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BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

DOCKET NO. UE - 99- \_\_\_  
DOCKET NO. UG - 99- \_\_\_

EXHIBIT T-58  
TESTIMONY OF BRIAN J. HIRSCHKORN  
REPRESENTING THE AVISTA CORPORATION

<b>WUTC</b>		
DOCKET NO.	<u>UE-991606</u>	
EXHIBIT #	<u>T-490</u>	
ADMIT	W/D	REJECT
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

3 A. My name is Brian J. Hirschorn and my business address is East 1411  
4 Mission Avenue, Spokane, Washington. I am presently assigned to the Rates Department  
5 as a Senior Rate Accountant.

6 Q. Would you briefly describe your duties?

7 A. My primary areas of responsibility include electric and gas rate design,  
8 customer usage and revenue analysis, and tariff administration.

9 Q. Would you briefly describe your educational background?

10 A. I graduated from Washington State University in 1978 with Bachelor  
11 degrees in Business Administration and Accounting.

12 Q. Have you previously testified before the Commission?

13 A. Yes. I have testified before this Commission in several prior rate  
14 proceedings as a revenue and rate design witness.

15  
16 **DOCKET NO. UE-99- / ELECTRIC SERVICE**

17 Q. What is the scope of your testimony in this electric service proceeding?

18 A. My testimony in this proceeding will cover the spread of the proposed  
19 annual revenue increase of \$26,253,000, or 10.4%, among the Company's electric general  
20 service schedules in the State of Washington and the design of the proposed rates within  
21 each of the schedules. I am also responsible for the revenue normalization adjustment,  
22 which includes the weather normalization and unbilled revenue adjustments.

23 Q. Are you sponsoring any exhibits to be introduced in this proceeding?  
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1 (adjusted for known and measurable changes) at present tariff rates in effect, 2) adjusting  
2 customer loads and revenue to a calendar-year basis (unbilled revenue adjustment), and 3)  
3 weather normalizing customer usage and revenue. The rates used to reprice recorded  
4 customer usage are the present tariff rates in effect including Energy Efficiency Rider  
5 Adjustment Schedule 91. The most significant factor reflected in the repricing portion of  
6 the adjustment is reflecting the expiration of the Company's Direct Access and Delivery  
7 Service (DADS) and More Options for Power Service (MOPS) pilot programs by  
8 repricing the usage for those customers at "full service" tariff rates. The repricing portion  
9 of the revenue normalization adjustment increases revenue by \$1,860,000.

10 Q. Would you briefly describe the unbilled revenue portion of the revenue  
11 normalization adjustment?

12 A. Billed / recorded usage and revenue for the test period does not represent  
13 actual usage by customers during the calendar test period, i.e., customer bills issued in  
14 January 1998 include some level of usage in December 1997. Therefore, the unbilled  
15 revenue adjustment is necessary to estimate actual consumption during the calendar year.  
16 The adjustment results from a detailed examination of billed consumption during the  
17 beginning and end of the test year. The net unbilled revenue determined for the test year is  
18 then compared to the net unbilled revenue actually recorded during the year. The unbilled  
19 revenue component of the revenue normalization adjustment decreases revenues by  
20 \$984,000.

21 Q. Why is the amount of the pro forma unbilled revenue different from the  
22 amount which was recorded on an actual basis?

23 A. The pro forma unbilled revenue is a more detailed estimate as compared to  
24

1 the amount recorded on an actual basis and utilizes the present tariff rates in effect to  
2 determine the amount of the revenue adjustment.

3 Q. Could you please describe the weather normalization portion of the revenue  
4 normalization adjustment?

5 A. The determination of the amount of kilowatt-hour (kwh) usage associated  
6 with abnormal weather during the test period is described in Company Witness Knox's  
7 testimony. I am responsible for determining the amount of revenue associated with the  
8 adjustment. For service schedules with only a single energy rate, that rate (present or  
9 proposed) is used to determine the amount of the adjustment under present and proposed  
10 rates. For Residential Schedule 1, which has multiple energy rates, a "weather sensitive  
11 rate" is determined based on the average rate for all consumption which exceeds  
12 customers' "base-load usage", or the estimated monthly amount of customer usage with  
13 no heating or cooling effect. The weather normalization portion of the revenue  
14 normalization adjustment increases revenue by \$1,668,000.

15  
16 **RATE SPREAD**

17 Q. Would you please describe the Company's present rate schedules and the  
18 types of electric service offered under each?

19 A. Yes. The Company presently provides electric service under Residential  
20 Service Schedule 1, General Service Schedules 11 and 12, Large General Service  
21 Schedules 21 and 22, Extra Large General Service Schedule 25, and Pumping Service  
22 Schedules 31 and 32. Additionally, the Company provides Street Lighting Service under  
23 Schedules 41-46, and Area Lighting Service under Schedule 47 and 48. Schedules 12, 22,  
24

1 32, and 48 exist for residential and farm service customers who qualify for the Bonneville  
2 Power Administration "Residential Exchange" program. As the Company is presently not  
3 receiving any credits from the program, the rates for these schedules are identical to the  
4 rates for Schedules 11, 21, 31, and 47, respectively, therefore, the information presented  
5 for these schedules throughout the remainder of my testimony and exhibits is combined.  
6 The following table shows the type of customer and the number of customers served (as of  
7 August 1999) under each of the schedules (except street and area lighting):

<u>Schedule</u>	<u>Type of Customer</u>	<u>No. of Customers</u>
10 Residential Sch. 1	Residential	177,000
11 General Sch. 11&12	Small Commercial / less than 50 kw	22,400
12 Lge. General Sch. 21&22	Med. - Lge. Comm. & Industrial / over 50 kw	3,100
13 Ex. Lge. General Sch. 25	Lge. Comm. & Industrial / over 3,000 kw	21
14 Pumping Sch. 31&32	Agriculture & other water pumping	1,400

15  
16 Q. Does the Company serve any retail special contract customers in  
17 Washington?

18 A. Yes, but only one. The Company provides standby electric service to the  
19 City of Spokane Waste-to-Energy Plant under a special contract, which was approved by  
20 the Commission in 1991.

21 Q. Could you please explain how the Company proposes to spread the overall  
22 revenue increase of \$26,253,000 among the various service schedules?

23 A. Yes. The Company is proposing the following revenue/rate increase by  
24

1 service schedule:

2 Proposed Increase by Rate Schedule

3 Residential Service Schedule 1	14.0%
4 General Service Schedule 11	7.0%
5 Large General Service Schedule 21	7.9%
6 Extra Large General Service Schedule 25	12.6%
7 Pumping Service Schedule 31	12.0%
8 Street & Area Lighting Schedules 41-48	9.8%

9  
10 This information is also shown on Page 1 of Exhibit No. 61.

11 Q. What rationale did the Company use in its proposed spread of the overall  
12 revenue increase to the various rate schedules?

13 A. The Company utilized the results of the cost of service study, as sponsored  
14 by Company Witness Knox, as a guide in developing the proposed rate spread. The  
15 primary goal of the proposed rate spread is to move the rates of return of the individual  
16 schedules closer to the Company's overall rate of return (unity) so that all customers  
17 contribute fairly to the cost of service.

18 The table below shows the relative rates of return by schedule before and after the  
19 proposed increases are applied. The relative rate of return is determined by dividing the  
20 rate of return for each schedule by the overall rate of return for the Company's Washington  
21 electric operations. This information is also shown on Page 2 of Exhibit No. 61.

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Relative Rates of Return by Rate Schedule

	<u>Before Increase</u>	<u>After Increase</u>
Residential Service Schedule 1	0.59	0.72
General Service Schedule 11	1.67	1.45
Large General Service Schedule 21	1.56	1.37
Extra Large General Service Schedule 25	0.89	0.93
Pumping Service Schedule 31	1.02	1.02
Street & Area Lighting Schedules 41-48	1.16	1.10

As shown, the relative rates of return for all of the service schedules move approximately one-third of the way toward unity (1.00) after application of the proposed revenue increase by schedule, with the exception of Schedule 31, which is already near unity.

Q. Why isn't the present rate of return under Residential Schedule 1 closer to unity?

A. As the Commission is aware, the Company has not had a general electric rate increase since 1990. Since that time, natural gas has become the predominant fuel choice for space-heating by customers. Where electricity was the primary heating source for most residential customers in the early 1980's, it is now the primary heating source for only 21% of residential customers, whereas natural gas is the primary source for 61%. As a result, average electric use per customer has decreased by 8% since 1986, from 13,518 to 12,411 kwhs per year. During that same time, the number of residential customers served



1 by the Company has increased by 17% whereas total residential energy and revenue has  
2 increased only 7%. With the addition of new customers, the average fixed cost of  
3 providing service to residential customers has increased. With a present basic charge of  
4 only \$3.00, most of the fixed costs of providing service must be recovered through the  
5 energy charges. As average energy use (and revenue) per customer has declined and  
6 average fixed costs have increased, the rate of return for residential service has fallen from  
7 approximately 8% in 1986 to 4.6% today.

8 Q. Is the Company concerned with the level of increase which it is proposing  
9 to Residential Schedule 1 ?

10 A. Yes it is. However, as stated in Company Witness Turner's testimony,  
11 while prices for other goods and services have increased by 47% during the past 12 years,  
12 the Company's electric rates have increased by less than 4%. If the Company would have  
13 implemented an annual rate change for Residential Schedule 1 during the past twelve  
14 years, the total of which equates to the proposed increase in this filing, that annual  
15 increase would have amounted to about 1.1% per year, which would have gone relatively  
16 unnoticed in customers' bills on a year-to-year basis. During that same time period, the  
17 cost to provide electric service to residential customers has been subsidized by the rates  
18 charged to nearly all commercial and industrial customers (Schedules 11 and 21), and it is  
19 appropriate to begin to reduce this degree of subsidization in the future. While the  
20 Company is concerned with the level of the proposed increase to Schedule 1, as well as  
21 the proposed increase for Schedule 25 customers (average 12.6% increase), it is also  
22 concerned about the level of the proposed increases to commercial and industrial  
23 customers served under Schedules 11 and 21. These customers are presently paying rates  
24

1 well in excess of the cost of providing service, based on the Company's cost of service  
2 study. The Company faces competition for service to many new commercial and  
3 industrial customers from public utilities throughout the area it serves. The commercial  
4 and industrial rates offered by these utilities are lower than the Company's present rates,  
5 whereas their residential rates are generally higher than those offered by the Company.  
6 The proposed increases to Schedules 11 and 21, of 7.0% and 7.9% respectively, will make  
7 the Company's rates for these customers even less competitive.

8 Q. What would the relative rates of return by schedule be if the Company  
9 spread the proposed increase on a uniform percentage basis?

10 A. Shown below is a comparison of the relative rates of return under present  
11 rates, the proposed revenue increase of \$26,253,000 applied on a uniform percentage basis  
12 (11.1%), and the proposed spread of the revenue increase:

	<u>Relative Rate of Return</u>		
	<u>Present</u>	<u>Equal %</u>	<u>Proposed</u>
15 Residential Service Sch. 1	0.59	0.67	0.72
16 General Service Sch. 11	1.67	1.57	1.45
17 Large General Service Sch. 21	1.56	1.45	1.37
18 Extra Large General Service Sch. 25	0.89	0.90	0.93
19 Pumping Service Sch. 31	1.02	1.01	1.02
20 Street & Area Lighting Schs. 41-49	1.16	1.13	1.10

21  
22 As shown, spreading the proposed revenue increase on a uniform percentage basis  
23 would result in a slight movement toward unity in the rates of return for the individual  
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1 service schedules, whereas the proposed spread results in additional movement toward  
2 unity.

3 Q. Why isn't the Company proposing rates which result in all rate schedules  
4 contributing a rate of return equal to the Company's proposed return (unity)?

5 A. The Company also considered other factors such as rate and revenue  
6 stability in its proposed spread of the overall revenue increase. The Company believes  
7 that the proposed rate spread achieves the goal of moving the individual schedule rates of  
8 return closer to unity without compromising these other rate design considerations. The  
9 following table shows the revenue increase (decrease) percentage to each schedule which  
10 would be necessary to achieve unity:

11 Residential Service Sch. 1	27.9%
12 General Service Schedule 11	(9.2)%
13 Large General Service Schedule 21	(7.0)%
14 Extra Large General Service Schedule 25	16.0%
15 Pumping Service Schedule 31	10.8%
16 Street & Area Lighting Schedules 41-49	5.6%

17  
18 As shown, with an increase to Schedule 1 of approximately 28% in order to  
19 achieve unity, a phase-in toward unity will result in more rate stability for customers  
20 served under this Schedule. The Company proposes a two- or three-part phase-in of rates  
21 necessary to result in rates of return by schedule which are at or near unity, with this filing  
22 reflecting the first part of this phase-in. Because of the present disparity in the rates of  
23 return among the various schedules, coupled with the level of the total proposed revenue  
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1 increase in this filing, the Company believes that the proposed (one-third) movement  
2 toward unity is reasonable in this proceeding. Additionally, different cost-of-service  
3 studies can utilize different allocation methodologies for major cost categories. As shown  
4 in Exhibit No. 52 sponsored by Company Witness Knox, the proposed rate spread will  
5 yield results which are similar when applied to other reasonable cost-of-service study  
6 results, i.e., Residential Schedule 1 will not achieve or exceed unity under a different  
7 study.

8 Q. When would you propose that the second part of this "two- or three-part  
9 rate phase-in" occur?

10 A. Further adjustment of rates toward unity could be accomplished either  
11 through future general filings or limited issue (rate spread/rate design) proceedings.

12 Q. Is there additional information which you propose that the Commission  
13 consider regarding the spread of the proposed increase?

14 A Yes. If the Commission approves a revenue increase that is less than the  
15 increase requested, the Company proposes that the Commission consider a rate spread  
16 which moves the rates of return for the Company's general service schedules closer to  
17 unity in this proceeding than the proposed one-third movement proposed by the Company.

18  
19 **RATE DESIGN**

20 Q. Could you please describe what is shown on Page 3 of Exhibit No. 61?

21 A. Yes. Page 3 shows a comparison of the present and proposed rates within  
22 each of the Company's electric service schedules. Both the present and proposed rates  
23 include Energy Efficiency Rider Adjustment Schedule 91 and BPA Tracking Adjustment  
24

1 Schedule 52. Schedule 52 was approved by the Commission in Docket No. UE-900093,  
2 effective July 1, 1990, resulting from increased costs to the Company under its WNP-1  
3 Exchange Agreement with BPA. The Company is filing a revised Schedule 52 in this  
4 Case which is included as part of Exhibit No. 60, whereby the present rates under the  
5 Schedule have been zeroed-out and included in the Company's proposed general service  
6 tariffs.

7 Q. Could you please explain what is shown on Page 4 of Exhibit No. 61?

8 A. Page 4 shows information taken from the cost of service study sponsored  
9 by Company Witness Knox. This page shows cost per billing unit (kwh, kw, and no. of  
10 customers) information for each service schedule based on the cost allocation / assignment  
11 on the basis of energy, demand, or number of customers. Comparing these costs to the  
12 present and proposed rates under each of the Company's service schedules shown on Page  
13 3, it is clear that much of the costs which are allocated based on demand or number of  
14 customers are recovered through the energy charges of the various schedules.

15 Q. Could you please describe the present rate design within Residential  
16 Schedule 1?

17 A. Yes. Residential Schedule 1 is presently a three-block inverted rate  
18 structure with the three blocks being from 0-600 kwhs (3.892 cents/kwh), 601-1,300 kwhs  
19 (4.673 cents/ kwh), and all kwhs over 1,300 (5.628 cents/kwh). The present monthly  
20 basic/customer charge is \$3.00.

21 Q. Is the Company proposing to increase the basic charge?

22 A. Yes. The Company is proposing that the basic charge be increased to \$5.00  
23 per month.

24

1 Q. Why is the Company proposing to increase the monthly basic charge to  
2 \$5.00?

3 A. As shown on Page 4 of Exhibit No. 61, the customer (fixed) cost assigned  
4 and allocated to each residential customer is \$14.70 per month. Therefore, compared to  
5 the present basic charge of \$3.00, most of the fixed costs of providing service are  
6 recovered through the energy charge(s). Further, because of the present inverted rate  
7 structure under Residential Schedule 1, much of the fixed costs of providing service to  
8 low usage customers are actually recovered from other higher usage customers served  
9 under the Schedule.

10 The proposed increase in the basic charge would serve to recover a more  
11 reasonable portion of the fixed costs of service from all customers. As shown on Line 5,  
12 Page 5, of Exhibit No. 61, the proposed monthly basic charge of \$5.00 per month would  
13 approximately recover the average embedded cost for a service line, a meter, meter  
14 reading, and billing. The Company is not purporting that these should be the only costs  
15 recovered through the basic charge, but rather, given the total changes proposed to  
16 Schedule 1, that it is a reasonable level to establish in this case.

17 Q. How does the proposed level of \$5.00 per month compare to the residential  
18 basic charge recently approved by the Commission for other electric utilities in the state?

19 A. According to their tariff dated January 1, 1999, Puget Sound Energy (PSE)  
20 presently has an effective residential basic charge of \$5.28 per month.

21 Q. Is the Company proposing any changes to the present rate structure under  
22 Residential Schedule 1?

23 A. Yes. The Company is proposing a reduction in the number of energy rate  
24

1 blocks from three to two; the present energy tail-block (over 1,300 kwhs) would be  
2 eliminated and the proposed rate blocks would be 0-600 kwhs and over 600 kwhs.

3 Q. Why is the Company proposing to reduce the number of rate blocks from  
4 three to two?

5 A. The present inverted rate structure does not reasonably reflect the cost of  
6 providing service to residential customers. As a result of the inverted structure, many of  
7 the fixed costs of providing service are recovered through the higher-rate second and third  
8 blocks under the schedule. The Company has had the present three-block inverted rate  
9 structure in effect since 1981. This rate structure was implemented to send a price signal  
10 to residential customers that reflected the higher incremental cost of new generating  
11 resources at that time, however, the present inverted rates are no longer representative of  
12 the incremental cost of energy.

13 Since 1986, use per residential customer has declined by 8%. Much of this  
14 decrease was the result of a general shift from electricity to natural gas as the economical  
15 heating fuel of choice. Presently, 61% of the Company's Washington residential  
16 customers use natural gas as their primary heating fuel, while only 21% use electricity.  
17 During the mid-1980s, these numbers were essentially reversed. Where natural gas is  
18 available, nearly all new homes install gas heating equipment. Further, as gas prices fell  
19 over the past decade, many existing customers switched their heating equipment from  
20 electric to gas.

21 Since 1986, the number of residential customers served by the Company  
22 has increased by 17% whereas energy usage and revenue have increased only 7%.  
23 However, total energy consumption in the higher-rate second and third blocks has not  
24

1 increased at all since 1986. As a result, many of the costs which would be recovered  
2 through the second and third block rates assuming constant customer consumption are not  
3 being recovered at all.

4 Although over 61% of Washington residential customers use natural gas as their  
5 primary heating fuel, over 39,000 customers (21%) still use electricity as their primary  
6 home-heating source. Many of these customers either do not have natural gas available or  
7 cannot afford to convert to another fuel source. Applying the proposed increase to the  
8 present inverted rate structure would further increase winter heating bills for these  
9 customers, as opposed to reducing the present rate inversion as proposed.

10 Additionally, much of the customer usage that occurs in the second and third  
11 blocks of the Schedule is weather-sensitive, and can vary from year-to-year depending on  
12 the weather. As a result, the present inverted rate structure leads to a higher level of  
13 revenue volatility to the Company from year-to-year as compared to a flat or declining-  
14 block rate structure. This higher level of revenue volatility caused by the present inverted  
15 rate structure only exacerbates the effect which weather has on the Company's operating  
16 results.

17 Q. Do any other investor-owned utilities, who provide electric service in  
18 Washington, presently have an inverted residential rate structure?

19 A. Both PSE and Pacificorp have a two-block inverted rate structure in effect,  
20 similar to that proposed by the Company.

21 Q. Why isn't the Company proposing a flat/single energy rate, rather than  
22 moving only to a two-block inverted rate structure?

23 A. With the overall amount of the proposed increase to residential customers,  
24



1 together with the proposed basic charge of \$5.00 per month, the Company believes that  
2 moving part way to a flat energy charge in this proceeding is reasonable. A two-part  
3 transition to a flat energy charge would phase in the effect on customers' bills over time.  
4 However, if the Commission does not approve the Company's entire proposed increase in  
5 this case, it may be reasonable to consider moving to a single energy charge in this  
6 proceeding.

7 Q. How did the Company determine the level of the proposed energy rates  
8 under Residential Schedule 1?

9 A. First, a weighted-average rate for the present second- and third-block rates  
10 was calculated. Next, the revenue increase from the proposed basic charge of \$5.00 per  
11 month was subtracted from the total proposed revenue increase under the Schedule to  
12 determine the revenue increase to be spread to the energy charges. This revenue increase  
13 was then spread to the two energy block-rates on a uniform cents per kwh basis to  
14 determine the proposed energy rates.

15 Q. Has the Company estimated the increase to a typical residential customer  
16 based on the proposed rates?

17 A. Yes. Page 6, of Exhibit No. 61 shows the estimated monthly and annual  
18 increase for a typical electric heat and non-electric (gas) heat customer. As shown, the  
19 increase for an electric heat customer using 18,039 kwhs per year is estimated to be an  
20 average of \$10.36 per month, and \$7.13 for a non-electric (gas) heat customer using 9,842  
21 kwhs per year.

22 Q. Is the Company proposing rate structure changes to any of its other service  
23 schedules?

24

1           A.     The only additional rate structure change which the Company is proposing  
2 to implement is a monthly basic charge for Pumping Schedule 31, which presently  
3 contains no monthly minimum charge.

4           Q.     Turning to General Service Schedule 11, could you please explain the  
5 present rates and charges under the Schedule and how the Company is proposing to spread  
6 the proposed increase of 7.0% among those rates and charges?

7           A.     General Service Schedule 11 generally serves small commercial customers  
8 whose monthly peak demand is less than 50 kilowatts. The Schedule presently contains a  
9 monthly basic charge of \$3.85, an energy charge of 6.360 cents/kwh, and a demand charge  
10 of 3.30/kw for kilowatts in excess of 20 each month.

11           The Company is proposing to increase the monthly basic charge from the present  
12 level of \$3.85 per month to \$5.75 per month. As shown on line 10, Page 5 of Exhibit No.  
13 61, \$5.75 per month recovers only the fixed monthly costs associated with a service line, a  
14 meter, meter reading, and billing for a Schedule 11 customer. The proposed basic charge  
15 would not contribute to any other system fixed costs. The Company is also proposing to  
16 increase the present demand charge of \$3.30 per kw to \$3.50 per kw. As shown on line 8,  
17 column (b) on Page 4 of Exhibit No. 61, costs which are allocated to Schedule 11 on a  
18 demand basis total \$8.63/kw (at 9.93% rate of return). The proposed increase to the energy  
19 charge under the Schedule is 0.333 cents per kwh, or 5.2%.

20           Q.     Could you please explain the present rates and charges under Large General  
21 Service Schedule 21 and how the Company is proposing to spread the proposed increase  
22 of 7.9% among those rates and charges?

23           A.     Large General Service Schedule 21 serves commercial and industrial  
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1 customers whose peak demand is between 50 and 3,000 kw per month. The present rates  
2 under the Schedule contain a monthly minimum charge of \$190 for the first 50 kilowatts  
3 or less, an energy charge of 4.191 cents/kwh, and a demand charge of \$2.20/kw for all  
4 kilowatts in excess of 50 each month. Primary voltage customers (served at 11 kilovolts  
5 or higher) receive a discount of 10 cents per kw.

6 The Company is proposing to increase the monthly minimum charge from \$190 to  
7 \$225 per month, and the present demand charge from \$2.20/kw to \$2.75/kw. As shown on  
8 line 8, column (c) on Page 4 of Exhibit No. 61, costs which are allocated to Schedule 21  
9 on a demand basis total \$8.09/kw (at 9.93% rate of return). The proposed increase to the  
10 energy charge is 0.218 cents/kwh or 5.2%. The Company is proposing to increase the  
11 present primary voltage discount from 10 cents per kw to 20 cents per kw.

12 At the present voltage discount rate of 10 cents per kw, there is no economic  
13 incentive for customers to take service at primary voltage, where feasible. In those  
14 instances where a customer is served at primary voltage (11 kilovolts or higher), they are  
15 required to own and maintain electric facilities (step-down transformers, conductor, etc.)  
16 on their side of the metering point. Based on a customer taking primary service with a  
17 peak demand of 1,000 kw and a 50% load factor, the customer's bill would be about  
18 \$140/month higher compared to taking service at secondary voltage because of  
19 transformer losses. Additionally, as the customer is required to own and install the  
20 facilities on their side of the metering point; they will want to recover their investment  
21 through the voltage discount, which in this case, could exceed \$10,000. The amount of  
22 the present monthly primary voltage discount for this customer would be about \$100.  
23 Increasing the discount to the proposed level of 20 cents/kw would provide additional  
24

1 economic incentive for a new customer to take service at primary voltage.

2 Q. How many primary voltage customers does the Company presently  
3 serve?

4 A. The Company presently serves only 25 customers under Schedule 21 who  
5 take service at primary voltage, compared to over 3,100 total customers who take service  
6 under the Schedule. All twenty-one Schedule 25 customer accounts are served at primary  
7 voltage.

8 Q. Could you please explain the present rates and charges under Extra Large  
9 General Service Schedule 25 and how the Company is proposing to spread the proposed  
10 increase of 12.6% among those rates and charges?

11 A. Extra Large General Service Schedule 25 requires a minimum monthly  
12 demand level of 3,000 kilovolt-amperes (kva); eighteen customers (twenty-one accounts/  
13 metering points) are presently served under the Schedule. The Schedule contains a  
14 monthly minimum charge of \$5,500 for the first 3,000 kva or less, an energy charge of  
15 3.015 cents/kwh, and a demand charge of \$1.10 for all kva in excess of 3,000. There is an  
16 annual minimum charge of \$397,650, which is based on 11 million kwhs multiplied by the  
17 energy rate plus the monthly minimum charge (\$5,500) multiplied by 12 (months).  
18 Schedule 25 also contains a present primary voltage discount of 10 cents per kva.

19 The Company is proposing to increase the monthly minimum charge from \$5,500  
20 to \$7,500 per month. Dividing the proposed minimum charge by the first 3,000 kva  
21 covered by the minimum charge yields an implied demand charge of \$2.50 per kva. The  
22 proposed demand charge for all kva in excess of 3,000 is \$2.25, as compared to the  
23 present level of \$1.10/kva. Compared to the demand-related costs from the cost of service  
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1 study, as shown on Page 4 of Exhibit No. 61, this implied charge is still far below the cost  
2 of service (\$6.87/kw). The proposed demand charge will provide customers with a more  
3 reasonable indicator of demand-related costs and encourage them to further improve their  
4 load factor. The proposed increase to the energy charge under the Schedule is 0.233  
5 cents/kwh or 7.7%. The proposed annual minimum charge has also been increased to  
6 \$447,280 based on the same formula as the present charge. The primary voltage discount  
7 is proposed to increase from 10 cents to 20 cents/kva, as discussed above.

8 Q. Could you please explain the present rates and charges under Pumping  
9 Service Schedule 31 and how the Company is proposing to spread the proposed increase  
10 of 12.0% among those rates and charges?

11 A. Pumping Service Schedule 31 provides service for pumping water (and  
12 water effluents) for irrigation, municipal systems, and other purposes. The Schedule  
13 contains a two-block declining rate structure, with the first block being 5.526 cents/kwh  
14 and the second block being 3.722 cents/kwh. The amount of energy billed under each  
15 block is dependent upon the customer's peak demand and load factor (kwhs per kw of  
16 demand).

17 As Schedule 31 presently contains no monthly minimum charge, the Company is  
18 proposing to implement a monthly basic charge of \$6.00. As shown on line 15 of Page 5  
19 of Exhibit No. 21, the proposed basic charge will recover about 83% of the costs  
20 associated with a service line, a meter, meter reading, and billing. The remainder of the  
21 proposed revenue increase to the Schedule is spread equally to the two energy blocks  
22 under the Schedule, resulting in an increase of 0.411 cents/kwh.

23 Q. Turning to Street and Area Light Schedules 41-48, could you please  
24

1 explain the present rates for service and how the proposed increase of 9.8% was spread  
2 among those rates?

3 A. Street and Area Light Schedules contain monthly fixed charges for  
4 different light types and sizes, as well as pole types. Company-owned street lights are  
5 offered under Schedules 41 and 42, maintenance and energy for customer-owned lights is  
6 offered under Schedules 43 and 44, and energy only service is offered under Schedules 45  
7 and 46. Company-owned area lights are offered under Schedule 47 and 48. The proposed  
8 increase of 9.8% was applied uniformly to present rates and charges for all street and area  
9 lights.

10 Q. Is the Company proposing any other changes to its tariffs for electric  
11 service in this case?

12 A. No, it is not.

13  
14 **DOCKET NO. UG-99- / NATURAL GAS SERVICE**

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

16 A. My testimony in this proceeding will cover the spread of the proposed  
17 annual revenue increase of \$4,899,000, or 6.5%, among the Company's gas general service  
18 schedules in the state of Washington and the design of the proposed rates within each of  
19 the schedules. I am also responsible for the revenue normalization adjustment, which  
20 includes the weather normalization and unbilled revenue adjustments, as well as the  
21 purchase gas cost adjustment.

22 Q. Are you sponsoring any exhibits to be introduced in this proceeding?

23 A. Yes. I am sponsoring Exhibit Nos. 62, 63, and 64, which were prepared  
24

1 under my supervision and direction.

2 Q. Would you please explain what is contained in Exhibit No. 62 entitled "Gas  
3 Rates on File and Presently in Effect"?

4 A. Exhibit No. 62 is a copy of the Company's present rates governing gas  
5 service in the state of Washington, which are on file with this Commission as a part of the  
6 Company's tariff, WN U-29.

7 Q. Turning now to Exhibit No. 63, would you please state what is covered in  
8 that Exhibit?

9 A. Exhibit No. 63, entitled "Proposed Gas Rates as Filed", contains the  
10 proposed gas rates and schedules which are being filed with the Commission as a part of  
11 our revised tariff, WN U-29.

12 Q. Would you please describe what is contained in Exhibit No. 64?

13 A. Exhibit No. 64 contains supplemental information regarding the spread of  
14 the proposed revenue increase to the Company's gas service schedules and the proposed  
15 rates within the schedules, which will be referred to throughout my testimony.

16  
17 **Revenue Normalization Adjustment**

18  
19 Q. Would you please describe the "revenue normalization adjustment" which  
20 you have referred to?

21 A. The revenue normalization adjustment represents the difference between  
22 the company's actual revenues during the test period and revenues on a forward-looking  
23 basis based on normalizing/pro forma adjustments. The adjustment includes the repricing  
24 of pro forma sales and transportation volumes at present rates using pro forma sales

1 volumes which have been adjusted for unbilled revenue, abnormal weather, and any  
2 material customer load or schedule changes. The adjustment also includes the  
3 normalization of purchase gas costs based on pro forma retail sales volumes. The total  
4 amount of the adjustment is \$1,516,000 on a net operating income basis, as shown on  
5 Page 8 of Exhibit No. 30.

6 The adjustment includes the elimination of "Buy-Sell" (capacity release) revenues  
7 billed to certain transportation customers and the repricing of the adjusted (pro forma)  
8 customer loads at the present rates in effect. "Buy-Sell" revenues result from releases of  
9 pipeline capacity which the Company holds title to. These releases were made to  
10 numerous Company transportation customers at 100% of Northwest Pipeline rates, prior  
11 to FERC Order 636. Because the Company bills these customers for the use of this  
12 pipeline capacity, these billings are recorded as revenue by the Company. This revenue is  
13 deferred and credited to sales customers in the Company's PGA filings, thereby reducing  
14 pipeline transportation costs. As these revenues are deferred and passed to customers, it is  
15 appropriate to eliminate them as part of the adjustment.

16 The rates used to price pro forma sales volumes include Schedule 150 – Purchase  
17 Gas Cost Adjustment, as this tariff represents a "permanent" change in rates. The rates  
18 used exclude temporary Gas Rate Adjustment Schedule 155, which reflects the approved  
19 amortization of deferred gas costs approved in the Company's last PGA filing.

20 Q. Would you please briefly describe the unbilled revenue adjustment?

21 A. As billed usage for the test period does not represent actual usage by  
22 customers during the calendar test period, the unbilled revenue adjustment is necessary to  
23 estimate actual consumption during the calendar year. The estimated amount of unbilled  
24



1 revenue is based on a detailed examination of billed consumption and meter reading days  
2 during the beginning and end of the test year. The adjustment for unbilled revenue results  
3 from subtracting this detailed estimate of unbilled revenue from the net amount of  
4 unbilled revenue actually recorded during the year.

5 Q. Why is the amount of the pro forma unbilled revenue adjustment different  
6 from the amount shown in the Company's actual operating results?

7 A. The pro forma adjustment is a more detailed estimate of unbilled revenue  
8 as compared to the estimate recorded in the Company's actual operating results.  
9 Additionally, the pro forma adjustment utilizes the present rates in effect to determine the  
10 amount of the revenue adjustment.

11 Q. Could you please describe the weather normalization portion of the revenue  
12 normalization adjustment?

13 A. The determination of the amount of gas usage associated with abnormal  
14 weather during the test period is described in Company Witness Knox's testimony. I am  
15 responsible for determining the amount of revenue associated with the adjustment using  
16 present rates in effect. The weather normalization portion of the revenue normalization  
17 adjustment increases revenue by \$7,101,000, reflecting the fact that 1998 was significantly  
18 warmer than normal.

19 Q. Would you please explain the purchase gas cost adjustment made by the  
20 company in this filing?

21 A. Pro forma purchase gas costs were determined by multiplying pro forma  
22 customer usage for the test period by the purchase gas cost(s) per therm, which were  
23 approved by the Commission in the Company's last PGA filing, effective February 15,  
24

1 1998. The purchase gas cost adjustment is then determined by subtracting actual gas costs  
2 during the test year from pro forma gas costs. By making this adjustment, there is a  
3 matching of the approved level of gas costs with pro forma usage for the test period. Any  
4 differences in gas costs are reflected in the Company's annual PGA filing.

5 Q. Is the Company proposing any changes to its present (Commission  
6 approved) allocation of purchase gas costs by service schedule in this Case?

7 A. No, it is not.

8 **Rate Spread**

9  
10 Q. Would you please review the Company's present rate schedules and the  
11 types of gas service offered under each?

12 A. Yes. The Company's present Schedules 101, 111, and 121 offer firm sales  
13 service. Schedule 101 generally applies to residential and small commercial customers  
14 who use less than 200 therms/month. Schedule 111 is generally for customers who  
15 consistently use over 200 therms/month and Schedule 121 is generally for customers who  
16 use over 10,000 therms/month and have a high annual load factor. Schedule 131 provides  
17 interruptible sales service to customers whose annual requirements exceed 250,000  
18 therms.

19 Schedule 146 provides transportation/distribution service for customer-owned gas  
20 for customers whose annual requirements exceed 250,000 therms. Schedule 148 is a  
21 transportation service schedule for large-requirements customers with competitive options  
22 to taking transportation/distribution service from the Company, i.e., pipeline direct-  
23 connection. It is a banded-rate schedule with the rates for service being negotiated  
24 between the Company and the customer within the rate-band. The Company has only four

1 customer accounts served under Schedule 148: Kaiser Aluminum-Mead, Kaiser  
2 Aluminum-Trentwood, Lamb-Weston, and Mutual Materials. I will discuss these service  
3 agreements in more detail later in my testimony.

4 Q. The Company also has rate schedules 112, 122, and 132 on file with the  
5 Commission. Could you please explain what customers are eligible for service under  
6 these schedules?

7 A. Schedules 112, 122, and 132 are in place to provide service to customers  
8 who at one time were provided service under Transportation Service Schedule 146. The  
9 rates under these schedules are the same as those under Schedules 111, 121, and 131  
10 respectively, except for the application of temporary Gas Rate Adjustment Schedule 155.  
11 Schedule 155 is a temporary rate adjustment to amortize the deferred gas costs approved  
12 by the Commission in the prior PGA. As part of the PGA, transportation service  
13 customers are analyzed individually to determine their appropriate share of deferred gas  
14 costs. If those customers switch back to sales service, the Company continues to analyze  
15 those customers individually, otherwise, those customers would receive amounts of gas  
16 costs deferrals which are not due them, thus the need for Schedules 112, 122, and 132.  
17 There are presently only five customers in total served under these Schedules.

18 Q. How many customers does the Company serve under each of its rate  
19 schedules?

20 A. As of August 1999, the Company provided service to the following number  
21 of customers under each of its schedules:

<u>Schedule</u>	<u>Type of Customer</u>	<u>No. of Customers</u>
General Service 101	Residential & Sm. Commercial	115,600
Lg. General Service 111	Comm. & Ind. over 200 therms/mo.	2,465
Ex. Lg. Gen. Service 121	Comm. & Ind. over 10,000 therms/mo.	41
Interruptible Service 131	Interruptible over 250,000 therms/yr.	1
Transportation Service 146	Transportation of Customer-owned Gas	34
High-Volume Transport 148	Negotiated Rate for Transportation	4

Q. How does the Company propose to spread the overall revenue increase of \$4,899,000 among its general service schedules?

A. The Company is proposing the following revenue/rate changes by rate schedule:

General Service Schedule 101	7.5%
Large General Service Schedule 111/112	4.4%
Extra Large General Service Schedule 121/122	4.6%
Interruptible Sales Service Schedule 131/132	0.0%
Transportation Service Schedule 146	8.6%
Banded Rate Transportation Schedule 148	0.0%

This information is also shown on Page 1 of Exhibit No. 64.

Q. What rationale did the Company use in its proposed spread of the overall revenue increase to the various rate schedules?

A. The Company utilized the results of the cost of service study, as sponsored by Company witness Knox, as a guide in developing the proposed rate spread. A primary goal of the proposed rate spread is to move the rates of return of the individual schedules closer to the Company's overall rate of return (unity) so that all customers contribute fairly

1 to the cost of service and contribute a reasonable return on operating plant. The proposed  
2 spread of the increase results in a movement of the rate of return for each of all of the  
3 service schedules toward unity.

4 Page 2 of Exhibit No. 64 shows the rates of return for each of the Company's gas  
5 schedules before and after application of the proposed increases. Column (d) shows the  
6 relative rates of return under present rates and column (f) shows the relative rates of return  
7 under proposed rates. The relative rate of return is determined by dividing the rate of  
8 return for each schedule by the overall rate of return for the company's Washington gas  
9 operations.

10 The relative rates of return before and after application of the proposed increases  
11 by schedule are as follows:

	<u>Before</u>	<u>After</u>
13 Schedule 101:	0.95	0.98
14 Schedule 111:	1.15	1.08
15 Schedule 121:	0.77	0.89
16 Schedule 131:	1.57	1.18
17 Schedule 146:	1.19	1.08
18 Schedule 148:	1.15	0.86

19 As shown, the relative rates of return for all schedules move closer to unity (1.00),  
20 with the exception of Transportation Schedule 148, which I will discuss later in my  
21 testimony.

22 Q. What would be the increase in the typical residential customer's bill based  
23 on the Company's proposed increase for Schedule 101?

24 A. The increase for a typical residential customer using 80 therms of gas per

1 month would be \$2.74 per month, or an increase from \$36.04 per month to \$38.78 per  
2 month.

3 Q. How do the Company's proposed rates for Schedule 101 compare to the  
4 residential rates for other utilities who provide gas service in the state of Washington?

5 A. Page 3 of Exhibit No. 64 shows the monthly bill for a residential gas  
6 customer using 80 therms under the present rates for each of the gas utilities serving in the  
7 state, as well as the proposed rates in this case. Also shown is the average margin (rate  
8 less gas costs) per residential therm for each of the utilities. As shown, even under the  
9 proposed rates for Schedule 101, the average monthly bill, as well as the resulting margin,  
10 for an Avista residential customer would still be considerably lower than that for the other  
11 gas utilities providing service in the state.

12 Q. Why isn't the Company proposing any overall revenue increase to  
13 Interruptible Service Schedule 131 or (Banded-Rate) Transportation Schedule 148?

14 A. Presently there is only one customer being served under Interruptible  
15 Service Schedule 131. As previously shown, the present rate of return being provided by  
16 this customer is 57% higher than unity. Even after application of the overall proposed  
17 increase, with no increase applied to Schedule 131, the rate of return for the Schedule  
18 would still be 18% above unity. Further, the present rate for service under Interruptible  
19 Service Schedule 131 is higher than the present tail-block rate under firm sales service  
20 Schedule 121. Obviously, it makes no sense for a customer to pay a higher rate for a  
21 lower level of service. Under the proposed rates, the rate for service under Schedule 131  
22 is slightly lower than the tail-block rate under Schedule 121, thereby better aligning the  
23 rates with the level of service provided. With regard to Schedule 148, the rates for the  
24

1 four customer accounts served under the Schedule are fixed during the terms of those  
2 Agreements and the Company does not have the ability to alter those rates except for any  
3 adjustments as provided for under the Agreements. The rates charged to these customers  
4 were negotiated in good faith based on the estimated cost for the customer to bypass the  
5 Company's distribution system and direct-connect to the nearest pipeline transporter. The  
6 Agreements for the two Kaiser Aluminum Plants served under Schedule 148 were  
7 approved by the Commission in its Third Supplemental Order in Docket UG-901459,  
8 issued March 9, 1992. Those Agreements are for a term of nine years, expiring in 2001, at  
9 a distribution rate of 2.8¢/therm. The Agreement with Lamb-Weston, which is a food-  
10 processor located near Connell, Washington, had a primary term of five years, September  
11 1993 through August 1998, at a distribution rate of 3.35¢/therm. The Agreement is  
12 presently on a year-to-year basis at a distribution rate of 3.50¢. The Agreement with  
13 Mutual Materials, which is a masonry manufacturer located in the Spokane Valley, is a  
14 seven-year agreement which was negotiated in 1998, and provides for distribution rates of  
15 3.168¢/therm for the first 2.5 million therms/year and 2.1¢/therm for all volumes used  
16 over 2.5 million. These Agreements, as well as related supporting documents, are  
17 provided as part of my workpapers submitted with this filing.

18 Schedule 148 customers provide revenues which not only recover their direct costs  
19 of providing service, but they make a substantial contribution to the fixed costs of  
20 providing service to all gas customers; for example, annual A&G expenses allocated to  
21 Schedule 148 in the company's cost of service study are \$613,000.

22 Q. If all four Schedule 148 accounts were lost to the Company via their direct-  
23 connection to a pipeline transporter, what would be the lost revenue/margin to the  
24

1 Company?

2 A. If all four accounts were lost to direct-connect, the lost revenue/margin  
3 would be approximately \$1.3 million per year, most of which are fixed costs which would  
4 need to be recovered from other customers.

5  
6 **Rate Design**

7  
8 Q. Could you please explain what is shown on Page 4 of Exhibit No. 64?

9 A. Yes. Page 4 shows a comparison of the present and proposed rates within  
10 each of the Company's gas service schedules. The rates contained in Purchase Gas Cost  
11 Adjustment Schedule 150 have been incorporated into the present and proposed rates  
12 shown on Page 4. Further, a revised Schedule 150 is filed as part of Exhibit No. 63,  
13 whereby the present rates under the Schedule have been zeroed-out and included in the  
14 Company's proposed general service tariffs.

15 Q. Could you please explain the present rate design of the Company's gas  
16 service schedules?

17 A. General Service Schedule 101 generally applies to residential and small  
18 commercial customers who use less than 200 therms/month. The schedule contains a  
19 single rate per therm for all gas usage and a monthly customer/basic charge.

20 Large General Service Schedule 111 has a three-tier declining-block rate structure  
21 and is generally for customers who consistently use over 200 therms/month. The schedule  
22 consists of a monthly minimum charge for the first 200 therms or less, and block rates for  
23 201-1,000 therms/month and usage over 1,000 therms/month.

24 Extra Large General Service Schedule 121 has a four-tier declining-block rate



1 structure with a monthly minimum charge for the first 500 therms or less, and block rates  
2 for 501-1000 therms/month, 1,001-10,000 therms/month, and usage over 10,000  
3 therms/month. There is also an annual minimum of 60,000 therms under the schedule and  
4 a minimum load factor requirement of approximately 58%.

5 Interruptible Sales Service Schedule 131 has a single rate for all usage and an  
6 annual minimum charge based on a usage requirement of 250,000 therms per year.

7 Transportation Service Schedule 146 consists of a two-block rate structure for all  
8 volumes with a monthly customer charge of \$164.88 and an annual minimum charge  
9 based on 250,000 therms per year.

10 Transportation Service Schedule 148 is a banded rate schedule with a monthly  
11 customer charge of \$200 per month and individually negotiated rates for customers with  
12 competitive options which must fall within the rate band.

13 Q. Is the Company proposing any changes to the present rate structures  
14 contained in its gas service schedules?

15 A. Yes, but only one. The Company is proposing a four-tier declining-block  
16 rate schedule for Transportation Service Schedule 146, in place of the present two-block  
17 rate structure. I will discuss this proposed change in more detail later in my testimony.

18 Q. You stated earlier in your testimony that the Company is proposing an  
19 overall increase of 7.5% to the rates of General Service Schedule 101. Is the Company  
20 proposing an increase to the present basic/customer charge of \$4.00/month under the  
21 schedule?

22 A. Yes, it is. The Company is proposing that the basic charge be increased  
23 from \$4.00 to \$5.00 per month. Approximately half of the cost of providing gas service to  
24

1 sales customers represents costs other than the cost of the gas itself, many of which are  
2 fixed costs which do not vary with customer usage. Page 5 of Exhibit No. 64 shows the  
3 monthly cost associated only with meters, meter reading, billing, and service lines, as  
4 extracted from the Company's cost of service study. The service line provides a  
5 connection from the distribution main, which typically runs along side the street in front of  
6 a customer's residence, to the customer's meter. As shown, these costs average \$10.17  
7 per customer per month; therefore, the proposed basic charge of \$5.00 would only recover  
8 about half of these basic fixed costs required to provide service. The Company believes  
9 that the basic charge should, at a minimum, recover these costs. However, given the level  
10 of the overall increase proposed in this filing, the Company believes that the proposed  
11 increase is reasonable.

12 Q. Given the proposed increase to the basic charge, what is the resulting  
13 increase to the rate per therm under Schedule 101, in order to achieve an overall revenue  
14 increase of 7.5%?

15 A. The proposed increase to the energy rate under the schedule is 2.167 cents  
16 per therm, or a 5.4% increase in the rate.

17 Q. Could you please explain the proposed changes in the rates for Large and  
18 Extra Large General Service Schedules 111 and 121?

19 A. The present rates for Schedules 101, 111, and 121 provide a clear and  
20 logical distinction for customer placement: customers who use less than 200  
21 therms/month should be placed on Schedule 101, customers who use between 200 and  
22 10,000 therms per month should be placed on Schedule 111, and only those customers  
23 who use over 10,000 therms per month should be placed on Schedule 121. Not only do  
24

1 the rates provide a guide for customer schedule placement, they provide a reasonable  
2 classification of customers for analyzing the costs of providing service.

3 The Company's proposed rates for Schedules 111 and 121 will maintain the rate  
4 structure within the schedules and continue to ensure appropriate schedule placement for  
5 customers and provide a reasonable classification for cost analysis. The proposed  
6 minimum charge for Schedule 111 for 200 therms or less was derived by multiplying the  
7 proposed Schedule 101 rate per therm by 200 and adding the proposed customer charge of  
8 \$5.00. The remaining proposed revenue increase for Schedule 111 was then spread on an  
9 equal cents per therm basis (1.32 cents) to the remaining two rate blocks under the  
10 Schedule.

11 For Schedule 121, the minimum charge for 500 therms or less was derived by  
12 multiplying the proposed Schedule 101 rate per therm by 500 and adding the proposed  
13 customer charge of \$5.00. The second and third block rates were then set equal to the  
14 corresponding block rates under Schedule 111. The remaining revenue increase for the  
15 Schedule was then used to determine the increase to the tail-block rate under the Schedule  
16 (1.506 cents).

17 Q. You mentioned previously that the Company is proposing a change in the  
18 rate structure for Transportation Service Schedule 146. Could you please explain the  
19 proposed change.

20 A. As shown on Page 4 of Exhibit No. 64, the Company is proposing a four-  
21 tier declining-block rate as compared to the present two-block structure. In addition, the  
22 Company is proposing that the monthly customer charge be increased from the present  
23 level of \$164.88 to \$200.00, which matches the present customer charge under Banded-

24

1 Rate Transportation Schedule 148. The proposed rates and structure under Schedule 146  
2 will more reasonably reflect the margins (rate less embedded gas costs) provided under the  
3 rates for sales service Schedules 111 and 121, thereby reducing the potential margin  
4 effects (gain or loss) of customers shifting between sales and transportation service.

5 The Company presently serves approximately eighteen firm sales customers who  
6 qualify for transportation service (250,000 therms/year). Under present rates, the  
7 Company could potentially lose approximately \$140,000 in annual margin if those  
8 customers were to switch to transportation service. Comparing the margins under the  
9 proposed sales rates to the present transportation rates, if all of those customers switched  
10 to transportation the Company could potentially incur an annual lost margin of  
11 approximately \$247,000. Under the proposed rate structure for Schedule 146, the  
12 potential lost margin is reduced to \$91,000 per year. The proposed transportation rates  
13 provide nearly an equal amount of margin as compared to the proposed rates under  
14 Schedule 121 for a customer using 250,000 therms per year, which is the minimum annual  
15 usage requirement under Transportation Schedule 146.

16 Q. Do all of the other gas utilities operating in Washington have declining-  
17 block rates with several steps under their transportation service schedules?

18 A. Yes, they do.

19 Q. Have you estimated the effect of the proposed rates for Schedule 146 on the  
20 annual bills of your various transportation customers?

21 A. Yes. Page 6 of Exhibit No. 64 shows the estimated effect on each of our 29  
22 transportation customers annual gas bill, based on their 1998 usage. Column (b) shows  
23 the estimated increase (decrease) in their total gas bill on a percentage basis, including an  
24

1 estimated commodity price of 25¢/therm (delivered to Avista's system). As shown in  
2 column (b), the estimated effect ranges from a decrease of 0.8% to an increase of 8.9%.

3 Q. Does the proposed rate structure for Schedule 146 reasonably reflect the  
4 cost of providing service to the various customers served under the Schedule?

5 A. Yes. As previously mentioned, the proposed rates under Schedule 146 are  
6 similar to the proposed rates/margins and rate structure under the Company's sales  
7 schedules. All transportation revenue contributes to the recovery of Company gas  
8 distribution and other operating costs, as the Company does not purchase gas to serve  
9 these customers. Smaller-use customers are more expensive to serve on a per therm basis  
10 as compared to larger-use customers as there is a significant fixed amount of distribution  
11 investment required to serve even a small customer. The investment required to serve a  
12 customer is not linear with the amount of the customer's usage, in fact, the incremental  
13 amount of investment required for each additional therm of use is a declining curve, which  
14 is generally the rationale for declining-block rates.

15 Q. Is the Company proposing any other changes to Transportation Schedule  
16 146?

17 A. Yes. Because of the proposed four-block rate structure, a modification to  
18 the present annual minimum under the Schedule is necessary. Under the proposed  
19 Schedule, customers failing to use the annual minimum requirement of 250,000 therms  
20 will be billed an annual minimum deficiency based on 250,000 therms less their actual  
21 usage multiplied by 6.4 cents/therm, which is the proposed second-block rate.

22 Q. Is the Company proposing any other changes to its tariffs for natural gas  
23 service?  
24

1           A.     Yes. Northwest Pipeline has recently received FERC approval of revised  
2 daily overrun and underrun penalties. Prior to these revisions, Northwest Pipeline did not  
3 have underrun penalties and overrun penalties were a fixed rate per therm based on the  
4 degree/percentage of daily overrun. The level of overrun penalties included in the  
5 Company's present tariffs (Schedules 131, 132, 146, and 148), are based on two times  
6 Northwest Pipeline's previous fixed rate per therm penalties (as proposed by the  
7 Commission Staff and approved by the Commission in Docket No. UG-901459). The  
8 overrun penalties contained in the Company's proposed tariffs (Schedules 131, 132, 146,  
9 and 148) maintain the (two-times) fixed rate per therm penalty imposed by Northwest  
10 Pipeline and add the additional penalty provisions contained in the recently revised  
11 Pipeline tariffs. The revised Pipeline penalty provisions for underruns are included  
12 verbatim in the Company's proposed transportation Schedules 146 and 148.

13           Q.     Does that complete your direct testimony in this proceeding?

14           A.     Yes, it does.

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