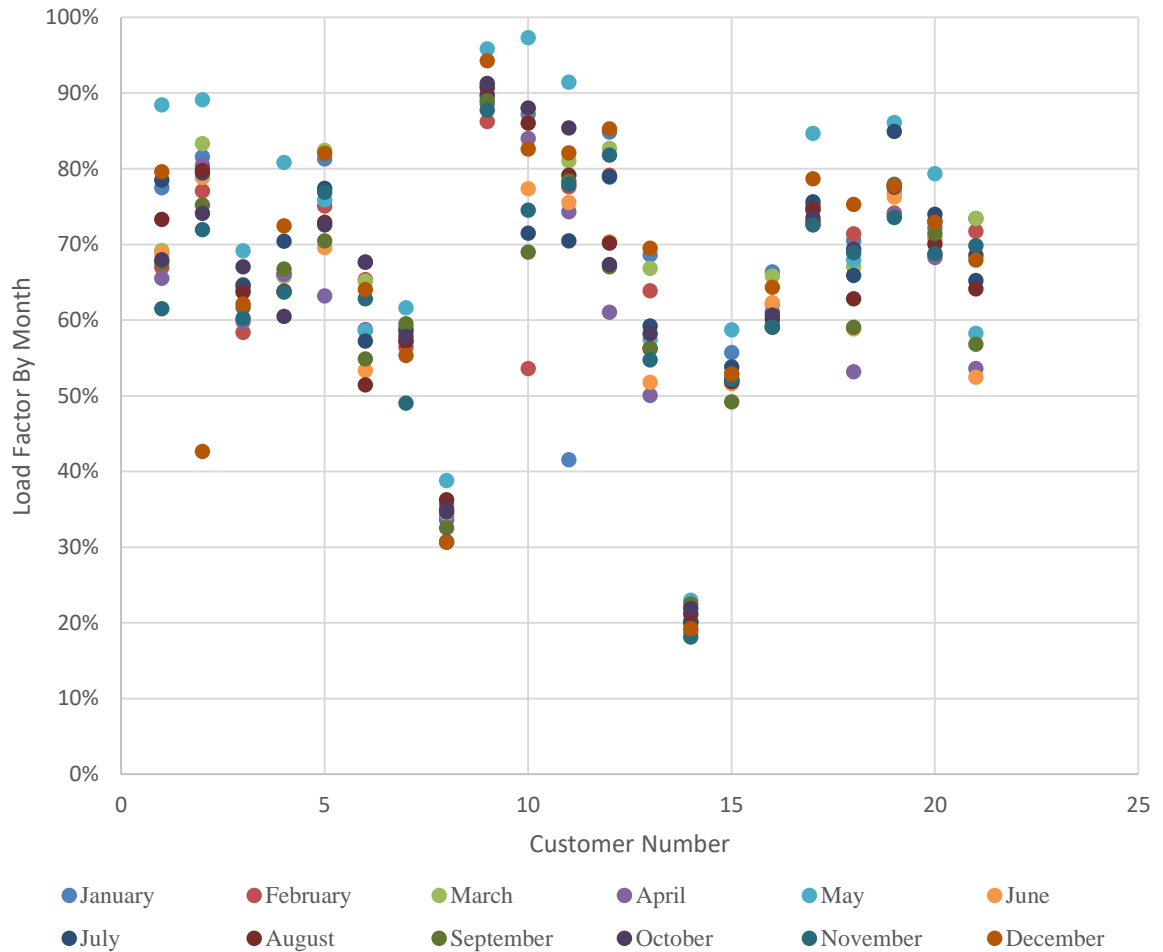
¹² See, RCW 80.28.100.

¹³ *In re Petition For an Order Authorizing PSE To Implement Electric and Natural Gas Decoupling Mechanisms and To Record Accounting Entries Associated With the Mechanisms*, UE-121697 & UG-121705 (consolidated), Order 09, 22, ¶ 54 (December 12, 2013).

¹⁴ *Id.* at 30, ¶ 71.

1 **Q. Are your concerns limited to just this one customer in Schedule 25?**
 2 A. No. As the scatter plot below shows, there is significant variation in load factor
 3 amongst the customers in Schedule 25.

Figure 4 - Schedule 25 Individual Load Factor by Month



4 It is important to recognize that non-residential customers, to some degree, will
 5 always have variances between them. The Commission observed this in 2012:

6 There undoubtedly is significant heterogeneity in the non-residential
 7 customer class. Members of this customer class have different—in some
 8 instances vastly different—levels of demand. Some non-residential
 9 customers have the capability to react nimbly to changed economic
 10 conditions, ratcheting their demand for power or gas up or down as general
 11 market conditions improve or deteriorate. Others have less flexibility.
 12 Some customers are more weather sensitive than others. Many non-
 13 residential customers undertake their own conservation efforts and are not

1 even eligible to participate in Company conservation programs and
2 initiatives.¹⁵

3 The heterogeneous nature of these schedules, as evidenced by the variation in load-
4 factor, presents a unique opportunity for the Company to explore innovative rate
5 designs. Specifically, customers with various capabilities to “react nimbly” could
6 potentially benefit from rates that recognize the temporal value of power
7 consumption.

8 Further, I believe that the continuing industry and policy trend towards
9 renewable, but non-dispatchable generation impacts the costs of serving industrial
10 customers.¹⁶ Both industrial customers and the system as a whole will benefit from
11 having rate designs which reflect the nature of newer generation; this can include
12 synchronizing load factors, or other price signals, with the dispatch of renewable
13 generation used to serve them.

14

15 **Q. How can timing and load factor be included in an industrial rate schedule?**

16 A. The most obvious answer is through specific time of use rates or other charges tied to
17 the specific load of a customer. By tying rates to the needs of the system as a whole, as
18 well as what an industrial customer is actually willing to respond to, diverse load
19 profiles can drive average costs down.

20

¹⁵*In re Petition For an Order Authorizing PSE To Implement Electric and Natural Gas Decoupling Mechanisms and To Record Accounting Entries Associated With the Mechanisms*, UE-121697 & UG-121705, Order 07, 56, ¶ 127 (June 25, 2013).

¹⁶ Carl Linvill et. al., “Smart Non-Residential Rate Design” at 20 (The Regulatory Assistance Project, December 2017).

1 **Q. Are you proposing a specific rate design to capture the value of diverse load**
2 **profiles?**

3 A. No. I believe the best approach here is for the Company to work with willing
4 customers to set rates appropriately. Therefore, I recommend the Company develop a
5 banded rate schedule coupled with new rate design features; such as rates that vary
6 based on load factor or profile. This allows Company to craft rates based on the
7 specific needs of each customer, through an appropriate contract.

8
9 **Q. What are the advantages of the banded rate schedule approach?**

10 A. In general, a banded rate tariff can provide the utility with additional tools to manage
11 costs. By enabling industrial customers to respond to stronger and more accurate
12 price signals, the average cost of purchasing and generating power will be reduced.
13 The primary savings from such a program would be shared with all customers as a
14 part of the actual costs recovered through Avista's Energy Recovery Mechanism.
15 Over-time, sustained savings will become a permanent part of rates through
16 modifications to the power cost baseline.

17
18 **Q. If the Company does not agree to develop a banded rate schedule, what do you**
19 **propose as an alternative?**

20 A. If the Company does not agree to explore a banded rate tariff, I recommend
21 Schedule 25 be separated into two schedules. The specific rate design
22 changes are included in Exh. JLB-3. In general, I propose:

- 23 • Schedule 25 – Large General Service
24 ○ Accept the Company's proposed changes to the demand charges

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- Eliminate the third block
- Schedule 26 – Ultra Large General Service
 - Reduce the demand charges from Schedule 25 levels
 - Develop a single per kWh rate.

Q. Can you summarize the potential impacts of your proposed options?

A. Yes. Please see Exh. JLB-3 for the analysis for each customer in Schedule 25.

Option A – Banded Rate Schedule <i>(Staff Preferred Option)</i>	Schedule 25 Average Rate Impact <i>(Staff Proposed Revenue)</i>
Accept Company’s Proposed Rate Design Changes	3.70%

Option B – New Rate Schedule 26	
Schedule 25	3.49%
Schedule 26	3.90%

VII. NATURAL GAS RATE DESIGN

Q. Please provide an overview of the Company’s proposed natural gas rate design.

A. General Service (Residential) Schedules 1/2

- No changes to rate design

Large General Service Schedules 111/112

- Increase minimum charge by \$16.66

Extra Large General Service Schedules 121/122

- Eliminate schedule and merge with Large General Service 111/112

Interruptible Service Schedule 131/132

- Limit rate increase to first three blocks

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Transportation Schedule 146

- Increase basic charge by \$75

Housekeeping

- Eliminate rate components portion of the Other Charges section

Q. Do you agree with the Company’s proposed electric rate design?

A. Yes. However, I recommend the Company update the economic bypass alternatives for all of their natural gas special contracts by May 1, 2021.

Q. Why do you recommend updating the economic bypass alternatives?

A. The marginal cost studies that these contracts rely on have not been updated in some time, as indicated in JLB-4C. It is important to keep these economic bypass alternatives updated on a reasonable basis so that these customer rates remain in compliance with RCW 80.28.090 and RCW 80.28.100.

VIII. BILL IMPACTS

Q. Can you please quantify the bill impacts of Staff’s proposed revenue requirement, rate spread, and rate design?

A. Yes. Exh. JLB-5 presents the bill impacts for electric customers and Exh. JLB-6 presents the bill impacts for natural gas customers.

1 **IX. RATE SPREAD DURING THE RATE PLAN**

2

3 **Q. What is your recommendation for rate spread if the Commission approves a**
4 **rate plan for Avista?**

5 A. If the Commission approves a rate plan for the Company and uses Staff’s proposed
6 revenue requirement, I recommend applying the rate increase using the same rate
7 spread and rate design outlined above. Given that Staff’s recommended rate increase
8 in the second year is significantly less than the first year, applying the same rate
9 spread would continue to address issues of cross-subsidization without leading to
10 rate shock.

11

12 **Q. Does this conclude your testimony?**

13 A. Yes.