Exhibit No. ___ T (DJR-1T) Docket UE-090134/UG-090135 and UG-060518 (consolidated) Witness: Deborah J. Reynolds

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND) DOCKETS UE-090134
TRANSPORTATION COMMISSION,) and UG-090135
) (consolidated)
Complainant,)
)
V.)
)
AVISTA CORPORATION, d/b/a)
AVISTA UTILITIES,)
)
Respondent.)
••••••••••••)
In the Matter of the Petition of)) DOCKET UG-060518
)) DOCKET UG-060518) (consolidated)
AVISTA CORPORATION, d/b/a	,
	,
AVISTA CORPORATION, d/b/a	,
AVISTA CORPORATION, d/b/a	,
AVISTA CORPORATION, d/b/a AVISTA UTILITIES,	,
AVISTA CORPORATION, d/b/a AVISTA UTILITIES, For an Order Authorizing Implementation of a Natural Gas	,
AVISTA CORPORATION, d/b/a AVISTA UTILITIES, For an Order Authorizing Implementation of a Natural Gas Decoupling Mechanism and to Record	,
AVISTA CORPORATION, d/b/a AVISTA UTILITIES, For an Order Authorizing Implementation of a Natural Gas Decoupling Mechanism and to Record Accounting Entries Associated With	,
AVISTA CORPORATION, d/b/a AVISTA UTILITIES, For an Order Authorizing Implementation of a Natural Gas Decoupling Mechanism and to Record	,

TESTIMONY

OF

DEBORAH J. REYNOLDS

STAFF OF WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

August 17, 2009

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LIST OF EXHIBITS

Exhibit No. ____ (DJR-2), Bill Analysis Model

1		I. INTRODUCTION
2		
3	Q.	Please state your name and business address for the record.
4	A.	My name is Deborah Reynolds. My business address is the Richard Hemstad Building,
5		1300 S. Evergreen Park Dr. SW, Olympia, WA 98504-7250. My e-mail address is
6		dreynold@utc.wa.gov.
7		
8	Q.	What are your professional qualifications?
9	А.	I have worked for the Commission since 1999 in the regulatory services division. I am
10		primarily responsible for reviewing, analyzing, and evaluating conservation programs,
11		conservation resource planning, rate design, decoupling, reliability, service quality, low-
12		income issues, and other analyses of general rate case and tariff filings involving electric
13		and natural gas utilities regulated by the Commission. I have offered testimony before the
14		Commission and have presented many open meeting items. I provide external technical
15		assistance for companies on energy regulatory matters.
16		I have a 1994 Bachelor of Science degree in General Studies emphasizing ecology
17		and statistics and a 2002 Master of Regional Planning degree, both from Washington
18		State University. I attended the National Association of Regulatory Utility
19		Commissioners' Annual Regulatory Studies Program in August 2004, the New Mexico
20		State University's rate case basics workshop in May 2008, Electric Utility Consultants,
21		Inc.'s cost of service and rate design workshops in August 2008, International Energy
22		Program Evaluation Conference and training in August 2009, as well as a number of
23		other utility related seminars, conferences, and training opportunities.

Q.

What is the purpose of your testimony?

2	A.	My testimony describes the backdrop against which the Company's request to
3		permanently extend the decoupling mechanism should be considered. It also reviews
4		statements from the Commission's orders concerning decoupling and other relevant rate
5		design issues, briefly describes related filings, responds to Company testimony
6		concerning decoupling and energy efficiency investment, presents alternatives, and
7		recommends an alternative regulatory approach to the Company's proposal.
8		
9	Q.	What do you recommend regarding continuation of the decoupling mechanism?
10	A.	I recommend the mechanism be phased out over the next year by increasing the Schedule
11		101 basic charge to \$8 per month, decreasing the Schedule 101 usage charge to the
12		amount shown in Staff witness Joanna Huang's Exhibit No (JH-4), and decreasing
13		the Schedule 159 margin rate to \$0.19765 per therm effective January 1, 2010. Effective
14		January 1, 2011, I recommend increasing the basic charge to \$10 per month, adjusting the
15		usage charge using the methodology shown in Ms. Huang's Exhibit No (JH-4), and
16		discontinuing the decoupling deferral.
17		In the alternative, if the Commission wishes to continue the decoupling
18		mechanism, the following modifications should be made:
19		• Remove the new customer adjustment
20		• Add the Schedule 101 and Schedule 111 migration adjustment as
21		described by the Company
22		

1	Q.	Do you recommend any changes in Commission oversight of Company conservation
2		programs regardless of whether the decoupling mechanism is continued?
3	A.	Yes. I recommend the Commission direct the Company to convene meetings with Staff
4		and interested parties to design conservation reporting and stakeholder involvement
5		protocols, including expansion of the Company's evaluation standards. The results of
6		these meetings should be filed with the Commission within twelve months of the final
7		order.
8		
9		II. DECOUPLING BACKGROUND
10		
11	Q.	Please describe the history of the Company's decoupling mechanism to date.
	Q. A.	Please describe the history of the Company's decoupling mechanism to date. On February 1, 2007, the Commission entered a Final Order Approving Decoupling Pilot
11	-	
11 12	-	On February 1, 2007, the Commission entered a Final Order Approving Decoupling Pilot
11 12 13	-	On February 1, 2007, the Commission entered a Final Order Approving Decoupling Pilot Program ¹ allowing Avista Corporation (Avista) to implement a mechanism to decouple
11 12 13 14	-	On February 1, 2007, the Commission entered a Final Order Approving Decoupling Pilot Program ¹ allowing Avista Corporation (Avista) to implement a mechanism to decouple its rates for conducting business operations, in part, from its rates for commodity sales.
11 12 13 14 15	-	On February 1, 2007, the Commission entered a Final Order Approving Decoupling Pilot Program ¹ allowing Avista Corporation (Avista) to implement a mechanism to decouple its rates for conducting business operations, in part, from its rates for commodity sales. Company witness Brian Hirschkorn's testimony ² provides a complete description of the
 11 12 13 14 15 16 	-	On February 1, 2007, the Commission entered a Final Order Approving Decoupling Pilot Program ¹ allowing Avista Corporation (Avista) to implement a mechanism to decouple its rates for conducting business operations, in part, from its rates for commodity sales. Company witness Brian Hirschkorn's testimony ² provides a complete description of the mechanism on pages thirteen through nineteen. On March 31, 2009, the Company filed

¹ WUTC v. Avista Utilities, Docket UG-060518, Order 04, ¶¶ 1-49 (February 1, 2007).

 ² WUTC v. Avista Utilities, Docket UG-060518, Petition, Motion, Direct Testimony and Exhibits on behalf of Avista Corporation from Kelly Norwood, RE: Order Continuing a Natural Gas Decoupling Mechanism with Associated Accounting Entries, Hirschkorn Exhibit No. (BJH-1T), Pages 13-19 (May 1, 2009).
 ³ WUTC v. Avista Utilities, Docket UG-060518, Petition, Motion, Direct Testimony and Exhibits on behalf of Avista

³ WUTC v. Avista Utilities, Docket UG-060518, Petition, Motion, Direct Testimony and Exhibits on behalf of Avista Corporation from Kelly Norwood, RE: Order Continuing a Natural Gas Decoupling Mechanism with Associated Accounting Entries (May 1, 2009).

Commission consolidated the decoupling docket with the Company's general rate case.⁴
 On June 30, 2009, the Commission granted a temporary extension of the decoupling
 mechanism.⁵

- 4
- 5

Q. What is a revenue decoupling mechanism?

6 A decoupling mechanism renders revenue levels immune to changes in sales by adjusting A. 7 retail rates either upwards or downwards depending upon how revenues collected through usage charges for the recovery of fixed costs over a certain period compare with those 8 fixed costs authorized under the decoupling mechanism.⁶ These differences between 9 10 collected and authorized revenues may be the result of changes in weather, increases in customer numbers, or changes in energy efficiency behavior by either the company or the 11 12 customers. Limited decoupling mechanisms isolate and remove individual causes of the 13 differences, such as weather. Partial decoupling mechanisms allow the recovery of only 14 part of the difference. Avista's decoupling mechanism is both limited, because the effects 15 of weather are excluded from the tracking mechanism, and partial because up to ninety 16 percent of the difference from the targeted revenue is allowed for recovery. 17

18 Q. What is the intended effect of a revenue decoupling mechanism?

- 19 A. It is intended to encourage the company to increase its investment in conservation.
- 20

⁵ WUTC v. Avista Utilities, Dockets UE-090134, UG-090135, and UG-060518, Order 07, ¶¶ 1-36 (June 30, 2009).
 ⁶ Cappers, Peter, et al. Financial Analysis of Incentive Mechanisms to Promote Energy Efficiency: Case Study of a Prototypical Southwest Utility. Ernest Orlando Lawrence Berkeley National Laboratory. March, 2009. LBNL-1598E. Page 7.

⁴ WUTC v. Avista Utilities, Dockets UE-090134, UG-090135, and UG-060518, Order 06, ¶¶ 1-18 (May 15, 2009).

2

Q. Has the Commission considered decoupling and other rate design modifications to encourage conservation in other cases?

3 A. The Commission has considered rate design modifications to encourage conservation for 4 both electric and natural gas utilities. In Docket UE-060266, the Commission adopted an electric conservation incentive program for PSE.⁷ In Docket UE-050684, the Commission 5 provided guidance regarding the necessary elements of a proposal to decouple rates from 6 usage charges.⁸ Docket UG-050369 was a rulemaking where the Commission considered 7 8 policies to remove the recovery of fixed costs from customers' usage charges. The 9 Commission closed the rulemaking without adopting new rules, concluding instead: The Commission believes that the wide variety of alternative approaches to 10 decoupling make it more efficient to address these issues in the context of specific 11 12 utility proposals included in general rate case filings rather than through a generic rulemaking.9 13 Since the close of that rulemaking, the Commission has ruled on natural gas decoupling 14 proposals in two additional proceedings. In Docket UG-060267, the Commission rejected 15 PSE's request for a natural gas decoupling mechanism because its conservation program 16

17 was already well-developed.¹⁰ In Docket UG-060256, the Commission adopted, with

18 modification, Cascade's decoupling pilot program.¹¹

⁷ WUTC v. Puget Sound Energy, Inc., Dockets UE-060266 and UG-060267, Order 08 at ¶¶145-158 (January 5, 2007).

⁸ WUTC v. PacifiCorp, Docket UE-050684, Order 05 at ¶ 103-110 (June 28, 2006).

⁹*Rulemaking to Review Natural Gas Decoupling*, Docket UG-050369, Notice of Withdrawal of Rulemaking (October 17, 2005).

¹⁰*WUTC v. Puget Sound Energy, Inc.*, Dockets UE-060266 and UG-060267, Order 08, ¶¶ 59-63 (January 5, 2007). ¹¹*WUTC v. Cascade Natural Gas Corporation*, Docket UG-060256, Order 06, ¶¶ 67-85 (January 12, 2007).

2

III. REVIEW OF DECOUPLING EVALUATION

-		
3	Q.	What was the purpose of the Decoupling Evaluation as performed by an
4		independent evaluator?
5	A.	The Commission's order discussed a number of specific points and general questions
6		concerning decoupling. ¹² The key question to be answered in the Evaluation was whether
7		conservation increased as a result of implementing decoupling. ¹³ The Evaluation needed
8		to answer this key question through a discussion of the potential advantages and
9		disadvantages of the program. ¹⁴ The Evaluation needed to show whether Company
10		investment in conservation increased. The discussion needed to identify risks and any
11		changes in risk to the customer or the Company, ¹⁵ whether price signals are appropriate ¹⁶
12		under the mechanism, and whether there was evidence of changes in customer
13		conservation behavior ¹⁷ due to the mechanism. The Commission was also interested in
14		whether the Company over-earned, ¹⁸ whether the right customers were included, ¹⁹ and
15		whether the recovery under the mechanism was appropriately proportional to the margin
16		lost to company-sponsored DSM. ²⁰
17		

¹² WUTC v. Avista Utilities, Docket UG-060518, Order 04, ¶¶ 17-29 (February 1, 2007).

¹³ WUTC v. Avista Utilities, Docket UG-060518, Order 04, ¶ 21 (February 1, 2007).

¹⁴ WUTC v. Avista Utilities, Docket UG-060518, Order 04, ¶ 20 (February 1, 2007).

¹⁵ WUTC v. Avista Utilities, Docket UG-060518, Order 04, ¶ 17 (February 1, 2007).

¹⁶ WUTC v. Avista Utilities, Docket UG-060518, Order 04, ¶ 18 (February 1, 2007).

¹⁷ WUTC v. Avista Utilities, Docket UG-060518, Order 04, ¶¶ 18 (February 1, 2007).

¹⁸ WUTC v. Avista Utilities, Docket UG-060518, Order 04, ¶¶ 19 (February 1, 2007).

¹⁹ WUTC v. Avista Utilities, Docket UG-060518, Order 04, ¶¶ 29 (February 1, 2007).

²⁰ WUTC v. Avista Utilities, Docket UG-060518, Order 04, ¶ 26 (February 1, 2007).

Q. Was the Decoupling Evaluation complete?

2 A. No. As the final report was being reviewed, Staff strongly urged the Company to allow 3 the consultant to draw conclusions and make recommendations about the design of the mechanism as described in the second paragraph of the Evaluation Plan.²¹ Other parties 4 5 on the Stakeholder Advisory Group resisted this recommendation. Staff believes the key question to be answered was whether conservation increased as a result of implementing 6 7 decoupling. In answering that question, the consultant should have discussed the potential 8 advantages and disadvantages of the program, including risk factors and any changes in 9 risk to the customer or the Company, as well as whether price signals were appropriate 10 under the mechanism, and whether there was evidence of changes in customer behavior 11 due to the mechanism. These areas are both directly and indirectly related to the 12 mechanism, and the Commission would have benefited from a more thorough analysis by 13 the consultant.

14

15Q.Did Staff analyze the mechanism independently, based on the questions and16concerns identified by the Commission in its order granting the pilot mechanism?

A. Yes. The following sections discuss the areas of Commission interest, describe the
Company's response, if any, and present Staff's conclusions.

- 19
- 20 A. Did the Decoupling Mechanism Increase Conservation?
- 21

22 Q. What effect did Avista's decoupling mechanism have on its conservation program?

²¹ WUTC v. Avista Utilities, Docket UG-060518, Evaluation Plan, ¶¶ 2 (filed April 30, 2008).

A. Avista had a fairly well developed conservation program before the decoupling
 mechanism was put in place. The conservation program spending and therm savings both
 increased during the term of the decoupling mechanism. However, during the last four
 years, therm savings have fluctuated wildly, decreasing almost as much as they increased.





Avista Therm Savings

6

7 Q. Do these fluctuations in therm savings suggest any areas of concern?

A. Yes. The Company does not have a very robust evaluation program. They do not hire
third party consultants to perform conservation potential assessments, nor do they
perform surveys to assess the performance of their programs. Staff recommends that the
Company should be directed to convene meetings with Staff and interested parties to
design conservation reporting and stakeholder involvement protocols, including
expansion of the Company's evaluation standards. The results of these meetings should
be filed with the Commission within twelve months of the final order.

1	Q.	Could significant investment in conservation have an eventual effect?
2	A.	Yes. There will always be a probability that significant investment in conservation would
3		reduce company revenues because a portion of fixed costs are recovered in the usage
4		charge. However, this would happen over time. Frequent rate cases, with rates reset
5		based on most recent load levels, have been the company's response to this problem.
6		Increasing the amount of revenue recovered through the basic charge as recommended in
7		my testimony will help address this problem.
8		
9	Q:	What prior actions of the Commission bear on the cost effectiveness and prudence
10		of Avista's Energy Efficiency Program?
11	A:	In the Staff memo to the Commission on January 29, 2009, Staff recommended that the
12		Company should include a discussion of "the cost effectiveness of the resource. ²² " The
13		resource in this quote is for demand side resources or DSM.
14		
15	Q:	Did the Company present this discussion in the current rate case?
16	A:	Yes. The DSM program is linked to the decoupling mechanism, as the program is
17		designed to encourage conservation while avoiding a financial penalty to the Company.
18		
19	Q:	Has Avista demonstrated that the decoupling mechanism has enhanced their
20		conservation efforts in a cost-effective manner?
21	A:	The answer to this question is not clear. The Company has demonstrated that their
22		conservation efforts have been enhanced. This is most notably seen in the descriptions of

²² Dockets UE-082272 and UG-090052, Staff Open meeting memo, January 29, 2009.

1	their efforts in the "Every Little Bit" campaign as well as their increased budget and
2	customer paid incentives. This is described in the testimony of Company witnesses
3	Powell, ²³ Hirschkorn, ²⁴ and Folsom. ²⁵
4	In addition, this has been done in a cost effective manner, as demonstrated by the
5	fact that they have exceeded their DSM goals in their IRP for 2007 and 2008, achieving
6	137% of the DSM goals for these years, while maintaining program-wide benefit-to-cost
7	ratios exceeding 1.0 for gas and electric, for both the Utility Cost Test and the Total
8	Resource Cost test. This is described in the testimony of Company witnesses Powell,
9	Hirschkorn, and Folsom as well as in the Company's response to Staff data request
10	number 151. ²⁶
11	However, it is unclear to what extent the price signal under the decoupling
12	mechanism, which results in very small changes to a customer's monthly bill, actually
13	affected customers' implementation of conservation measures. Other factors such as
14	programmatic DSM programs, education and social norms may in fact be more
15	motivational for behavior change for conservation than the small difference in price
16	experienced by the average consumer. Ultimately, the Company recognizes that it would
17	be a simpler and appropriate financial method to bill customers directly for actual fixed

 ²³ WUTC v. Avista Utilities, Docket UG-060518, Petition, Motion, Direct Testimony and Exhibits on behalf of Avista Corporation from Kelly Norwood, RE: Order Continuing a Natural Gas Decoupling Mechanism with Associated Accounting Entries, Powell Exhibit No. __(JP-1T), Pp. 2 (May 1, 2009).
 ²⁴ WUTC v. Avista Utilities, Docket UG-060518, Petition, Motion, Direct Testimony and Exhibits on behalf of

²⁴ WUTC v. Avista Utilities, Docket UG-060518, Petition, Motion, Direct Testimony and Exhibits on behalf of Avista Corporation from Kelly Norwood, RE: Order Continuing a Natural Gas Decoupling Mechanism with Associated Accounting Entries, Hirschkorn Exhibit No. __(BJH-1T), Pp. 9 (May 1, 2009).

 ²⁵ WUTC v. Avista Utilities, Dockets UE-090134, UG-090135, and UG-060518, Testimony and Exhibits on behalf of Avista Corporation from Kelly Norwood, Folsom Exhibit No. __(BWF-1T), Pp. 3 (January 23, 2009).
 ²⁶ Company response to Staff data request 151, Attachment A, page 17, Table 9E (WA).

1		and variable costs. ²⁷ This would certainly reduce some administrative costs to the
2		Company that flow through to customers. The Company stated that their customers are
3		"reducing their natural gas usage in ways other than through direct participation in the
4		Company's DSM programs. ²⁸ " This may be a fruitful topic of additional inquiry as the
5		decoupling and DSM programs move forward.
6		
7	Q:	Did Avista acquire the electric and gas conservation resources prudently?
8	A:	Yes. These conservation resources were acquired prudently due to the fact that the IRP
9		goals were exceeded within benefit-to-cost ratios that were significantly below the
10		avoided cost and exceeded a 1.0 test threshold for all the Avista programs in Washington.
11		
12	В.	Are Price Signals Correct?
13		
14	Q.	What factors should be considered in reviewing price signals under the mechanism?
15	A.	A review of price signals should consider low, high, and average use customer
16		experience under the current tariff and consider what happens to typical customer bills
17		under multiple conservation scenarios. It should also compare price signals under other
18		rate designs. The review should also compare the message the customer gets from the
19		price signal to the impact of that price signal on the Company. The Company does not
20		provide this kind of analysis. The Evaluation report on pages 42 and 43 provides only

 ²⁷ WUTC v. Avista Utilities, Docket UG-060518, Petition, Motion, Direct Testimony and Exhibits on behalf of Avista Corporation from Kelly Norwood, RE: Order Continuing a Natural Gas Decoupling Mechanism with Associated Accounting Entries, Hirschkorn Exhibit No. ____ (BJH-1T), Page 5 (May 1, 2009).
 ²⁸ WUTC v. Avista Utilities, Docket UG-060518, Petition, Motion, Direct Testimony and Exhibits on behalf of Avista Corporation from Kelly Norwood, RE: Order Continuing a Natural Gas Decoupling Mechanism with Associated Accounting Entries, Hirschkorn Exhibit No. ____ (BJH-1T), Page 11 (May 1, 2009).

low, high, and average use customer bill impacts under the current decoupling 2 mechanism.

3	Proponents of decoupling mechanisms suggest that maintaining higher usage
4	charges are a stronger incentive for customers to conserve, even though that very
5	situation has the opposite effect on the Company's incentive to invest in conservation
6	measures. It is very difficult, however, to generalize about incentives to conserve, even
7	among the same class of customers. In the Company's Schedule 101, for example,
8	customer use varies from a low of about 18 therms per month for water-heat-only
9	customers, to a high of 155 therms in the winter months for customers using gas for
10	space-and-water-heat.

11

1

12

Q. Did Staff perform the needed analysis?

13 Yes. See my Exhibit No. (DJR-2), a Bill Analysis Model. The Bill Analysis Model A. 14 shows what would happen to customer bills when customers conserve under three rate 15 designs: the current tariff rate design which includes the current decoupling surcharge, a straight fixed variable rate design, and the Staff proposed rate design. The Bill Analysis 16 17 Model also shows a worst case decoupling analysis, using a ten percent reduction in all 18 Schedule 101 usage to demonstrate what might happen if company investment in 19 conservation became truly effective. Staff believes a ten percent conservation reduction is 20 a reasonable analysis because it is less than the decline in use per customer that has 21 occurred over the last ten years. The model then goes even further and looks at a fifty percent reduction in all Schedule 101 usage. This amount of conservation is unheard of, 22 23 and extremely unlikely. This is intended to evaluate the long term sustainability of a

- particular rate design. It does not take into account annual rate cases that would true up
 the basic and usage charges rather than increase the decoupling surcharge.
 4 Q. How would an average use customer's bill change if he reduced use by ten percent?
 5 By fifty percent? A. If an average use customer using 70 therms per month reduced his use by ten percent, the
- 7 bill would decrease by nine percent under either the current tariff rate design or the Staff 8 proposed rate design. Under the straight fixed variable rate design, the same average use 9 customer's bill would decrease by seven percent. If it were possible for an individual 10 average use customer to reduce his use by fifty percent, the bill would decrease by forty-11 six percent under the current tariff rate design. The bill would decrease by thirty-six 12 percent under either the worst case decoupling mechanism or the straight fixed variable 13 rate design. Under the Staff proposed rate design, the bill would decrease by forty-four 14 percent.



Comparison of Decline in Average Use Customer Bill



3		There are two points to take away from this analysis. First, the three different rate
4		designs all reward the average use customer when the customer conserves natural gas.
5		Second, the bill impact on an average use customer is almost exactly the same under
6		either the worst case decoupling analysis or the straight fixed-variable rate design. This
7		means that if the Company investment in conservation becomes truly successful, the
8		customer will experience the same bill impacts under either rate design.
9		
10	Q.	How would a low-use customer's bill change if she reduced her use by ten percent?
11		By fifty percent?
12	A.	If a low-use customer using 18 therms per month reduced her use by ten percent, her bill
13		would decrease by seven percent under the current tariff rate design including the
14		decoupling surcharge. Her bill would decrease by six percent under the Staff proposed

rate design. Under the straight fixed- variable rate design, the same low-use customer's
bill would decrease by four percent. If it were possible for an individual low-use
customer to reduce her use by fifty percent, her bill would decrease thirty-eight percent
under the current tariff rate design, twenty percent under the straight fixed-variable rate
design, and thirty-two percent under the Staff proposed rate design.

6

Comparison of Decline in Low-use Customer Bill





8 The important point here is that all three rate designs do reward the low-use 9 customer for conserving. The low-use customer, while probably a fairly small proportion 10 of the company's customer base, does present some unique problems. While the three 11 rate designs do not change the annual bill for an average customer, this is obviously not 12 the case for the low-use customer. The straight fixed-variable rate design would increase 13 a low-use customer's bill by 51 percent. The Staff proposed rate design would increase a 14 low-use customer's bill by fourteen percent. Staff believes it is appropriate to gradually

1		increase low-use customer bills until they more closely recover the costs of maintaining
2		their connections to the system.
3		
4	Q.	What kind of analysis might go into a decision to install a new natural gas hot water
5		heater?
6	A.	When the water-heat-only customer made her decision about converting to natural gas
7		water heating, she made her decision based on the capital cost of the improvement and
8		the return of her investment over time. She may have also considered converting space
9		heating, but her home may have needed duct work that would be very expensive, so she
10		elected to only install the gas hot water heater.
11		
12	Q.	What is impact on the Company of the current tariff's price signal to the low-use
12 13	Q.	What is impact on the Company of the current tariff's price signal to the low-use customer?
	Q. A.	
13	-	customer?
13 14	-	customer? According to the Company's current rate presentation, the current average annual fixed
13 14 15	-	customer? According to the Company's current rate presentation, the current average annual fixed cost for each Schedule 101 customer is about \$270. ²⁹ The current annual amount paid by
13 14 15 16	-	customer? According to the Company's current rate presentation, the current average annual fixed cost for each Schedule 101 customer is about \$270. ²⁹ The current annual amount paid by a water-heat-only customer is \$296. Assuming the same percentage of fixed costs
13 14 15 16 17	-	customer? According to the Company's current rate presentation, the current average annual fixed cost for each Schedule 101 customer is about \$270. ²⁹ The current annual amount paid by a water-heat-only customer is \$296. Assuming the same percentage of fixed costs collected through the usage charge and including the basic charge, \$123 of that goes
13 14 15 16 17 18	-	customer? According to the Company's current rate presentation, the current average annual fixed cost for each Schedule 101 customer is about \$270. ²⁹ The current annual amount paid by a water-heat-only customer is \$296. Assuming the same percentage of fixed costs collected through the usage charge and including the basic charge, \$123 of that goes toward the fixed costs of the system, which is only 45 percent of the \$270 it costs the
13 14 15 16 17 18 19	-	customer? According to the Company's current rate presentation, the current average annual fixed cost for each Schedule 101 customer is about \$270. ²⁹ The current annual amount paid by a water-heat-only customer is \$296. Assuming the same percentage of fixed costs collected through the usage charge and including the basic charge, \$123 of that goes toward the fixed costs of the system, which is only 45 percent of the \$270 it costs the Company to serve that customer. Therefore, the decision to install the gas water heater

²⁹ Calculated by adding annual basic charge revenues to margin rate times average annual use per Schedule 101 customer. See Exhibit No. ____ (DJR-2).

Q. What are the principles of sound rate design?

A. Sound rate design should be guided by the following policy objectives: simplicity,
 encouraging conservation, stability, gradualism, fairness, justness, reasonableness, and
 sufficiency.³⁰

5 Simple rates are made up of units of service like kilowatt hours or therms that are 6 easy for customers to understand. If rates are complicated, the price signal may get lost in 7 the noise. Different rate designs are appropriate for customers with different levels of 8 sophistication. Residential customers may be best served by a fixed monthly charge and a 9 charge per unit of use, where large commercial customers may be best served by per unit 10 charges for both demand and energy.

Fair rates should create a system where each customer and each customer class pays for the costs they impose on the system. This principle, also called cost causation, is actually very difficult to achieve, because customers within a given class have similar but not identical usage characteristics. It is also difficult to keep fair rates simple. For example, rate designs that include demand charges increase the number of elements that make up a customer bill. This complicates the bill, but more accurately reflects the costs imposed on the system by a particular customer.

Gradualism means that changes in rates to achieve a particular goal are made in steps, rather than all at once, thus mitigating substantial impacts to any one rate schedule or customer within a schedule. The idea of gradualism may be used to evaluate overall bill changes as well as changes in components of bills, such as the customer basic charge.

³⁰ Bonbright, James C., Albert L. Danielson and David R. Kamerschen, *Principles of Public Utility Rates*, 2nd Ed, (Arlington, VA: Public Utilities Reports, Inc., 1988) Pages 382-388.

1		Sufficiency means that rates provide a reasonable opportunity for a utility to			
2		recover its costs of providing service plus a fair return on its investment. The			
3		Commission has suggested that the right balance point for recovery of fixed costs via the			
4		customer basic charge is about one-fourth of the fixed costs allocated to residential			
5		customers, or about eight to ten percent of a customer's average annual bill. ³¹			
6		As the costs of the electric and natural gas systems increase, more attention has			
7		been directed toward energy efficiency through the exploration of rate designs that			
8		encourage customers to use the least amount of energy possible to achieve the same			
9		desired comfort levels. Until recently, utilities were encouraged to increase the per unit			
10		charge as much as possible, with the idea that customers will reduce their use when they			
11		see their bills increase. This effect, also called price elasticity, is hard to measure and			
12		even harder to predict.			
13					
14	C.	Did the Company Over Earn?			
15		Did the Company Over Earn:			
		Did the Company Over Larn.			
16	Q.	Did the decoupling mechanism meet the earnings test?			
16 17	Q. A.				
	-	Did the decoupling mechanism meet the earnings test?			
17	-	Did the decoupling mechanism meet the earnings test? Yes. In Docket UG-071863, the Company provided a copy of its 2006 Commission basis			
17 18	-	Did the decoupling mechanism meet the earnings test? Yes. In Docket UG-071863, the Company provided a copy of its 2006 Commission basis report showing that its annual rate of return with restating adjustments at 7.61 percent			
17 18 19	-	Did the decoupling mechanism meet the earnings test? Yes. In Docket UG-071863, the Company provided a copy of its 2006 Commission basis report showing that its annual rate of return with restating adjustments at 7.61 percent was less than the Commission approved 9.11 percent rate of return. In Docket UG-			

³¹ WUTC v. Puget Sound Energy, Inc., Dockets UE-060266 and UG-060267, Order 08, ¶ 139 (January 5, 2007).

D.

Is Recovery Proportional to Company-Sponsored DSM?

2

3	Q.	Is the recovery under the decoupling mechanism appropriately proportional to the
4		margin lost to Company-sponsored DSM?

- A. No. The Company responds to this question on page 11 of Mr. Hirschkorn's testimony.
 However, according to the decoupling evaluation report,³² over the first two years of the
- 7 program, the Company deferred \$1,573,628, while it lost \$396,610 of margin due to
- 8 company-sponsored DSM. Even if we incorporated multi-year losses, the Company still
- 9 deferred \$1,040,329, or three times the impact of its DSM program. This information,
- 10 however, does not address whether this is the right proportional relationship. The
- 11 evaluation report did not attempt to measure how much of the margin may have been
- 12 associated with market transformation or information programs sponsored by the
- 13 company. The evaluation report did not attempt to address any hypothetical situations, or
- 14 to model any variations in decoupling mechanism design.
- 15

16 Q. Should the decoupling mechanism be tied directly to only Company-sponsored

- 17 conservation?
- 18 A. No. The purpose of the decoupling mechanism was to remove the Company's
- 19 disincentive to invest in conservation by stabilizing the amount of revenue the Company
- 20 could count on collecting. The Evaluation Report did not try to determine the causes of
- 21 the non-Company-sponsored conservation. Staff believes it is very difficult to accurately

³² WUTC v. Avista Utilities, Docket UG-060518, Petition, Motion, Direct Testimony and Exhibits on behalf of Avista Corporation from Kelly Norwood, RE: Order Continuing a Natural Gas Decoupling Mechanism with Associated Accounting Entries, Hirschkorn Exhibit No. ____ (BJH-2), Page 2 (May 1, 2009).

1		identify Company-sponsored versus non-direct reductions in energy use. Therefore, Staff			
2		recommends the decoupling mechanism include all reductions.			
3					
4	E.	Does the Mechanism Include the Right Customers?			
5					
6	Q.	Did the Company earn a greater rate of return from Schedule 101 customers than			
7		from other customers?			
8	A.	Yes. Company witness Mr. Hirschkorn shows the present rate of return by schedule			
9		based on the per books amounts. According to his calculations, Schedule 101's present			
10		rate of return is 6.98 percent, while Schedule 111 is 6.93 percent and Schedule 121 is			
11		6.48 percent. ³³ If the revenue received from the mechanism were included in the			
12		company's calculations, the return would be even higher. Staff does not accept these			
13		numbers for the purposes of rate spread or rate design. However, even though they do not			
14		include the revenue from the decoupling mechanism, they are still illustrative of a class			
15		inequity that is exacerbated by the decoupling mechanism.			
16					
17	Q.	Should other customers be included in the application of the decoupling surcharge?			
18	A.	No. The mechanism currently applies to Schedule 101 customers. Schedule 111, Large			
19		General Service customers, typically averaging more than 200 therms per month, are			
20		currently excluded from the mechanism in both its calculation and its rate application.			
21		The exclusion of large commercial and industrial customers is appropriate because their			
22		gas usage can vary substantially because of economic conditions and other factors			

³³ WUTC v. Avista Utilities, Dockets UE-090134, UG-090135, and UG-060518, Testimony and Exhibits on behalf of Avista Corporation from Kelly Norwood, Hirschkorn Exhibit No. ____ (BJH-7), Page 2 (January 23, 2009).

unrelated to conservation. Including these customers in the mechanism would be a significant shift of risk from the Company to the ratepayers.

3

4 Q. Should usage from customers switching between Schedule 101 and Schedule 111 be 5 removed from the mechanism?

- A. The Company is proposing a refinement to remove usage of customers that switch
 between Schedule 101 and Schedule 111 during the year from the calculation of the
- 8 deferral.³⁴ According to the Evaluation Report, the net result would have been a \$74,000
- 9 decrease in the deferral amount.³⁵ Staff believes this refinement is appropriate, because
- 10 the migration between the schedules turned out to be a bigger amount than was expected.
- 11 Staff witness Ms. Huang's testimony discusses minimizing migration through the
- 12 application of the rate design. See Exhibit No. ____ (JH-1T).
- 13

14 Q. Should the calculation of the mechanism continue to remove new customers?

15 A. No. The point of the decoupling mechanism is to stabilize revenues for the Company.

16 Historical growth in electric revenue has been driven by increases in both use per

- 17 customer and customer numbers. However, natural gas has been experiencing a decline in
- 18 use per customer for at least ten years. The mechanism's current design assumes that the
- 19 Company's costs per customer have no incremental component. This is not correct. The
- 20 Company, for example, does not have to go out and buy a new bucket truck every time

³⁴ WUTC v. Avista Utilities, Docket UG-060518, Petition, Motion, Direct Testimony and Exhibits on behalf of Avista Corporation from Kelly Norwood, RE: Order Continuing a Natural Gas Decoupling Mechanism with Associated Accounting Entries, Hirschkorn Exhibit No. ____ (BJH-1T), Page 13 (May 1, 2009).

³⁵ WUTC v. Avista Utilities, Docket UG-060518, Petition, Motion, Direct Testimony and Exhibits on behalf of Avista Corporation from Kelly Norwood, RE: Order Continuing a Natural Gas Decoupling Mechanism with Associated Accounting Entries, Hirschkorn Exhibit No. ____ (BJH-2), Page 65 (May 1, 2009).

they add a customer to the system. There are clear economies of scale that should be
 recognized. However, the new customer adjustment is currently so large that removing it
 changes the deferral from \$674,000 collected from customers to \$203,000 refunded to
 customers.³⁶ Staff believes an alternative rate design would better serve the policy goal of
 stabilizing the Company's revenue.

6

18

7 Q. Why does natural gas use per customer continue to decline?

A. These declines can be attributed to technological improvements in energy codes,
customer response to increasing natural gas prices (elasticity), and company sponsored
demand-side management programs. Natural replacement of failed equipment results in
energy use reductions because new equipment must meet new standards. Even when a

12 customer buys a minimum efficiency appliance by today's standards, it is typically much

13 better than what she is replacing. Today's building codes reduce energy intensity, or use

14 per square foot, in new housing stock compared to old stock. Therefore, even though

15 housing sizes have been increasing (2,400 square feet³⁷ for new stock versus 2250 square

16 $feet^{38}$ for all stock) the improvement in energy intensity per square foot over time has

- 17 probably contributed to the declining natural gas use per customer, and will probably
 - continue to contribute to its decline. The Evaluation Report, Docket UG-060518, Exhibit

³⁶ WUTC v. Avista Utilities, Docket UG-060518, Petition, Motion, Direct Testimony and Exhibits on behalf of Avista Corporation from Kelly Norwood, RE: Order Continuing a Natural Gas Decoupling Mechanism with Associated Accounting Entries, Hirschkorn Exhibit No. ____ (BJH-2), Page 50 (May 1, 2009).

³⁷ RLW Analytics, Inc., *Residential New Construction (Single and Multi-Family) Billing Analysis* (Portland, OR: Northwest Energy Efficiency Alliance) <u>http://www.nwalliance.org</u> October 11, 2007.

³⁸ Calculated by Staff from Puget Sound Energy's most recent conservation potential assessment, available in Docket UE-080949.

1		No. (BJH-2), ³⁹ on Page 52, found that there was very little difference between raw
2		average use per customer and raw average use per new customer. It did not provide
3		enough information to evaluate whether there was a trend in use per new customer. It is
4		interesting, if only anecdotally, that average use per new customer actually declined
5		while average use per customer increased slightly. These numbers are only anecdotal
6		because they are not weather-normalized, 2008 was a colder than normal winter, and
7		there is no analysis of statistical significance.
8		
9	F.	Did Risk Shift?
10		
10 11	Q.	Did risk shift from the Company to ratepayers as a class?
	Q. A.	Did risk shift from the Company to ratepayers as a class? Yes. The Company responds affirmatively to this question on page 19 of Mr.
11	-	
11 12	-	Yes. The Company responds affirmatively to this question on page 19 of Mr.
11 12 13	-	Yes. The Company responds affirmatively to this question on page 19 of Mr. Hirschkorn's testimony. The evaluation report specifically excludes analysis of risk on
11 12 13 14	-	Yes. The Company responds affirmatively to this question on page 19 of Mr. Hirschkorn's testimony. The evaluation report specifically excludes analysis of risk on page 5. The mechanism captures the effect of changes in customer usage due to
 11 12 13 14 15 	-	Yes. The Company responds affirmatively to this question on page 19 of Mr. Hirschkorn's testimony. The evaluation report specifically excludes analysis of risk on page 5. The mechanism captures the effect of changes in customer usage due to conservation and price elasticity. As a customer class reduces usage, the decoupling
 11 12 13 14 15 16 	-	Yes. The Company responds affirmatively to this question on page 19 of Mr. Hirschkorn's testimony. The evaluation report specifically excludes analysis of risk on page 5. The mechanism captures the effect of changes in customer usage due to conservation and price elasticity. As a customer class reduces usage, the decoupling
 11 12 13 14 15 16 17 	A.	Yes. The Company responds affirmatively to this question on page 19 of Mr. Hirschkorn's testimony. The evaluation report specifically excludes analysis of risk on page 5. The mechanism captures the effect of changes in customer usage due to conservation and price elasticity. As a customer class reduces usage, the decoupling surcharge will increase, ⁴⁰ and the Company no longer bears a risk of reduced revenue.

 ³⁹ WUTC v. Avista Utilities, Docket UG-060518, Petition, Motion, Direct Testimony and Exhibits on behalf of Avista Corporation from Kelly Norwood, RE: Order Continuing a Natural Gas Decoupling Mechanism with Associated Accounting Entries, Hirschkorn Exhibit No. ____ (BJH-2), Page 52 (May 1, 2009).
 ⁴⁰ WUTC v. Avista Utilities, Docket UG-060518, Petition, Motion, Direct Testimony and Exhibits on behalf of Avista Corporation from Kelly Norwood, RE: Order Continuing a Natural Gas Decoupling Mechanism with Associated Accounting Entries, Hirschkorn Exhibit No. ____ (BJH-2), Page 4 (May 1, 2009).

costs increase, or escalate, over time, the Mechanism does not provide recovery of that change in costs." While true, this does not address whether the Company's risk has changed. Use per customer has been declining over the last ten years. The decoupling mechanism alleviates this risk, which is the relevant risk to consider.

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Avista Natural Gas Use Per Customer⁴¹



These efficiency gains are mentioned when justifying investments in plant in
every rate case the Company files. The reduction in risk to the Company is, therefore,
larger than it appears on its face. In addition, as the Evaluation Report shows on page 4,
actual weather adjustments have been much smaller than other changes in usage, calling
into question whether the Company was actually experiencing very much weather risk.

⁴¹ Avista Response to Public Counsel Data Request 179, Attachment A.

G.

Do Advantages Outweigh Disadvantages?

2

3 Q. What are the benefits of Avista's decoupling mechanism?

4 A. The design of the Avista decoupling mechanism was carefully crafted to overcome the 5 potential drawbacks associated with full decoupling mechanisms. The effect of these 6 limits on the decoupling mechanism caused it to retain, as much as possible, the status 7 quo. Therefore, the benefits of the decoupling mechanism are in large part the same as 8 the benefits of the standard two-part tariff employed as the underlying rate design. 9 Weather risk is still borne by the Company. Increases in customer numbers still result in 10 increases in revenue. Year-over-year rate volatility is still largely the result of changes in gas costs. The only benefit of the decoupling mechanism itself is that it moved individual 11 12 customer bill experience closer to what would happen under levelized rates, providing an 13 easier transition to the Staff proposed rate design.

14

15 Q. What are the drawbacks of Avista's decoupling mechanism?

16 A. The limits on the decoupling mechanism caused it to retain, as much as possible, the 17 status quo. Therefore, the drawbacks of the decoupling mechanism are in large part the 18 same as the drawbacks of the standard two part tariff employed as the underlying rate 19 design. Year-over-year recovery of fixed costs is directly related to sales of therms, rather 20 than number of customers connected to the system. Large residential users still contribute 21 more than their share of fixed costs, and small users still contribute less than their share 22 of fixed costs. Small users are over-incented to connect to the system. The most 23 significant drawback of the decoupling mechanism itself is the significant increase in

1		Company and Staff time for the review and analysis required to ensure that the			
2		mechanism is working as desired.			
3					
4		IV. RECOMMENDED ALTERNATIVE REGULATORY PROPOSAL			
5					
6	Q.	Does Staff recommend any modifications to the decoupling mechanism if it is			
7		continued?			
8	А.	Yes.			
9					
10	Q.	Does Staff recommend the decoupling mechanism be continued?			
11	А.	Only temporarily. Instead of a decoupling mechanism, Staff recommends gradually			
12		increasing the Schedule 101 basic charge to \$10 a month and decreasing the usage charge			
13		as shown in Staff witness Ms. Huang's Exhibit No (JH-4). This change increases the			
14		amount of fixed revenue the company collects through the basic charge without			
15		increasing the company's Schedule 101 revenue requirement. This stabilizes the revenue			
16		the company can expect, without creating complicated accounting requirements and			
17		complex rates for Schedule 101 customers.			
18 19	Q.	Should this happen immediately or should it be phased in?			
20	А.	Staff recommends a two year phase-in, using the decoupling mechanism through the			
21		2010 rate year combined with a first year increase in the basic charge to \$8 per month			
22		taking effect January 1, 2010. In the second year, the decoupling mechanism should be			
23		suspended and the basic charge should increase to \$10 per month taking effect January 1,			

TESTIMONY OF DEBORAH J. REYNOLDS Dockets UE-090134 and UG-090135 and UG-060518 (consolidated) Exhibit No. ____ T (DJR-1T) Page 26

1		2011. This will more gradually move customers to paying more of their fixed costs			
2		through the basic charge, which will help low-use customers (water-heat-only) adjust to			
3		the change. This change is also consistent with the Commission's observations in Order			
4		05, Dockets UE-070804, et al., at paragraph 29:			
5 6 7 8 9 10 11 12 13		As a general proposition, there are sound reasons supporting recovery of a greater proportion of a utility's fixed costs in basic or demand charges, rather than in energy or commodity charges. For example, in an environment of increasing costs, a rate design that increases the recovery of fixed costs in fixed charges can promote rate stability while tempering the need for higher returns by reducing the risk the Company faces in terms of overall rate recovery.			
14	Q.	Are any other changes necessary to implement this change?			
15	A.	Yes. The Schedule 101 usage charge will need an interim adjustment, and the margin rate			
16		set in Schedule 159 will need an adjustment as well. The methodology for the interim			
17		adjustment should follow the rate design methodology found in Staff witness Ms.			
18		Huang's Exhibit No (JH-4).			
19					
20	Q.	What do you recommend to reduce the effect of this change on low-income			
21		customers?			
22	A.	Staff recommends that the Company implement a reduced monthly charge for low-			
23		income customers of \$3 per month. The revenue for this will be recovered through the			
24		Schedule 191 surcharge. Customers that qualify for LIHEAP or LIRAP any time during			
25		the program year (October-October) will be granted the reduced monthly charge through			
26		the end of the program year, at which time they will be restored to the standard charge.			
27					

1	Q.	What it is the impact to the Schedule 191 surcharge by implementing this			
2		recommendation?			
3	A.	The rate would increase to approximately \$0.00965 over the next three years, which			
4		would increase the average residential customer's bill (using 70 therms a month)			
5		approximately \$0.11/month.			
6					
7	Q.	How much information is reviewed annually for the decoupling mechanism?			
8	A.	There are seven reports adding up to over 300 pages that must be reviewed to analyze the			
9		decoupling mechanism. This does not include the 900 pages of exhibits with the			
10		Evaluation Report.			
11		Reporting Required for Mechanism Evaluation			
		Aspect of Mechanism Report Citation			

Aspect of Mechanism	Report	Citation
The Deferral Amount: It deferred 90% of the margin difference, either positive or negative, for later recovery (or rebate) subject to:	Quarterly Report showing monthly deferral calculation and historical monthly balance, general ledger accounts.	UG-060518 Settlement pg 9
An earnings test - Avista could not earn more than its authorized rate of return.	Annual decoupling surcharge filing - relies on annual Commission Basis report.	UG-060518 Settlement pg 5 and 8
A demand side management (DSM) test - recovery based on Avista achieving specific conservation targets.	Annual decoupling surcharge filing - relies on DSM Verification Report (see below)	UG-060518 Settlement pg 7 and 8
Annual Rate Changes: The Mechanism limited annual rate increases due to the Mechanism to 2% annually.	Annual decoupling surcharge filing	UG-060518 Settlement pg 8

		Review of DSM Savings: The Company retained an independent third party to audit the results of DSM savings reported for decoupling purposes.	Annual DSM Verification Report required before annual decoupling surcharge filing.	UG-060518 Settlement pg 7 and 9
		Decoupling Evaluation: Prior to filing a request to continue the Mechanism beyond its initial term, the Company must evaluate its results.	Evaluation required by March 31, 2009	UG-060518 Order 05
1		Triple E Conservation Reports including therms saved, dollars budgeted and spent, cost effectiveness calculations, tariff rider expenditures and recovery.	Quarterly conservation reports as part of DSM evaluation and annual conservation rider tariff filing.	UG-090052
1				
2	Q.	Would all these reports be necessary i	f the Staff proposal is adopted?	
3	A.	No.		
4				

- 5 Q. Does this conclude your testimony?
- 6 A. Yes.