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IDAHO PUBLIC
UTILITIES COMMISSION

BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION

IN THE MATTER OF THE APPLICATION)
OF AVISTA CORPORATION FOR THE)
AUTHORITY TO INCREASE ITS RATES)
AND CHARGES FOR ELECTRIC AND)
NATURAL GAS SERVICE TO ELECTRIC)
AND NATURAL GAS CUSTOMERS IN THE)
STATE OF IDAHO)
_____)

CASE NO. AVU-E-09-01

DIRECT TESTIMONY
OF
WILLIAM G. JOHNSON

FOR AVISTA CORPORATION

(ELECTRIC ONLY)

1 I. INTRODUCTION

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

4 A. My name is William G. Johnson. My business
5 address is 1411 East Mission Avenue, Spokane, Washington,
6 and I am employed by the Company as a Wholesale Marketing
7 Manager in the Energy Resources Department.

8 **Q. What is your educational background?**

9 A. I graduated from the University of Montana in
10 1981 with a Bachelor of Arts Degree in Political
11 Science/Economics. I obtained a Master of Arts Degree in
12 Economics from the University of Montana in 1985.

13 **Q. How long have you been employed by the Company**
14 **and what are your duties as a Wholesale Marketing Manager?**

15 A. I started working for Avista in April 1990 as a
16 Demand Side Resource Analyst. I joined the Energy
17 Resources Department as a Power Contracts Analyst in June
18 1996. My primary responsibilities involve power contract
19 origination and management and power supply regulatory
20 issues.

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

23 A. My testimony will 1) identify and explain the
24 proposed normalizing and pro forma adjustments to the
25 October 2007 through September 2008 test period power

1 supply revenues and expenses, and 2) describe the proposed
2 changes to the Power Cost Adjustment (PCA) calculation
3 methodology and the new authorized level of power supply
4 expense for PCA calculation purposes and 3) describe how
5 the Company proposes to track the expense and revenue
6 associated with the Lancaster plant, which will become an
7 Avista Utilities resource beginning January 1, 2010.

8 **Q. Are you sponsoring any exhibits to be introduced**
9 **in this proceeding?**

10 A. Yes. I am sponsoring Exhibit No. 6, Schedules 1
11 through 4, which were prepared under my supervision and
12 direction.

13 **Q. Are other company witnesses providing testimony**
14 **regarding issues you are addressing?**

15 A. Yes. Company witness Mr. Kalich provides
16 detailed testimony on the AURORA model used by the Company
17 to develop short-term power purchase expense, fuel expense
18 and short-term power sales revenue included in my exhibits.

19

20 **II. Pro Forma Expense Adjustment**

21 **Q. Please provide an overview of your pro forma**
22 **adjustment to power supply expense.**

23 A. The pro forma adjustment to power supply expense
24 involves the determination of revenues and expenses based
25 on the generation and dispatch of Company resources and

1 expected wholesale market power prices as determined by the
 2 AURORA model simulation for the pro forma period under
 3 normal weather and hydro generation conditions. In
 4 addition, adjustments are made to reflect contract changes
 5 between test period and the pro forma period. The table
 6 below shows total net power supply expense during the test
 7 period and the pro forma period. For information purposes
 8 only, the power supply expense currently in rates, which is
 9 based on a calendar 2009 pro forma period, is also shown.

Power Supply Expense (Not Including Directly Assigned Potlatch Purchase)		
	<u>System</u>	<u>Idaho Allocation</u>
Power Supply Expense in Current Base Rates (Calendar 2009 pro forma)	\$174,849,000	
Actual Oct 07-Sep 08 Power Supply Expense	\$180,395,000	
Adjustment to Test Period	\$27,645,000	\$9,789,095
July 2009 - June 2010 Pro forma Power Supply Expense	\$208,040,000	
Increase from Expense in Current Rates	\$33,191,000	\$11,752,933

10

11 The net effect of my adjustments to the test year
 12 power supply expense is an increase of \$27,645,000
 13 (\$208,040,000 - \$180,395,000) on a system basis. The Idaho
 14 allocation of this adjustment of \$9,789,095 is incorporated
 15 into the revenue requirement calculation for the Idaho
 16 jurisdiction by Company witness Ms. Andrews.

17 The increase in power supply expense compared to the
 18 pro forma level in current base rates is \$33,191,000
 19 (system) and \$11,752,933 (Idaho allocation). The power

1 supply expense in current base rates is based on a calendar
2 year 2009 pro forma.

3 **Q. What are the major factors driving the increased**
4 **power supply expense in the pro forma year over the level**
5 **of power supply expense currently in base rates?**

6 A. The level of power supply expense currently in
7 base rates is \$174,849,000 (system number). This expense
8 level is based on a calendar 2009 pro forma period. This
9 compares to the proposed pro forma power supply expense of
10 \$208,040,000, an increase of approximately \$33.2 million on
11 a system basis and an Idaho allocation of approximately
12 \$11.8 million.

13 This increase in pro forma power supply expense over
14 the expense currently in base rates is based on numerous
15 factors, primarily reduced hydro generation due to the
16 elimination of the rate mitigation adjustment included in
17 the last case and higher retail loads.

18 Pro forma retail loads are 22.7 aMW higher than loads
19 that current rates are based on. The increased loads are
20 due to two factors. One is the natural increase in retail
21 loads of approximately 14.3 aMW. The other 8.4 aMW of load
22 increase is due to the reduction in Potlatch generation.
23 Because Potlatch generation expense is directly assigned to
24 Idaho, the Potlatch load equivalent to their generation is
25 removed from system loads. The reduction in Potlatch

1 generation has the effect of increasing system loads for
2 rate making purposes, while at the same time reducing the
3 Potlatch power purchase expense directly assigned to Idaho.

4 Hydro generation is also lower than the level in
5 current base rates. Pro forma hydro generation is 533.3
6 aMW compared to 563.1 aMW in current base rates, a
7 reduction of 29.8 aMW. This pro forma removes the
8 additional 26.5 aMW of hydro generation incorporated in
9 last year's general rate case as the "rate mitigation
10 adjustment." The remaining reduction in hydro generation is
11 due to the reduction in Mid Columbia purchased hydro
12 generation resulting from the expiration of the Wanapum
13 contract in November 2009.

14 The table below shows the primary factors driving the
15 increase in power supply expense compared to the level in
16 current base rates.

Power Supply Expense Change July 2009 - June 2010 Pro forma vs. 2009 Pro forma		
Factor	Power Supply Change (System) \$millions	Power Supply Change (Idaho) \$millions
System Load	\$11.0	\$3.90
Rate Mitigation Removed	\$12.8	\$4.53
Settlement Adjustments Removed	\$3.1	\$1.10
Actual Transactions Mark-to-Model	\$4.3	\$1.52
Coyote Operating Margin	-\$0.5	-\$0.18
Other	\$2.5	\$0.89
Total Pro forma Increase	\$33.2	\$11.8

1

2

3

III. PRO FORMA POWER SUPPLY EXPENSE

4 **Overview**

5 **Q. Please identify the specific power supply cost**
6 **items that are covered by your testimony and the total**
7 **adjustment being proposed.**

8 A. Exhibit No. 6, Schedule 1 identifies the power
9 supply expense and revenue items that fall within the scope
10 of my testimony. These revenue and expense items are
11 related to power purchases and sales, fuel expenses,
12 transmission expense, and other miscellaneous power supply
13 expenses and revenues.

14 **Q. What is the basis for the adjustments to the test**
15 **period power supply revenues and expenses?**

1 A. The purpose of the adjustments to the test period
2 is to normalize power supply expenses for normal weather
3 and hydroelectric generation and to reflect known and
4 measurable changes for the pro forma period that rates will
5 be in effect. Adjustments are also made to reflect
6 contract changes from the test period to the pro forma
7 period.

8 The AURORA Model dispatches Company resources on an
9 hourly basis and calculates the level of generation from
10 the Company's thermal resources, fuel costs for thermal
11 resources, and the short-term purchases and sales necessary
12 to serve system requirements.

13 **Q. Have any changes been made in the calculation of**
14 **pro forma power supply costs from the last general rate**
15 **case?**

16 A. Yes. The primary change made in this general
17 rate case is to include the actual term power and natural
18 gas transactions already entered into for delivery in the
19 pro forma period. Term transactions are monthly and
20 quarterly transactions. This is done to more accurately
21 reflect the actual power supply expense the Company will
22 incur during the pro forma period.

23 As of November 30, 2008 Avista had entered into 33
24 forward electric contracts and 8 forward natural gas
25 contracts for delivery in the pro forma period. The

1 electric contracts include 15 physical purchases and 4
2 physical sales and 14 financial (fixed-for-floating swaps)
3 purchases. The natural gas transactions include 4
4 purchases and 4 sales.

5 The mechanics of including actual transactions in the
6 pro forma is to add the physical electric transactions as
7 resources and obligations in the AURORA model and include a
8 mark-to-model adjustment in the pro forma for the financial
9 electric and natural gas transactions. If the actual
10 transactions lower power supply expense (lower purchase
11 costs or higher sales revenue) as compared to the cost
12 produced by the AURORA model, then the lower cost is
13 included in the pro forma expense. If the actual
14 transactions increase power supply expense (higher purchase
15 costs or lower sales revenue) as compared to the cost
16 produced by the AURORA model, then the higher cost is
17 included in the pro forma expense.

18 The Company's hedging program layers in purchase and
19 sales transactions prior to the delivery period, and some
20 of the actual transactions were entered into during the
21 period of high forward prices during the middle of 2008.
22 Because prices have declined since July 2008, the overall
23 impact of the actual transactions is an increase in the pro
24 forma expense. The table below shows the impact of the
25 actual transactions in the pro forma. Overall, the actual

1 transactions increase pro forma expense by \$4,314,400 on a
 2 system basis, \$1,527,729 Idaho allocation, compared to what
 3 expenses would be based solely on the AURORA model output.
 4 Avista's hedging strategy and risk management program are
 5 explained in Mr. Storro's testimony.

Actual Electric and Natural Gas Transactions Impact on Proforma Power Supply Expense Term Transactions through 11-30-08		
	<u>System Numbers</u>	<u>Idaho Allocation</u>
Physical Electric Transactions Mark to Market	\$43,304	\$15,334
Financial Electric Transactions Mark to Market	\$2,923,297	\$1,035,139
Natural Gas Transactions Mark to Market	\$1,347,800	\$477,256
Total Proforma Impact of Actual Transactions	\$4,314,400	\$1,527,729

6

7 Detailed workpapers are provided for all the actual
 8 transactions included in the pro forma.

9 **Q. Are there any other changes in how the pro forma in**
 10 **this case was developed?**

11 A. No. Other than including actual transactions and
 12 the removal of the hydro rate mitigation adjustment, the
 13 process to develop the pro forma net power supply expense
 14 in this case is the same as in the 2008 general rate case.

15 A brief description of each adjustment is provided in
 16 Exhibit No. 6, Schedule 2. Detailed workpapers have been
 17 provided to the Commission coincident to this filing to
 18 support each of the pro forma revenues and expenses. The
 19 detailed workpapers for each adjustment show the actual

1 revenue or expense in the test period, and the pro forma
2 revenue or expense.

3 **Long-Term Contracts**

4 **Q. How are long-term power contracts included in**
5 **the pro forma?**

6 A. Long-term power contracts are included in the pro
7 forma by including the energy receipt or obligation
8 associated with the contract in the AURORA model and
9 including the cost or revenue in the pro forma net power
10 supply expense.

11 **Q. Are there any new power purchases or sales in the**
12 **pro forma?**

13 A. Yes. The Company entered into a two-year
14 agreement to purchase generation from the Wells
15 hydroelectric plant that is assigned to the Colville Indian
16 Tribe, which I describe in more detail below. Also, the
17 purchase from Thompson River Cogen, a cogeneration plant in
18 Thompson Falls, Montana, that was included in the 2008 rate
19 case, was removed from this case because of the delays in
20 the start-up of the plant.

21 **Q. Please describe the purchase of the Colville**
22 **Indian Tribe's Well's generation output?**

23 A. Avista entered into a two-year agreement
24 beginning October 2008 and ending September 2010 to
25 purchase the Colville Indian Tribe's 4.5% share of the

1 output of the Wells hydroelectric generation. Prior to this
2 agreement, Avista purchased 3.34% of the Well's output at
3 actual production cost from the owner of Wells, Douglas
4 PUD. The additional 4.5% of Wells output assigned to the
5 Colville Indian Tribe was purchased through a competitive
6 auction at the market prices at the time. The purchase of
7 the Colville Indian Tribe's share of Wells output at market
8 prices is the reason for the increase in Well's cost in the
9 pro forma.

10 **Q. Why is this purchase important to the Company?**

11 A. This purchase was important because of the
12 capacity and ancillary products that come with a Mid
13 Columbia generation product. In addition to the energy,
14 Mid Columbia generation has dynamic capacity that the
15 Company uses for frequency regulation and load following.
16 The generation also comes with a "paper pond" that allows
17 the Company to shift generation from low load to high load
18 hours.

19 The amount of generation the Company has at the Mid
20 Columbia is being reduced as the existing contracts with
21 Grant PUD expire and the amount of generation at Priest
22 Rapids (November 2005) and Wanapum (November 2009) are
23 reduced by roughly half. The Wells purchase makes up for a
24 good portion of the loss of capacity at Priest Rapids and

1 Wanapum, and allows the Company to maintain regulation
2 functions at the Mid Columbia.

3 **Short-Term Power Purchases and Sales**

4 Q. How are short-term transactions included in the
5 pro forma?

6 A. After including the actual short-term
7 transactions explained earlier as resources and obligations
8 in the AURORA model, the balance of the short-term electric
9 power purchases and sales are an output of the AURORA
10 model. The model calculates both the volumes and price of
11 short-term purchases and sales that balance the system's
12 generation and long-term purchases with retail load and
13 long-term obligations. The price of the short-term
14 transactions represents the price of spot market power as
15 determined by the AURORA model.

16 **Thermal Fuel Expense**

17 Q. How are thermal fuel expenses determined in the
18 pro forma?

19 A. Thermal fuel expenses include Colstrip coal
20 costs, Kettle Falls wood waste costs and natural gas
21 expense for the Company's gas-fired resources including
22 Coyote Springs 2, Rathdrum, Northeast, Boulder Park, and
23 the Kettle Falls combustion turbine. Unit coal costs at
24 Colstrip are based on the long-term coal supply and
25 transportation agreements. Unit wood fuel costs at Kettle

1 Falls are based on multiple shorter-term contracts with
2 fuel suppliers and inventory. Total fuel costs for each
3 plant are based on the unit fuel cost and the plant's level
4 of generation as determined by the AURORA model. Exhibit
5 No. 6, Schedule 3 shows the pro forma fuel costs by month
6 for each plant. Mr. Kalich provides details and supporting
7 workpapers regarding the fuel costs for the Company's
8 thermal plants.

9 **Transmission Expense**

10 **Q. What changes in transmission expense are in the**
11 **pro forma compared to the test year or the 2008 rate case?**

12 A. There is almost no change in transmission
13 expense. Transmission expense in the pro forma is \$4,000
14 (system) higher than the test year actual expense and
15 \$169,000 lower than the pro forma in the 2008 rate case.

16 **Q. Will there be additional transmission expense in**
17 **the pro form period that has not been included in this**
18 **case?**

19 A. Yes, beginning January 1, 2010 the Company will
20 purchase 250 MW of BPA point-to-point transmission for the
21 Lancaster plant. The cost of this transmission will be
22 approximately \$375,250 per month. The Company proposes to
23 track this expense in the PCA at 100 percent until such
24 time that this expense is included in base retail rates.

25

1 **IV. PCA CALCULATIONS**

2 **Proposed Changes to the PCA**

3 **Q. Is the Company proposing any changes to the PCA**
4 **methodology?**

5 A. Yes. The Company is proposing four changes to
6 the PCA calculations. The first is to change the sharing
7 percentages between Customers and the Company from 90%/10%
8 to 95%/5%. The second change is to include third-party
9 transmission expense (Accounts 565710 & 565000) and
10 transmission revenue (Accounts 456100, 456016 & 456700) in
11 the PCA. The third change is to use the average cost of
12 production/transmission included in base rates as the
13 retail revenue credit instead of the marginal cost of power
14 currently used in the PCA. The fourth change is to include
15 the Production Tax Credit in the PCA.

16 The Company is also proposing to include the expenses
17 and revenues related to the Lancaster plant in the PCA
18 beginning January 1, 2010, until the expense and revenue
19 related to the Lancaster plant are included in base rates.

20 **Customer/Company Sharing**

21 **Q. Why is the Company proposing a change in the**
22 **sharing between customers and the Company in the PCA?**

23 A. The primary reason to change the sharing
24 methodology is the increased volatility of power supply
25 costs. The increased volatility is driven primarily by two

1 factors. One is the overall level of prices. Higher
2 prices mean greater absolute variability due to hydro
3 generation and load variations. Also important is the
4 recent price volatility in the energy markets. For
5 example, actual prices varied from \$88/MWh in April 2008
6 when the Company was purchasing energy due to low hydro
7 generation from the delayed run-off to \$25/MWh in June when
8 the hydro run-off materialized and the Company was selling
9 surplus power. This kind of price volatility coupled with
10 hydro variation can cause very large changes in the
11 Company's power supply expense. In April 2008 alone, the
12 Company's power supply expense exceeded the authorized
13 level by over \$4.0 million (Idaho Allocation, over \$14
14 million on a system basis), leading to a PCA deferral of
15 over \$3.5 million, with the Company absorbing over
16 \$400,000.

17 An additional volatility the Company faces is the
18 price of natural gas. This is a significant source of
19 volatility with Coyote Springs 2 and will become even more
20 significant with the addition of Lancaster in 2010. A
21 rough rule of thumb is that every \$1/dth change in natural
22 gas prices changes Avista's system power supply expense by
23 \$10 million without the Lancaster plant. Natural gas
24 prices have varied by over \$5/dth during 2008. This
25 variability caused by natural gas price will be even

1 greater when the Company begins receiving power from the
2 Lancaster plant in 2010.

3 **Transmission Expense and Revenue**

4 **Q. Why is the Company proposing to include**
5 **transmission expense and revenues in the PCA?**

6 A. Transmission expense is a significant component
7 of the Company's overall power supply expense. While much
8 of the transmission is purchased under long-term contracts,
9 some is purchased on a short-term basis and is subject to
10 variability in the expense level. Including transmission
11 expense in the PCA tracks the variability in this power
12 supply related expense.

13 Including transmission revenue in the PCA is a
14 fairness issue. If customers are absorbing the majority
15 of any increases in transmission expense then it is fair
16 that they receive the majority of increases in transmission
17 revenue. The transmission revenue the Company is proposing
18 to include in the PCA is the sale of Avista transmission to
19 third parties.

20 Including transmission revenues and expenses in the
21 PCA is also consistent with the Company's Retail Revenue
22 Credit proposal. The proposed Retail Revenue Credit
23 includes both the Production and Transmission components of
24 the retail rate.

1 Finally, including transmission expense in the PCA is
2 necessary in order for the Company to include the expenses
3 associated with the Lancaster plant in the PCA. As stated
4 earlier in my testimony, beginning January 1, 2010, Avista
5 will be assigned 250 MW of BPA point-to-point transmission
6 from the Lancaster plant. This transmission is the only
7 means to move the power from the Lancaster plant to
8 Avista's system. The annual cost of this transmission is
9 approximately \$4.5 million or \$375,250 per month.
10 Transmission expense must be included in the PCA in order
11 for the Company to recover all the costs associated with
12 the Lancaster plant. If the PCA is not modified to reflect
13 transmission expense in the PCA, then the Company proposes
14 that only the transmission expense for the Lancaster plant
15 be included in the PCA (at 100% of expense) until the costs
16 are included in base retail rates.

17 **Retail Revenue Credit**

18 **Q. What change is the Company proposing to the**
19 **Retail Revenue Credit rate?**

20 A. The Company proposes that the average cost of
21 production and transmission be used as the retail revenue
22 credit rate in the PCA. Currently, the retail revenue
23 credit rate is the marginal cost of power. The average
24 production and transmission cost represents the power
25 commodity component of retail rates and is the revenue

1 collected from customers to recover power and transmission
2 costs. Using the average cost of production and
3 transmission as the retail revenue credit in the PCA
4 ensures that the actual revenue collected from customers
5 when retail sales increase is credited back against the
6 increased power supply expense and only the difference
7 between the actual cost of power and the amount of revenue
8 collected from customers is included in the PCA.

9 The average production cost also works equally well
10 when actual sales are lower than authorized sales. In that
11 case, actual power supply expense is lower because loads
12 are lower. The retail revenue credit adjusts for the
13 actual revenue the Company did not receive from customers.

14 The benefit of using the average cost of production
15 and transmission versus the marginal cost of power is that
16 the average cost of production works equitably for
17 customers and the Company when sales are both higher and
18 lower than the authorized level. As a note, the average
19 cost of production was used in the PCA for the months of
20 October 2008 through December 2008. Beginning January
21 2009, the retail revenue credit returned to being the
22 marginal cost of power.

23 **Inclusion of Production Tax Credit in the PCA**

24 **Q. Please explain the Production Tax Credit and how**
25 **the Company proposes to include it in the PCA.**

1 A. The Production Tax Credit (PTC) is a Federal
2 income tax credit the Company receives based on energy
3 production at the Kettle Falls bio-fuel plant and for
4 increased generation from upgrades at Cabinet Gorge dam.
5 The amount of PTC included in this case is a system amount
6 of \$2,766,722, which lowers customer's rates. The PTC for
7 ratemaking purposes is grossed up to a revenue level of
8 \$4.26 million (system) using the conversion rate of 65%,
9 which is one minus the federal income tax rate. The PTC is
10 set to expire for Kettle Falls on December 31, 2009.

11 **Q. Why is it appropriate to include the PTC in the**
12 **PCA?**

13 A. The PTC is a credit that is directly tied to the
14 level of generation at Kettle Falls and Cabinet Gorge. The
15 credit is accrued monthly based on the level of generation
16 at Kettle Falls and Cabinet Gorge. It is very similar to
17 other power supply expenses, such as fuel expense, which is
18 directly related to the level of production, and included
19 in the PCA. Because it is directly tied to the level of
20 generation at Kettle Falls and Cabinet Gorge it is an
21 appropriate revenue item to include in the PCA.

22 As noted earlier, the Kettle Falls portion of the PTC
23 is set to expire on December 31, 2009. When the PTC
24 expires at the end of 2009, the PCA will properly account
25 for this change. By including the PTC in the PCA,

1 customers will appropriately receive the full benefits from
2 the PTC through December 2009. If the PTC is not tracked
3 through the PCA, beginning January 2010 Avista would
4 inappropriately continue to flow a tax benefit to customers
5 that does not exist.

6 The Company proposes that Idaho's share of the system
7 PTC amount of \$4.26 million be included in the authorized
8 level of power supply expense in the PCA, which would then
9 be compared with the actual PTC credit each month in the
10 actual power supply expense in the PCA. The differences
11 between the actual PTC and the authorized PTC will flow
12 through the PCA in the same manner as other power supply
13 expenses and revenues.

14 **Inclusion of Lancaster Expense and Revenue in the PCA**

15 **Q. How does the Company propose including the**
16 **expense and revenue related to the Lancaster plant in the**
17 **PCA**

18 A. Avista Utilities will begin purchasing the output
19 of the Lancaster plant January 1, 2010. The Company
20 proposes that the expense and revenues related to the
21 Lancaster plant be included in the PCA until they are
22 reflected in base retail rates.

23 The Lancaster plant has several cost components.
24 Three cost components are part of the Lancaster power
25 purchase agreement and include a fixed capital payment, a

1 fixed O&M payment and a variable O&M payment. All three of
2 these expenses will be recorded in Account 555, Purchased
3 Power Expense, which is an account tracked by the PCA. The
4 capital payment and the fixed O&M payment will be
5 relatively constant month to month, and the variable O&M
6 expense will be dependent on the amount of generation at
7 the plant.

8 Other Lancaster plant costs include natural gas fuel
9 expense and the natural gas pipeline transportation
10 expense, both of which are included in Account 547, Fuel
11 Expense, and the BPA transmission that is recorded in
12 Account 565, Transmission Expense. As explained earlier,
13 the Company is proposing in this filing that Transmission
14 Expense and Transmission Revenue be included in the PCA
15 calculation.

16 The Company is proposing that the fixed expenses
17 related to the Lancaster plant be isolated and tracked in
18 the PCA at 100% of the actual expense. The fixed expenses
19 include the capacity payment (capital payment and fixed O&M
20 payment), the natural gas pipeline transportation payment
21 and the BPA transmission payment. These fixed payments do
22 not vary and would otherwise be 100% included in base
23 rates.

24 The Company proposes that the variable expenses and
25 revenue from the Lancaster plant be included in the PCA in

1 a manner similar to other expenses and revenues that would
2 be subject to the Company's proposed 95%/5%
3 Customer/Company PCA sharing. The variable expenses
4 related to the Lancaster plant include the variable O&M
5 payment, natural gas fuel expense and the net impact of
6 either reduced electricity purchases or increased
7 electricity sales. Tracking the variable expense and
8 revenue in the PCA at the proposed 95%/5% sharing
9 arrangement is similar to how these expenses are tracked
10 for other resources.

11 **New Authorized Power Supply and Transmission Expense**

12 **Q. What is the authorized power supply expense and**
13 **revenue proposed by the Company for the PCA?**

14 A. The proposed authorized level of annual system
15 power supply expense is \$192,927,906. This is the sum of
16 Accounts 555 (Purchased Power), 501 (Thermal Fuel), 547
17 (Fuel), less Account 447 (Sale for Resale). The proposed
18 level of Transmission Expense is \$14,168,901. The proposed
19 level of Transmission Revenue is \$9,478,694.

20 The level of retail sales MWh and the retail revenue
21 credit will also be updated. The proposed authorized level
22 of retail sales to be used in the PCA is the July 2009
23 through June 2010 pro forma retail sales. The proposed
24 retail revenue credit is \$47.85/MWh, which is the average
25 cost of production/transmission in this filing.

1 The proposed authorized PCA expense and revenue is
2 shown in Exhibit 6, Schedule 4.

3 **Q. Does that conclude your pre-filed direct**
4 **testimony?**

5 A. Yes.

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FOR AVISTA CORPORATION

(ELECTRIC ONLY)

Avista Corp.
Power Supply Pro forma - Idaho Jurisdiction
System Numbers - Oct 2007 - Sep 2008 Actual and Jul 09 - Jun 10 Pro forma

Line No.	Oct 07 - Sep 08		Jul 09 - Jun 10	
	Actuals	Adjustment	Pro forma	
555 PURCHASED POWER				
1	Modeled Short-Term Market Purchases	\$0	\$51,202	\$51,202
2	Actual ST Market Purchases - Physical	148,407	-117,609	30,798
3	Actual ST Purchases - Financial M-to-M	\$0	\$2,923	2,923
4	Rocky Reach	2,068	89	2,157
5	Wanapum	5,406	-3,369	2,037
6	Wells, Avista and Colville Share	1,311	11,302	12,613
7	Priest Rapids Project	4,858	2,361	7,219
8	Grant Displacement	5,552	-219	5,333
9	Douglas Settlement	497	122	619
10	WNP-3	12,553	2,248	14,801
11	Deer Lake-IP&L	7	0	7
12	Small Power	1,125	29	1,154
13	Stimson	1,964	138	2,102
14	Spokane-Upriver	1,790	300	2,090
15	Douglas Exchange Capacity	1,648	-1,648	0
16	Seattle Exchange Capacity	1,699	-1,699	0
17	Black Creek Index Purchase	144	11	155
18	Non-Monetary	-242	242	0
19	Contract A	6,808	-19	6,789
20	Contract B	6,764	-19	6,745
21	Contract C	6,675	-17	6,658
22	Contract D	7,576	-20	7,556
23	CS2 Exchange	387	-387	0
24	Northwestern Deviation Energy	1,867	-1,867	0
25	BPA NT Deviation Energy	3,236	-3,236	0
26	Potlatch Co-Gen Purchase	18,439	-18,439	0
27	Spinning Reserve Purchase	1,500	0	1,500
28	Ancillary Services	670	-670	0
29	Stateline Wind Purchase	3,424	-159	3,265
30	Total Account 555	246,133	-78,409	167,724
557 OTHER EXPENSES				
31	Broker Commission Fees	104	0	104
32	REC Purchases	364	-14	350
33	Bad Debt Reserve	2,728	-2,728	0
34	Natural Gas Fuel Purchases	39,075	-39,075	0
35	Total Account 557	42,271	-41,817	454
501 THERMAL FUEL EXPENSE				
36	Kettle Falls - Wood Fuel	7,227	3,848	11,075
37	Kettle Falls - Start-up Gas	23	0	23
38	Colstrip - Coal	17,688	418	18,106
39	Colstrip - Oil	91	111	202
40	Total Account 501	25,029	4,377	29,406
547 OTHER FUEL EXPENSE				
41	Coyote Springs Gas	99,105	-30,692	68,413
42	Actual Gas Purchases Financial M-to-M	0	1,348	1,348
43	Gas Transportation Charge	5,961	911	6,872
44	Rathdrum Gas	616	-342	274
45	Northeast CT Gas	277	-216	61
46	Boulder Park Gas	2,127	-2,090	37
47	Kettle Falls CT Gas	312	-236	76
48	Total Account 547	108,398	-31,316	77,082
565 TRANSMISSION OF ELECTRICITY BY OTHERS				
49	WNP-3	789	0	789
50	Sand Dunes-Warden	20	0	20
51	Black Creek Wheeling	18	2	20
52	Wheeling for System Sales & Purchases	845	0	845
53	PTP for Colstrip & Coyote	8,427	3	8,430
54	BPA Townsend-Garrison Wheeling	1,173	0	1,173
55	Avista on BPA - Borderline	1,483	-5	1,478
56	Kootenai for Worley	39	6	45
57	Sagle-Northern Lights	136	-2	134
58	Garrison-Burke	592	0	592

Avista Corp.
Power Supply Pro forma - Idaho Jurisdiction
System Numbers - Oct 2007 - Sep 2008 Actual and Jul 09 - Jun 10 Pro forma

Line No.	Oct 07 - Sep 08		Jul 09 - Jun 10	
	Actuals	Adjustment	Pro forma	
59	PGE Firm Wheeling	643	0	643
60	Total Account 565	14,165	4	14,169
536 WATER FOR POWER				
61	Headwater Benefits Payments	654	1	655
549 MISC OTHER GENERATION EXPENSE				
62	Rathdrum Municipal Payment	175	-15	160
63	TOTAL EXPENSE	436,825	-147,175	289,650
447 SALES FOR RESALE				
64	Modeled Short-Term Market Sales	0	53,641	53,641
65	Actual ST Market Sales - Physical	132,119	-119,617	12,502
66	Peaker (PGE) Capacity Sale	1,800	0	1,800
67	Nichols Pumping Sale	3,440	402	3,842
68	Sovereign/Kaiser DES	816	-755	61
69	Pend Oreille DES & Spinning	555	-165	390
70	Northwestern Load Following	5,225	-1,968	3,257
71	SMUD Sale	49,173	-43,331	5,842
72	Ancillary Services	670	-670	0
73	Spokane Energy Service Fee - Peaker Sale	-52	0	-52
74	BPA NT Deviation Energy	2,073	-2,073	0
75	Total Account 447	195,819	-114,536	81,283
456 OTHER ELECTRIC REVENUE				
76	Renewable Energy Credit Sales	13	-13	0
77	Gas Not Consumed Sales Revenue	41,799	-41,799	0
78	Total Account 456	41,812	-41,812	0
453 SALES OF WATER AND WATER POWER				
79	Upstream Storage Revenue	303	-1	302
454 MISC RENTS				
80	Colstrip Rents	57	-33	24
81	TOTAL REVENUE	237,991	-156,382	81,609
82	TOTAL NET EXPENSE	198,834	9,206	208,040
83	Potlatch Purchase Assigned to Idaho		18,439	
84	Total Adjustment Including Potlatch		27,645	

Avista Corp.
Brief Description of Power Supply Adjustments

Line No.

- 1 **Short-term Market Purchases** - Short-term purchases from the AURORA Dispatch Simulation Model.
- 2 **Actual ST Market Purchases Physical** – Expense of the actual term transactions entered into for the pro forma period as of 11-30-08.
- 3 **Actual ST Purchases – Financial M-to-M** – Mark to model price expense of actual financial (fixed for floating swaps) electricity purchases entered into for the pro forma period as of 11-30-08.
- 4 **Rocky Reach** - The proforma cost for Rocky Reach is based on Chelan PUD's budgeted expenses. Avista's costs are based on the Company's 2.9% share of total cost.
- 5 **Wanapum** - Proforma costs are based on Grant County PUD's Power Cost Forecast for Wanapum. Avista's costs are based on the Company's 8.2% share of total Wanapum costs for July 2009 through October 2009. The Wanapum contract expires October 31, 2009. Beginning November 2009 Wanapum becomes part of the Priest Rapids Project and Wanapum costs are included in the Priest Rapids Project costs for November 2009 through June 2010.
- 6 **Wells** - Wells' costs are based on the Company's 3.34% share of total cost at project costs plus 4.5% of Well's output purchased from the Colville Indian Tribe at a competitive auction rate.
- 7 **Priest Rapids Project** - Priest Rapids Project expense includes the expense related to the purchased power from the Priest Rapids development for the entire pro forma year and power from the Wanapum development for the months of November 2009 through June 2010.
- 8 **Grant Displacement** - Grant Displacement is scheduled energy from Grant PUD that is priced at Grant's cost.
- 9 **Douglas Settlement** – Douglas Settlement is for power Avista purchases from Douglas PUD per the 1989 Settlement Agreement.

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- 10 **WNP-3** - Pro forma costs are based on the amount of energy and the lesser of the actual rate or the midpoint. The pro forma uses the actual rate for contract year 2008 through 2009 escalated at the 5-year average escalation rate to the pro forma period.
- 11 **Deer Lake-IP&L** - Proforma expense is for power purchased from Inland Power to serve Avista customers.
- 12 **Small Power** - Proforma costs are based on an expected generation and proforma period contract rates. (Contract details are provided in a CONFIDENTIAL workpaper).
- 13 **Stimson** - This purchase is from the cogeneration plant at Plummer, Idaho. Pro forma costs are based on expected generation and proforma period contract rates.
- 14 **Spokane-Upriver** - Proforma expense is based on a purchase on the net of pumping (at the plant) generation at a rate equal to the 8 year levelized avoided cost included in the Company's 2003 Integrated Resource Plan.
- 15 **Douglas Exchange Capacity** - Proforma is \$0 because Avista bids annually for this capacity.
- 16 **Seattle Exchange Capacity** - Proforma is \$0 because contract terminates March 31, 2009.
- 17 **Black Creek Index Purchase** - Expense is for an October purchase at index prices less transmission expense and a margin.
- 18 **Non-Monetary** - Expense is normalized to \$0 in the proforma.
- 19 **Contract A** - This is a power purchase for the period January 2007 through December 2010 (Contract details are provided in a CONFIDENTIAL workpaper).
- 20 **Contract B** - This is a power purchase for the period January 2007 through December 2010 (Contract details are provided in a CONFIDENTIAL workpaper).
- 21 **Contract C** - This is a power purchase for the period January 2007 through December 2010 (Contract details are provided in a CONFIDENTIAL workpaper).

- 1 22 **Contract D** - This is a power purchase for the period January 2007 through
2 December 2010 (Contract details are provided in a CONFIDENTIAL workpaper).
3
4 23 **CS2 Exchange** – Proforma is \$0 because contract terminated Dec. 31, 2007.
5
6 24 **NorthWestern Load Following Deviation Energy** – Proforma expense is \$0
7 because deviation energy is priced at market and is not included In AURORA
8 model.
9
10 25 **BPA NT Deviation Energy** – Proforma expense is \$0 because deviation
11 energy is priced at market and is not included In AURORA model.
12
13 26 **Potlatch Co-Gen Purchase** - Pro forma expense is \$0 because Potlatch
14 purchase expense is directly assigned to the Idaho jurisdiction and is not
15 included in system power supply expense.
16
17 27 **Spinning Reserve Purchase**– Pro forma expense is for a purchase of spinning
18 reserves during the months of May and June that matches the test year
19 purchase expense.
20
21 28 **Ancillary Services** - Proforma expense is \$0 because this is an intra-utility
22 expense (matching revenue in Account 447).
23
24 29 **Stateline Wind Purchase** - Proforma expense is for a 10-year purchase from a
25 Northwest wind project. Expense is based on expected energy amount times
26 the contract rate. (Contract details are provided in a CONFIDENTIAL
27 workpaper).
28
29 30 **Total Account 555**
30
31 31 **Broker Commission Fees** – Proforma expense is associated with purchases
32 and sales of electricity and natural gas fuel.
33
34 32 **REC Purchases** – Expense is for the purchase of California certifiable
35 renewable Energy Credits to support the SMUD Sale.
36
37 33 **Bad Debt Reserve** – Expense was for power the Company delivered but no
38 revenue was received (Lehman bankruptcy). Pro forma expense is \$0.
39

- 1 34 **Natural Gas Fuel Purchases** – This is the expense for natural gas purchased
2 for but not consumed for generation. Proforma expense is \$0 because all gas
3 purchased is assumed to be used for generation, and included in Account 547.
4
- 5 35 **Total Account 557**
6
- 7 36 **Kettle Falls Wood Fuel Cost** - Proforma fuel expense is based on the
8 generation of the Kettle Falls plant in the AURORA Model and the projected
9 unit cost of fuel.
- 10
11 37 **Kettle Falls-Start-up Gas** – Pro forma expense is for start-up gas at Kettle
12 Falls and is based on the test-year expense.
13
- 14 38 **Colstrip Coal Cost** - Proforma fuel expense is based on the generation of the
15 Colstrip plant in the AURORA Model and the projected unit cost of fuel.
16
- 17 39 **Colstrip Oil** – Pro forma expense is for start-up oil expense. Pro forma is
18 based on a five year average.
19
- 20 40 **Total Account 501**
21
- 22 41 **Coyote Springs Gas** - Proforma expense is an output of the AURORA Model
23 based on the projected unit cost of fuel and the dispatch of the plant, which
24 determines the volume of fuel consumed.
25
- 26 42 **Actual Gas Purchases Financial M-to-M** - Mark to model price expense of
27 actual natural gas purchases entered into for the pro forma period as of 11-30-
28 08.
29
- 30 43 **Gas Transportation Charge** – This expense is for transportation of natural
31 gas from AECO to the Coyote Springs 2 plant. Proforma expense is based on
32 transportation charges in Canada and from the Canadian Border (Kingsgate)
33 and for the Coyote Springs lateral.
34
- 35 44 **Rathdrum Gas** - Proforma expense is an output of the AURORA Model
36 based on the projected unit cost of fuel and the dispatch of the plant, which
37 determines the volume of fuel consumed.
38
- 39 45 **Northeast CT Gas** – Proforma expense is an output of the AURORA Model
40 based on the projected unit cost of fuel and the dispatch of the plant (including
41 test firing), which determines the volume of fuel consumed.

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- 46 **Boulder Park Gas** – Proforma expense is an output of the AURORA Model based on the projected unit cost of fuel and the dispatch of the plant, which determines the volume of fuel consumed.
- 47 **Kettle Falls CT Gas** – Proforma expense is an output of the AURORA Model based on the projected unit cost of fuel and the dispatch of the plant, which determines the volume of fuel consumed.
- 48 **Total Account 547**
- 49 **WNP-3 Transmission** - Proforma WNP-3 wheeling is based on 32.22 MW at a rate of \$2.04/kW/mo.
- 50 **Sand Dunes-Warden** - Pro forma expense is for a transmission expense with Grant PUD.
- 51 **Black Creek Wheeling** – Expense is for wheeling and shaping associated with the Black Creek power purchase.
- 52 **Wheeling for System Sales and Purchases** – Proforma expense is short-term transmission purchases.
- 53 **PTP for Colstrip and Coyotes Springs 2**– This wheeling is for the transmission of 196 MW from Colstrip at the Garrison substation and 272 MW from the Coyote Springs 2 plant to Avista’s system. Proforma expense is based on 468 MW of capacity at a rate of \$1.501/kW/mo.
- 54 **BPA Townsend-Garrison Wheeling** – This expense is for the transmission of Colstrip power from the Townsend substation to the Garrison substation.
- 55 **Avista on BPA Borderline** – This expense is to serve Avista load off of BPA transmission. Proforma expense is based on Avista’s borderline loads priced at BPA’s NT transmission rates plus ancillary services cost and use of facilities charges.
- 56 **Kootenai for Worley** – This expense is for Avista load served using Kootenai PUD’s facilities.
- 57 **Sagle-Northern Lights** – Expense is for transmission purchased from Northern Light Utility to serve Avista customers in northern Idaho.

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58 **Garrison Burke** – Garrison Burke wheeling is an expense for the transmission of Colstrip energy above 196 MW from the Garrison substation over Northwestern Energy’s transmission system to the interconnection of Northwestern Energy and Avista.

59 **PGE Firm Wheeling** – PGE Firm wheeling reflects the cost of transmission from the John Day substation to COB (Intertie South) purchased from Portland General Electric. The Proforma expense is based on 100 MW at the current rate of \$.53549/kW/mo.

60 **Total Account 565**

61 **Headwater Benefits Expense** - Proforma expense is based on the expense for contract year September 2008 through August 2009

62 **Rathdrum Municipal Payment** – This includes a payment in Jan. 2010 of \$160,000 to the city of Rathdrum for mitigation related to the Rathdrum generating facility.

63 **Total Expenses** – Sum of Accounts 555, 557, 501, 547, 565, 536, and 549.

64 **Modeled Short-Term Market Sales** - Short-term market sales from the AURORA Model simulation.

65 **Actual ST Market Sales-Physical** – Revenue from the actual term transactions entered into for the pro forma period as of 11-30-08

66 **Peaker (PGE) Capacity Sale** – This proforma revenue is based on 150 MW of capacity at a price of \$1/kW/mo.

67 **Nichols Pumping Sale** – This is a sale of energy to other Colstrip Units 3 and 4 owners at the Mid Columbia index price. Proforma revenue is based on approximately 8 MW at the market price as determined by the AURORA model.

68 **Sovereign/Kaiser DES** – This contract provides load control services to Kaiser’s Trentwood plant. (Contract details are provided in a CONFIDENTIAL workpaper).

- 1 69 **Pend Oreille DES & Spinning Reserves** – This contract provides load
2 control and spinning reserves for Pend Oreille PUD. (Contract details are
3 provided in a CONFIDENTIAL workpaper).
4
- 5 70 **Northwestern Load Following** – This contract provides load following
6 capacity to Northwestern Energy. (Contract details are provided in a
7 CONFIDENTIAL workpaper).
8
- 9 71 **SMUD Sale** – Proforma revenue is the expected margin (margin only, not
10 including index priced energy) from the sale of energy and associated
11 renewable energy credits.
12
- 13 72 **Ancillary Services** - Proforma revenue is \$0 because it is intra-utility revenue
14 (matching expense in Account 555).
15
- 16 73 **Spokane Energy Service Fee – Peaker Sale** – Expense is for the scheduling of
17 the Peaker (Portland General) capacity sales.
18
- 19 74 **BPA NT Deviation Energy** – Proforma revenue is \$0 because deviation
20 energy is priced at index and is not included in the AURORA model.
21
- 22 75 **Total Account 447**
23
- 24 76 **Renewable energy Credit Sales** – Proforma revenue is \$0 because test year
25 revenue was for non-reoccurring renewable energy credit sales.
26
- 27 77 **Gas Not Consumed Sales Revenue** - This is the revenue for natural gas
28 purchased for but not consumed for generation. Proforma expense is \$0
29 because all gas purchased is assumed to be used for generation, and included
30 in Account 547.
31
- 32 78 **Total Account 456**
33
- 34 79 **Upstream Storage Revenue** – Proforma revenue is based on the revenue for
35 contract year September 2008 through August 2009.
36
- 37 80 **Colstrip Rents** – Proforma revenue is based on expected revenue.
38
- 39 81 **Total Revenue** – Sum of Accounts 447, 456, 453 and 454.
40
- 41 82 **Total Net Expense** – Total expense minus total revenue.
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83 **Potlatch Purchase Assigned to Idaho** – This line shows the Potlatch purchase adjustment. The Potlatch expense is directly assigned to Idaho and is not included in the pro forma system power supply expense. The Potlatch purchase expense is included in the adjustment in line 83 to show the total adjustment from test year actual expense (includes Potlatch) to the proforma.

84 **Total Adjustment Including Potlatch** – This is the total adjustment in power supply expense factoring in the Potlatch purchase expense directly assigned to Idaho.

Avista Corp
Pro forma July 2009 - June 2010
Idaho PCA Authorized Expense and Retail Sales

<u>PCA Authorized Power Supply Expense (1)</u>	<u>Jan-10</u>	<u>Feb-10</u>	<u>Mar-10</u>	<u>Apr-10</u>	<u>May-10</u>	<u>Jun-10</u>	<u>Jul-09</u>	<u>Aug-09</u>	<u>Sep-09</u>	<u>Oct-09</u>	<u>Nov-09</u>	<u>Dec-09</u>
Total	167,723,928	13,948,277	11,702,418	9,845,833	7,139,382	6,910,121	14,145,639	18,310,220	16,118,990	15,627,434	17,464,201	18,619,113
Account 555 - Purchased Power	29,405,998	3,017,261	7,225,071	1,874,718	1,046,433	1,082,076	2,766,555	2,794,785	2,705,872	2,782,303	2,705,856	2,769,442
Account 501 - Thermal Fuel	77,081,920	7,674,378	7,346,257	4,205,672	2,264,731	2,746,057	7,195,939	8,126,241	7,539,410	7,056,157	7,554,549	8,147,458
Account 547 - Natural Gas Fuel	81,283,939	3,572,539	5,615,647	6,284,541	6,904,594	8,097,153	14,555,753	7,300,966	7,463,249	4,680,365	6,420,266	6,813,022
Power Supply Expense	192,927,906	25,011,398	16,496,608	9,641,682	3,545,952	2,641,103	9,552,381	21,930,281	19,901,023	20,785,529	21,304,339	22,722,990
Transmission Expense	14,168,901	1,177,417	1,177,417	1,177,417	1,177,417	1,177,417	1,177,417	1,197,674	1,177,417	1,197,061	1,177,417	1,177,417
Transmission Revenue	9,478,694	691,030	637,319	710,607	811,018	1,144,180	1,060,504	894,674	729,456	749,649	712,323	642,930
Production Tax Credit (2)	-4,256,492	-437,445	-413,717	-109,875	-7,253	-7,253	-473,072	-477,166	-462,222	-477,316	-462,215	-477,742

PCA Authorized Idaho Retail Sales and Potlatch Generation

<u>Total</u>	<u>Jan-10</u>	<u>Feb-10</u>	<u>Mar-10</u>	<u>Apr-10</u>	<u>May-10</u>	<u>Jun-10</u>	<u>Jul-09</u>	<u>Aug-09</u>	<u>Sep-09</u>	<u>Oct-09</u>	<u>Nov-09</u>	<u>Dec-09</u>
Total Retail Sales, MWh	3,206,010	301,203	281,272	271,576	259,299	238,147	264,695	263,718	242,515	259,188	268,154	300,014
Potlatch Generation, MWh	429,616	39,699	35,305	37,463	34,306	33,091	34,505	36,761	27,148	35,755	42,576	41,333

1) Expenses related to the Lancaster plant are not included in Authorized Power Supply Expense. The Company has proposed that the actual Lancaster fixed costs be included in the PCA at 100% and the actual Lancaster variable expenses and revenues be included at the Company's proposed 95/5% Customer/Company PCA sharing.

2) This level of Production Tax Credit (PTC), grossed up to a revenue level of 65%, is included in base retail rates. The actual PTC will be included in actual expense each month in the PCA.