

DAVID J. MEYER  
VICE PRESIDENT AND CHIEF COUNSEL FOR  
REGULATORY & GOVERNMENTAL AFFAIRS  
AVISTA CORPORATION  
P.O. BOX 3727  
1411 EAST MISSION AVENUE  
SPOKANE, WASHINGTON 99220-3727  
TELEPHONE: (509) 495-4316  
FACSIMILE: (509) 495-8851  
DAVID.MEYER@AVISTACORP.COM

**BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION**

IN THE MATTER OF THE APPLICATION	)	CASE NO. AVU-E-21-01
OF AVISTA CORPORATION FOR THE	)	
AUTHORITY TO INCREASE ITS RATES	)	
AND CHARGES FOR ELECTRIC SERVICE	)	DIRECT TESTIMONY
TO ELECTRIC CUSTOMERS IN	)	OF
THE STATE OF IDAHO	)	TARA L. KNOX
_____	)	

FOR AVISTA CORPORATION

(ELECTRIC)

1 **I. INTRODUCTION**

2 **Q. Please state your name, business address and present position with**  
3 **Avista Corporation.**

4 A. My name is Tara L. Knox and my business address is 1411 East Mission  
5 Avenue, Spokane, Washington. I am employed as Manager of Regulatory Accounting  
6 Initiatives in the Regulatory Affairs Department.

7 **Q. Would you briefly describe your duties?**

8 A. Yes. I am responsible for preparing the electric cost of service studies for  
9 the Company, as well as providing support for the preparation of results of operations  
10 reports, among other things.

11 **Q. What is your educational background and professional experience?**

12 A. I am a graduate of Washington State University with a Bachelor of Arts  
13 degree in General Humanities in 1982, and a Master of Accounting degree in 1990. As  
14 an employee in the Regulatory Affairs Department at Avista since 1991, I have attended  
15 several ratemaking classes, including the EEI Electric Rates Advanced Course that  
16 specializes in cost allocation and cost of service issues. I am also a member of the Cost  
17 of Service Working Group and the Northwest Pricing and Regulatory Forum, which are  
18 discussion groups made up of technical professionals from regional utilities and utilities  
19 throughout the United States and Canada concerned with cost of service issues.

20 **Q. What is the scope of your testimony in this proceeding?**

21 A. My testimony and exhibits will cover the Company's electric revenue  
22 normalization adjustment to the test year results of operations, the proposed Load Change  
23 Adjustment Rate to be used in the Power Cost Adjustment and Fixed Cost Adjustment

1 mechanisms, and the electric cost of service study performed for this proceeding. A table  
2 of contents for my testimony is as follows:

3	<u>Description</u>	<u>Page</u>
4	I. Introduction	1
5	II. Electric Revenue Normalization	2
6	III. Proposed Load Change Adjustment Rate	6
7	IV. Electric Cost of Service	8

8

9 **Q. Are you sponsoring any exhibits in this case?**

10 A. Yes. I am sponsoring Exhibit No. 16 composed of three schedules.  
11 Schedule 1 details the calculation of the proposed Load Change Adjustment Rate,  
12 Schedule 2 includes a narrative of the electric cost of service study process, Schedule 3  
13 presents the base case electric cost of service study summary results.

14 **Q. Were these exhibit schedules prepared by you or under your**  
15 **direction?**

16 A. Yes, they were.

17

18 **II. ELECTRIC REVENUE NORMALIZATION**

19 **Q. Would you please describe the electric revenue normalization**  
20 **adjustment included in Company witness Ms. Andrews' pro forma results of**  
21 **operations?**

22 A. Yes. The electric revenue normalization adjustment represents the  
23 difference between the Company's actual recorded retail revenues during the 12-months  
24 ended December 2019 test period, and base rate retail revenues on a normalized (pro  
25 forma) basis. The total revenue normalization adjustment decreases Idaho net operating

1 income by \$7,046,000, as shown in adjustment column 2.07 on page 7 of Ms. Andrews’  
2 Exhibit No. 5, Schedule 1.

3 The revenue normalization adjustment consists of four primary components: 1)  
4 re-pricing customer usage (adjusted for any known and measurable changes) to base tariff  
5 rates presently in effect, 2) adjusting customer load and revenue to a 12-month calendar  
6 basis (unbilled revenue adjustment), 3) weather normalizing customer usage and revenue,  
7 and 4) eliminating both the deferred revenue associated with the 2019 Fixed Cost  
8 Adjustment (FCA) mechanism and the 2017 Tax Reform Provision for Rate Refund  
9 recorded in 2019 results.

10 **Q. Since these elements are combined into a single adjustment, would**  
11 **you please identify the impact of each component?**

12 A. Yes. A breakdown of the four components of the revenue normalization  
13 is as follows:

- 14 1. The re-pricing of billed usage including the effects of the December 1,  
15 2019 base rate decrease, elimination of the revenue and expense associated  
16 with the Clearwater Purchase and Sale agreement, as well as the  
17 elimination of adder schedule revenue and related amortization expense  
18 (Schedule 59 Residential Exchange Credit, Schedule 74 Temporary Tax  
19 Refund, Schedule 75 Fixed Cost Adjustment, Schedule 91 Public Purpose  
20 Tariff Rider, Schedule 95 Optional Renewable Power and Schedule 97  
21 Rebate of Electric Earnings Test Deferral)<sup>1</sup> results in a decrease to net  
22 income of \$4,848,000.
- 23 2. The re-pricing of unbilled calendar usage and elimination of unbilled  
24 adder schedule revenue and expense results in a decrease to net income of  
25 \$494,000.<sup>2</sup>
- 26 3. The weather adjustment decreases net income \$1,431,000.
- 27 4. The elimination of the 2019 FCA deferred revenue and tax reform  
28 provision for rate refund decreases net income by \$273,000.

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<sup>1</sup> Municipal Franchise Fee and Power Cost Adjustment revenues and related expenses are eliminated in separate adjustments.

<sup>2</sup> The unbilled adjustment consists of removing December 2018 usage billed in January 2019 from the 2019 test year, adding December 2019 usage billed in January 2020 to the 2019 test year, and re-pricing the net usage at present base rates.



1 sensitivity factors (use-per-customer-per-heating-degree day and use-per-customer-per-  
2 cooling-degree day) are applied to monthly test period customers and the difference  
3 between normal heating/cooling degree-days and monthly test period observed  
4 heating/cooling degree-days.

5 **Q. Have the seasonal weather sensitivity factors been updated since the**  
6 **last rate case?**

7 A. Yes. The factors used in the weather adjustment are based on regression  
8 analysis of monthly billed use-per-customer from January 2009 through December 2018,  
9 which is the most recent completed analysis.

10 **Q. What data did you use to determine “normal” heating and cooling**  
11 **degree days?**

12 A. Normal heating and cooling degree days are based on a rolling 30-year  
13 average of heating and cooling degree-days reported for each month by the National  
14 Weather Service for the Spokane Airport weather station. Each year the normal values  
15 are adjusted to capture the most recent year with the oldest year dropping off, thereby  
16 reflecting the most recent information available at the end of each calendar year. The  
17 calculation includes the 30-year period from 1990 through 2019.

18 **Q. Is this proposed weather adjustment methodology consistent with the**  
19 **methodology utilized in the Company’s last general rate case in Idaho?**

20 A. Yes. The process for determining the weather sensitivity factors and the  
21 monthly adjustment calculation is consistent with the methodology presented in Case No.  
22 AVU-E-19-04.

1           **Q.     What was the change in kWhs resulting from weather normalization**  
2 **for the 12-months ended December 2019 test year?**

3           A.     During the 2019 test year, weather was colder than normal during the  
4 winter and warmer than normal during the summer. Since electric usage is impacted by  
5 both heating and cooling, weather normalization required a reduction to usage for colder  
6 than normal weather during the winter months and a reduction to usage for warmer than  
7 normal summer months. Overall, the adjustment to normal required the deduction of 229  
8 heating degree-days during the heating season,<sup>4</sup> and the deduction of 20 cooling degree-  
9 days during the summer season.<sup>5</sup> The annual total adjustment to Idaho electric sales  
10 volumes was a reduction of 21,750,200 kWhs, which is approximately 0.7% of billed  
11 usage. The electric system monthly weather adjustment volumes were provided to  
12 Company witness Mr. Kalich as an input to the Pro Forma Power Supply adjustment.

13

14                           **III. PROPOSED LOAD CHANGE ADJUSTMENT RATE**

15           **Q.     What is the Load Change Adjustment Rate?**

16           A.     The Load Change Adjustment Rate (LCAR) is part of the Power Cost  
17 Adjustment (PCA) mechanism that prices the change in power supply-related costs  
18 associated with the change in actual retail loads from the retail loads that were used to set  
19 the PCA base costs. The LCAR determination process for all Idaho investor-owned  
20 utilities was established in IPUC Case No. GNR-E-10-03, Order No. 32206, which was

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<sup>4</sup> The heating season includes the months of January through June and October through December.

<sup>5</sup> The summer season includes the months of April through October as cooling degree days may occur during that time. The shoulder months of April through June and October are included in both seasons because both heating load and cooling load fluctuations may occur.

1 approved on March 15, 2011. The LCAR is also a key component in the Company's  
2 electric Fixed Cost Adjustment (FCA) mechanism.<sup>6</sup>

3 **Q. How was the LCAR determined?**

4 A. The proposed LCAR was determined by first computing the proposed  
5 revenue requirement on the total production and transmission costs contained within Ms.  
6 Andrews' Idaho electric pro forma total results of operations. The  
7 production/transmission revenue requirement amount is then divided by the Idaho  
8 normalized retail load used to set rates in order to arrive at the average production and  
9 transmission cost-per-kWh embedded in proposed rates. This amount is then multiplied  
10 by the proportion of production and transmission costs classified as energy-related in the  
11 cost of service study. The LCAR, therefore, represents the energy-related portion of  
12 Avista's production and transmission costs, on a per-kWh basis.

13 **Q. Do you have an exhibit schedule that shows the calculation of the**  
14 **proposed LCAR for the rate years beginning September of 2021 and 2022?**

15 A. Yes. Exhibit No. 16, Schedule 1 begins with the identification of the  
16 production and transmission revenue, expense and rate base amounts included in each of  
17 Ms. Andrews' actual, restating, and pro forma adjustments to results of operations. The  
18 resulting production and transmission cost components are summarized on page 1. Rate  
19 Year 1 (September 1, 2021 – August 31, 2022) values are shown on Line 35 and Rate  
20 Year 2 (September 1, 2022 – August 31, 2023) values are shown on Line 42.

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<sup>6</sup> As required in the Company's FCA, the LCAR from the PCA (grossed up for revenue-related expenses) multiplied by kWh sales is deducted from base rate revenues in the FCA to ensure that no overlap occurs between the PCA and the FCA.



1 provide less than the overall rate of return under present rates. All of the other service  
2 schedules provide more than the overall rate of return under present rates to varying  
3 degrees.

4 **Q. What is an electric cost of service study and what is its purpose?**

5 A. An electric cost of service study is an engineering-economic study, which  
6 separates the revenue, expenses, and rate base associated with providing electric service  
7 to designated groups of customers. The groups are made up of customers with similar  
8 load characteristics and facilities requirements. Costs are assigned or allocated to each  
9 group based on, among other things, test period load and facilities requirements, resulting  
10 in an evaluation of the cost of the service provided to each group. The rate of return by  
11 customer group indicates whether the revenue provided by the customers in each group  
12 recovers the cost to serve those customers.

13 The study results are used as a guide in determining the appropriate rate spread  
14 among the groups of customers. Schedule 2 of Exhibit No. 16 explains the basic concepts  
15 involved in performing an electric cost of service study. It also details the specific  
16 methodology and assumptions utilized in the Company's Base Case cost of service study.

17 **Q. What is the basis for the electric cost of service study provided in this**  
18 **case?**

19 A. The electric cost of service study provided by the Company as Exhibit No.  
20 16, Schedule 3 is based on the 2019 Pro Forma Study presented by Ms. Andrews in  
21 Exhibit No. 5, Schedule 1.

22 **Q. Would you please explain the cost of service study presented in**  
23 **Exhibit No. 16, Schedule 3?**



1 general rate cases (Case Nos. AVU-E-11-01, AVU-E-15-05, AVU-E-16-03, AVU-E-17-  
2 01 and AVU-E-19-04).

3 Transmission costs are classified as 100% demand and allocated by the average  
4 of the 12 monthly coincident peaks. This methodology is the same treatment as the last  
5 five Idaho cases (Case Nos. AVU-E-12-08, AVU-E-15-05, AVU-E-16-03, AVU-E-17-  
6 01 and AVU-E-19-04) and reflects the methodology accepted in the Settlement in Case  
7 No. AVU-E-10-01.

8 Distribution costs are classified and allocated by the basic customer theory  
9 accepted by the Idaho Commission in Case No. WWP-E-98-11.<sup>7</sup> Additional direct  
10 assignment of demand-related distribution plant has been incorporated to reflect  
11 improvements accepted by the Commission in Case No. AVU-E-04-01.

12 Administrative and general costs are first directly assigned to production,  
13 transmission, distribution, or customer relations functions. The remaining administrative  
14 and general costs are categorized as common costs and have been assigned to customer  
15 classes by the four-factor allocator accepted by the Idaho Commission in Case No. AVU-  
16 E-04-01.

17 **Q. Does the Company's electric Base Case cost of service study follow the**  
18 **methodology filed in the Company's last electric general rate case in Idaho?**

19 A. Yes.

20 **Q. What are the results of the Company's electric Base Case cost of**  
21 **service study presented in this case?**

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<sup>7</sup> Basic customer cost theory classifies only meters, services, and street lights as customer-related plant; all other distribution facilities are considered demand-related.



1           As can be observed from the above table, the return ratio measure of relative cost  
2 recovery shows that Residential Service Schedule 01 and Extra-Large General Service  
3 Schedule 25 provide less than the overall rate of return under present rates (under unity).  
4 All other service schedules provide more than the overall rate of return under present  
5 rates to varying degrees (over unity). The revenue-to-cost ratio measure indicates that  
6 present revenues from Extra-Large General Service Clearwater Paper Schedule 25P and  
7 the Lighting Service Schedules 41 – 49 meet or exceed the total cost of service produced  
8 by the study. Present revenues from all other customer groups provide less than the total  
9 cost to serve them. The summary results of this study were provided to Mr. Miller for  
10 consideration in the development of proposed rates.

11           **Q.     Does this conclude your pre-filed direct testimony?**

12           A.     Yes.