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BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION

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IN THE MATTER OF THE APPLICATION OF AVISTA CORPORATION FOR THE AUTHORITY TO INCREASE ITS RATES AND CHARGES FOR ELECTRIC AND NATURAL GAS SERVICE TO ELECTRIC AND NATURAL GAS CUSTOMERS IN THE STATE OF IDAHO CASE NO. AVU-E-09-01 CASE NO. AVU-G-09-01

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IDAHO PUBLIC UTILITIES COMMISSION

> DIRECT TESTIMONY OF TARA L. KNOX

FOR AVISTA CORPORATION

(ELECTRIC AND NATURAL GAS)

I. INTRODUCTION

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

A. My name is Tara L. Knox and my business address
is 1411 East Mission Avenue, Spokane, Washington. I am
employed as a Senior Rate Analyst in the State and Federal
Regulation Department.

8 Q. Would you briefly describe your duties?

1

9 A. I am responsible for preparing the regulatory 10 cost of service models for the Company, as well as 11 providing support for the preparation of results of 12 operations reports.

Q. Would you describe your educational background
 and professional experience?

I am a 1982 graduate of Washington State 15 Α. Yes. University with a Bachelor of Arts degree in General 16 Humanities, and a Master of Accounting degree in 1990. As 17 an employee in the Rate Department at Avista since 1991, I 18 have attended several ratemaking classes, including the EEI 19 Electric Rates Advanced Course that specializes in cost 20 allocation and cost of service issues. I have also been a 21 member of the Cost of Service Working Group and the 22 which are Forum, Pricing and Regulatory 23 Northwest discussion groups made up of technical professionals from 24 regional utilities and utilities throughout the United 25

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1 States and Canada concerned with cost of service issues.

2 Q. What is the scope of your testimony in these 3 proceedings?

exhibits will cover the and 4 testimonv Ά. Μv Company's electric and natural gas cost of service studies 5 performed for this proceeding. Additionally, I am 6 gas revenue sponsoring the electric and natural 7 normalization adjustments to the test year results of 8 operations and the proposed retail revenue credit rate to 9 be used in the Power Cost Adjustment mechanism. 10

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25 Q. Are you sponsoring any Exhibits with your pre-26 filed testimony?

A. Yes. I am sponsoring Exhibit No. 11 composed of six schedules as follows: Schedule 1, retail revenue credit rate calculation; Schedule 2, electric cost of service study process description; Schedule 3, electric cost of service study summary results; Schedule 4, Demand

> Knox, Di 2 Avista Corporation

Sensitivity Results summary; Schedule 5, natural gas cost
 of service study process description; and Schedule 6,
 natural gas cost of service summary results.

Q. Were these exhibits prepared by you or under your
direction?

6 A. Yes.

7

8

II. REVENUE NORMALIZATION

Electric Revenue Normalization

9 Q. Would you please describe the electric revenue 10 adjustment included in Company witness Ms. Andrews pro 11 forma results of operations?

electric revenue normalization The 12 Α. Yes. adjustment represents the difference between the Company's 13 actual recorded retail revenues during the twelve months 14 ended September 2008 test period and retail revenues on a 15 basis. The total revenue forma) normalized (pro 16 normalization adjustment increases Idaho net operating 17 income by \$14,065,000 as shown in column (u) on page 6 of 18 Andrews Exhibit No.10, Schedule 1. The revenue 19 Ms. adjustment consists primary of three 20 normalization components: 1) re-pricing customer usage (adjusted for any 21 known and measurable changes) at present base tariff rates 22 2) adjusting customer loads and revenue to a 23 in effect, 12-month calendar basis (unbilled revenue adjustment), and 24 3) weather normalizing customer usage and revenue. 25

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Q. Since these three elements are combined into a single adjustment, would you please identify the impact (before taxes and revenue related expenses) of each component?

The re-pricing of billed usage comprises 5 Α. Yes. the majority of the change in test year revenue. The 6 combined impact of the rate increase effective October 1, 7 2008 and the elimination of revenue and amortization 8 expense from adder schedules, (Schedule 59 Residential 9 Exchange, and Schedule 91 Public Purpose Tariff Rider¹) is 10 an increase of \$23,880,000. The impact of the pro forma 11 unbilled revenue compared to the amount included in results 12 of operations is a reduction of \$31,000, and the weather 13 normalization adjustment reduces revenue by \$1,837,000. 14 income adjustment is net operating resulting 15 The 16 \$14,065,000.

Q. Would you please briefly discuss electric weather
 normalization?

Company's weather normalization The 19 Α. Yes. adjustment calculates the change in kWh usage required to 20 during the twelve months ended 21 adiust actual loads September 2008 test period to the amount expected if 22 weather had been normal. This adjustment incorporates the 23 effect of both heating and cooling on weather-sensitive 24

¹ City Franchise Fee and Power Cost Adjustment revenues are eliminated in separate adjustments.

1 customer groups. The weather adjustment is developed from regression analysis of five years of billed usage per 2 customer and billing period heating and cooling degree-day 3 The resulting seasonal weather sensitivity factors 4 data. (use per customer per heating degree day and use per 5 customer per cooling degree day) are applied to monthly 6 test period customers and the difference between normal 7 heating/cooling degree-days and monthly test period 8 9 observed heating/cooling degree-days.

Q. How are normal heating and cooling degree days
defined?

Normal heating and cooling degree days are based 12 Α. on a rolling 30-year average of heating and cooling degree-13 days reported for each month by the National Weather 14 Service for the Spokane Airport weather station. For 15 heating, the 30 years are included on a heating season 16 basis, July through June, so, for example, the October 17 average reflects all the Octobers beginning in 1978 and 18 through 2007, whereas the May average reflects all of the 19 Mays beginning in 1979 and through 2008. For cooling, the 20 cooling calendar 21 30 years reflect the season years beginning in 1979 and through 2008². Each year the normal 22

² The National Climatic Data Center publication used to acquire the final quality controlled data for the Spokane Airport weather station did not include cooling degree day information prior to 1980. Consequently, the 30 year average is actually a 29 year average including the years 1980 through 2008. As a rolling average, in all future years it would contain a full 30 years of data. Heating degree day information was available for all the desired years.

values will be adjusted to capture the next heating and
 cooling season with the oldest data dropping off, thereby
 encapsulating the most recent information available at the
 end of each calendar year.

5 Q. Are there any changes in the weather adjustment 6 methodology since the company's last general rate case in 7 Idaho?

In Case No. AVU-E-08-01 the Company used a 8 Α. Yes. determine normal 9 to twenty-five year rolling average heating and cooling degree days for each month. As 10 mentioned above, in this case an additional five years have 11 average calculation. 12 included the rolling been in as is the same the method 13 process Otherwise, the introduced in Case No. AVU-E-08-01. 14

15 Q. Why are you proposing to change from a 25-year to 16 a 30-year average for normal degree days?

In response to concerns in another jurisdiction 17 Α. that twenty-five years may be insufficient to determine 18 "normal," I performed additional analysis how the 19 on Specifically, Ι rolling averages change over time. 20 compared twenty-five year rolling averages to thirty year 21 rolling averages for all data available from the NOAA 22 published Annual Climatological Summary for the Spokane 23

³ The regression analysis presented in Case No. AVU-E-08-01 used ten years of data for Schedule 1 and five years for all other schedules. In the updated analysis Schedule 1 no longer met all the statistical tests with ten years of data. The five year analysis passed all the tests and was used in this analysis.

Airport weather station. This analysis revealed that while
 both a thirty-year average and a twenty-five year average
 captures the long term trend in regional temperatures, the
 thirty-year averages showed less variability.

5 The proposed averaging process maintains the advantage 6 of reflecting current weather trends by updating the values 7 annually, while providing a less volatile statistic through 8 the use of additional years of data.

9 Q. What was the impact of electric weather 10 normalization on the twelve months ended September 2008 11 test year?

Weather was colder than normal during the winter 12 Α. and spring, and warmer than normal during the summer of the 13 test year. The adjustment to normal required the deduction 14 of 294 heating degree-days and 45 cooling degree-days. The 15 total adjustment to Idaho sales volumes was a reduction of 16 24,948,329 kWhs which is approximately 0.7 percent of 17 18 billed usage.

19

Natural Gas Revenue Normalization

20 Q. Would you please describe the natural gas revenue 21 adjustment included in Ms. Andrews pro forma results of 22 operations?

23 A. Yes. The natural gas revenue normalization 24 adjustment is similar to the electric adjustment and 25 represents the difference between the Company's actual

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recorded retail revenues during the twelve months ended 1 2 September 2008 test period and retail revenues on a normalized (pro forma) basis. The adjustment includes the 3 4 re-pricing of pro forma sales and transportation volumes at present rates (effective October 1, 2008) using pro forma 5 sales volumes that have been adjusted for unbilled sales, 6 material customer load or and any 7 abnormal weather, schedule changes. The rates used exclude: 1) Temporary 8 Gas Rate Adjustment Schedule 155, which reflects the 9 approved amortization rate for deferred gas costs approved 10 in the Company's last PGA filing and 2) Public Purposes 11 12 Rider Adjustment Schedule 191.

Q. Does the Revenue Normalization Adjustment contain a component reflecting normalized gas costs?

A. Yes. Purchase gas costs are normalized using the gas costs approved by the Commission in Case No. AVU-G-08-03, the Company's 2008 PGA filing⁴, as set forth under Schedule 150. Those gas costs are then applied to the pro forma retail sales volumes so that there is a matching of revenues and gas costs.

21 The total net amount of the natural gas revenue 22 normalization, which includes the purchase gas cost 23 adjustment, is an increase to net operating income of

⁴ The January 6, 2009 gas cost reduction to customer charges was accomplished through Schedule 155 which is excluded from base revenues.

\$2,359,000, as shown in column (i), page 5 of Ms. Andrews
 Exhibit No.10, Schedule 2.

3 Q. Would you please briefly discuss natural gas
4 weather normalization?

The natural gas weather adjustment is 5 Α. Yes. developed from a regression analysis of ten years of billed 6 usage per customer and billing period heating degree-day 7 The resulting seasonal weather sensitivity factors 8 data. 9 (use per customer per heating degree day) are applied to monthly test period customers and the difference between 10 normal heating degree-days and monthly test period observed 11 heating degree-days. This calculation produces the change 12 in therm usage required to adjust existing loads to the 13 amount expected if weather had been normal. 14

15

Q. How are normal heating degree days defined?

Normal heating degree-days are based on a rolling 16 Α. 30-year average of heating degree-days reported for each 17 month by the National Weather Service for the Spokane 18 Airport weather station. The 30 years are included on a 19 heating season basis, July through June, so, for example, 20 the October average reflects all the Octobers beginning in 21 1978 and through 2007 whereas the May average reflects all 22 of the Mays beginning in 1979 and through 2008. Each year 23 the normal values will be adjusted to capture the next 24 heating season with the oldest data dropping off, thereby 25

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encapsulating the most recent information available at the
 end of each calendar year.

Q. Other than the change from a 25-year rolling average to a 30-year rolling average discussed with regards to electric weather normalization, were any changes made to the gas weather normalization methodology?

7 A. No, the process for determining the weather 8 sensitivity factors and the monthly adjustment calculation 9 are the same as the method introduced in Case No. AVU-G-08-10 01.

11 Q. What was the impact of natural gas weather 12 normalization on the twelve months ended September 2008 13 test year?

Α. colder than normal during the 14 Weather was adjustment to normal 2007/2008 heating season. The 15 16 required the deduction of 352 heating degree-days from Warmer than normal weather that 17 October through June. occurred during the summer months did not impact gas usage 18 The 19 as customers are at baseload during that time. adjustment to sales volumes was a reduction of 2,827,731 20 therms which is approximately 2.3 percent of billed usage. 21 The margin impact (revenue less gas cost) of the weather 22 adjustment was a reduction of \$834,000. 23

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III. PROPOSED RETAIL REVENUE CREDIT RATE

Q. Company witness Mr. Johnson discusses using the average cost of production and transmission for the retail revenue credit rate in the Power Cost Adjustment (PCA). How is that rate determined?

A. The retail revenue credit rate is determined by 6 7 proposed revenue requirement on the computing the production and transmission subset of Ms. Andrews Idaho 8 9 Electric Pro forma Total Results of Operations. The production/transmission revenue requirement amount is then 10 divided by the Idaho Normalized Retail Load used to set 11 12 rates in order to arrive at the average production and 13 transmission cost per kwh embedded in proposed rates.

14

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Q. Is this process illustated in an Exhibit?

A. Yes. Exhibit No. 11, Schedule 1 begins with the identification of the production and transmission revenue, expense and rate base amounts included in each of Ms. Andrews actual, restating, and pro forma adjustments to results of operations. The "Pro Forma Total" at the bottom of page 1 shows the resulting subset of these components.

Page 2 shows the revenue requirement calculation on the production and transmission cost components. The rate of return and debt cost percentages on line 2 are inputs from the proposed cost of capital. The normalized retail load on Line 10 comes from the workpapers to the revenue

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normalization adjustment. The proposed retail revenue
 credit rate is shown on Line 11 and represents the average
 Production and Transmission cost per kWh proposed to be
 embedded in Idaho customer retail rates.

IV. ELECTRIC COST OF SERVICE

6 Q. Please briefly summarize your testimony related 7 to the electric cost of service study.

5

I believe the Base Case cost of service study 8 Α. presented in this case is a fair representation of the 9 costs to serve each customer group. The Base Case study 10 shows Residential Service Schedule 1, Extra Large General 11 Service Schedule 25 and 25P, and Street and Area Lighting 12 13 provide less than the overall rate of return under present rates. General Service Schedule 11, Large General Service 14 Schedule 21 and Pumping Service Schedule 31 provide more 15 than the overall rate of return under present rates but 16 17 less than the requested return.

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

of service study is an electric cost 20 Α. An engineering-economic study, which separates the revenue, 21 expenses, and rate base associated with providing electric 22 service to designated groups of customers. The groups are 23 made up of customers with similar load characteristics and 24 facilities requirements. Costs are assigned in relation to 25

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each group's characteristics, resulting in an evaluation of 1 the cost of the service provided to each group. The rate 2 of return by customer group indicates whether the revenue 3 provided by the customers in each group recovers the cost 4 to serve those customers. The study results are used as a 5 guide in determining the appropriate rate spread among the 6 Exhibit No. 11, Schedule 2 explains 7 aroups of customers. the basic concepts involved in performing an electric cost 8 It also details the specific methodology 9 of service study. and assumptions utilized in the Company's Base Case cost of 10 service study. 11

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

A. The electric cost of service study provided by the Company as Exhibit No.11, Schedule 3 is based on the twelve months ended September 2008 test year pro forma results of operations presented by Company witness Ms. Andrews in Exhibit No.10, Schedule 1.

Q. Would you please explain the cost of service
study presented in Exhibit No. 11, Schedule 3?

A. Yes. Exhibit No. 11, Schedule 3 is composed of a
series of summaries of the cost of service study results.
The summary on page 1 shows the results of the study by
FERC account category. The rate of return by rate schedule
and the ratio of each schedule's return to the overall

Knox, Di 13 Avista Corporation return are shown on Lines 39 and 40. This summary was
 provided to Mr. Hirschkorn for his work on rate spread and
 rate design. The results will be discussed in more detail
 later in my testimony.

Pages 2 and 3 are both summaries that show the revenue 5 to cost relationship at current and proposed revenue. 6 Costs by category are shown first at the existing schedule 7 returns (revenue); next the costs are shown as if all 8 schedules were providing equal recovery (cost). These 9 comparisons show how far current and proposed rates are, 10 from rates that would be in alignment with the cost study. 11 the costs segregated into production, 12 Page 2 shows functional transmission, distribution, and common 13 Page 3 segregates the costs into demand, 14 categories. energy, and customer classifications. 15

16 The Excel model used to calculate the cost of service 17 and supporting schedules have been included in their 18 entirety both electronically and hard copy in the 19 workpapers accompanying this case.

20 Q. Does the Company's electric Base Case cost of 21 service study follow the methodology accepted in the 22 Company's last electric general rate case in Idaho?

A. Yes. The Base Case cost of service study wasprepared using the methodology accepted by the Idaho

Knox, Di 14 Avista Corporation 1 commission in Case No. AVU-E-04-01 and used in Case No.
2 AVU-E-08-01.

Q. Given that the specific details of this methodology are described in Exhibit No. 11, Schedule 2, would you please give a brief overview of the key elements and the history associated with those elements?

Production and transmission costs 7 Α. are Yes. classified to energy and demand by a peak credit analysis. 8 Avista has been using the peak credit classification 9 process for cost of service studies in both Washington and 10 Idaho jurisdictions since the 1980's. Distribution costs 11 are classified and allocated by the basic customer theory 12 accepted by the Idaho commission in Case No. WWP-E-98-11. 13 Additional direct assignment of demand related distribution 14 reflect improvements incorporated to 15 plant has been AVU-E-04-01. accepted by the commission in Case No. 16 are first directly 17 Administrative and general costs assigned to production, transmission, distribution, or 18 customer relations functions. The remaining administrative 19 and general costs are categorized as common costs and have 20 been assigned to customer classes by the four-factor 21 allocator accepted by the Idaho commission in Case No. AVU-22 23 E-04-01.

⁵ Basic customer theory classifies only meters, services and the direct assignment of street light fixtures as customerrelated plant; all other distribution facilities are considered demand-related.

Q. What are the results of the Company's Base Case
 cost of service study?

A. The following table shows the rate of return and the relationship of the customer class return to the overall return (relative return ratio) at <u>present rates</u> for each rate schedule:

7 Illustration 1:

Customer Class	<u>Rate of Return</u>	<u>Return Ratio</u>
Residential Service Schedule 1	4.56%	0.85
General Service Schedule 11	7.89%	1.48
Large General Service Schedule 21	6.74%	1.26
Extra Large General Service Schedule 25	3.15%	0.59
Ex. Lg. Gen. Service Potlatch Schedule 25P	3.93%	0.73
Pumping Service Schedule 31	7.64%	1.43
Lighting Service Schedules 41 - 49	4.89%	0.92
Total Idaho Electric System	<u>5.348</u>	<u>1.00</u>

As can be observed from the above table, residential, 8 extra large general service, and lighting service schedules 9 (1, 25, 25P, and 41-49) show under-recovery of the costs to 10 serve them, while the general, large general, and pumping 11 service schedules (11, 21, and 31) show over-recovery of 12 the costs to serve them. However, all customer groups are 13 currently providing a rate of return lower than the rate of 14 return requested in this case. The summary results of this 15 study were provided to Mr. Hirschkorn as an input into 16 17 development of the proposed rates.

V. DEMAND STUDY

Q An issue was raised in Case No. AVU-E-08-01 regarding the load data used to develop demand allocations in the electric cost of service. Please elaborate on this issue.

1

In the last rate case, the Company indicated 6 Α. that, while the estimation process used to create the 7 demand allocators in the cost of service study provides a 8 reasonable assignment of cost to the existing customer 9 groups, the Company's load data was in the process of being 10 Accordingly, the Commission provided the 11 updated. following directive on page 13 of its Order No. 30647: 12

13 In this case the Commission finds the Company-filed 14 cost of service study to be sufficient to determine 15 rate design in this case. We direct the Company in its 16 next general rate case to provide updated load data as 17 part of its COS study <u>or, in the alternative, show how</u> 18 <u>the lack of such an update affects COS-based revenue</u> 19 <u>allocations to customer classes</u>. (emphasis added) 20

21 Q Has the Company provided updated load data as 22 part of the cost of service study in this case?

While an electric demand study is currently 23 Α. No. underway, with nearly all sample meters in place collecting 24 data (and the last few expected to be in place shortly), a 25 full year of hourly load data is necessary to make use of 26 the information in the cost of service demand allocations. 27 The first full year of sample data will be collected over 28 the calendar year 2009. Consequently, the earliest that a 29

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general rate filing could incorporate updated load study
 data would be sometime in 2010.

Q. Have you performed a sensitivity analysis to determine the potential impact of updated load information on cost of service based revenue allocations to customer classes?

7 A. Yes. There are two types of demand allocations, 8 namely coincident peak and non-coincident peak. The 9 coincident peak allocations are applied to demand-related 10 production and transmission costs. The non-coincident peak 11 allocations are applied to demand-related distribution 12 costs.

I ran two sensitivity cases to determine how changes in non-coincident demand for each customer class, i.e., from a new load study, would affect the allocation of demand costs. I also ran two sensitivity cases to determine how changes in coincident demand for each customer class would affect the allocation of demand costs.

Before I walk through the four sensitivity studies, it is important to have some context for what we are trying to test with the studies. Column (a) in the table below shows the relative rates of return for each customer class from our Base Case cost of service study under present retail rates. Column (b) shows the relative rates of return by schedule after application of the proposed rate increase in

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this case. As Mr. Hirschkorn explains in his testimony,
 the spread of the revenue increase to each customer class
 was designed to move each customer class closer to unity
 (with the exception of Street and Area Lights).

5	I	Present Relative ROR	Proposed Relative ROR
7	-	(a)	(b)
8	Residential Sch. 1	0.85	0.86
9	General Srvc. Sch. 11	1.48	1.27
10	Lg. Gen. Srvc. Sch. 21	1.26	1.17
11	Ex. Lg. Gen. Srvc. Sch. 25	5 0.59	0.84
12	Potlatch-Lewiston Sch. 251	P 0.73	0.99
13	Pumping Srvc. Sch. 31	1.43	1.28
14	Street & Area Lgt. Schs.	0.92	0.73
15	Overall	1.00	1.00

The table shows that the relative rate of return for 16 some customer schedules is above unity (1.0) for both 17 present rates and proposed rates, and others are below 18 The purpose of the sensitivity studies is to 19 unity. determine whether demand data from a new load study would 20 likely cause us to spread the revenue increase to customer 21 classes differently than that proposed by the Company in 22 23 this case.

Q. What was your conclusion after running the four
 sensitivity studies?

A. The results of each of the studies, that I will explain below, show that while an updated load study may fine tune the cost relationships among the customer groups,

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1 we can expect relatively small changes in the overall cost 2 of service results. Therefore, we believe the current cost 3 of service study provides a sound foundation for rate 4 spread purposes.

5 Scenario 1

Q. What did you test in the first sensitivity run,
and what did the results show?

The first sensitivity run, which I will refer to 8 Α. as Scenario 1, was designed to examine how a change in the 9 non-coincident peak for each customer class would affect 10 the allocation of demand-related **distribution** costs. For 11 this scenario I simply took the non-coincident peak demand 12 for each customer class embedded in the cost of service 13 study, and doubled the demand for each class, with the 14 exception of Schedules 25 and 25P. By doubling the demand 15 for each class, we will see what happens demand to 16 allocations if a new load study were to show that the non-17 coincident peak demand for each class were to increase in 18 19 the same proportion.

20 Q. Why did you not double the peak demand for 21 Schedules 25 and 25P?

A. We already have hourly metering, and hourly data, for Schedules 25 and 25P, so we already know what their actual non-coincident peak demand is without a new load study.

It is also important to note, as I mentioned earlier, 1 that the non-coincident peak demand analysis is used 2 entirely to allocate demand-related **distribution** costs. 3 Nearly all demand-related distribution costs for Schedules 4 25 and 25P are directly assigned, and therefore, a change 5 in the non-coincident peak demand for these Schedules would 6 result in essentially no change in the allocation of 7 distribution costs to these Schedules. 8

What were the results from this first scenario? 9 0. The results from Scenario 1, compared with the 10 Α. Base Case cost of service study filed in this case, are 11 summarized on Exhibit 11, Schedule 4, lines 1 through 8. 12 Although the rate base and net income values change 13 slightly, the relative rates of return for Scenario 1 are 14 virtually the same as our Base Case study for all customer 15 classes, as shown in the Illustration 2 below. 16

17 Illustration 2:

Customer Class	<u>Base Case</u>	<u>Scenario 1</u>
	<u>Rate of Return</u>	<u>Rate of Return</u>
Residential Service Schedule 1	4.56% 0.85	4.56% 0.85
General Service Schedule 11	7.89% 1.48	7.89% 1.48
Large General Service Schedule 21	6.74% 1.26	6.74% 1.26
Extra Large General Service Schedule 25	3.15% 0.59	3.16% 0.59
Ex. Lg. Gen. Service Potlatch Schedule 25P	3.93% 0.73	3.94% 0.74
Pumping Service Schedule 31	7.64% 1.43	7.64% 1.43
Lighting Service Schedules 41 - 49	4.89% 0.92	4.89% 0.92
Total Idaho Electric System	5.34% 1.00	<u>5.34% 1.00</u>

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1 Therefore, if a new load study were to show a 2 significant increase in non-coincident peak demand across 3 all schedules, it would result in very little change in our 4 cost of service results.

5 Scenario 2

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6 Q. What did you test in Scenario 2, and what did the 7 results show?

8 A. The first scenario explored what would happen if 9 the non-coincident peak demand was higher for all schedules 10 than our Base Case demand data. In Scenario 2 I wanted to 11 test what would happen if a new load study were to indicate 12 that some schedules have higher non-coincident peak demand 13 than our Base Case, and other schedules have lower demand.

14 For Scenario 2 I made the following adjustments to the 15 Base Case non-coincident peak demand data:

For customer classes that have a relative rate of
 return above unity (1.0) in the Base Case study, I
 increased the non-coincident peak demand for the class
 by 15%.

22 2. For customer classes that a have a relative rate of
23 return below unity (1.0), I decreased the non24 coincident peak demand for the class by 15%.

Q. What were you trying to measure by making these
adjustments?
A. In this filing we are proposing a rate spread

29 that is designed to move each customer class closer to

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unity. For example, for those customer classes that are 1 2 above unity, we are proposing a lower percentage base rate increase in order to accomplish this movement. 3 If a new load study were to show an increased non-coincident peak 4 demand for these customer classes (above unity), and a 5 lower non-coincident peak demand for the customer classes 6 below unity, it would result in the following changes to 7 8 the cost of service study:

10 1. The increase in non-coincident peak demand for 11 customer classes above unity would result in an 12 increased allocation of demand-related distribution 13 costs to these customer classes, which would lower the 14 relative rate of return for these classes (move them 15 closer to unity).

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decrease in non-coincident peak demand for 17 2. The customer classes below unity would result in a 18 decreased allocation of demand-related distribution 19 costs to these customer classes, which would increase 20 the relative rate of return for these classes (move 21 22 them closer to unity). 23

The purpose of this Scenario was to determine how much 24 movement toward unity would occur for each customer class 25 if the new load study were to show a significant increase 26 in non-coincident peak demand for classes above unity, and 27 a significant decrease for those below unity. As mentioned 28 above, we increased the non-coincident peak demand for 29 classes above unity by 15%, and reduced the demand for 30 classes below unity by 15%. 31

Q. What were the results for Scenario 2?

A. The results of Scenario 2 are shown on Exhibit No. 11, Schedule 4, lines 9 through 12. Illustration 3 below highlights the rates of return produced by this scenario compared to the base case.

Customer Class	<u>Base Case</u>	<u>Scenario 2</u>
	<u>Rate of Return</u>	<u>Rate of Return</u>
Residential Service Schedule 1	4.56% 0.85	5.19% 0.97
General Service Schedule 11	7.89% 1.48	7.09% 1.33
Large General Service Schedule 21	6.74% 1.26	5.89% 1.10
Extra Large General Service Schedule 25	3.15% 0.59	3.15% 0.59
Ex. Lg. Gen. Service Potlatch Schedule 25P	3.93% 0.73	3.93% 0.73
Pumping Service Schedule 31	7.64% 1.43	6.85% 1.28
Lighting Service Schedules 41 - 49	<u>4.89% 0.92</u>	5.02% 0.94
Total Idaho Electric System	5.34% 1.00	5.34% 1.00
6	· · · · · · · · · · · · · · · · · · ·	

5 Illustration 3:

Costs did shift in this scenario, but not enough to 7 change the rate spread implications. Schedules 11, 21 and 8 31 are still above unity, and Schedules 1 and Lighting 9 10 improved but remain less than unity. service are Therefore, even if this Scenario were to occur, there would 11 still be a need for a rate spread proposal to move relative 12 rates of return for customer classes closer to unity, 13 similar to what Mr. Hirschkorn has proposed in this case. 14

Q. Would you expect the new load study to show higher non-coincident peak demands for only the customer classes above unity, and lower non-coincident peak demands for only the customer classes below unity, as you tested in Scenario 2?

> Knox, Di 24 Avista Corporation

A. No. It is unlikely that such a scenario would actually occur. However, for my sensitivity analysis I wanted to test a scenario that is probably beyond what would likely occur.

5 Scenario 3

Lets move on to the two sensitivity studies 6 0. the class 7 related to coincident peak. How are 8 contributions to system peak demand determined in the Base 9 Case?

10 A. The coincident peak allocation factor is based on 11 the electric system hourly peak for each month of the 12 twelve-month test period (12 hourly coincident peaks). The 13 total Idaho peak load is known for the twelve peak hours.

With regard to each customer class, the peak demand for each class, for each of the 12 monthly peak hours (contribution to the system peak), is based on an analysis of monthly billing data, weather sensitivity statistics, and hourly load shapes from prior load studies.

Q. Are the twelve hourly coincident peaks for
Schedules 25 and 25P estimated in the same manner?

A. No. As I mentioned earlier, we have actual, hourly load data for Schedules 25 and 25P, and therefore, we know what their usage is at the time of the twelve monthly system peaks. Thus, with regard to the use of peak demand data in cost of service studies to allocate demand-

> Knox, Di 25 Avista Corporation

related production and transmission costs, the current cost
 of service study already includes the actual, metered
 contribution to the system peak for these schedules.

Q. What change did you make to the coincident peak demand data in Scenario 3, and what were you trying to measure?

In Scenario 3, I made one change from the Base 7 Α. Case in the determination of the hourly coincident peak 8 Rather than use hourly 9 contribution for each schedule. load shapes from prior load studies to determine the hourly 10 peak for each customer class on the peak day, I used one-11 sixteenth, or 6.25%, of the daily energy use on the peak 12 day for each class to represent the hourly peak demand at 13 14 the time of the system coincident peak.

The use of 6.25% of daily energy to represent a peak hour demand for the peak day has been used historically in the natural gas industry to determine the appropriate size of natural gas delivery service equipment. Although the 6.25% may not be perfectly transferrable to the electric industry, it provided a reasonable basis to achieve my objective in this Scenario.

22 My objective in Scenario 3 was to adjust the peak 23 demand data such that the peak hour for each customer class 24 occurred at the time of the system peak, i.e., all customer classes peak at the time of the system peak in each of the
 twelve months.

Q. What were the results of Scenario 3?
A. Scenario 3 results are shown on Exhibit 11,
Schedule 4, lines 13 through 16. Illustration 4 below
highlights the rates of return produced by this Scenario
compared to the Base Case.

8 Illustration 4:

Customer Class	Base Case	<u>Scenario 3</u>
	Rate of Return	<u>Rate of Return</u>
Residential Service Schedule 1	4.56% 0.85	4.66% 0.87
General Service Schedule 11	7.89% 1.48	7.96% 1.49
Large General Service Schedule 21	6.74% 1.26	6.55% 1.23
Extra Large General Service Schedule 25	3.15% 0.59	3.15% 0.59
Ex. Lg. Gen. Service Potlatch Schedule 25P	3.93% 0.73	3.93% 0.73
Pumping Service Schedule 31	7.64% 1.43	6.77% 1.27
Lighting Service Schedules 41 - 49	4.89% 0.92	<u>4.89% 0.92</u>
Total Idaho Electric System	<u>5.34% 1.00</u>	5,34% 1.00

9

10 The rate of return and return ratios for Schedules 1 11 and 11 rise slightly, while they fall somewhat for 12 Schedules 21 and 31, but the rate spread implications 13 remain unchanged.

14 Scenario 4

15 Q. What did you test in the fourth scenario?

A. In Scenario 4 I wanted to test what would happen if a new load study were to indicate that some schedules have a higher contribution to the system coincident peak 1 than the Base Case, and other schedules have a lower 2 contribution.

For Scenario 4 I made the following adjustments to the Base Case coincident demand data: For customer classes that have a relative rate of return above unity (1.0), I increased the demand for the class at the time of the system coincident peak by approximately 10%.⁶

11 2. For customer classes that a have a relative rate of 12 return below unity (1.0), I decreased the demand for 13 the class at the time of the system coincident peak by 14 approximately 10%.

16 Q. What were you trying to measure by making these 17 adjustments?

As I explained earlier related to Scenario 2, in 18 Α. this filing we are proposing a rate spread that is designed 19 to move each customer class closer to unity. If a new load 20 study were to show an increased contribution to the system 21 coincident peak for the customer classes above unity, and a 22 lower contribution to the system coincident peak for the 23 it would result in the customer classes below unity, 24 following changes to the cost of service study: 25

26 27 1. The increased contribution to the system coincident 28 peak for customer classes above unity would result in 29 an increased allocation of demand-related production 30 and transmission costs to these customer classes,

⁶ In order to preserve the same level of Idaho peak demand as the Base Case, it was necessary to adjust the percentage increase to Schedules 11, 21 and 31 to 11.6%, and reduce the percentage decrease for Schedules 1 and Lighting service to 9.4%.

which would lower the relative rate of return for these classes (move them closer to unity).

4 2. The decreased contribution to the system coincident 5 peak for customer classes below unity would result in 6 a decreased allocation of demand-related production 7 and transmission costs to these customer classes, 8 which would increase the relative rate of return for 9 these classes (move them closer to unity).

11 The purpose of this Scenario was to determine how much 12 movement toward unity would occur for each customer class 13 if the new load study were to show a significant increase 14 in contribution to the system coincident peak for classes 15 above unity, and a significant decrease for those below 16 unity.

Q. What were the results of Scenario 4?
A. Scenario 4 results are shown on Exhibit 11,
Schedule 4, lines 17 through 20. Illustration 5 below
highlights the rates of return produced by this scenario
compared to the Base Case.

22 Illustration 5:

Customer Class	<u>Base Case</u>	<u>Scenario</u> 4
	<u>Rate_of_Return</u>	<u>Rate of Return</u>
Residential Service Schedule 1	4.56% 0.85	5.06% 0.95
General Service Schedule 11	7.89% 1.48	7.26% 1.36
Large General Service Schedule 21	6.74% 1.26	6.09% 1.14
Extra Large General Service Schedule 25	3.15% 0.59	3.15% 0.59
Ex. Lg. Gen. Service Potlatch Schedule 25P	3.93% 0.73	3.93% 0.73
Pumping Service Schedule 31	7.64% 1.43	7.08% 1.32
Lighting Service Schedules 41 - 49	<u>4.89% 0.92</u>	4.95% 0.93
Total Idaho Electric System	<u>5.34% 1.00</u>	5.34% 1.00

23

1 2

3

1 The rate of return and return ratios for Schedules 1 2 and Lighting service improve, but are still below unity and 3 the return ratios for Schedules 11, 21 and 31 each drop by 4 about one-tenth but are still well above unity. The rate 5 spread implications remain essentially unchanged.

6 Q. Would you expect the new load study to show a 7 <u>higher</u> contribution to the system coincident peak for only 8 the customer classes <u>above unity</u>, and a <u>lower</u> contribution 9 to the system coincident peak for only the customer classes 10 below unity, as you tested in Scenario 4?

A. No. As with Scenario 2, it is unlikely that such a scenario would actually occur. However, again, for my sensitivity analysis I wanted to test a scenario that is probably beyond what would likely occur.

Q. What conclusions do you draw from these demand
 allocation sensitivity studies?

A. The following chart illustrates the return ratiosfor the Base Case and all four sensitivity scenarios:

1 Illustration 6:

2



3 As can be seen in Illustration 6 above, the 4 sensitivity analyses demonstrate that, while an updated 5 load study may fine tune the cost relationships among the 6 expect only relatively small customer groups, we can 7 The schedules that are well above changes in results. 8 unity will continue to be above unity, and the schedules 9 that are well below unity will continue to be below unity. 10 (There will be little or no change to Schedules 25 and 25P, 11 which already have actual, hourly demand data and receive 12 direct assignment of most distribution plant.) Therefore, 13 the Company believes that the existing cost of service 14 study, even absent new load study information, provides a 15 sound foundation for rate spread purposes.

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VI. NATURAL GAS COST OF SERVICE

2 Q. Please describe the natural gas cost of service 3 study and its purpose.

1

A natural gas cost of service study is an 4 Α. engineering-economic study which separates the revenue, 5 expenses, and rate base associated with providing natural 6 gas service to designated groups of customers. The groups 7 are made up of customers with similar usage characteristics 8 and facility requirements. Costs are assigned in relation 9 to each groups' characteristics, resulting in an evaluation 10 of the cost of the service provided to each group. The 11 rate of return by customer group indicates whether the 12 revenue provided by the customers in each group recovers 13 the cost to serve those customers. The study results are 14 used as a guide in determining the appropriate rate spread 15 among the groups of customers. Exhibit No.11, Schedule 5 16 explains the basic concepts involved in performing a 17 natural gas cost of service study. It also details the 18 specific methodology and assumptions utilized in the 19 Company's Base Case cost of service study. 20

21 Q. What is the basis for the natural gas cost of 22 service study provided in this case?

A. The cost of service study provided by the Company as Exhibit No.11, Schedule 6 is based on the twelve months ended September 2008 test year pro forma results of operations presented by Ms. Andrews in Exhibit No.10,
 Schedule 2.

Q. Would you please explain the cost of service
4 study presented in Exhibit No. 11, Schedule 6?

Yes. Exhibit No. 11, Schedule 6 is composed of a 5 Α. series of summaries of the cost of service study results. 6 Page 1 shows the results of the study by FERC account 7 The rate of return and the ratio of each 8 category. schedule's return to the overall return are shown on lines 9 This summary is provided to Mr. Hirschkorn for 10 38 and 39. his work on rate spread and rate design. The results will 11 be discussed in more detail later in my testimony. The 12 additional summaries show the costs organized by functional 13 category (page 2) and classification (page 3), including 14 margin and unit cost analysis at current and proposed 15 16 rates.

17 The Excel model used to calculate the cost of service 18 and supporting schedules have been included in their 19 entirety both electronically and hard copy in the 20 workpapers accompanying this case.

21 Q. Does the Natural Gas Base Case cost of service 22 study utilize the methodology from the Company's last 23 natural gas case in Idaho? 1 A. Yes. The Base Case cost of service study was 2 prepared using the methodology accepted by the Idaho 3 Commission in Case No. AVU-G-04-01 and AVU-G-08-01.

Q. What are the key elements that define the cost of
service methodology?

Purchased gas costs are derived from the current 6 Α. purchased gas tracker methodology. Underground storage 7 allocated by normalized winter throughput. 8 costs are Natural gas main investment has been segregated into large 9 and small mains. Large usage customers that take service 10 from large mains do not receive an allocation of small 11 Meter installation and services investment is 12 mains. allocated by number of customers weighted by the relative 13 current cost of those items. System facilities that serve 14 all customers are classified by the peak and average ratio 15 that reflects the system load factor, then allocated by 16 throughput, respectively. 17 coincident peak demand and Demand side management costs are treated in the same way as 18 system facilities. General plant is allocated by the sum 19 of all other plant. Administrative & general expenses are 20 segregated into labor related, plant related, revenue 21 related, and "other". The costs are then allocated by 22 factors associated with labor, plant in service, or 23 The "other" A&G amounts get a 24 revenue, respectively. combined allocation that is one-half based on O&M expenses 25

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and one-half based on throughput. A detailed description
 of the methodology is included in Exhibit No.11, Schedule
 5.

Q. What are the results of the Company's natural gas
cost of service study?

I believe the Base Case cost of service study 6 A. presented in this filing is a fair representation of the 7 costs to serve each customer group. The study indicates 8 that Large Firm general service Schedule 111 is providing 9 slightly less than the overall return (unity), while all 10 other schedules are providing slightly more than unity to 11 varving degrees. The return for all of the Schedules are 12 relatively close to the overall return indicating the 13 current rate spread is fair. 14

15 The following table shows the rate of return and the 16 relative return ratio at <u>present</u> <u>rates</u> for each rate 17 schedule:

18

Illustration 7:

Customer Class	<u>Rate of</u>	<u>Return Ratio</u>
	<u>Return</u>	
Residential Service Schedule 101	6.97%	1.02
Small Firm Service Schedule 111	6.24%	0.91
Interruptible Service Schedule 131	7.448	1.08
Transportation Service Schedule 146	8.78%	<u>1.28</u>
Total Idaho Natural Gas System	<u>6.87%</u>	<u>1.00</u>

19

The summary results of this study were provided to Mr.
 Hirschkorn as an input into development of the proposed
 rates.

4 Q. Does this conclude your pre-filed direct 5 testimony?

6 A. Yes.

DAVID J. MEYER VICE PRESIDENT AND CHIEF COUNSEL OF 2009 JAN 23 PM 12:45 UTILITIES COMMISSION 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

BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION

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IN THE MATTER OF THE APPLICATION) CASE NO. AVU-E-09-01 OF AVISTA CORPORATION FOR THE AUTHORITY TO INCREASE ITS RATES AND CHARGES FOR ELECTRIC AND NATURAL GAS SERVICE TO ELECTRIC AND NATURAL GAS CUSTOMERS IN THE) STATE OF IDAHO

CASE NO. AVU-G-09-01

CIVEN

) EXHIBIT NO. 11 TARA L. KNOX

FOR AVISTA CORPORATION

(ELECTRIC AND GAS)

AVISTA UTILITIES

AVERAGE PRODUCTION AND TRANSMISSION COST IDAHO ELECTRIC <u>TWELVE MONTHS ENDED SEPTEMBER 30, 2008</u>

			Produ	ction/Transmissi	ion
Column	Description of Adjustment	(000's)	Revenue	Expense	Rate Base
b	Per Results Report	-	87,662	196,202	337,543
c	Deferred FIT Rate Base		,	-	(47,411)
d	Deferred Gain on Office Building				(, ,
e	Colstrin 3 AFUDC Elimination		-	202	1.956
f	Colstrip Common AFLIDC		-		925
л а	Kettle Falls & Boulder Park Disallow		-	· _	(2.233)
5 h	Customer Advances			-	(_,)
и ;	Weatheriza and DSM Investment		-	_	1.669
1	Weatheriza and DSW myestment				.,
	Actual		87,662	196,404	292,449
j	Depreciation True-up		-	(377)	-
k	Eliminate B & O Taxes			-	
1	Property Tax		•	1,143	
m	Uncollect. Expense			-	
n	Regulatory Expense			-	
0	Injuries and Damages			-	
р	FIT			-	
q	Idaho PCA			5,603	
r	Nez Perce Settlement Adjustment			(12)	
s	Eliminate A/R Expenses			-	
t	Misc Restating Adis				
u U	Revenue Normalization Adjustment		59	1,358	
v	Clark Fork PM&E			1.010	
w	Restate Debt Interest			-,	
vv	Restate Debt merest				
	Restated Total		87,721	205,129	292,449
PF1	Pro Forma Power Supply		(55,375)	(45,585)	
PF2	Pro Forma Production Property Adj		(1,332)	(6,528)	(10,202)
PF3	Pro Forma Labor Non-Exec			399	
PF4	Pro Forma Labor Exec			5	
PF5	Pro Forma Transmission Rev/Exp		13	5	-
PF6	Pro Forma Canital Add 2008			(39)	3,427
PE7	Pro Forma Capital Add 2000			. 661	2,929
DE8	Pro Forma Information Services			-	_,
DEO	Pro Forma Agent Management			240	-
FF9 DE10	Pro Forma Spalana Byr Balianaing			240	12 184
PEIL	Pro Forma Spokane Kvr Kencensing			2,100	7 861
PFII	Pro Forma CDA Tribe Settlement			1017	1,001
PF12	Pro Forma Montana Lease			1,917	1,565
PF13	Pro Forma Colstrip Mercury Emiss. O&M			590	-
PF14	Pro Forma Incentives			-	
PF16	Pro Forma ID AMR			-	
PF15	Pro Forma CS2 Levelized Adj			199	
PF16	Pro Forma ID AMR			-	
PF17	Pro Forma O&M Plant Expense			1,400	
PF18	Pro Forma Employee Benefits			368	
PF19	Pro Forma Insurance			-	
PF20	Pro Forma Chicago Climate (CCX)		425	-	
PF21	Pro Forma Wartsila Amortization			185	
PF22	Pro Forma Colstrip Lawsuit Stlmnt			369	
	•				
	Pro Forma Total		31,452	161,822	310,231

Exhibit No. 11 Case No. AVU-E-09-01 T. Knox, Avista Schedule 1, p. 1 of 2

AVISTA UTILITIES

AVERAGE PRODUCTION AND TRANSMISSION COST IDAHO ELECTRIC <u>TWELVE MONTHS ENDED SEPTEMBER 30, 2008</u>

Proposed Production and Transmission Revenue Requirement Calculation of Retail Revenue Credit Rate at Proposed Return

Line 1	Prod/Trans	Pro Forma Rate Base	(\$000's) \$310,231	Debt Cost
2		Proposed Rate of Return	8.800%	3.300%
3	Rate Base	Net Operating Income Requirement	\$27,300	
4	Tax Effect	Net Operating Income Requirement (Rate Base x Debt Cost x -35%)	(\$3,583)	
5	Net Expense	Net Operating Income Requirement (Expense - Revenue)	130,370	
6	Tax Effect	Net Operating Income Requirement (Net Expense x35%)	(\$45,629)	
7	Total Prod/Trans	Net Operating Income Requirement	\$108,457	
8	1 - Tax Rate	Conversion Factor (Excl. Rev. Rel. Exp.)	0.65	
9	Prod/Trans	Revenue Requirement	\$166,857	
10	12ME Sept 2008 II	D Normalized Retail Load MWh	3,487,446	
11	Prod/Trans Rev Re	quirement per kWh (Retail Revenue Credit Rate)	\$ 0.04785	

Exhibit No. 11 Case No. AVU-E-09-01 T. Knox, Avista Schedule 1, p. 2 of 2

1. ELECTRIC COST OF SERVICE

A cost of service study is an engineering-economic study, which apportions the revenue, expenses, and rate base associated with providing electric service to designated groups of customers. It indicates whether the revenue provided by the customers recovers the cost to serve those customers. The study results are used as a guide in determining the appropriate rate spread among the groups of customers.

7 There are three basic steps involved in a cost of service study: functionalization,
8 classification, and allocation. See flow chart.

9 First, the expenses and rate base associated with the electric system under study are 10 assigned to functional categories. The uniform system of accounts provides the basic segregation 11 into production, transmission, and distribution. Traditionally customer accounting, customer 12 information, and sales expenses are included in the distribution function and administrative and 13 general expenses and general plant rate base are allocated to all functions. In this study I have 14 created a separate functional category for common costs. Administrative and general costs that 15 cannot be directly assigned to the other functions have been placed in this category.

Second, the expenses and rate base items that cannot be directly assigned to customer 16 groups are classified into three primary cost components: energy, demand or customer related. 17 Energy related costs are allocated based on each rate schedule's share of commodity consumption. 18 Demand (capacity) related costs are allocated to rate schedules on the basis of each schedule's 19 contribution to peak demand. Customer related items are allocated to rate schedules based on the 20 number of customers within each schedule. The number of customers may be weighted by 21 appropriate factors such as relative cost of metering equipment. In addition to these three cost 22 components, any revenue related expense is allocated based on the proportion of revenues by rate 23

schedule.

Exhibit No. 11 Case No. AVU-E-09-01 T. Knox, Avista Schedule 2, p. 1 of 9

1

ELECTRIC COST OF SERVICE STUDY FLOWCHART



Pro Forma Results of Operations by Customer Group

1

Exhibit No. 11 Case No. AVU-E-09-01 T. Knox, Avista Schedule 2, p. 2 of 9

1	The final step is allocation of the costs to the various rate schedules utilizing the allocation
2	factors selected for each specific cost item. These factors are derived from usage and customer
3	information associated with the test period results of operations.
4	BASE CASE COST OF SERVICE STUDY
5	Production and Transmission Classification (Peak Credit)
6	This study utilizes a Peak Credit methodology to classify production and transmission costs
7	into demand and energy classifications. The Peak Credit method acknowledges that baseload
8	production facilities provide energy throughout the year as well as capacity during system peaks
9	and likewise the transmission system is built not only for peak use, but also for everyday delivery
10	of energy. The demand/energy ratio is determined by the relationship of the current replacement
11	cost per kW generating capacity of the Company's peaking units to the current replacement cost
12	per kW generating capacity of the Company's thermal or hydro plant. The peak credit ratio for
13	thermal plant is 37.16% to demand and 62.84% to energy. The peak credit ratio for hydro plant is
14	36.49% to demand and 63.51% to energy. As an intermediate resource (between peaking and
15	baseload), Coyote Springs II has been included with the thermal plant costs, whereas all other
16	plants in the 340 to 349 FERC plant accounts are considered peaking units.
17	Transmission costs are classified by fifty-fifty weighting of the thermal and hydro peak
18	credit ratios resulting in the transmission peak credit ratio of 36.49% to demand and 63.51% to
19	energy. Fuel and load dispatching expenses are classified entirely to energy. Peaking plant related

20 costs are classified entirely to demand. Purchased Power and Other Power Supply expenses are 21 classified to demand and energy by the relative amounts of assigned and allocated Production Plant 22 in Service.

> Exhibit No. 11 Case No. AVU-E-09-01 T. Knox, Avista Schedule 2, p. 3 of 9

1

Production and Transmission Allocation

Production and transmission demand related costs are allocated to the customer classes by class contribution to the average of the twelve monthly system coincident peak loads. Although the Company is usually technically a winter peaking utility, it experiences high summer peaks and careful management of capacity requirements is required throughout the year. The use of the average of twelve monthly peaks recognizes that customer capacity needs are not limited to the heating season.

8 Energy related costs are allocated to class by pro forma annual kilowatthour sales adjusted
9 for losses to reflect generation level consumption.

10

Distribution Facilities Classification (Basic Customer)

11 The Basic Customer method considers only services and meters and directly assigned 12 Street Lighting apparatus (FERC Accounts 369, 370, and 373 respectively) to be customer related 13 distribution plant. All other distribution plant is then considered demand related. This division 14 delineates plant which benefits an individual customer from plant which is part of the system. The 15 basic customer method provides a reasonable, clearly definable division between plant that 16 provides service only to individual customers from plant that is part of the interconnected 17 distribution network.

18

Customer Relations Distribution Cost Classification

19 Customer service, customer information and sales expenses are the core of the customer 20 relations functional unit which is included with the distribution cost category. For the most part 21 they are classified as customer related. Exceptions are sales expenses which are classified as 22 energy related and uncollectible accounts expense which is considered separately as a revenue 23 conversion item. Demand Side Management expenses recorded in Account 908 are also 24 considered separately from the other customer information costs.

> Exhibit No. 11 Case No. AVU-E-09-01 T. Knox, Avista Schedule 2, p. 4 of 9

1 The demand side management investment and amortization are classified implicitly to 2 demand and energy by the sum of production plant in service, then allocated to rate schedules by 3 coincident peak demand and energy consumption respectively.

4

Distribution Cost Allocation

Distribution demand related costs which cannot be directly assigned are allocated to 5 customer class by the average of the twelve monthly non-coincident peaks for each class. 6 Distribution facilities that serve only secondary voltage customers are allocated by the non-7 coincident peak excluding primary voltage customers or number of customers excluding primary 8 voltage customers. This includes line transformers, services, and secondary voltage overhead or 9 10 underground conductors and devices. The costs of specific substations and related primary voltage 11 distribution facilities are directly assigned to Extra Large General Service customers based on their 12 load ratio share of the substation capacity from which they receive service.

Most customer costs are allocated by average number of customers. Weighted customer allocators have been developed using typical current cost of meters, estimated meter reading time, and direct assignment of billing costs for hand-billed customers. Street and area light customers are excluded from metering and meter reading expenses as their service is not metered.

17

Administrative and General Costs

Administrative and general costs which are directly associated with production, transmission, distribution, or customer relations functions are directly assigned to those functions and allocated to customer class by the relevant plant or number of customers. The remainder of administrative and general costs are considered common costs, and have been left in their own functional category. These common costs are classified by the implicit relationship of energy, demand and customer within the four-factor allocator applied to them. The four-factor allocator consists of a 25% weighting of each of the following: 1) operating & maintenance expenses

> Exhibit No. 11 Case No. AVU-E-09-01 T. Knox, Avista Schedule 2, p. 5 of 9

excluding resource costs, labor expenses, and administrative and general expenses; 2) operating
 and maintenance labor expenses excluding administrative and general labor expenses; 3) net
 production, transmission, and distribution plant; and 4) number of customers.

4

Revenue Conversion Items

In this study uncollectible accounts and commission fees have been classified as revenue related and are allocated by pro forma revenue. These items vary with revenue and are included in the calculation of the revenue conversion factor. Income tax expense items are allocated to schedules by net income before income tax adjusted by interest expense.

For the functional summaries on pages 2 and 3 of the cost of service study, these items are assigned to component cost categories. The revenue related expense items have been reduced to a percent of all other costs and loaded onto each cost category by that ratio. Similarly, income tax items have been reduced to a percent of net income before tax then assigned to cost categories by relative rate base (as is net income).

14 The following matrix outlines the methodology applied in the Company Base Case cost of 15 service study.

> Exhibit No. 11 Case No. AVU-E-09-01 T. Knox, Avista Schedule 2, p. 6 of 9

IPUC Case No. AVU-E-09-01 Methodology Matrix Avista Utilities Idaho Jurisdiction Electric Cost of Service Methodology			
Line Account	Functional Category	Classification	Allocation
Production Plant			
1 Thermal Production	$\mathbf{P} = \mathbf{Production}$	Demand/Energy by Thermal Peak Credit	D01/E02 Coincident Peak Demand/Annual Generation Level Consumption
2 Hydro Production	$\mathbf{P} = \mathbf{Production}$	Demand/Energy by Hydro Peak Credit	D01/B02 Coincident Peak Demand/Annual Generation Level Consumption
3 Other Production (Coyote Springs)	P = Production	Demand/Energy by Thermal Peak Credit	D01/E02 Coincident Peak Demand/Annual Generation Level Consumption
4 Other Production	P = Production	Demand	D01 Connected the Connect Peak Demand
Transmission Plant			
5 All Transmission	T = Transmission	Demand/Energy by Trans Peak Credit	D01/E02 Coincident Peak Demand/Annual Generation Level Consumption
Distribution Plant			
6 360 Land	D = Distribution	Demand	D02 Non-coincident Peak Demand (NCP)
7 361 Structures	D = Distribution	Demand	D03/D04/D05 Direct Assign Large / Non-coincident Peak Demand Excl DA
8 362 Station Equipment	D = Distribution	Demand	U05/D04/D05 Direct Assign Large / Non-coincident Feak Demand EXci DA D02/C04/D06/D07 Direct Assign I arre & I ichts / NCP Reci DA / NCP Secondery
y 504 Poles Lowers & Fixures 10 265 Orientand Conductors & Devices	U = Distribution D = Distribution	Demand	D03/C04/D06 Direct Assign Latge & Lights / ICI Lat LCA LAN LCA Secondary
11 366 I Inderorating Conduit	D = Distribution	Demand	D03/C04/D06 Direct Assign Large / NCP Excl DA / NCP Secondary
12 367 Underground Conductors & Devices	D = Distribution	Demand	D03/C04/D06 Direct Assign Large / NCP Excl DA / NCP Secondary
13 368 Line Transformers	D = Distribution	Demand	D06 Non-coincident Peak Demand Secondary
14 369 Services	D = Distribution	Customer	C02 Secondary Customers unweighted Excl Lighting
15 370 Meters 16 373 Street and Area Lighting Systems	D = Distribution D = Distribution	Customer Customer	C04 Customers weighted by Current Typical Meter Cost C05 Direct Assignment to Street and Area Lights
General Plant			
17 All General	0=0ther	Demand/Energy/Customer by Corp Cost Allocator	523 2.5% direct U&M, 2.5% direct labor, 2.5% net direct plant, 2.5% minuber of customers
Intangible Plant 18 301 Oreanization	0=Other	Energy/Customer by Corp Cost Allocator	S23 25% direct O&M, 25% direct labor, 25% net direct plant, 25% number of customers
19 302 Franchises & Consents - Hydro Relicensing	$\mathbf{P} = \mathbf{P}$ roduction	Demand/Energy by Hydro Peak Credit	D01/E02 Coincident Peak Demand/Annual Generation Level Consumption
 303 Mise Intangible Plant - Transmission Agreements 303 Mise Intangible Plant - Software 	T = Transmission $O = Other$	Demand/Energy by Trans Peak Credit Demand/Energy/Customer by Corp Cost Allocator	D01/E02 Coincident Peak Demand/Amnual Generation Level Consumption S23 25% direct O&M, 25% direct labor, 25% net direct plant, 25% number of customers
		3	
Reserve for Depreciation/Amortization	P/T/O	Follows Related Plant	S01/S02/S23 Sum of Production Plant / Sum of Transmission Plant / Corp Cost Allocator
23 Production	$\mathbf{P} = \mathbf{P}$ roduction	Follows Related Plant	D01/E02 Coincident Peak Demand/Annual Generation Level Consumption
24 Transmission	T = Transmission	Follows Related Plant	D01/B02 Coincident Peak Demand/Annual Generation Level Consumption
25 Listibution 26 General	D = Distribution 0=0ther	Follows related Flatm Demand/Energy/Customer by Corp Cost Allocator	S23 25% direct Q&M, 25% direct labor, 25% net direct plant, 25% number of customers
Other Rate Base			•
27 252 Customer Advances for Construction	D = Distribution	Customer	S13 Sum of Account 369 Services Plant
28 282/190 Accumulated Deferred Income Tax	P/T/D/O by Plant Balances	Follows Related Plant	S01/S02/S03/S04 Sums of Production / Iransmussion / Distribution / General Plant co2 760, dissoit OBM 750, dissoit labor 750, and dissoit alout 750, mumber of micromere
29 Gain on Sale of General Uttice Building 30 Hydro Related Deferred Balances	Q = Q under P = P roduction	Demand Energy/Customer by Corp Cost Allocator Demand/Energy by Hydro Peak Credit	D01/E02 Coincident Peak Demand/Annual Generation Level Consumption
31 Demand Side Management Investment	DSM	Demand/Energy from Production Plant	S01 Sum of Production Plant
Production O&M			
32 Thermal	$\mathbf{P} = \mathbf{Production}$	Demand/Energy by Thermal Peak Credit	D01/E02 Coincident Peak Demand/Annual Generation Level Consumption
55 Incrimat Fues (2011) 34 Hydro	$\mathbf{F} = \mathbf{F}$ roduction	Demand/Energy by Hydro Peak Credit	D01/E02 Coincident Peak Demand/Annual Generation Level Consumption
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	Allocation	 E02 Annual Generation Level Consumption D01/E02 Coincident Peak Demand/Annual Generation Level Consumption E02 Annual Generation Level Consumption D01 Coincident Peak Demand 	D01/E02 Coincident Peak Demand/Annual Generation Level Consumption E02 Annual Generation Level Consumption	D01/E02 Coincident Peak Demand/Annual Generation Level Consumption	S16 Sum of Other Distribution Operating Expenses D02 Non-coincident Peak Demand	Sup Sum of Account 362 Station Equipment S10 Sum of Accounts 364 and 365 Poles, Towers, Fixtures & Overhead Conductors	S11 Sum of Accounts 366 and 367 Underground Conduit & Underground Conductors S15 Sum of Account 373 Street Light and Signal Systems	S14 Sum of Account 370 Meters S13 Sum of Account 360 Services	S16 Sum of Other Distribution Derating Expenses D02 Non-conjectent Peak Demand	S17 Sum of Other Distribution Maintenance Exnenses	S08 Sum of Account 361 Structures & Inprovements	S09 Sum of Account 362 Station Equipment	S10 Sum of Accounts 564 and 365 Poles, I owers, Fixtures & Uverthead Conductors S11 Sum of Accounts 266 and 367 Underscruind Conduit & Underscruind Conductors	S12 Sum of Account 368 Line Transformers	S15 Sum of Account 373 Street Light and Signal Systems	S14 Sum of Account 3/0 Meters S17 Sum of Other Distribution Maintenance Expenses		S18 Sum of Other Customer Accounts Expenses Excluding Uncollectibles	C03 Customers Weighted by Estimated Meter Reacing Lime C011/C06 All Customers inweighted / Direct Assion Handhilled Cust	R01 Retail Sales Revenue	C01 All Customers unweighted	C01 All Customers unweighted	C01 All Customers unweighted	S01 Sum of Production Plant	C01 All Customers unweighted C01 All Customers unweighted		B02 Annual Generation Level Consumption	Exhibit No. 11 Case No. AVU-E-09-01 T. Knox, Avista Schedule 2. p. 8 of 9
	Classification	Energy Demand/Energy by Thermal Peak Credit Energy Demand	Demand/Energy from Production Plant Energy	Demand/Energy by Trans Peak Credit	Demand/Customer from Other Dist Op Exp Demand	Demand	Demand Customer	Customer	Customer Demand/Customer from Other Dist Op Exp Demand	Demond/Outcomer from Other Dist Mt Frn	Demand	Demand	Demand	Demand	Customer	Customer Demand/Customer from Other Dist Mt Exp		Customer	Customer	Customer	Customer	Customer	Customer	Demand/Energy from Production Plant	Customer		Energy	
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IPUC Case No. AVU-E-09-01 Methodology Matrix Avista Utilities Idaho Jurisdiction Electric Cost of Service Methodology	Line Account	Production O&M (continued) 1 Water for Power (536) 2 Other (Coyote Springs) 3 Other Fuel (547) 4 Other	 Purchased Power and Other Expenses (555 and 557) System Control & Misc (556) 	7 All Transmission	Distribution O&M 8 580 OP Super & Engineering 9 581 Load Dispatching	10 582 Station Expenses 11 583 Overhead Lines	12 584 Underground Lines 13 585 Street Lights	14 586 Meters	 28 / Customer installations 288 Misc Operating Expense 7 880 Remisc 		18 390 MI Super & Engineering 19 591 MT of Structures	20 592 MT of Station Equipment	21 593 MT of Overhead Lines	 22 394 M1 of Underground Lines 23 595 MT of Line Transformers 	24 596 MT of Street Lights	25 597 MT of Meters 26 598 Miss Maintenance Expense	Customer Accounts Expenses	27 901 Supervision	28 902 Meter Reading	29 903 Customer Records & Collections 20 004 Hincollectible Accounts	31 905 Mise Cust Accounts	Customer Service & Info Expenses	32 008 Customer Assistance	34 908 DSM Amortization Expenses	35 909 Advertising		Sales Expenses 37 911 - 916	

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	Sumcost Scenario: Company Base Case AVU-E-04-01 Method		AVISTA UTILITIES Cost of Service Ba For the Twelve Mo	S sic Summary nths Ended Sente	mber 30, 2008	lo	daho Jurisdiction Electric Utility	n		01-15-09
	(b) (c) (d)) (e)	(f)	(g)	(h)	(i)	(j)	(k)	(1)	(m)
				Residential	General	Large Gen	Extra Large	Extra Large	Pumping	Street &
			System	Service	Service	Service	Gen Service	Service Potlatch	Service	Area Lights
	Description		Total	Sch 1	Sch 11-12	Sch 21-22	Sch 25	Sch 25P	Sch 31-32	Sch 41-49
	Plant In Service									
1	Production Plant		373,731,000	135,227,560	37,650,169	75,194,994	32,149,197	86,363,517	5,962,243	1,183,321
2	Transmission Plant		160,359,000	57,376,174	15,974,374	32,342,771	13,863,648	37,689,700	2,584,411	527,923
3	Distribution Plant		391,018,000	197,358,427	61,571,178	91,364,302	10,733,997	2,156,602	8,513,166	19,320,328
4	Intangible Plant		39,605,000	15,741,657	4,230,439	7,550,082	3,059,674	8,136,299	635,089	251,761
5	General Plant		61,178,000	32,454,852	8,011,877	9,394,461	2,838,928	6,495,775	964,439	1,017,668
6	Total Plant In Service		1,025,891,000	438,158,669	127,438,037	215,846,610	62,645,443	140,841,892	18,659,348	22,301,001
	Accum Depreciation									
7	Production Plant		(146,687,000)	(52,857,182)	(14,716,423)	(29,540,070)	(12,641,759)	(34,111,303)	(2,348,989)	(471,275)
8	Transmission Plant		(55,770,000)	(19,954,410)	(5,555,602)	(11,248,239)	(4,821,529)	(13,107,805)	(898,812)	(183,602)
9	Distribution Plant		(121,422,000)	(60,622,702)	(17,696,227)	(28,258,437)	(3,147,094)	(689,459)	(2,423,039)	(8,585,042)
10	Intangible Plant		(6,504,000)	(3,204,666)	(807,144)	(1,067,179)	(358,755)	(873,971)	(103,044)	(89,241)
11	General Plant		(26,764,000)	(14,198,268)	(3,505,016)	(4,109,865)	(1,241,967)	(2,841,756)	(421,920)	(445,207)
12	Total Accumulated Depreciation		(357,147,000)	(150,837,228)	(42,280,413)	(74,223,790)	(22,211,105)	(51,624,294)	(6,195,804)	(9,774,366)
13	Net Plant		668 744 000	287 321 441	85 157 624	141.622.820	40.434.338	89.217.598	12.463.544	12.526.635
14	Accumulated Deferred FIT		(94,277,000)	(39,954,758)	(11.494.640)	(19,546,335)	(5.961.672)	(13,794,122)	(1.683.524)	(1,841,948)
15	Miscellaneous Rate Base		2.967.000	615.534	238.461	777.855	342,392	931,229	52,419	9,109
16	Total Rate Base		577,434,000	247,982,217	73,901,445	122,854,339	34,815,058	76,354,705	10,832,439	10,693,796
17	Povonuo From Potoil Potos		220.252.000	06 250 000	07 941 000	46 624 000	14 407 000	37 9/1 000	4 139 000	2 842 000
10	Other Operating Powenues		220,202,000	10 105 706	27,041,000	6 660 515	2 7/6 5/0	7 285 317	533 843	171 820
10	Total Revenues		252,900,000	12,100,790	21 226 160	53 202 515	17 2/3 5/0	45 226 317	4 672 843	3 013 820
19	Total nevenues		200,100,000	90,400,790	51,230,100	00,000,010	17,240,040	40,220,017	4,072,040	0,010,020
	Operating Expenses									
20	Production Expenses		132,634,000	46,952,246	13,071,925	26,812,020	11,520,641	31,666,824	2,157,965	452,380
21	Transmission Expenses		8,348,000	2,986,900	831,597	1,683,706	721,716	1,962,058	134,540	27,483
22	Distribution Expenses		9,626,000	4,628,565	1,334,788	2,266,359	325,069	68,906	183,439	818,875
23	Customer Accounting Expenses		3,484,000	2,571,225	566,133	159,263	37,127	96,155	44,220	9,878
24	Customer Information Expenses		1,537,000	673,650	169,327	260,612	110,134	295,791	23,169	4,319
25	Sales Expenses		235,000	78,937	21,975	48,021	20,867	60,270	3,995	934
26	Admin & General Expenses		21,605,000	11,157,633	2,813,361	3,480,772	1,040,376	2,391,071	349,065	3/2,/22
27	Total O&M Expenses		177,469,000	69,049,156	18,809,104	34,710,752	13,775,929	36,541,075	2,896,393	1,080,591
28	Taxes Other Than Income Taxes		8,751,000	3,527,601	1,022,110	1,837,350	603,320	1,460,444	154,807	145,368
29	Other Income Related Items		(106,000)	(41,853)	(11,655)	(20,903)	(8,744)	(21,069)	(1,550)	(226)
	Depreciation Expense									
30	Production Plant Depreciation		9,335,000	3,397,568	945,964	1,875,801	800,892	2,137,719	148,120	28,936
31	Transmission Plant Depreciation		3,232,000	1,156,404	321,960	651,861	279,419	759,628	52,088	10,640
32	Distribution Plant Depreciation		10,048,000	4,965,162	1,601,384	2,459,029	306,220	51,900	226,182	438,121
33	General Plant Depreciation		4,867,000	2,581,937	637,383	747,374	225,850	516,770	76,726	80,960
34	Amortization Expense		2,256,000	816,171	227,239	453,924	194,079	521,445	35,996	7,147
35	Total Depreciation Expense		29,738,000	12,917,243	3,733,930	6,187,989	1,806,460	3,987,461	539,112	565,805
36	Income Tax		6,445,000	1,704,864	1,851,605	2,307,179	(29,058)	260,845	256,563	93,002
37	Total Operating Expenses		222,297,000	87,157,010	25,405,095	45,022,366	16,147,908	42,228,755	3,845,326	2,490,540
38	Net Income		30,863,000	11,306,786	5,831,065	8,281,149	1,095,641	2,997,562	827,518	523,280
39	Rate of Return		5.34%	4.56%	7.89%	6.74%	3.15%	3.93%	7.64%	4.89%
40	Return Ratio		1.00	0.85	1.48	1.26	0.59	0.73	1.43	0.92
41	Interest Expense		19,055,000	8,183,275	2,438,706	4,054,125	1,148,878	2,519,663	357,464	352,889

File: ID 09 Elec Case / Elec COS Base Case / Sumcost Exhibits

Exhibit No. 11 Case No. AVU-E-09-01 T. Knox, Avista Schedule 3, p. 1 of 3 Sumcost AVISTA UTILITIES Scenario: Company Base Case Revenue to Cost by AVU-E-04-01 Method For the Twelve Mont

Revenue to Cost by Functional Component Summary For the Twelve Months Ended September 30, 2008

Idaho Jurisdiction Electric Utility

01-15-09

	(b) (C)) (d) (e)	(f)	(g) Besidential	(h) General	(i) Large Gen	(j) Extra Large	(k) Extra Large	(I) Pumping	(m) Street &
			System	Service	Service	Service	Gen Service	Service Potlatch	Service	Area Lights
	Description		Total	Sch 1	Sch 11-12	Sch 21-22	Sch 25	Sch 25P	Sch 31-32	Sch 41-49
	Functional Cost Components	at Current	Return by Schee	dule						
1	Production		135,335,369	47,229,312	14,287,020	28,463,985	11,181,180	31,376,910	2,337,896	459,067
2	Transmission		16,053,522	5,466,355	1,988,733	3,700,280	1,149,015	3,381,242	316,054	51,842
3	Distribution		43,588,275	20,418,928	8,098,923	10,485,385	1,038,469	563,555	1,069,584	1,913,431
4	Common		25,274,833	13,243,404	3,466,324	3,984,350	1,128,335	2,619,293	415,466	417,660
5	Total Current Rate Revenue		220,252,000	86,358,000	27,841,000	46,634,000	14,497,000	37,941,000	4,139,000	2,842,000
	Expressed as \$/kWh									
6	Production		\$0.03881	\$0.04066	\$0.04419	\$0.04020	\$0.03559	\$0.03456	\$0.03977	\$0.03339
7	Transmission		\$0.00460	\$0.00471	\$0.00615	\$0.00523	\$0.00366	\$0.00372	\$0.00538	\$0.00377
8	Distribution		\$0.01250	\$0.01758	\$0.02505	\$0.01481	\$0.00331	\$0.00062	\$0.01819	\$0.13919
9	Common		\$0.00725	\$0.01140	\$0.01072	\$0.00563	\$0.00359	\$0.00289	\$0.00707	\$0.03038
10	Total Current Melded Rates		\$0.06316	\$0.07435	\$0.08610	\$0.06587	\$0.04614	\$0.04179	\$0.07040	\$0.20674
	Functional Cost Components	at Uniform	Current Return							
11	Production		136,108,108	48,192,991	13,417,365	27,512,989	11,821,235	32,485,592	2,214,048	463,889
12	Transmission		16,382,662	5,861,688	1,631,981	3,304,215	1,416,344	3,850,471	264,030	53,934
13	Distribution		42,444,209	21,896,635	6,553,913	9,265,498	1,273,644	600,669	875,718	1,978,132
14	Common	-	25,317,020	13,432,535	3,314,993	3,887,051	1,174,634	2,687,691	399,046	421,070
15	Total Uniform Current Cost		220,252,000	89,383,849	24,918,252	43,969,753	15,685,857	39,624,422	3,752,841	2,917,025
	Expressed as \$/kWh									Aa aaau
16	Production		\$0.03903	\$0.04149	\$0.04150	\$0.03886	\$0.03763	\$0.03578	\$0.03766	\$0.03374
17	Transmission		\$0.00470	\$0.00505	\$0.00505	\$0.00467	\$0.00451	\$0.00424	\$0.00449	\$0.00392
18	Distribution		\$0.01217	\$0.01885	\$0.02027	\$0.01309	\$0.00405	\$0.00066	\$0.01490	\$0.14390 \$0.02062
19	Common Total Current Uniform Malda	d Datas	\$0.00726	\$0.01156	\$0.01025	\$0.00549	\$0.00374	\$0.00290	\$0.00079	\$0.03003
20	Total Current Uniform Meide	u Hates	\$U.00310	\$0.07696	\$0.07707	\$0.00210	\$0.0 4 993	φ 0.04 303	ψ0.00000	ψ0.21213
21	Revenue to Cost Ratio at Current	Rates	1.00	0.97	1.12	1.06	0.92	0.96	1.10	0.97
								····	-	
	Functional Cost Components	at Propose	ed Return by Sch	nedule						
22	Production		147,845,557	51,139,821	15,323,930	30,786,204	12,472,189	35,126,868	2,517,492	479,054
23	Transmission		21,260,938	7,070,669	2,414,124	4,667,478	1,688,248	4,968,408	391,500	60,512
24	Distribution		55,555,541	26,415,660	9,941,193	13,464,381	1,512,844	689,090	1,350,732	2,181,041
25	Common		26,822,964	14,010,850	3,646,753	4,221,937	1,221,720	2,850,035	439,270	2 153 000
26	i otal Proposed Hate Hevent	le	251,485,000	98,637,000	31,320,000	53,140,000	10,095,000	43,033,000	4,035,000	3,133,000
	Expressed as \$/kWh				** * ****	** * ** **	4 0 000 7 0		#0.04000	#0.0040F
27	Production		\$0.04239	\$0.04403	\$0.04739	\$0.04348	\$0.03970	\$0.03869	\$0.04282	\$0.03485
28	I ransmission		\$0.00610	\$0.00609	\$0.00747	\$0.00659	\$0.00537	\$0.00547	\$0.00000 ¢0.00000	\$0.00440 \$0.15970
29	Distribution		\$0.01593 \$0.00760	\$0.02274	\$0.03075	\$0.01902 \$0.00506	\$0.00402 \$0.00280	\$0.00070	\$0.022.90	\$0.03141
30 21	Total Proposed Melded Pate	-	\$0.00709	\$0.01200	\$0.01120	\$0.00590	\$0.00309	\$0.00314	\$0.07993	\$0.22936
31		50	φ0.07211	40.0049 2	40.09000	φ0.07000	φ0.00070	ψ0.04000	ψ0.01000	WO.E2000
	Functional Cost Components	at Uniform	Requested Ret	urn						
32	Production		147,899,815	52,464,728	14,606,708	29,884,869	12,835,036	35,205,453	2,401,957	501,064
33	Transmission		21,280,678	7,614,190	2,119,903	4,292,095	1,839,796	5,001,667	342,968	70,059
34	Distribution		55,407,201	28,447,276	8,666,992	12,308,195	1,646,165	691,720	1,169,879	2,4/6,9/3
35	Common Tetal Uniform Oper	-	26,897,306	14,270,875	3,521,948	4,129,718	1,247,967	2,855,483	423,909	2 447,308
36	lotal Uniform Cost		251,485,000	102,797,068	28,915,551	50,614,878	17,568,963	43,/34,324	4,330,703	3,493,433
~ ~	Expressed as \$/kWh		.	<i>i</i>	· · · · · · · · ·		** * ****	#A 60076	60.04000	#0.0004F
37	Production		\$0.04241	\$0.04517	\$0.04517	\$0.04221	\$0.04085	\$0.03878	\$0.04086 #0.00580	\$0.03645 \$0.00540
38	I ransmission		\$0.00610	\$0.00656	\$0.00656	\$0.00606	\$0.00586	\$U.UU551	\$0.00583	\$0.00510 \$0.10010
39	Distribution		\$0.01589	\$0.02449	\$0.02680 \$0.01000	\$0.01/38	\$0.00524 \$0.00507	90.000/0 000015	40.01990 \$0.00704	40.10010 \$0.020EA
40 11	COMMON Total Uniform Maldad Datas	-	\$0.007/1 \$0.07044	\$0.01229	\$0.01089 \$0.09049	\$0.00583 \$0.07140	\$0.00397 \$0.05500	40.00315 60.04910	\$0.007290	\$0.00204 \$0.05204
41	rotar Unitorn Melded Hates		φU.U/211	90.0880U	Ф U.U8943	φ υ. υ/ 149	φ 0.000 92	φ υ.υ 4019	φυ.07360	ψ υ. Δ υ4 Δ <i>Ι</i>
42	Revenue to Cost Ratio at Propos	ed Rates	1.00	0.96	1.08	1.05	0.96	1.00	1.08	0.90
43	Current Revenue to Proposed Co	ost Ratio	0.88	0.84	0.96	0.92	0.83	0.87	0.95 Exhibi	0.81 t No. 11

File: ID 09 Elec Case / Elec COS Base Case / Sumcost Exhibits

Case No. AVU-E-09-01 T. Knox, Avista Schedule 3, p. 2 of 3

	Sumcost Scenario: Company Base AVU-E-04-01 Method	Case	AVISTA UTILITIES Revenue to Cost E For the Twelve Mo	S by Classification Sinths Ended Septe	ummary mber 30, 2008	k	daho Jurisdictio Electric Utility	n 		01-15-09
	(b) Description	(c) (d) (e)	(f) System Total	(g) Residential Service Sch 1	(h) General Service Sch 11-12	(i) Large Gen Service Sch 21-22	(j) Extra Large Gen Service Sch 25	(k) Extra Large Service Potlatch Sch 25P	(I) Pumping Service Sch 31-32	(m) Street & Area Lights Sch 41-49
	Cost Classifications at C	urrent Return	by Schedule							
1	Energy		112,358,195	37,226,967	11,275,647	23,952,392	9,473,564	27,947,486	2,037,651	444,488
2	Demand		88,106,759	35,660,621	12,650,826	22,062,115	5,016,892	9,992,632	1,746,114	977,559
3	Customer		19,787,047	13,470,412	3,914,527	619,493	6,544	882	355,236	1,419,954
4	Total Current Rate Rev	enue	220,252,000	86,358,000	27,841,000	46,634,000	14,497,000	37,941,000	4,139,000	2,842,000
	Expressed as Unit Cost									
5	Energy	\$/kWh	\$0.03222	\$0.03205	\$0.03487	\$0.03383	\$0.03015	\$0.03078	\$0.03466	\$0.03233
6	Demand	\$/kW/mo	\$10.88	\$11.47	\$13.14	\$11.68	\$8.63	\$7.28	\$12.28	\$23.56
7	Customer	\$/Cust/mo	\$13.70	\$11.39	\$17.26	\$35.86	\$45.44	\$73.53	\$23.01	\$951.07
	Cast Classifications at U	niform Curren	t Daturn							
8	Fnormy		113 197 009	37 999 770	10 578 351	23 116 841	10.045 287	29,013 641	1,923,372	449 747
0	Demand		97 /55 106	37,333,170	10,070,001	20,110,041	5 631 907	10 609 724	1,526,930	1.009.983
10	Customer		10 660 705	13 056 105	3 306 045	547 099	8 663	1 057	302,539	1,457,296
11	Total Uniform Current (Cost	220,252,000	89,383,849	24,918,252	43,969,753	15,685,857	39,624,422	3,752,841	2,917,025
	Expressed as Unit Cost									
12	Energy	\$/kWh	\$0.03244	\$0.03272	\$0.03272	\$0.03265	\$0.03197	\$0.03196	\$0.03272	\$0.03272
13	Demand	\$/kW/mo	\$10.80	\$12.04	\$11.37	\$10.75	\$9.69	\$7.73	\$10.74	\$24.35
14	Customer	\$/Cust/mo	\$13.62	\$11.80	\$14.98	\$31.67	\$60.16	\$88.11	\$19.59	\$976.09
15	Revenue to Cost Ratio at C	urrent Rates	1.00	0.97	1.12	1.06	0.92	0.96	1.10	0.97
	Cost Classifications at P	roposed Retu	rn by Schedule							
16	Energy		123,312,719	40,362,925	12,107,052	25,992,719	10,626,749	31,553,619	2,203,369	466,286
17	Demand		105.383.881	42.832.335	14,687,265	26,351,002	6,257,432	12,079,907	2,063,973	1,111,966
18	Customer		22,788,400	15,441,740	4,531,682	796,279	10,819	1,474	431,657	1,574,748
19	Total Proposed Rate R	evenue	251,485,000	98,637,000	31,326,000	53,140,000	16,895,000	43,635,000	4,699,000	3,153,000
	Exprassed as Unit Cost									
20	Expressed as Unit Cost	¢/lath	\$0,02526	\$0.03475	\$0.03744	\$0.03671	\$0 03382	\$0.03476	\$0 03748	\$0,03392
20	Demand	\$/1/M/mo	\$0.00000 \$12.01	φ0.03475 ¢13.79	\$0.00744 \$15.26	\$13.05	\$10.76	\$8.80	\$14 51	\$26.80
22	Customer	\$/Cust/mo	\$15.78	\$13.06	\$19.98	\$46.10	\$75.13	\$122.84	\$27.96	\$1,054.75
	Cost Classifications at U	Iniform Reque	sted Return							
23	Energy		123,325,286	41,425,408	11,531,978	25,200,799	10,950,859	31,629,189	2,096,762	490,291
24	Demand		105,076,407	45,262,045	13,278,750	24,686,413	6,606,083	12,123,648	1,859,503	1,259,964
25	Customer		23,083,307	16,109,616	4,104,823	727,666	12,021	1,486	382,498	1,745,198
26	Total Uniform Cost		251,485,000	102,797,068	28,915,551	50,614,878	17,568,963	43,754,324	4,338,763	3,495,453
•	Expressed as Unit Cost									
27	Enerov	\$/kWh	\$0.03536	\$0 03567	\$0,03567	\$0.03559	\$0.03486	\$0.03484	\$0.03567	\$0.03567
28	Demand	\$/kW/mo	\$12.97	\$14.56	\$13.79	\$13.07	\$11.36	\$8.83	\$13.08	\$30.37
29	Customer	\$/Cust/mo	\$15.99	\$13.62	\$18.10	\$42.13	\$83.48	\$123.87	\$24.77	\$1,168.92
30	Revenue to Cost Ratio at P	roposed Rates	1.00	0.96	1.08	1.05	0.96	1.00	1.08	0.90
31	Current Revenue to Propos	sed Cost Ratio	0.88	0.84	0.96	0.92	0.83	0.87	0.95	0.81

File: ID 09 Elec Case / Elec COS Base Case / Sumcost Exhibits

Exhibit No. 11 Case No. AVU-E-09-01 T. Knox, Avista Schedule 3, p. 3 of 3 AVISTA UTILITIES Demand Allocator Sensitivity Analysis Case No. AVU-E-09-01

(b) (c) (d) (e) Sy Description) A	(f) stem otal	(g) Residential Service Sch 1	(h) General Service Sch 11-12	(i) Large Gen Service Sch 21-22	(j) Extra Large Gen Service Sch 25	(k) Extra Large Service Pottatch Sch 25P	() Pumping Service Sch 31-32	(m) Street & Area Lights Sch 41-49
Base Case 577,434,000 24 Total Rate Base 577,434,000 24 Net Income at Present Rates 30,863,000 1	577,434,000 24 30,863,000 1	-15	7,982,217 1,308,001	73,901,445 5,830,726	122,854,339 8,280,751	34,815,058 1,095,521	76,354,705 2,997,287	10,832,439 827,477	10,693,796 523,237
Rate of Return 5.34% Return Ratio-Base Case 1.00	5.34% 1.00		4.56% 0.85	7.89% 1.48	6.74% 1.26	3.15% 0.59	3.93% 0.73	7.64% 1.43	4.89% 0.92
Scenario 1- Non-CoincidentTotal Rate Base577,434,000Net Income at Present Rates30,863,000	- Non-Coincident 577,434,000 248, 30,863,000 11,	lent 248, 11,	Peak Tw 031,850 302,229	rice Base Ca 73,916,813 5,829,654	ise 122,884,497 8,278,379	34,785,870 1,098,321	76,285,802 3,003,889	10,834,709 827,309	10,694,458 523,219
Rate of Return 5.34% Return Ratio-Scenario 1 1.00	5.34% 1.00		4.56% 0.85	7.89% 1.48	6.74% 1.26	3.16% 0.59	3.94% 0.74	7.64% 1.43	4.89% 0.92
Scenario 2 Over-Unity Non-C Total Rate Base 577,434,000 234,6 Net Income at Present Rates 30,863,000 12,1	 Cver-Unity Non-C. 577,434,000 234,6 30,863,000 12,1 	Jon-C 234,6 12,1	oincide 14,015 65,221	ant Peak Inc 78,297,005 5,550,549	reased and L 131,294,125 7,737,194	Jnder-Unity N 34,815,238 1,095,624	on-Coincident 76,355,128 2,997,523	Peak Decre 11,481,871 786,072	ased 10,576,618 530,817
Rate of Return 5.34% t Return Ratio-Scenario 2 1.00	5.34% 1.00		5.19% 0.97	7.09%	5.89% 1.10	3.15% 0.59	3.93% 0.73	6.85% 1.28	5.02% 0.94
Scenario 3 - Coincident Peaks Total Rate Base 577,434,000 246,9 Net Income at Present Rates 30,863,000 11,5	 Coincident Peaks 577,434,000 246,9 30,863,000 11,5 	Peaks 246,9 11,5	6.25% 112,552 117,044	of Peak Day 73,726,366 5,865,479	/S 123,742,634 8,106,542	34,815,038 1,095,645	76,354,656 2,997,571	11,188,958 757,439	10,693,795 523,280
Rate of Return 5.34% Return Ratio-Scenario 3 1.00	5.34%		4.66% 0.87	7.96% 1.49	6.55% 1.23	3.15% 0.59	3.93% 0.73	6.77% 1.27	4.89% 0.92
Scenario 4 - Over-Unity Coinc Total Rate Base 577,434,000 242,9 Net Income at Present Rates 30,863,000 12,5	 Over-Unity Coinc 577,434,000 242,9 30,863,000 12,5 	Coinc 242,9	ident P . 970,806 291,850	eak Increas (75,626,997 5,491,884	ed and Unde 125,938,803 7,674,854	r-Unity Coinci 34,815,038 1,095,645	dent Peak Dec 76,354,656 2,997,571	reased 11,060,570 782,675	10,667,130 528,521
Rate of Return 5.34% Return Ratio-Scenario 4 1.00	5.34% 1.00		5.06% 0.95	7.26% 1.36	6.09% 1.14	3.15% 0.59	3.93% 0.73	7.08%	4.95% 0.93

Exhibit No. 11 Case No. AVU-E-09-01 T. Knox, Avista Schedule 4, p. 1 of 1

NATURAL GAS COST OF SERVICE STUDY

A cost of service study is an engineering-economic study, which apportions the revenue, expenses, and rate base associated with providing natural gas service to designated groups of customers. It indicates whether the revenue provided by the customers recovers the cost to serve those customers. The study results are used as a guide in determining the appropriate rate spread among the groups of customers.

7 There are three basic steps involved in a cost of service study: functionalization,
8 classification, and allocation. See flow chart.

First, the expenses and rate base associated with the natural gas system under study are 9 assigned to functional categories. The uniform system of accounts provides the basic segregation 10 into production, underground storage, and distribution. Traditionally customer accounting, 11 customer information, and sales expenses are included in the distribution function and 12 13 administrative and general expenses and general plant rate base are allocated to all functions. In this study I have created a separate functional category for common costs. Administrative and 14 general costs that cannot be directly assigned to the other functions have been placed in this 15 16 category.

Second, the expenses and rate base items are classified into three primary cost components: 17 Demand, commodity or customer related. Demand (capacity) related costs are allocated to rate 18 schedules on the basis of each schedule's contribution to system peak demand. Commodity 19 20 (energy) related costs are allocated based on each rate schedule's share of commodity consumption. Customer related items are allocated to rate schedules based on the number of 21 22 customers within each schedule. The number of customers may be weighted by appropriate factors such as relative cost of metering equipment. In addition to these three cost components, any 23 revenue related expense is allocated based on the proportion of revenues by rate schedule. 24

> Exhibit No. 11 Case No. AVU-G-09-01 T. Knox, Avista Schedule 5, p. 1 of 9

1

NATURAL GAS COST OF SERVICE STUDY FLOWCHART



Pro Forma Results of Operations by Customer Group

1

Exhibit No. 11 Case No. AVU-G-09-01 T. Knox, Avista Schedule 5, p. 2 of 9

1	The final step is allocation of the costs to the various rate schedules utilizing the allocation
2	factors selected for each specific cost item. These factors are derived from usage and customer
3	information associated with the test period results of operations.
4	BASE CASE COST OF SERVICE STUDY
5	Production - Purchased Gas Costs
6	The Company has no natural gas production facilities serving the Idaho jurisdiction. The
7	natural gas costs included in the production function include the cost of gas purchased to serve
8	sales customers, pipeline transportation to get it to our system, and expenses of the gas supply
9	department.
10	The demand and commodity components of account 804 have been determined directly
11	from the weighted average cost of gas (WACOG) approved in the most recent purchased gas
12	adjustment (PGA) filing effective October 1, 2008. The January 6, 2009 gas cost reduction to
13	customer charges was accomplished through Schedule 155 which is excluded from base revenues.
14	The allocation of these costs agrees with the gas costs computation used to determine pro forma
15	results of operations.
16	The expenses of the gas supply department recorded in account 813 are classified as
17	commodity related costs. The gas scheduling process includes transportation customers, so
18	estimated scheduling dispatch labor expenses are allocated by throughput. The remaining gas
19	supply department expenses are allocated by sales volumes.
20	Underground Storage
21	Underground storage rate base, operating and maintenance expenses are classified as
22	commodity related and allocated to customer groups by winter throughput. This approach was
23	proposed by commission Staff and accepted by the Idaho Public Utilities Commission in Case No.
24	AVU-G-04-01.
	Exhibit No. 1

Case No. AVU-G-09-01 T. Knox, Avista Schedule 5, p. 3 of 9 1

Distribution Facilities Classification (Peak and Average)

Distribution mains and regulator station equipment (both general use and city gate stations) 2 are classified Demand and Commodity using the peak and average ratio for the distribution 3 system. Peak demand is defined as the average of the five-day sustained peaks from the most 4 recent three years. Average daily load is calculated by dividing annual throughput by 365 (days in 5 the year). The average daily load is divided by peak load to arrive at the system load factor of 6 37%. This proportion is classified as commodity related. The remaining 63% is classified as 7 8 demand related. Meters, services and industrial measuring & regulating equipment are classified as customer related distribution plant. Distribution operating and maintenance expenses are 9 classified (and allocated) in relation to the plant accounts they are associated with. 10

11

Customer Relations Distribution Cost Classification

12 Customer service, customer information and sales expenses are the core of the customer 13 relations functional unit which is included with the distribution cost category. For the most part 14 these costs are classified as customer related. Exceptions include uncollectible accounts expense, 15 which is considered separately as a revenue conversion item, and Demand Side Management 16 amortization expense recorded in Account 908. The demand side management investment costs 17 and amortization expense are included with the distribution function and classified to demand and 18 commodity by the peak and average ratio.

19

Distribution Cost Allocation

Demand related distribution costs are allocated to customer groups (rate schedules) by each groups' contribution to the three year average five-day sustained peak. Commodity related distribution costs are allocated to customer groups by annual throughput. Distribution main investment has been segregated into large and small mains. Small mains are defined as less than four inches, with large mains being four inches or greater. The small main costs use the same

> Exhibit No. 11 Case No. AVU-G-09-01 T. Knox, Avista Schedule 5, p. 4 of 9

demand and commodity data, but large usage customers (Schedules 131, and 146) that connect to
 large system mains have been excluded from the allocations.

Most customer related costs are allocated by the annualized number of customers billed during the test period. Meter investment costs are allocated using the number of customers weighted by the relative current cost of meters in service at December 31, 2007. Services investment costs are allocated using the number of customers weighted by the relative current cost of typical service installations. Industrial measuring and regulating equipment investment costs are allocated by number of turbine meters which effectively excludes small usage customers.

9

Administrative and General Costs

10 General and intangible rate base items are allocated by the sum of Underground Storage and Distribution plant. Administrative and general expenses are segregated into plant related, 11 labor related, revenue related and other. The plant related items are allocated based on total plant 12 in service. Labor related items are allocated by operating and maintenance labor expense. 13 Revenue related items are allocated by pro forma revenue. Other administrative and general 14 expenses are allocated 50% by annual throughput (classified commodity related) and 50% by the 15 sum of operating and maintenance expenses not including purchased gas cost or administrative & 16 Whenever costs are allocated by sums of other items within the study, general expenses. 17 classifications are imputed from the relationship embedded in the summed items. 18

19

Special Contract Customer Revenue

Three special contract customers receive transportation service from the Company. Rates for these customers were individually negotiated to cover any incremental costs and retain some contribution to margin. The rates for these customers are not being adjusted in this case. The revenue from these special contract customers has been segregated from general rate revenue and

> Exhibit No. 11 Case No. AVU-G-09-01 T. Knox, Avista Schedule 5, p. 5 of 9

allocated back to all the other rate classes by relative rate base. In treating these revenues like
 other operating revenues their system contribution reduces costs for all rate schedules.

3

Revenue Conversion Items

In this study uncollectible accounts and commission fees have been classified as revenue related and are allocated by pro forma revenue. These items vary with revenue and are included in the calculation of the revenue conversion factor. Income tax expense items are allocated to schedules by net income before income tax less interest expense.

8 For the functional summaries on pages 2 and 3 of the cost of service study, these items are 9 assigned to the component cost categories. The revenue related expense items have been reduced 10 to a percent of all other costs and loaded onto each cost category b that ratio. Similarly, income 11 tax items have been assigned to cost categories by relative rate base (as is net income).

12 The following matrix outlines the methodology applied in the Company Base Case natural 13 gas cost of service study.

> Exhibit No. 11 Case No. AVU-G-09-01 T. Knox, Avista Schedule 5, p. 6 of 9

	Allocation	E08 Winter throughput	 t Plant S05 Sum of accounts 376-385 t Plant S05 Sum of accounts 376-385 D02/E06 Coincident peak, amual therms (both excl lg use cust D01/E01 Coincident peak (all), annual throughput (all) D01/E01 Coincident peak (all), annual throughput (all) D01/E01 Coincident peak (all), annual throughput (all) C02, Customers weighted by average current meter cost C06, Large use customers t Plant S05 Sum of accounts 376-385 	Plant S03 Sum of Underground Storage and Distribution Plant in Serv	815 Sum of Distribution Plant in Service Slant S03 Sum of Underground Storage and Distribution Plant in Serv	Allocations linked to related plant accounts plant Allocations linked to related plant accounts plant Allocations linked to related plant accounts plant Allocations linked to related plant accounts	 ervice S17 Sum of Total Plant in Service C10 Residential only S14 Sum of Underground Storage Plant in Service Plant S03 Sum of Underground Storage and Distribution Plant in Service D01/E01 Coincident peak (all), annual throughput (all) 	DG D05/E07 PGA Demand / PGA Commodity E01/E04 Amnual Throughput / Amnual Sales Therms	E08 Winter throughput	Exhibit No. Case No. AVU-G-09- T. Knox, Avis Schedule 5, p. 7 of
	Classification	Commodity	Demand/Commodity/Customer from Other Dist Demand/Commodity/Customer from Other Dist Demand/Commodity by Peak & Average Demand/Commodity by Peak & Average Demand/Commodity by Peak & Average Demand/Commodity by Peak & Average Customer Customer Customer Demand/Commodity/Customer from Other Dist	Demand/Commodity/Customer from UG & D P	Demand/Commodity/Customer from Dist Plant Demand/Commodity/Customer from UG & D P	Commodity same as related plant Demand/Commodity/Customer same as related Demand/Commodity/Customer same as related Demand/Commodity/Customer same as related	Demand/Commodity/Customer from Plant in So Customer Commodity from Underground Storage Plant Demand/Commodity/Customer from UG & D P Demand/Commodity by Peak & Average	Demand/Commodity from PGA Tracker WACC Commodity	Commodity	
ology Matrix Jgy	Functional Category	Underground Storage	Distribution Distribution Distribution Distribution Distribution Distribution Distribution Distribution	Common	Distribution Common	Underground Storage Distribution Common Distribution/Common	All Distribution Underground Storage Common Distribution	Production Production	Underground Storage	
IPUC Case No. AVU-G-09-01 Method Avista Utilities Idaho Jurisdiction Natural Gas Cost of Service Methodol	Line Account	Underground Storage Plant 1 350 - 357 Underground Storage	Distribution Plant2374 Land3375 Structures4376 (S) Small Mains5376 (L) Large Mains6378 M&R General7379 M&R General7379 M&R City Gate8380 Services9381 Meters10385 Industrial M&R11387 Other	General Plant 12 389-399 All General Plant	Intangible Plant 13 303 Misc Intangible Plant 14 303 Computer Software	Reserve for Depreciation15 Underground Storage16 Distribution17 General18 Intangible	Other Rate Base 19 Accumulated Deferred FIT 20 Constuction Advances 21 Gas Inventory 22 Gain on Sale of Office Bldg 23 DSM Investment	Purchased Gas Expenses24804 Purchased Gas Cost25813 Other Gas Expenses	Underground Storage O&M 26 814 - 837 Underground Storage Exp	

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		lervice lervice al Plant in Service tte Plant in Service n Service ant meter cost 894 894 894 ervice ervice al Plant in Service tte Plant in Service an Service an Service		coughput (all)		Exhibit No. 11 Case No. AVU-G-09-01 T. Knox, Avista Schedule 5, p. 8 of 9
	location	 5 Sum of Distribution Plant in Service 1 Annual throughput 6 Sum of Mains and Services Plant in S 8 Sum of Meas & Reg Station - Genera 9 Sum of Meas & Reg Station - Industr 9 Sum of Meas & Reg Station - City Gi 7 Sum of Meter and Installation Plant in 5 Customers weighted by average curre 4 Sum of Accounts 870 - 879 and 881 - 4 Sum of Accounts 870 - 879 and 881 - 5 Sum of Distribution Plant in Service 5 Sum of Meas & Reg Station - Genera 9 Sum of Meas & Reg Station - Genera 5 Sum of Distribution Mains Plant in Service 5 Sum of Meas & Reg Station - Genera 9 Sum of Meas & Reg Station - Genera 9 Sum of Meas & Reg Station - Genera 9 Sum of Meas & Reg Station - Genera 9 Sum of Meas Weg Station - Gity Gi 9 Sum of Meas Weg Station Plant in Services 1 Sum of Meter and Installation Plant in Service 	 All customers (unweighted) All customers (unweighted) All customers (unweighted) All customers (unweighted) Retail Sales Revenue All customers (unweighted) 	 All customers (unweighted))1 All customers (unweighted)	
	IIA	S15 80 80 80 80 80 80 80 80 80 80 80 80 80	88888	88888	C	
	Classification	Demand/Commodity/Customer from Dist Plant Commodity Demand/Commodity/Customer from Dist Plant Commodity Demand/Commodity from related plant Customer from other dist Demand/Commodity/Customer from Other Dist Demand/Commodity/Customer from Other Dist Demand/Commodity from related plant Demand/Commodity from related plant Customer from related plant Customer from related plant Customer from related plant Demand/Commodity from related plant Customer from related plant	Customer Customer Customer Revenue Customer	Customer Customer Demand/Commodity by Peak & Average Customer Customer	Customer	
logy Matrix Sy	Functional Category	Distribution Distribution Distribution Distribution Distribution Distribution Distribution Distribution Distribution Distribution Distribution Distribution Distribution Distribution	Customer Relations Customer Relations Customer Relations Revenue Conversion Customer Relations	Customer Relations Customer Relations Distribution Customer Relations Customer Relations	Customer Relations	
IPUC Case No. AVU-G-09-01 Methodo Avista Utilities Idaho Jurisdiction Natural Gas Cost of Service Methodolog	Line Account	Distribution O&M1870 OP Super & Engineering2871 Load Dispatching3874 Mains & Services4875 M&R Station - General5876 M&R Station - General5877 M&R Station - Guetal6877 M&R Station - Gity Gate7878 Meter & House Regulator8879 Customer Installations9880 Other OP Expenses10881 Rents11885 MT of Mains12886 MT of Structures13887 MT of Mains14889 MT of M&R City Gate15890 MT of M&R Rudustrial16891 MT of M&R Rudustrial16893 MT of Meters & Hs Reg17892 MT of Structures18893 MT of Meters & Hs Reg19894 MT of Other Equipment	Customer Accounting Expenses20901 Supervision21902 Meter Reading22903 Customer Records & Collections23904 Uncollectible Accounts24905 Misc Cust Accounts	Customer Service & Info Expenses 25 907 Supervision 26 908 Customer Assistance 27 908 DSM Amortization 28 909 Advertising 29 910 Misc Cust Service & Info	Sales Expenses 30 911 - 916 Sales Expenses	

		&M excl Gas Purchases and A&G / 50% throughput &M excl Gas Purchases and A&G / 50% throughput &M excl Gas Purchases and A&G / 50% throughput &M excl Gas Purchases and A&G / 50% throughput al Plant in Service &M excl Gas Purchases and A&G / 50% throughput &M excl Gas Purchases and A&G / 50% throughput al Plant in Service	d to related plant accounts d to related plant accounts d to related plant accounts d to related plant accounts	m of UG Plant/Sum of Dist Plant/Sum of Gen Plant ribution Plant in Service before Taxes less Interest Expense before Taxes less Interest Expense before Taxes less Interest Expense before Taxes less Interest Expense	ue per Revenue Study e Base us rribution Plant in Service e Base lerground Storage Plant in Service		Exhibit No. 11 Case No. AVU-G-09-01 T. Knox, Avista Schedule 5, p. 9 of 9
	Allocation	S02/E01 50% O S02/E01 50% O S02/E01 50% O S02/E01 50% O S17 Sum of Tott S02/E01 50% O S02/E01 50% O S02/E01 50% O S02/E01 50% O S02/E01 50% O S17 Sum of Tot	Allocations linke Allocations linke Allocations linke Allocations linke	S14/S15/S16 Su S15 Sum of Dist R02 Net Income R02 Net Income R02 Net Income R02 Net Income	Pro Forma Rever S01 Sum of Rat E04 Sales Therr S15 Sum of Dis S01 Sum of Un S14 Sum of Un		
	Classification	Demand/Commodity/Customer from Other O&M Demand/Commodity/Customer from Other O&M Bevenue Demand/Commodity/Customer from Other O&M Revenue Demand/Commodity/Customer from Other O&M Demand/Commodity/Customer from Other O&M Demand/Commodity/Customer from Other O&M Demand/Commodity/Customer from Other O&M	Commodity same as related plant Demand/Commodity/Customer same as related plant Demand/Commodity/Customer same as related plant Demand/Commodity/Customer same as related plant	Demand/Commodity/Customer from related plant Demand/Commodity/Customer from Dist Plant Revenue Revenue Revenue Revenue	Revenue Demand/Commodity/Customer from Rate Base Commodity from PGA Tracker Demand/Commodity/Customer from Dist Plant Demand/Commodity/Customer from Rate Base Commodity from Underground Storage Plant		
logy Matrix gy	Functional Category	Common Common i Common Common Common Common Common Revenue Conversion Common Common Common Common	Underground Storage Distribution Common Distribution/Common	All Distribution Revenue Conversion Revenue Conversion Revenue Conversion Revenue Conversion	Revenue All Production Distribution All Underground Storage	•	
IPUC Case No. AVU-G-09-01 Methodc Avista Utilities Idaho Jurisdiction Natural Gas Cost of Service Methodolo	Line Account	Admin & General Expenses1920 Salaries2921 Office Supplies3922 Admin Expense Transferred - Cred4923 Outside Services5924 Property Insurance6925 Injuries & Damages7926 Pensions & Benefits8927 Franchise Requirements9928 Regulatory Commision10928 Commission Fees11930 Miscellaneous General12931 Rents13935 MT of General Plant	Depreciation Expense14 Underground Storage15 Distribution16 General17 Intangible	Taxes18Property Tax19Miscellaneous Dist Tax20State Income Tax21Federal Income Tax22Deferred FIT23ITC	Operating Revenues24Revenue from Rates25Special Contract Revenue26Off System Sales27Miscellaneous Service Revenue28Rent From Gas Property29Other Gas Revenue		

Sumcost A Company Base Case C AVU-G-04-01 Method Fo

AVISTA UTILITIES ee Case Cost of Service General Summary Method For the Year Ended September 30, 2008 Natural Gas Utility Idaho Jurisdiction

13-Jan-09

	(b)	(c)	(d)	(e)	(f)	(g) Residential	(h) Small Firm	(j) Interrupt	(k) Transport
					System	Service	Service	Service	Service
	Description				Total	Sch 101	Sch 111	Sch 131	Sch 146
	Plant In Service								
1	Production Plant								
2	Underground Storage P	Plant			9,089,000	6,886,160	1,958,969	38,051	205,820
3	Distribution Plant				130,352,000	108,934,756	20,079,764	314,421	1,023,059
4	Intangible Plant				1,653,000	1,373,897	260,548	4,158	14,397
5	General Plant				12,589,000	10,456,534	1,989,699	31,822	110,946
6	Total Plant In Service				153,683,000	127,651,347	24,288,980	388,451	1,354,222
	Accum Depreciation								
7	Production Plant								
8	Underground Storage P	lant			(3,172,000)	(2,403,224)	(683,667)	(13,280)	(71,830)
9	Distribution Plant				(44,780,000)	(37,983,003)	(6,356,878)	(102,649)	(337,470)
10	Intangible Plant				(647,000)	(537,526)	(102,163)	(1,633)	(5,679)
11	General Plant			_	(4,489,000)	(3,728,603)	(709,489)	(11,347)	(39,561)
12	Total Accumulated De	preciat	tion		(53,088,000)	(44,652,356)	(7,852,197)	(128,908)	(454,539)
13	Net Plant				100,595,000	82,998,991	16,436,783	259,543	899,683
14	Accumulated Deferred I	FIT			(15,052,000)	(12,502,411)	(2,378,908)	(38,046)	(132,635)
15	Miscellaneous Rate Bas	0			4,948,000	3,723,232	1,086,406	21,178	117,184
16	Total Rate Base			-	90,491,000	74,219,812	15,144,281	242,676	884,231
17	Revenue From Retail Ra	ates			91,767,000	70,716,433	20,333,806	396,352	320,409
18	Other Operating Revenu	ies			147,000	120,770	24,428	391	1,411
19	Total Revenues			-	91,914,000	70,837,202	20,358,235	396,743	321,820
	Operating Expenses								
20	Purchased Gas Costs				66,637,000	49,715,037	16,583,726	334,703	3,534
21	Underground Storage E	xpens	es		167,000	126,525	35,994	699	3,782
22	Distribution Expenses				4,087,000	3,347,026	677,958	6,596	55,419
23	Customer Accounting E	xpens	es		1,869,000	1,795,913	71,107	1,042	938
24	Customer Information E	xpens	es		244,000	217,182	23,238	433	3,148
25	Sales Expenses				194,000	191,749	2,235	3	14
26	Admin & General Exper	ises			5,034,000	4,010,109	909,268	16,707	97,916
27	Total O&M Expenses				78,232,000	59,403,542	18,303,526	360,183	164,749
28	Taxes Other Than Incon	ne Tax	es		906,000	749,676	145,443	2,355	8,526
29	Depreciation Expense								
30	Underground Storage P	Plant D	epr		136,000	103,039	29,312	569	3,080
31	Distribution Plant Depre	ciation	1		2,830,000	2,388,256	415,324	5,079	21,341
32	General Plant Deprecia	tion			868,000	720,968	137,188	2,194	7,650
33	Amortization of Intangib	le Plar	nt			255,017	48,506	776	2,702
34	I otal Depr & Amort Ex	pense	1		4,141,000	3,467,280	630,329	8,618	34,772
35	Income Tax				2,422,000	2,044,109	334,084	7,537	36,270
30	I otal Operating Expen	ises			85,701,000	65,664,606	19,413,383	378,693	244,318
37	Net Income				6,213,000	5,172,596	944,851	18,050	77,503
38	Rate of Return				6.87%	6.97%	6.24%	7.44%	8,76%
39	Return Ratio				1.00	1.02	0.91	1.08	1.28
40	Interest European				0.000.000	0.440.00-	400 707	0.000	00 170
4U	niterest Expense				2,986,000	2,449,08/	499,727	0,000	29,178

Sumcost **AVISTA UTILITIES** Natural Gas Utility **Company Base Case** Summary by Function with Margin Analysis Idaho Jurisdiction 13-Jan-09 AVU-G-04-01 Method For the Year Ended September 30, 2008 (b) (C) (d) (e) (h) (k) (f) (g) (i) Residential Small Firm Interrupt Transport System Service Service Service Service Description Total Sch 131 Sch 146 Sch 101 Sch 111 **Functional Cost Components at Current Rates** 1 Production 66,980,783 3.552 49.971.519 16,669,282 336.430 Underground Storage 2 37,532 1,326,263 1,019,898 262,857 5,976 3 Distribution 16,711,333 14,266,690 2.248.957 33,119 162.567 4 Common 5,458,325 116.757 6,748,621 1 152 711 20,828 **Total Current Rate Revenue** 5 91,767,000 70,716,433 20,333,806 396,352 320,409 6 Exclude Cost of Gas w / Revenue Exp. 66,589,776 49,682,612 16,572,910 334,254 0 7 **Total Margin Revenue at Current Rates** 320.409 25,177,224 21.033.820 62.098 3.760.897 Margin per Therm at Current Rates 8 Production \$0.00501 \$0.00514 \$0.00514 \$0.00514 \$0.00127 \$0.01346 9 **Underground Storage** \$0.01816 \$0.01413 \$0.01698 \$0.01403 10 Distribution \$0.21396 \$0.25404 \$0.12005 \$0.07833 \$0.05831 11 Common \$0.08641 \$0.04926 \$0.04188 \$0.09719 \$0.06153 12 Total Current Margin Melded Rate per Therr \$0.32236 \$0.37454 \$0.20076 \$0.14686 \$0.11492 Functional Cost Components at Uniform Current Return 13 Production 66,980,783 49,971,519 16,669,282 336,430 3.552 14 Underground Storage 1,006,317 5,561 30,078 1,328,232 286,276 15 Distribution 31.282 142.676 16,710,022 14,156,513 2,379,550 16 Common 6,747,963 5,447,026 1,165,745 20,637 114,555 17 **Total Uniform Current Cost** 393,910 290,861 91,767,000 70,581,375 20,500,853 18 Exclude Cost of Gas w / Revenue Exp. 49,682,612 16,572,910 334.254 66,589,776 0 290,861 **Total Uniform Current Margin** 19 25,177,224 20.898.763 3.927.944 59.656 Margin per Therm at Uniform Current Return 20 Production \$0.00501 \$0.00514 \$0.00514 \$0.00514 \$0.00127 21 Underground Storage \$0.01701 \$0.01792 \$0.01528 \$0.01315 \$0.01079 Distribution 22 \$0.21395 \$0.25208 \$0.12702 \$0.07398 \$0.05117 23 Common \$0.06223 \$0 04881 \$0.04109 \$0.08640 \$0.09699 Total Current Uniform Margin Melded Rate 24 \$0.32236 \$0.37213 \$0.20968 \$0.14109 \$0.10433 25 Margin to Cost Ratio at Current Rates 1.00 1.01 0.96 1.04 1.10 Functional Cost Components at Proposed Rates 26 Production 66,980,740 49,971,487 3,552 16,669,271 336.429 27 Underground Storage 1,627,837 1,239,650 334,732 7,124 46,331 28 Distribution 18,923,444 16,049,439 2,649,757 38,202 186,047 29 Common 6,974,584 5,641,160 1,192,713 21,354 119,357 72,901,735 30 **Total Proposed Rate Revenue** 94,506,605 20.846.474 403,109 355,287 31 Exclude Cost of Gas w / Revenue Exp. 49,682,580 16,572,899 334,254 66.589.733 0 32 **Total Margin Revenue at Proposed Rates** 355.287 27.916.872 23.219.155 4.273.575 68.855 Margin per Therm at Proposed Rates 33 Production \$0.00514 \$0.00127 \$0.00501 \$0.00514 \$0.00514 34 **Underground Storage** \$0.02084 \$0.02207 \$0.01787 \$0.01685 \$0.01662 35 Distribution \$0.24229 \$0.28579 \$0.14145 \$0.09035 \$0.06673 \$0.05050 \$0.04281 36 Common \$0.08930 \$0.10045 \$0.06367 37 Total Proposed Margin Melded Rate per Th \$0.41345 \$0.22813 \$0.12743 \$0.35744 \$0.16284 Functional Cost Components at Uniform Proposed Return 38 Production 66,980,740 49,971,487 16,669,271 336,429 3,552 39 **Underground Storage** 1.626.470 1,232,273 350,556 6,809 36,831 40 Distribution 36,809 160,698 18,925,094 15,989,593 2,737,994 41 Common 6,974,302 5,635,022 1,201,520 21,210 116,550 42 **Total Uniform Proposed Cost** 94,506,605 72,828,375 20,959,341 401,257 317,632 43 Exclude Cost of Gas w / Revenue Exp. 66,589,733 49,682,580 16,572,899 334,254 n 44 **Total Uniform Proposed Margin** 27,916,872 23,145,795 4,386,443 67,003 317,632 Margin per Therm at Uniform Proposed Return 45 Production \$0.00501 \$0.00514 \$0.00514 \$0.00514 \$0.00127 46 **Underground Storage** \$0.02082 \$0.02194 \$0.01871 \$0.01610 \$0.01321 47 Distribution \$0.24231 \$0.28472 \$0.14616 \$0.08705 \$0.05764 48 \$0.10034 \$0.06414 \$0.04180 Common \$0.08930 \$0.05016 \$0.23415 \$0,15846 \$0,11393 49 **Total Proposed Uniform Margin Melded Rat** \$0.35744 \$0.41215 50 Margin to Cost Ratio at Proposed Rates 1.00 1.00 0.97 1.03 1.12 51 Current Margin to Proposed Cost Ratio 0.90 0.91 0.86 0.93 1.01

> Exhibit No. 11 Case No. AVU-G-09-01 T. Knox, Avista Schedule 6, p. 2 of 3

Sumcost Company Base Case AVU-G-04-01 Method

13-Jan-09

	(b) (c) (d) (e)	(f) System	(g) Residential Service	(h) Small Firm Service	(j) Interrupt Service	(k) Transport Service
	Description	Total	Sch 101	Sch 111	Sch 131	Sch 146
	Cost by Classification at Current Return by Second	chedule				
1	Commodity	66,708,989	49,720,709	16,447,538	373,052	167,690
2	Demand	12,468,929	9,579,188	2,799,599	21,022	69,120
3	Customer	12,589,082	11,416,536	1,086,670	2,278	83,598
4	Total Current Rate Revenue	91,767,000	70,716,433	20,333,806	396,352	320,409
	Revenue per Therm at Current Rates					
5	Commodity	\$0.85411	\$0.88535	\$0.87798	\$0.88228	\$0.06015
6	Demand	\$0.15965	\$0.17057	\$0.14944	\$0.04972	\$0.02479
7	Customer	\$0.16119	\$0.20329	\$0.05801	\$0.00539	\$0.02998
8	Total Revenue per Therm at Current Rates	\$1.17494	\$1.25922	\$1.08544	\$0.93738	\$0.11492
	Cost per Unit at Current Rates					
9	Commodity Cost per Therm	\$0.85411	\$0.88535	\$0.87798	\$0.88228	\$0.06015
10	Demand Cost per Peak Day Therms	\$21.39	\$21.36	\$24.18	\$10.02	\$4.18
11	Customer Cost per Customer per Month	\$14.60	\$13.40	\$109.42	\$189.80	\$1,393.30
	Cost by Classification at Uniform Current Bat					
12	Commodity	ee 795 499	40 694 992	16 515 729	371 710	152 150
13	Demand	12 490 979	49,004,002	2 861 569	10 002	50 720
14	Customer	12,400,679	11 356 904	1 123 547	2 199	77 982
15	Total Uniform Current Cost	91,767.000	70.581.375	20.500.853	393.910	290.861
					,	
40	Cost per Therm at Current Return	A A AF (AA			A0 07040	
10	Domand	\$0.85432	\$0.88472	\$0.88162	\$0.87912	\$0.05493
18	Customer	\$0.15980 \$0.16093	\$0.10987 \$0.20222	\$0.152/5	\$0.04728 \$0.00520	\$0.02142
19	Total Cost per Therm at Current Return	\$1.17494	\$1.25681	\$1.09435	\$0.93161	\$0.10433
		• • • • • • • • •	• · · · · · · · · ·	•	•	• • • • • • • • • •
200	Cost per Unit at Uniform Current Return	* 0.05.000	A 0.00.070	* 0.00400	\$0,07040	#0.05400
20	Commonly Cost per Therma	\$0.85432	\$0.88472	\$0.88162	\$0.87912 #0.52	\$U.U5493
22	Customer Cost per Customer per Month	\$14.57	\$21.27 \$13.33	φ <u>2</u> 4.72 \$113.14	\$183.26	\$1,299,71
		¢14.07	410.00		4.00.20	41,200171
23	nevenue to cost natio at current nates	1.00	1.00	0.99	1.01	1.10
	Cost by Cleasification at Pronosed Baturn by	Sobodulo	,		×	
24	Cost by Classification at Proposed Return by	Schedule 67 518 814	50 300 380	16 656 837	376 743	184 853
24 25	Cost by Classification at Proposed Return by Commodity Demand	Schedule 67,518,814 13,313,785	50,300,380 10,219,918	16,656,837 2,989,788	376,743 23,872	184,853 80,206
24 25 26	Cost by Classification at Proposed Return by Commodity Demand Customer	Schedule 67,518,814 13,313,785 13,674,006	50,300,380 10,219,918 12,381,437	16,656,837 2,989,788 1,199,848	376,743 23,872 2,494	184,853 80,206 90,227
24 25 26 27	Cost by Classification at Proposed Return by Commodity Demand Customer Total Proposed Rate Revenue	Schedule 67,518,814 13,313,785 13,674,006 94,506,605	50,300,380 10,219,918 12,381,437 72,901,735	16,656,837 2,989,788 1,199,848 20,846,474	376,743 23,872 2,494 403,109	184,853 80,206 90,227 355,287
24 25 26 27	Cost by Classification at Proposed Return by Commodity Demand Customer Total Proposed Rate Revenue	Schedule 67,518,814 13,313,785 13,674,006 94,506,605	50,300,380 10,219,918 12,381,437 72,901,735	16,656,837 2,989,788 1,199,848 20,846,474	376,743 23,872 2,494 403,109	184,853 80,206 90,227 355,287
24 25 26 27	Cost by Classification at Proposed Return by Commodity Demand Customer Total Proposed Rate Revenue Revenue per Therm at Proposed Rates	Schedule 67,518,814 13,313,785 13,674,006 94,506,605	50,300,380 10,219,918 12,381,437 72,901,735	16,656,837 2,989,788 1,199,848 20,846,474	376,743 23,872 2,494 403,109	184,853 80,206 90,227 355,287
24 25 26 27 28 29	Cost by Classification at Proposed Return by Commodity Demand Customer Total Proposed Rate Revenue Revenue per Therm at Proposed Rates Commodity Demand	Schedule 67,518,814 13,313,785 13,674,006 94,506,605 \$0.86448 \$0.17046	50,300,380 10,219,918 12,381,437 72,901,735 \$0.89568 \$0.18108	16,656,837 2,989,788 1,199,848 20,846,474 \$0,88916 \$0,15960	376,743 23,872 2,494 403,109 \$0.89101 \$0.05646	184,853 80,206 90,227 355,287 \$0.06630 \$0.02877
24 25 26 27 28 29 30	Cost by Classification at Proposed Return by Commodity Demand Customer Total Proposed Rate Revenue Revenue per Therm at Proposed Rates Commodity Demand Customer	Schedule 67,518,814 13,313,785 13,674,006 94,506,605 \$0.86448 \$0.17046 \$0.17508	50,300,380 10,219,918 12,381,437 72,901,735 \$0.89568 \$0.18198 \$0.22047	16,656,837 2,989,788 1,199,848 20,846,474 \$0.88916 \$0.15960 \$0.06405	376,743 23,872 2,494 403,109 \$0.89101 \$0.05646 \$0.00590	184,853 80,206 90,227 355,287 \$0.06630 \$0.02877 \$0.03236
24 25 26 27 28 29 30 31	Cost by Classification at Proposed Return by Commodity Demand Customer Total Proposed Rate Revenue Revenue per Therm at Proposed Rates Commodity Demand Customer Total Revenue per Therm at Proposed Rate	Schedule 67,518,814 13,313,785 13,674,006 94,506,605 \$0.86448 \$0.17046 \$0.17508 \$1,21002	50,300,380 10,219,918 12,381,437 72,901,735 \$0.89568 \$0.18198 \$0.22047 \$1,29813	16,656,837 2,989,788 1,199,848 20,846,474 \$0.88916 \$0.88916 \$0.06405 \$1,11280	376,743 23,872 2,494 403,109 \$0.89101 \$0.05646 \$0.00590 \$0.95336	184,853 80,206 90,227 355,287 \$0.06630 \$0.02877 \$0.03236 \$0.12743
24 25 26 27 28 29 30 31	Cost by Classification at Proposed Return by Commodity Demand Customer Total Proposed Rate Revenue Revenue per Therm at Proposed Rates Commodity Demand Customer Total Revenue per Therm at Proposed Rate	Schedule 67,518,814 13,313,785 13,674,006 94,506,605 \$0.86448 \$0.17046 \$0.17508 \$1.21002	50,300,380 10,219,918 12,381,437 72,901,735 \$0.89568 \$0.18198 \$0.22047 \$1.29813	16,656,837 2,989,788 1,199,848 20,846,474 \$0.88916 \$0.88916 \$0.15960 \$0.06405 \$1.11280	376,743 23,872 2,494 403,109 \$0.89101 \$0.05646 \$0.00590 \$0.95336	184,853 80,206 90,227 355,287 \$0.06630 \$0.02877 \$0.03236 \$0.12743
24 25 26 27 28 29 30 31	Cost by Classification at Proposed Return by Commodity Demand Customer Total Proposed Rate Revenue Revenue per Therm at Proposed Rates Commodity Demand Customer Total Revenue per Therm at Proposed Rate Cost per Unit at Proposed Rates	Schedule 67,518,814 13,313,785 13,674,006 94,506,605 \$0.86448 \$0.17046 \$0.17508 \$1.21002	50,300,380 10,219,918 12,381,437 72,901,735 \$0.89568 \$0.18198 \$0.22047 \$1.29813	16,656,837 2,989,788 1,199,848 20,846,474 \$0,88916 \$0,88916 \$0,15960 \$0,06405 \$1,11280	376,743 23,872 2,494 403,109 \$0.89101 \$0.05646 \$0.00590 \$0.95336	184,853 80,206 90,227 355,287 \$0.06630 \$0.02877 \$0.03236 \$0.12743
24 25 26 27 28 29 30 31 32 32	Cost by Classification at Proposed Return by Commodity Demand Customer Total Proposed Rate Revenue Revenue per Therm at Proposed Rates Commodity Demand Customer Total Revenue per Therm at Proposed Rate Cost per Unit at Proposed Rates Commodity Cost per Therm	Schedule 67,518,814 13,313,785 13,674,006 94,506,605 \$0.86448 \$0.17046 \$0.17508 \$1.21002 \$0.86448	50,300,380 10,219,918 12,381,437 72,901,735 \$0.89568 \$0.18198 \$0.22047 \$1.29813 \$0.89568	16,656,837 2,989,788 1,199,848 20,846,474 \$0,88916 \$0,15960 \$0,06405 \$1,11280 \$0,88916	376,743 23,872 2,494 403,109 \$0.89101 \$0.05646 \$0.00590 \$0.95336 \$0.89101	184,853 80,206 90,227 355,287 \$0.06630 \$0.02877 \$0.03236 \$0.12743 \$0.06630
24 25 26 27 28 29 30 31 32 33 34	Cost by Classification at Proposed Return by Commodity Demand Customer Total Proposed Rate Revenue Revenue per Therm at Proposed Rates Commodity Demand Customer Total Revenue per Therm at Proposed Rate Cost per Unit at Proposed Rates Commodity Cost per Therm Demand Cost per Therm Demand Cost per Peak Day Therms Customer Cost per Customer per Month	Schedule 67,518,814 13,313,785 13,674,006 94,506,605 \$0.86448 \$0.17046 \$0.17508 \$1.21002 \$0.86448 \$22.84 \$15.96	50,300,380 10,219,918 12,381,437 72,901,735 \$0.89568 \$0.18198 \$0.22047 \$1.29813 \$0.89568 \$22.79 \$14,52	16,656,837 2,989,788 1,199,848 20,846,474 \$0.88916 \$0.15960 \$0.06405 \$1.11280 \$0.88916 \$25.82 \$120,82	376,743 23,872 2,494 403,109 \$0.89101 \$0.05646 \$0.00590 \$0.95336 \$0.89101 \$11.38 \$207 87	184,853 80,206 90,227 355,287 \$0.06630 \$0.02877 \$0.03236 \$0.12743 \$0.06630 \$4.85
24 25 26 27 28 29 30 31 32 33 34	Cost by Classification at Proposed Return by Commodity Demand Customer Total Proposed Rate Revenue Revenue per Therm at Proposed Rates Commodity Demand Customer Total Revenue per Therm at Proposed Rate Cost per Unit at Proposed Rates Commodity Cost per Therm Demand Cost per Peak Day Therms Customer Cost per Customer per Month	Schedule 67,518,814 13,313,785 13,674,006 94,506,605 \$0.86448 \$0.17046 \$0.17508 \$1.21002 \$0.86448 \$22.84 \$15.86	50,300,380 10,219,918 12,381,437 72,901,735 \$0.89568 \$0.18198 \$0.22047 \$1.29813 \$0.89568 \$22.79 \$14.53	16,656,837 2,989,788 1,199,848 20,846,474 \$0.88916 \$0.15960 \$0.06405 \$1.11280 \$0.88916 \$25.82 \$120.82	376,743 23,872 2,494 403,109 \$0.89101 \$0.05646 \$0.00590 \$0.95336 \$0.89101 \$11.38 \$207.87	184,853 80,206 90,227 355,287 \$0.06630 \$0.02877 \$0.03236 \$0.12743 \$0.06630 \$4.85 \$1,503.79
24 25 26 27 28 29 30 31 32 33 34	Cost by Classification at Proposed Return by Commodity Demand Customer Total Proposed Rate Revenue Revenue per Therm at Proposed Rates Commodity Demand Customer Total Revenue per Therm at Proposed Rate Cost per Unit at Proposed Rates Commodity Cost per Therm Demand Cost per Peak Day Therms Customer Cost per Customer per Month Cost by Classification at Uniform Proposed R	Schedule 67,518,814 13,313,785 13,674,006 94,506,605 \$0.86448 \$0.17046 \$0.17508 \$1.21002 \$0.86448 \$22.84 \$15.86 eturn	50,300,380 10,219,918 12,381,437 72,901,735 \$0.89568 \$0.18198 \$0.22047 \$1.29813 \$0.89568 \$22.79 \$14.53	16,656,837 2,989,788 1,199,848 20,846,474 \$0.88916 \$0.15960 \$0.06405 \$1.11280 \$0.88916 \$25.82 \$120.82	376,743 23,872 2,494 403,109 \$0.89101 \$0.05646 \$0.00590 \$0.95336 \$0.89101 \$11.38 \$207.87	184,853 80,206 90,227 355,287 \$0.06630 \$0.02877 \$0.03236 \$0.12743 \$0.06630 \$4.85 \$1,503.79
24 25 26 27 28 29 30 31 32 33 34 35	Cost by Classification at Proposed Return by Commodity Demand Customer Total Proposed Rate Revenue Revenue per Therm at Proposed Rates Commodity Demand Customer Total Revenue per Therm at Proposed Rate Cost per Unit at Proposed Rates Commodity Cost per Therm Demand Cost per Peak Day Therms Customer Cost per Customer per Month Cost by Classification at Uniform Proposed R Commodity	Schedule 67,518,814 13,313,785 13,674,006 94,506,605 \$0.86448 \$0.17046 \$0.17046 \$0.17508 \$1.21002 \$0.86448 \$22.84 \$15.86 seturn 67,525,892	50,300,380 10,219,918 12,381,437 72,901,735 \$0.89568 \$0.18198 \$0.22047 \$1.29813 \$0.89568 \$22.79 \$14.53 50,280,920	16,656,837 2,989,788 1,199,848 20,846,474 \$0.88916 \$0.15960 \$0.06405 \$1.11280 \$0.88916 \$25.82 \$120.82 16,702,918	376,743 23,872 2,494 403,109 \$0.89101 \$0.05646 \$0.00590 \$0.95336 \$0.89101 \$11.38 \$207.87 375,731	184,853 80,206 90,227 355,287 \$0.06630 \$0.02877 \$0.03236 \$0.12743 \$0.06630 \$4.85 \$1,503.79 166,324
24 25 26 27 28 29 30 31 32 33 34 35 36	Cost by Classification at Proposed Return by Commodity Demand Customer Total Proposed Rate Revenue Revenue per Therm at Proposed Rates Commodity Demand Customer Total Revenue per Therm at Proposed Rate Cost per Unit at Proposed Rates Commodity Cost per Therm Demand Cost per Peak Day Therms Customer Cost per Customer per Month Cost by Classification at Uniform Proposed R Commodity Demand	Schedule 67,518,814 13,313,785 13,674,006 94,506,605 \$0.86448 \$0.17046 \$0.17046 \$0.17508 \$1.21002 \$0.86448 \$22.84 \$15.86 eturn 67,525,892 13,321,397	50,300,380 10,219,918 12,381,437 72,901,735 \$0.89568 \$0.18198 \$0.22047 \$1.29813 \$0.89568 \$22.79 \$14.53 50,280,920 10,198,409	16,656,837 2,989,788 1,199,848 20,846,474 \$0.88916 \$0.15960 \$0.06405 \$1.11280 \$0.88916 \$25.82 \$120.82 16,702,918 3,031,659	376,743 23,872 2,494 403,109 \$0.89101 \$0.05646 \$0.00590 \$0.95336 \$0.89101 \$11.38 \$207.87 375,731 23,091	184,853 80,206 90,227 355,287 \$0.06630 \$0.02877 \$0.03236 \$0.12743 \$0.06630 \$4.85 \$1,503.79 166,324 68,238
24 25 26 27 28 29 30 31 32 33 34 35 36 37	Cost by Classification at Proposed Return by Commodity Demand Customer Total Proposed Rate Revenue Revenue per Therm at Proposed Rates Commodity Demand Customer Total Revenue per Therm at Proposed Rates Cost per Unit at Proposed Rates Commodity Cost per Therm Demand Cost per Peak Day Therms Customer Cost per Customer per Month Cost by Classification at Uniform Proposed R Commodity Demand Customer	Schedule 67,518,814 13,313,785 13,674,006 94,506,605 \$0.86448 \$0.17046 \$0.17046 \$0.17508 \$1.21002 \$0.86448 \$22.84 \$15.86 eturn 67,525,892 13,321,397 13,659,316	50,300,380 10,219,918 12,381,437 72,901,735 \$0.89568 \$0.18198 \$0.22047 \$1.29813 \$0.89568 \$22.79 \$14.53 50,280,920 10,198,409 12,349,045	16,656,837 2,989,788 1,199,848 20,846,474 \$0.88916 \$0.15960 \$0.06405 \$1.11280 \$0.88916 \$25.82 \$120.82 16,702,918 3,031,659 1,224,765	376,743 23,872 2,494 403,109 \$0.89101 \$0.05646 \$0.00590 \$0.95336 \$0.89101 \$11.38 \$207.87 375,731 23,091 2,435	184,853 80,206 90,227 355,287 \$0.06630 \$0.02877 \$0.03236 \$0.12743 \$0.06630 \$4.85 \$1,503.79 166,324 68,238 83,070
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	Cost by Classification at Proposed Return by Commodity Demand Customer Total Proposed Rate Revenue Revenue per Therm at Proposed Rates Commodity Demand Customer Total Revenue per Therm at Proposed Rates Cost per Unit at Proposed Rates Cost per Unit at Proposed Rates Commodity Cost per Therm Demand Cost per Peak Day Therms Customer Cost per Customer per Month Cost by Classification at Uniform Proposed R Commodity Demand Customer Total Uniform Proposed Cost	Schedule 67,518,814 13,313,785 13,674,006 94,506,605 \$0.86448 \$0.17046 \$0.17046 \$0.17508 \$1.21002 \$0.86448 \$22.84 \$15.86 eturn 67,525,892 13,321,397 13,659,316 94,506,605	50,300,380 10,219,918 12,381,437 72,901,735 \$0.89568 \$0.18198 \$0.22047 \$1.29813 \$0.89568 \$22.79 \$14.53 50,280,920 10,198,409 12,349,045 72,828,375	16,656,837 2,989,788 1,199,848 20,846,474 \$0.88916 \$0.15960 \$0.06405 \$1.11280 \$0.88916 \$25.82 \$120.82 16,702,918 3,031,659 1,224,765 20,959,341	376,743 23,872 2,494 403,109 \$0.89101 \$0.05646 \$0.00590 \$0.95336 \$0.89101 \$11.38 \$207.87 375,731 23,091 2,435 401,257	184,853 80,206 90,227 355,287 \$0.06630 \$0.02877 \$0.03236 \$0.12743 \$0.06630 \$4.85 \$1,503.79 166,324 68,238 83,070 317,632
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	Cost by Classification at Proposed Return by Commodity Demand Customer Total Proposed Rate Revenue Revenue per Therm at Proposed Rates Commodity Demand Customer Total Revenue per Therm at Proposed Rate Cost per Unit at Proposed Rates Commodity Cost per Therm Demand Cost per Peak Day Therms Customer Cost per Customer per Month Cost by Classification at Uniform Proposed R Commodity Demand Customer Total Uniform Proposed Cost Cost per Therm at Proposed Return	Schedule 67,518,814 13,313,785 13,674,006 94,506,605 \$0.86448 \$0.17046 \$0.17046 \$0.17508 \$1.21002 \$0.86448 \$22.84 \$15.86 eturn 67,525,892 13,321,397 13,659,316 94,506,605	50,300,380 10,219,918 12,381,437 72,901,735 \$0.89568 \$0.18198 \$0.22047 \$1.29813 \$0.89568 \$22.79 \$14.53 50,280,920 10,198,409 12,349,045 72,828,375	16,656,837 2,989,788 1,199,848 20,846,474 \$0.88916 \$0.15960 \$0.06405 \$1.11280 \$0.88916 \$25.82 \$120.82 16,702,918 3,031,659 1,224,765 20,959,341	376,743 23,872 2,494 403,109 \$0.89101 \$0.05646 \$0.00590 \$0.95336 \$0.89101 \$11.38 \$207.87 375,731 23,091 2,435 401,257	184,853 80,206 90,227 355,287 \$0.06630 \$0.02877 \$0.03236 \$0.12743 \$0.06630 \$4.85 \$1,503.79 166,324 68,238 83,070 317,632
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39	Cost by Classification at Proposed Return by Commodity Demand Customer Total Proposed Rate Revenue Revenue per Therm at Proposed Rates Commodity Demand Customer Total Revenue per Therm at Proposed Rate Cost per Unit at Proposed Rates Commodity Cost per Therm Demand Cost per Peak Day Therms Customer Cost per Customer per Month Cost by Classification at Uniform Proposed R Commodity Demand Customer Total Uniform Proposed Cost Cost per Therm at Proposed Return Cost per Therm at Proposed Return Commodity	Schedule 67,518,814 13,313,785 13,674,006 94,506,605 \$0.86448 \$0.17046 \$0.17046 \$0.17508 \$1.21002 \$0.86448 \$22.84 \$15.86 eturn 67,525,892 13,321,397 13,659,316 94,506,605 \$0.86457	50,300,380 10,219,918 12,381,437 72,901,735 \$0.89568 \$0.18198 \$0.22047 \$1.29813 \$0.89568 \$22.79 \$14.53 50,280,920 10,198,409 12,349,045 72,828,375 \$0.89533	16,656,837 2,989,788 1,199,848 20,846,474 \$0.88916 \$0.15960 \$0.06405 \$1.11280 \$0.88916 \$25.82 \$120.82 16,702,918 3,031,659 1,224,765 20,959,341 \$0.89162	376,743 23,872 2,494 403,109 \$0.89101 \$0.05646 \$0.00590 \$0.95336 \$0.89101 \$11.38 \$207.87 375,731 23,091 2,435 401,257 \$0.88861	184,853 80,206 90,227 355,287 \$0.06630 \$0.02877 \$0.03236 \$0.12743 \$0.06630 \$4.85 \$1,503.79 166,324 68,238 83,070 317,632 \$0.05966
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	Cost by Classification at Proposed Return by Commodity Demand Customer Total Proposed Rate Revenue Revenue per Therm at Proposed Rates Commodity Demand Customer Total Revenue per Therm at Proposed Rate Cost per Unit at Proposed Rates Commodity Cost per Therm Demand Cost per Peak Day Therms Customer Cost per Customer per Month Cost by Classification at Uniform Proposed R Commodity Demand Customer Total Uniform Proposed Cost Cost per Therm at Proposed Return Commodity Demand	Schedule 67,518,814 13,313,785 13,674,006 94,506,605 \$0.86448 \$0.17046 \$0.17046 \$0.17508 \$1.21002 \$0.86448 \$22.84 \$15.86 eturn 67,525,892 13,321,397 13,659,316 94,506,605 \$0.86457 \$0.17056	50,300,380 10,219,918 12,381,437 72,901,735 \$0.89568 \$0.18198 \$0.22047 \$1.29813 \$0.89568 \$22.79 \$14.53 50,280,920 10,198,409 12,349,045 72,828,375 \$0.89533 \$0.18160	16,656,837 2,989,788 1,199,848 20,846,474 \$0.88916 \$0.15960 \$0.06405 \$1.11280 \$0.88916 \$25.82 \$120.82 16,702,918 3,031,659 1,224,765 20,959,341 \$0.89162 \$0.16183	376,743 23,872 2,494 403,109 \$0.89101 \$0.05646 \$0.00590 \$0.95336 \$0.89101 \$11.38 \$207.87 375,731 23,091 2,435 401,257 \$0.88861 \$0.05461	184,853 80,206 90,227 355,287 \$0.06630 \$0.02877 \$0.03236 \$0.12743 \$0.06630 \$4.85 \$1,503.79 166,324 68,238 83,070 317,632 \$0.05966 \$0.02448
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41	Cost by Classification at Proposed Return by Commodity Demand Customer Total Proposed Rate Revenue Revenue per Therm at Proposed Rates Commodity Demand Customer Total Revenue per Therm at Proposed Rate Cost per Unit at Proposed Rates Commodity Cost per Therm Demand Cost per Peak Day Therms Customer Cost per Customer per Month Cost by Classification at Uniform Proposed R Commodity Demand Customer Total Uniform Proposed Cost Cost per Therm at Proposed Return Commodity Demand Customer	Schedule 67,518,814 13,313,785 13,674,006 94,506,605 \$0.86448 \$0.17046 \$0.17046 \$0.17508 \$1.21002 \$0.86448 \$22.84 \$15.86 eturn 67,525,892 13,321,397 13,659,316 94,506,605 \$0.86457 \$0.17056 \$0.17489	50,300,380 10,219,918 12,381,437 72,901,735 \$0.89568 \$0.18198 \$0.22047 \$1.29813 \$0.89568 \$22.79 \$14.53 50,280,920 10,198,409 12,349,045 72,828,375 \$0.89533 \$0.18160 \$0.21989	16,656,837 2,989,788 1,199,848 20,846,474 \$0.88916 \$0.15960 \$0.06405 \$1.11280 \$0.88916 \$25.82 \$120.82 16,702,918 3,031,659 1,224,765 20,959,341 \$0.89162 \$0.16183 \$0.06538	376,743 23,872 2,494 403,109 \$0.89101 \$0.05646 \$0.00590 \$0.95336 \$0.89101 \$11.38 \$207.87 375,731 23,091 2,435 401,257 \$0.88861 \$0.05461 \$0.00576	184,853 80,206 90,227 355,287 \$0.06630 \$0.02877 \$0.03236 \$0.12743 \$0.06630 \$4.85 \$1,503.79 166,324 68,238 83,070 317,632 \$0.05966 \$0.02448 \$0.02980
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42	Cost by Classification at Proposed Return by Commodity Demand Customer Total Proposed Rate Revenue Revenue per Therm at Proposed Rates Commodity Demand Customer Total Revenue per Therm at Proposed Rate Cost per Unit at Proposed Rates Commodity Cost per Therm Demand Cost per Peak Day Therms Customer Cost per Customer per Month Cost by Classification at Uniform Proposed R Commodity Demand Customer Total Uniform Proposed Cost Cost per Therm at Proposed Return Commodity Demand Customer Total Uniform Proposed Return Commodity Demand Customer Total Cost per Therm at Proposed Return	Schedule 67,518,814 13,313,785 13,674,006 94,506,605 \$0.86448 \$0.17046 \$0.17046 \$0.17508 \$1.21002 \$0.86448 \$22.84 \$15.86 eturn 67,525,892 13,321,397 13,659,316 94,506,605 \$0.86457 \$0.17056 \$0.17489 \$1.21002	50,300,380 10,219,918 12,381,437 72,901,735 \$0.89568 \$0.18198 \$0.22047 \$1.29813 \$0.89568 \$22.79 \$14.53 50,280,920 10,198,409 12,349,045 72,828,375 \$0.89533 \$0.18160 \$0.21989 \$1.29682	16,656,837 2,989,788 1,199,848 20,846,474 \$0.88916 \$0.15960 \$0.06405 \$1.11280 \$0.88916 \$25.82 \$120.82 16,702,918 3,031,659 1,224,765 20,959,341 \$0.89162 \$0.16183 \$0.06538 \$1.11883	376,743 23,872 2,494 403,109 \$0.89101 \$0.05646 \$0.00590 \$0.95336 \$0.89101 \$11.38 \$207.87 375,731 23,091 2,435 401,257 \$0.88861 \$0.05461 \$0.05461 \$0.094898	184,853 80,206 90,227 355,287 \$0.06630 \$0.02877 \$0.03236 \$0.12743 \$0.06630 \$4.85 \$1,503.79 166,324 68,238 83,070 317,632 \$0.05966 \$0.02448 \$0.02980 \$0.11393
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42	Cost by Classification at Proposed Return by Commodity Demand Customer Total Proposed Rate Revenue Revenue per Therm at Proposed Rates Commodity Demand Customer Total Revenue per Therm at Proposed Rate Cost per Unit at Proposed Rates Commodity Cost per Therm Demand Cost per Peak Day Therms Customer Cost per Customer per Month Cost by Classification at Uniform Proposed R Commodity Demand Customer Total Uniform Proposed Cost Cost per Therm at Proposed Return Commodity Demand Customer Total Uniform Proposed Return Commodity Demand Customer Total Cost per Therm at Proposed Return Cost per Unit at Uniform Proposed Return	Schedule 67,518,814 13,313,785 13,674,006 94,506,605 \$0.86448 \$0.17046 \$0.17046 \$0.17508 \$1.21002 \$0.86448 \$22.84 \$15.86 eturn 67,525,892 13,321,397 13,659,316 94,506,605 \$0.86457 \$0.17056 \$0.17489 \$1.21002	50,300,380 10,219,918 12,381,437 72,901,735 \$0.89568 \$0.18198 \$0.22047 \$1.29813 \$0.89568 \$22.79 \$14.53 50,280,920 10,198,409 12,349,045 72,828,375 \$0.89533 \$0.18160 \$0.21989 \$1.29682	16,656,837 2,989,788 1,199,848 20,846,474 \$0.88916 \$0.15960 \$0.06405 \$1.11280 \$0.88916 \$25.82 \$120.82 16,702,918 3,031,659 1,224,765 20,959,341 \$0.89162 \$0.16183 \$0.06538 \$1.11883	376,743 23,872 2,494 403,109 \$0.89101 \$0.05646 \$0.00590 \$0.95336 \$0.89101 \$11.38 \$207.87 375,731 23,091 2,435 401,257 \$0.88861 \$0.05461 \$0.05461 \$0.0576 \$0.94898	184,853 80,206 90,227 355,287 \$0.06630 \$0.02877 \$0.03236 \$0.12743 \$0.06630 \$4.85 \$1,503.79 166,324 68,238 83,070 317,632 \$0.05966 \$0.02448 \$0.02980 \$0.11393
24 25 26 27 28 29 30 31 32 33 4 35 36 37 38 39 40 41 42 43	Cost by Classification at Proposed Return by Commodity Demand Customer Total Proposed Rate Revenue Revenue per Therm at Proposed Rates Commodity Demand Customer Total Revenue per Therm at Proposed Rate Cost per Unit at Proposed Rates Commodity Cost per Therm Demand Cost per Peak Day Therms Customer Cost per Customer per Month Cost by Classification at Uniform Proposed R Commodity Demand Customer Total Uniform Proposed Cost Cost per Therm at Proposed Return Commodity Demand Customer Total Uniform Proposed Return Commodity Demand Customer Total Cost per Therm at Proposed Return Cost per Unit at Uniform Proposed Return Cost per Unit at Uniform Proposed Return	Schedule 67,518,814 13,313,785 13,674,006 94,506,605 \$0.86448 \$0.17046 \$0.17046 \$0.17508 \$1.21002 \$0.86448 \$22.84 \$15.86 eturn 67,525,892 13,321,397 13,659,316 94,506,605 \$0.86457 \$0.17056 \$0.17489 \$1.21002 \$0.86457	50,300,380 10,219,918 12,381,437 72,901,735 \$0.89568 \$0.18198 \$0.22047 \$1.29813 \$0.89568 \$22.79 \$14.53 50,280,920 10,198,409 12,349,045 72,828,375 \$0.89533 \$0.18160 \$0.21989 \$1.29682 \$0.89533	16,656,837 2,989,788 1,199,848 20,846,474 \$0.88916 \$0.15960 \$0.06405 \$1.11280 \$0.88916 \$25.82 \$120.82 16,702,918 3,031,659 1,224,765 20,959,341 \$0.89162 \$0.16183 \$0.06538 \$1.11883	376,743 23,872 2,494 403,109 \$0.89101 \$0.05646 \$0.00590 \$0.95336 \$0.89101 \$11.38 \$207.87 375,731 23,091 2,435 401,257 \$0.88861 \$0.05461 \$0.0576 \$0.94898 \$0.88861	184,853 80,206 90,227 355,287 \$0.06630 \$0.02877 \$0.03236 \$0.12743 \$0.06630 \$4.85 \$1,503.79 166,324 68,238 83,070 317,632 \$0.05966 \$0.02448 \$0.02980 \$0.11393 \$0.05966
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	Cost by Classification at Proposed Return by Commodity Demand Customer Total Proposed Rate Revenue Revenue per Therm at Proposed Rates Commodity Demand Customer Total Revenue per Therm at Proposed Rate Cost per Unit at Proposed Rates Commodity Cost per Therm Demand Cost per Peak Day Therms Customer Cost per Customer per Month Cost by Classification at Uniform Proposed R Commodity Demand Customer Total Uniform Proposed Cost Cost per Therm at Proposed Return Commodity Demand Customer Total Uniform Proposed Return Commodity Demand Customer Total Cost per Therm at Proposed Return Cost per Unit at Uniform Proposed Return Commodity Cost per Therm Demand Cost per Peak Day Therms	Schedule 67,518,814 13,313,785 13,674,006 94,506,605 \$0.86448 \$0.17046 \$0.17046 \$0.17508 \$1.21002 \$0.86448 \$22.84 \$15.86 eturn 67,525,892 13,321,397 13,659,316 94,506,605 \$0.86457 \$0.17056 \$0.17489 \$1.21002 \$0.86457 \$0.86457 \$0.86457 \$22.86	50,300,380 10,219,918 12,381,437 72,901,735 \$0.89568 \$0.22047 \$1.29813 \$0.89568 \$22.79 \$14.53 50,280,920 10,198,409 12,349,045 72,828,375 \$0.89533 \$0.18160 \$0.21989 \$1.29682 \$0.89533 \$22.74	16,656,837 2,989,788 1,199,848 20,846,474 \$0.88916 \$0.15960 \$0.06405 \$1.11280 \$0.88916 \$25.82 \$120.82 16,702,918 3,031,659 1,224,765 20,959,341 \$0.89162 \$0.16183 \$0.06538 \$1.11883 \$0.89162 \$0.	376,743 23,872 2,494 403,109 \$0.89101 \$0.05646 \$0.00590 \$0.95336 \$0.89101 \$11.38 \$207.87 375,731 23,091 2,435 401,257 \$0.88861 \$0.05461 \$0.05461 \$0.0576 \$0.94898 \$0.88861 \$11.01	184,853 80,206 90,227 355,287 \$0.06630 \$0.02877 \$0.03236 \$0.12743 \$0.06630 \$4.85 \$1,503.79 166,324 68,238 83,070 317,632 \$0.05966 \$0.02448 \$0.02980 \$0.11393 \$0.05966 \$4.13
24252627 289331 32334 3563738 390441 4243445	Cost by Classification at Proposed Return by Commodity Demand Customer Total Proposed Rate Revenue Revenue per Therm at Proposed Rates Commodity Demand Customer Total Revenue per Therm at Proposed Rate Cost per Unit at Proposed Rates Commodity Cost per Therm Demand Cost per Peak Day Therms Customer Cost per Customer per Month Cost by Classification at Uniform Proposed R Commodity Demand Customer Total Uniform Proposed Cost Cost per Therm at Proposed Return Commodity Demand Customer Total Uniform Proposed Return Commodity Demand Customer Total Cost per Therm at Proposed Return Cost per Unit at Uniform Proposed Return	Schedule 67,518,814 13,313,785 13,674,006 94,506,605 \$0.86448 \$0.17046 \$0.17046 \$0.17508 \$1.21002 \$0.86448 \$22.84 \$15.86 eturn 67,525,892 13,321,397 13,659,316 94,506,605 \$0.86457 \$0.17056 \$0.17489 \$1.21002 \$0.86457 \$0.86457 \$0.17056 \$0.17489 \$1.21002	50,300,380 10,219,918 12,381,437 72,901,735 \$0.89568 \$0.18198 \$0.22047 \$1.29813 \$0.89568 \$22.79 \$14.53 50,280,920 10,198,409 12,349,045 72,828,375 \$0.89533 \$0.18160 \$0.21989 \$1.29682 \$0.89533 \$22.74 \$14.49	16,656,837 2,989,788 1,199,848 20,846,474 \$0.88916 \$0.15960 \$0.06405 \$1.11280 \$0.88916 \$25.82 \$120.82 16,702,918 3,031,659 1,224,765 20,959,341 \$0.89162 \$0.16183 \$0.06538 \$1.11883 \$0.89162 \$26.19 \$123.33	376,743 23,872 2,494 403,109 \$0.89101 \$0.05646 \$0.00590 \$0.95336 \$0.89101 \$11.38 \$207.87 375,731 23,091 2,435 401,257 \$0.88861 \$0.05461 \$0.0576 \$0.94898 \$0.88861 \$11.01 \$202.92	184,853 80,206 90,227 355,287 \$0.06630 \$0.02877 \$0.03236 \$0.12743 \$0.06630 \$4.85 \$1,503.79 166,324 68,238 83,070 317,632 \$0.05966 \$0.02448 \$0.02980 \$0.11393 \$0.05966 \$4.13 \$1,384.51
24 25 26 27 28 29 30 31 32 33 34 35 6 37 38 39 40 41 42 43 44 45 46	Cost by Classification at Proposed Return by Commodity Demand Customer Total Proposed Rate Revenue Revenue per Therm at Proposed Rates Commodity Demand Customer Total Revenue per Therm at Proposed Rate Cost per Unit at Proposed Rates Commodity Cost per Therm Demand Cost per Peak Day Therms Customer Cost per Customer per Month Cost by Classification at Uniform Proposed R Commodity Demand Customer Total Uniform Proposed Cost Cost per Therm at Proposed Return Commodity Demand Customer Total Uniform Proposed Return Commodity Demand Customer Total Cost per Therm at Proposed Return Cost per Unit at Uniform Proposed Return	Schedule 67,518,814 13,313,785 13,674,006 94,506,605 \$0.86448 \$0.17046 \$0.17046 \$0.17508 \$1.21002 \$0.86448 \$22.84 \$15.86 eturn 67,525,892 13,321,397 13,659,316 94,506,605 \$0.86457 \$0.17056 \$0.17489 \$1.21002 \$0.86457 \$0.86457 \$0.17056 \$0.17489 \$1.21002 \$0.86457 \$1.21002 \$0.86457 \$1.21002 \$0.86457 \$1.21002 \$0.86457 \$1.21002 \$0.86457 \$1.21002 \$0.86457 \$1.21002 \$0.86457 \$1.21002 \$0.86457 \$1.21002 \$0.86457 \$1.21002 \$0.86457 \$1.21002 \$0.86457 \$1.21002 \$0.86457 \$1.21002 \$0.86457 \$1.21002	50,300,380 10,219,918 12,381,437 72,901,735 \$0.89568 \$0.18198 \$0.22047 \$1.29813 \$0.89568 \$22.79 \$14.53 50,280,920 10,198,409 12,349,045 72,828,375 \$0.89533 \$0.18160 \$0.21989 \$1.29682 \$0.89533 \$22.74 \$14.49 1.00	16,656,837 2,989,788 1,199,848 20,846,474 \$0.88916 \$0.15960 \$0.06405 \$1.11280 \$0.88916 \$25.82 \$120.82 16,702,918 3,031,659 1,224,765 20,959,341 \$0.89162 \$0.16183 \$0.06538 \$1.11883 \$0.89162 \$26.19 \$123.33 0.99	376,743 23,872 2,494 403,109 \$0.89101 \$0.05646 \$0.00590 \$0.95336 \$0.89101 \$11.38 \$207.87 375,731 23,091 2,435 401,257 \$0.88861 \$0.05461 \$0.05461 \$0.0576 \$0.94898 \$0.88861 \$11.01 \$202.92 1.00	184,853 80,206 90,227 355,287 \$0.06630 \$0.02877 \$0.03236 \$0.12743 \$0.06630 \$4.85 \$1,503.79 166,324 68,238 83,070 317,632 \$0.05966 \$0.02448 \$0.02980 \$0.11393 \$0.05966 \$4.13 \$1,384.51 1.12
24 25 26 27 28 29 30 31 32 33 34 35 37 38 39 40 41 42 43 44 5 46 47	Cost by Classification at Proposed Return by Commodity Demand Customer Total Proposed Rate Revenue Revenue per Therm at Proposed Rates Commodity Demand Customer Total Revenue per Therm at Proposed Rates Cost per Unit at Proposed Rates Cost per Unit at Proposed Rates Commodity Cost per Therm Demand Cost per Peak Day Therms Customer Cost per Customer per Month Cost by Classification at Uniform Proposed R Commodity Demand Customer Total Uniform Proposed Cost Cost per Therm at Proposed Return Commodity Demand Customer Total Cost per Therm at Proposed Return Commodity Demand Customer Total Cost per Therm at Proposed Return Cost per Unit at Uniform Proposed Return Cost per Unit at Uniform Proposed Return Cost per Unit at Uniform Proposed Return Commodity Cost per Therm Demand Cost per Peak Day Therms Customer Cost per Customer per Month Revenue to Cost Ratio at Proposed Rates Current Revenue to Proposed Cost	Schedule 67,518,814 13,313,785 13,674,006 94,506,605 \$0.86448 \$0.17046 \$0.17046 \$0.17046 \$0.17058 \$1.21002 \$0.86448 \$22.84 \$15.86 eturn 67,525,892 13,321,397 13,659,316 94,506,605 \$0.86457 \$0.17056 \$0.1000 \$0.00000000000000000000000000000000	50,300,380 10,219,918 12,381,437 72,901,735 \$0.89568 \$0.18198 \$0.22047 \$1.29813 \$0.89568 \$22.79 \$14.53 \$0.89568 \$22.79 \$14.53 \$0,280,920 10,198,409 12,349,045 72,828,375 \$0.89533 \$0.18160 \$0.21989 \$1.29682 \$0.89533 \$22.74 \$14.49 1.00	16,656,837 2,989,788 1,199,848 20,846,474 \$0.88916 \$0.15960 \$0.06405 \$1.11280 \$0.88916 \$25.82 \$120.82 16,702,918 3,031,659 1,224,765 20,959,341 \$0.89162 \$0.16183 \$0.06538 \$1.11883 \$0.89162 \$26.19 \$123.33 0.99	376,743 23,872 2,494 403,109 \$0.89101 \$0.05646 \$0.00590 \$0.95336 \$0.89101 \$11.38 \$207.87 375,731 23,091 2,435 401,257 \$0.88861 \$0.0576 \$0.94898 \$0.88861 \$11.01 \$202.92 1.00	184,853 80,206 90,227 355,287 \$0.06630 \$0.02877 \$0.03236 \$0.12743 \$0.06630 \$4.85 \$1,503.79 166,324 68,238 83,070 317,632 \$0.05966 \$0.02448 \$0.02980 \$0.11393 \$0.05966 \$4.13 \$1,384.51 1.12

Exhibit No. 11 Case No. AVU-G-09-01 T. Knox, Avista Schedule 6, p. 3 of 3