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BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION

IN THE MATTER OF THE APPLICATION)
OF AVISTA CORPORATION FOR THE) CASE NO. AVU-G-15-01
AUTHORITY TO INCREASE ITS RATES)
AND CHARGES FOR ELECTRIC AND)
NATURAL GAS SERVICE TO ELECTRIC) Exhibit No. 14
AND NATURAL GAS CUSTOMERS IN THE)
STATE OF IDAHO) JOSEPH D. MILLER
)

FOR AVISTA CORPORATION

(NATURAL GAS)

1 **NATURAL GAS COST OF SERVICE STUDY**

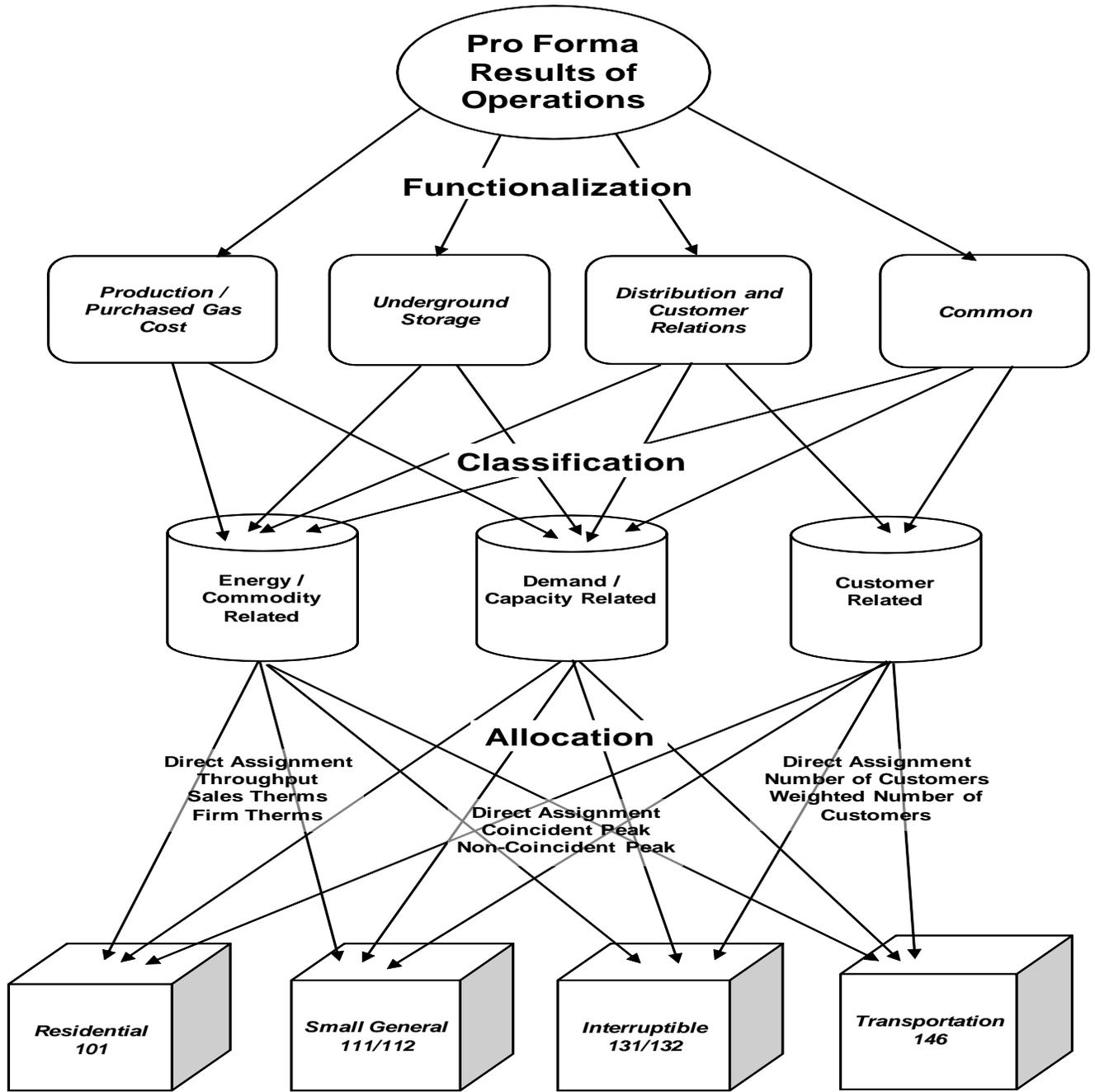
2 A cost of service study is an engineering-economic study, which apportions the revenue,
3 expenses, and rate base associated with providing natural gas service to designated groups of
4 customers. It indicates whether the revenue provided by customers recovers the cost to serve those
5 customers. The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

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

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

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

- 1 The final step is allocation of the costs to the various rate schedules utilizing the allocation
- 2 factors selected for each specific cost item. These factors are derived from usage and customer
- 3 information associated with the test period results of operations.



Pro Forma Results of Operations by Customer Group

1 **BASE CASE COST OF SERVICE STUDY**

2 **Production - Purchased Gas Costs**

3 The Company has no natural gas production facilities to serve its retail customers. In
4 addition, the revenue and expenses associated with the gas purchased to serve sales customers and
5 pipeline transportation to get it to our system have been removed from the Company's filing. The
6 natural gas costs included in the production function include the expenses of the gas supply
7 department.

8 The expenses of the gas supply department recorded in account 813 are classified as
9 commodity related costs. The gas scheduling process includes transportation customers, so
10 estimated scheduling dispatch labor expenses are allocated by throughput. The remaining gas
11 supply department expenses are allocated 95% by sales volumes and 5% on total throughput.

12 **Underground Storage**

13 Underground storage rate base, operating and maintenance expenses are classified as
14 commodity related and allocated to customer groups by winter throughput. This approach was
15 proposed by commission Staff and accepted by the Idaho Public Utilities Commission in Case No.
16 AVU-G-04-01.

17 **Distribution Facilities Classification (Peak and Average)**

18 Distribution mains and regulator station equipment (both general use and city gate stations)
19 are classified Demand and Commodity using the peak and average ratio for the distribution
20 system. Peak demand is defined as the average of the five-day sustained peaks from the most
21 recent three years. Average daily load is calculated by dividing annual throughput by 365 (days in
22 the year). The average daily load is divided by peak load to arrive at the system load factor of
23 44.92%. This proportion is classified as commodity related. The remaining 55.08% is classified
24 as demand related. Meters, services and industrial measuring & regulating equipment are

1 classified as customer related distribution plant. Distribution operating and maintenance expenses
2 are classified (and allocated) in relation to the plant accounts they are associated with.

3 **Customer Relations Distribution Cost Classification**

4 Customer service, customer information and sales expenses are the core of the customer
5 relations functional unit which is included with the distribution cost category. For the most part
6 these costs are classified as customer related. Exceptions include uncollectible accounts expense,
7 which is considered separately as a revenue conversion item, and any Demand Side Management
8 amortization expense recorded in Account 908. Any demand side management investment costs
9 and amortization expense included in base rates would be included with the distribution function
10 and classified to demand and commodity by the peak and average ratio. At this point in time, the
11 Company's demand side management investments in base rates have been fully amortized. All
12 current demand side management costs are managed through the Schedule 191 Energy Efficiency
13 Rider Adjustment balancing account which is not included in this cost study.

14 **Distribution Cost Allocation**

15 Demand related distribution costs are allocated to customer groups (rate schedules) by each
16 groups' contribution to the three year average five-day sustained peak. Commodity related
17 distribution costs are allocated to customer groups by annual throughput. Distribution main
18 investment has been segregated into large and small mains. Small mains are defined as less than
19 four inches, with large mains being four inches or greater. The small main costs use the same
20 demand and commodity data, but large usage customers (Schedules 131, 132, and 146) that
21 connect to large system mains have been excluded from the allocations.

22 Most customer related costs are allocated by the annualized number of customers billed
23 during the test period. Meter investment costs are allocated using the number of customers
24 weighted by the relative current cost of meters in service at December 31, 2014. Services

1 investment costs are allocated using the number of customers weighted by the relative current cost
2 of typical service installations. Industrial measuring and regulating equipment investment costs
3 are allocated by number of turbine meters which effectively excludes small usage customers.

4 **Administrative and General Costs**

5 General and intangible rate base items are allocated by the Company's 4-factor allocator.
6 Administrative and general expenses are segregated into plant related, labor related, revenue
7 related and other. The plant related items are allocated based on total plant in service. Labor
8 related items are allocated by operating and maintenance labor expense. Revenue related items are
9 allocated by pro forma revenue. Other administrative and general expenses are allocated by the
10 Company's 4-factor. Whenever costs are allocated by sums of other items within the study,
11 classifications are imputed from the relationship embedded in the summed items.

12 **Special Contract Customer Revenue**

13 Two special contract customers receive transportation service from the Company. Rates
14 for these customers were individually negotiated to cover any incremental costs together with
15 some contribution to margin. The rates for these customers are not being adjusted in this case.
16 The revenue from these special contract customers has been segregated from general rate revenue
17 and allocated back to all the other rate classes by relative rate base. In treating these revenues like
18 other operating revenues their system contribution reduces costs for all rate schedules.

19 **Revenue Conversion Items**

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

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

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

IPUC Case No. AVU-G-15-01 Methodology Matrix
 Avista Utilities Idaho Jurisdiction
 Natural Gas Cost of Service Methodology

Line Account	Functional Category	Classification	Allocation
Underground Storage Plant			
1 350 - 357 Underground Storage	Underground Storage	Commodity	E08 Winter throughput
Distribution Plant			
2 374 Land	Distribution	Demand/Commodity/Customer from Other Dist Plant	S05 Sum of accounts 376-385
3 375 Structures	Distribution	Demand/Commodity/Customer from Other Dist Plant	S05 Sum of accounts 376-385
4 376(S) Small Mains	Distribution	Demand/Commodity by Peak & Average	D02/E06 Coincident peak, annual therms (both excl lg use cust)
5 376(L) Large Mains	Distribution	Demand/Commodity by Peak & Average	D01/E01 Coincident peak (all), annual throughput (all)
6 378 M&R General	Distribution	Demand/Commodity by Peak & Average	D01/E01 Coincident peak (all), annual throughput (all)
7 379 M&R City Gate	Distribution	Demand/Commodity by Peak & Average	D01/E01 Coincident peak (all), annual throughput (all)
8 380 Services	Distribution	Customer	C02, Customers weighted by current typical service cost
9 381 Meters	Distribution	Customer	C03, Customers weighted by average current meter cost
10 385 Industrial M&R	Distribution	Customer	C06, Large use customers
11 387 Other	Distribution	Demand/Commodity/Customer from Other Dist Plant	S05 Sum of accounts 376-385
General Plant			
12 389-399 All General Plant	Common	Demand/Commodity/Customer	4-Factor (O&M less resource & labor, O&M labor, net direct plant, & customers)
Intangible Plant			
13 303 Misc Intangible Plant	Distribution	Demand/Commodity/Customer from Dist Plant	S15 Sum of Distribution Plant in Service
14 303 Computer Software	Common	Demand/Commodity/Customer	4-Factor (O&M less resource & labor, O&M labor, net direct plant, & customers)
Reserve for Depreciation			
15 Underground Storage	Underground Storage	Commodity same as related plant	Allocations linked to related plant accounts
16 Distribution	Distribution	Demand/Commodity/Customer same as related plant	Allocations linked to related plant accounts
17 General	Common	Demand/Commodity/Customer same as related plant	Allocations linked to related plant accounts
18 Intangible	Distribution/Common	Demand/Commodity/Customer same as related plant	Allocations linked to related plant accounts
Other Rate Base			
19 Accumulated Deferred FIT	All	Demand/Commodity/Customer from Plant in Service	S17 Sum of Total Plant in Service
20 Constuction Advances	Distribution	Customer	C10 Residential only
21 Gas Inventory	Underground Storage	Commodity from Underground Storage Plant	S14 Sum of Underground Storage Plant in Service
22 Gain on Sale of Office Bldg	Common	Demand/Commodity/Customer from UG & D Plant	S03 Sum of Underground Storage and Distribution Plant in Service
23 DSM Investment	Distribution	Demand/Commodity by Peak & Average	D01/E01 Coincident peak (all), annual throughput (all)
Purchased Gas Expenses			
24 804 Purchased Gas Cost	Production	Removed all Purchased Gas Costs from Filing	N/A
25 813 Other Gas Expenses	Production	Commodity	E01/E04 Annual Throughput / Annual Sales Therms
Underground Storage O&M			
26 814 - 837 Underground Storage Exp	Underground Storage	Commodity	E08 Winter throughput

IPUC Case No. AVU-G-15-01 Methodology Matrix
 Avista Utilities Idaho Jurisdiction
 Natural Gas Cost of Service Methodology

Line Account	Functional Category	Classification	Allocation
Distribution O&M			
1 870 OP Super & Engineering	Distribution	Demand/Commodity/Customer from Dist Plant	S15 Sum of Distribution Plant in Service
2 871 Load Dispatching	Distribution	Commodity	E01 Annual throughput
3 874 Mains & Services	Distribution	Demand/Commodity/Customer from related plant	S06 Sum of Mains and Services Plant in Service
4 875 M&R Station - General	Distribution	Demand/Commodity from related plant	S08 Sum of Meas & Reg Station - General Plant in Service
5 876 M&R Station - Industrial	Distribution	Customer from related plant	S19 Sum of Meas & Reg Station - Industrial Plant in Service
6 877 M&R Station - City Gate	Distribution	Demand/Commodity from related plant	S09 Sum of Meas & Reg Station - City Gate Plant in Service
7 878 Meter & House Regulator	Distribution	Customer from related plant	S07 Sum of Meter and Installation Plant in Service
8 879 Customer Installations	Distribution	Customer	C05, Customers weighted by average current meter cost
9 880 Other OP Expenses	Distribution	Demand/Commodity/Customer from other dist expense:	S04 Sum of Accounts 870 - 879 and 881 - 894
10 881 Rents	Distribution	Demand/Commodity/Customer from other dist expense:	S04 Sum of Accounts 870 - 879 and 881 - 894
11 885 MT Super & Engineering	Distribution	Demand/Commodity/Customer from Dist Plant	S15 Sum of Distribution Plant in Service
12 886 MT of Structures	Distribution	Demand/Commodity/Customer from Other Dist Plant	S05 Sum of accounts 376-385
13 887 MT of Mains	Distribution	Demand/Commodity from related plant	S21 Sum of Distribution Mains Plant in Service
14 889 MT of M&R General	Distribution	Demand/Commodity from related plant	S08 Sum of Meas & Reg Station - General Plant in Service
15 890 MT of M&R Industrial	Distribution	Customer from related plant	S19 Sum of Meas & Reg Station - Industrial Plant in Service
16 891 MT of M&R City Gate	Distribution	Demand/Commodity from related plant	S09 Sum of Meas & Reg Station - City Gate Plant in Service
17 892 MT of Services	Distribution	Customer from related plant	S20 Sum of Services Plant in Services
18 893 MT of Meters & Hs Reg	Distribution	Customer from related plant	S07 Sum of Meter and Installation Plant in Service
19 894 MT of Other Equipment	Distribution	Demand/Commodity/Customer from Dist Plant	S15 Sum of Distribution Plant in Service
Customer Accounting Expenses			
20 901 Supervision	Customer Relations	Customer	C01 All customers (unweighted)
21 902 Meter Reading	Customer Relations	Customer	C01 All customers (unweighted)
22 903 Customer Records & Collections	Customer Relations	Customer	C01 All customers (unweighted)
23 904 Uncollectible Accounts	Revenue Conversion	Revenue	R03 Retail Sales Revenue
24 905 Misc Cust Accounts	Customer Relations	Customer	C01 All customers (unweighted)
Customer Service & Info Expenses			
25 907 Supervision	Customer Relations	Customer	C01 All customers (unweighted)
26 908 Customer Assistance	Customer Relations	Customer	C01 All customers (unweighted)
27 908 DSM Amortization	Distribution	Demand/Commodity by Peak & Average	D01/E01 Coincident peak (all), annual throughput (all)
28 909 Advertising	Customer Relations	Customer	C01 All customers (unweighted)
29 910 Misc Cust Service & Info	Customer Relations	Customer	C01 All customers (unweighted)
Sales Expenses			
30 911 - 916 Sales Expenses	Customer Relations	Customer	C01 All customers (unweighted)

IPUC Case No. AVU-G-15-01 Methodology Matrix
 Avista Utilities Idaho Jurisdiction
 Natural Gas Cost of Service Methodology

Line Account	Functional Category	Classification	Allocation
Admin & General Expenses			
1 920 Salaries	Common	Demand/Commodity/Customer from Other O&M	4-Factor (O&M less resource & labor, O&M labor, net direct plant, & customers)
2 921 Office Supplies	Common	Demand/Commodity/Customer from Other O&M	4-Factor (O&M less resource & labor, O&M labor, net direct plant, & customers)
3 922 Admin Expense Transferred - Credit	Common	Demand/Commodity/Customer from Other O&M	4-Factor (O&M less resource & labor, O&M labor, net direct plant, & customers)
4 923 Outside Services	Common	Demand/Commodity/Customer from Other O&M	4-Factor (O&M less resource & labor, O&M labor, net direct plant, & customers)
5 924 Property Insurance	Common	Demand/Commodity/Customer from Plant in Service	S17 Sum of Total Plant in Service
6 925 Injuries & Damages	Common	Demand/Commodity/Customer from Other O&M	4-Factor (O&M less resource & labor, O&M labor, net direct plant, & customers)
7 926 Pensions & Benefits	Common	Demand/Commodity/Customer from Labpr O&M	S13 O&M Labor Expense
8 927 Franchise Requirements	Common	Demand/Commodity/Customer from Other O&M	4-Factor (O&M less resource & labor, O&M labor, net direct plant, & customers)
9 928 Regulatory Commission	Common	Demand/Commodity/Customer from Other O&M	4-Factor (O&M less resource & labor, O&M labor, net direct plant, & customers)
10 928 Commission Fees	Revenue Conversion	Revenue	R01 Retail Sales Revenue
11 930 Miscellaneous General	Common	Demand/Commodity/Customer from Other O&M	4-Factor (O&M less resource & labor, O&M labor, net direct plant, & customers)
12 931 Rents	Common	Demand/Commodity/Customer from Other O&M	4-Factor (O&M less resource & labor, O&M labor, net direct plant, & customers)
13 935 MT of General Plant	Common	Demand/Commodity/Customer from Plant in Service	S17 Sum of Total Plant in Service
Depreciation Expense			
14 Underground Storage	Underground Storage	Commodity same as related plant	Allocations linked to related plant accounts
15 Distribution	Distribution	Demand/Commodity/Customer same as related plant	Allocations linked to related plant accounts
16 General	Common	Demand/Commodity/Customer same as related plant	Allocations linked to related plant accounts
17 Intangible	Distribution/Common	Demand/Commodity/Customer same as related plant	Allocations linked to related plant accounts
Taxes			
18 Property Tax	All	Demand/Commodity/Customer from related plant	S14/S15/S16 Sum of UG Plant/Sum of Dist Plant/Sum of Gen Plant
19 Miscellaneous Dist Tax	Distribution	Demand/Commodity/Customer from Dist Plant	S15 Sum of Distribution Plant in Service
20 State Income Tax	Revenue Conversion	Revenue	R02 Net Income before Taxes less Interest Expense
21 Federal Income Tax	Revenue Conversion	Revenue	R02 Net Income before Taxes less Interest Expense
22 Deferred FIT	Revenue Conversion	Revenue	R02 Net Income before Taxes less Interest Expense
23 ITC	Revenue Conversion	Revenue	R02 Net Income before Taxes less Interest Expense
Operating Revenues			
24 Revenue from Rates	Revenue	Revenue	Pro Forma Revenue per Revenue Study
25 Special Contract Revenue	All	Demand/Commodity/Customer from Rate Base	S01 Sum of Rate Base
26 Off System Sales	Production	Commodity from PGA Tracker	E04 Sales Therms
27 Miscellaneous Service Revenue	Distribution	Demand/Commodity/Customer from Dist Plant	S15 Sum of Distribution Plant in Service
28 Rent From Gas Property	All	Demand/Commodity/Customer from Rate Base	S01 Sum of Rate Base
29 Other Gas Revenue	Underground Storage	Commodity from Underground Storage Plant	S14 Sum of Underground Storage Plant in Service

AVISTA UTILITIES
 Cost of Service General Summary
 For the Year Ended December 31, 2014

Natural Gas Utility
 Idaho Jurisdiction

Line Description	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)
					System Total	Residential Service Sch 101	Large Firm Service Sch 111	Interrupt Service Sch 131	Transport Service Sch 146
Plant In Service									
1 Production Plant									
2 Underground Storage Plant					11,020,000	8,033,154	2,716,189	34,278	236,379
3 Distribution Plant					185,053,000	151,801,662	31,358,997	401,267	1,491,074
4 Intangible Plant					4,645,000	4,063,089	545,334	6,149	30,428
5 General Plant					28,535,000	25,186,558	3,133,521	34,261	180,659
6 Total Plant In Service					229,253,000	189,084,463	37,754,041	475,956	1,938,540
Accum Depreciation									
7 Production Plant									
8 Underground Storage Plant					(4,263,000)	(3,107,562)	(1,050,736)	(13,260)	(91,441)
9 Distribution Plant					(64,859,000)	(54,366,703)	(9,894,452)	(125,986)	(471,859)
10 Intangible Plant					(1,885,000)	(1,663,805)	(206,998)	(2,263)	(11,934)
11 General Plant					(8,192,000)	(7,230,709)	(899,590)	(9,836)	(51,865)
12 Total Accumulated Depreciation					(79,199,000)	(66,368,779)	(12,051,776)	(151,346)	(627,099)
13 Net Plant					150,054,000	122,715,684	25,702,265	324,610	1,311,441
14 Accumulated Deferred FIT					(32,216,000)	(26,571,277)	(5,305,423)	(66,884)	(272,415)
15 Miscellaneous Rate Base					9,660,000	7,373,459	2,098,858	26,480	161,203
16 Total Rate Base					127,498,000	103,517,866	22,495,700	284,206	1,200,229
17 Revenue From Retail Rates					36,173,000	29,139,824	6,625,127	67,596	340,452
18 Other Operating Revenues					222,000	180,330	39,100	494	2,076
19 Total Revenues					36,395,000	29,320,154	6,664,227	68,091	342,529
Operating Expenses									
20 Purchased Gas Costs					335,000	234,497	96,586	1,391	2,527
21 Underground Storage Expenses					368,000	268,258	90,704	1,145	7,894
22 Distribution Expenses					6,043,000	5,082,658	884,970	8,880	66,492
23 Customer Accounting Expenses					2,228,000	2,165,164	61,228	266	1,341
24 Customer Information Expenses					365,000	358,404	6,567	5	24
25 Sales Expenses					(0)	(0)	(0)	(0)	(0)
26 Admin & General Expenses					5,621,000	4,902,434	672,916	7,589	38,061
27 Total O&M Expenses					14,960,000	13,011,415	1,812,972	19,276	116,337
28 Taxes Other Than Income Taxes					1,937,000	1,580,453	335,406	4,288	16,853
29 Depreciation Expense									
30 Underground Storage Plant Depr					182,000	132,671	44,859	566	3,904
31 Distribution Plant Depreciation					4,628,000	3,801,615	779,647	9,911	36,826
32 General Plant Depreciation					1,987,000	1,753,835	218,199	2,386	12,580
33 Amortization of Intangible Plant					1,113,000	907,465	193,283	2,471	9,781
34 Total Depr & Amort Expense					7,910,000	6,595,586	1,235,989	15,334	63,091
35 Income Tax					3,843,000	2,521,115	1,258,113	10,145	53,627
36 Total Operating Expenses					28,650,000	23,708,570	4,642,479	49,043	249,908
37 Net Income					7,745,000	5,611,584	2,021,748	19,048	92,620
38 Rate of Return					6.07%	5.42%	8.99%	6.70%	7.72%
39 Return Ratio					1.00	0.89	1.48	1.10	1.27
40 Interest Expense					3,404,000	2,763,767	600,601	7,588	32,044

AVISTA UTILITIES
 Summary by Function with Margin Analysis
 For the Year Ended December 31, 2014

Natural Gas Utility
 Idaho Jurisdiction

Line Description	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)
					System Total	Residential Service Sch 101	Large Firm Service Sch 111	Interrupt Service Sch 131	Transport Service Sch 146
Functional Cost Components at Current Rates									
1 Production					337,031	235,918	97,171	1,399	2,542
2 Underground Storage					1,719,472	1,107,975	562,773	5,581	43,144
3 Distribution					23,628,251	18,839,423	4,525,714	45,395	217,719
4 Common					10,488,246	8,956,508	1,439,469	15,221	77,048
5 Total Current Rate Revenue					36,173,000	29,139,824	6,625,127	67,596	340,452
6 Exclude Cost of Gas w / Revenue Exp.					0	0	0	0	0
7 Total Margin Revenue at Current Rates					36,173,000	29,139,824	6,625,127	67,596	340,452
Margin per Therm at Current Rates									
8 Production					\$0.00413	\$0.00423	\$0.00423	\$0.00423	\$0.00094
9 Underground Storage					\$0.02105	\$0.01989	\$0.02452	\$0.01689	\$0.01593
10 Distribution					\$0.28921	\$0.33815	\$0.19722	\$0.13740	\$0.08041
11 Common					\$0.12838	\$0.16076	\$0.06273	\$0.04607	\$0.02846
12 Total Current Margin Melded Rate per Therm					\$0.44275	\$0.52303	\$0.28870	\$0.20459	\$0.12574
Functional Cost Components at Uniform Current Return									
13 Production					337,031	235,918	97,171	1,399	2,542
14 Underground Storage					1,659,853	1,209,969	409,118	5,163	35,604
15 Distribution					23,602,001	19,789,048	3,577,829	42,775	192,349
16 Common					10,574,115	9,188,426	1,298,242	14,877	72,571
17 Total Uniform Current Cost					36,173,000	30,423,361	5,382,359	64,214	303,066
18 Exclude Cost of Gas w / Revenue Exp.					0	0	0	0	0
19 Total Uniform Current Margin					36,173,000	30,423,361	5,382,359	64,214	303,066
Margin per Therm at Uniform Current Return									
20 Production					\$0.00413	\$0.00423	\$0.00423	\$0.00423	\$0.00094
21 Underground Storage					\$0.02032	\$0.02172	\$0.01783	\$0.01563	\$0.01315
22 Distribution					\$0.28889	\$0.35519	\$0.15591	\$0.12947	\$0.07104
23 Common					\$0.12943	\$0.16492	\$0.05657	\$0.04503	\$0.02680
24 Total Current Uniform Margin Melded Rate per Therm					\$0.44275	\$0.54606	\$0.23455	\$0.19435	\$0.11193
25 Margin to Cost Ratio at Current Rates					1.00	0.96	1.23	1.05	1.12
Functional Cost Components at Proposed Rates									
26 Production					337,028	235,917	97,171	1,399	2,542
27 Underground Storage					1,991,177	1,335,243	601,840	6,379	47,715
28 Distribution					26,005,559	20,955,352	4,766,705	50,404	233,098
29 Common					11,044,236	9,473,226	1,475,369	15,879	79,762
30 Total Proposed Rate Revenue					39,378,000	31,999,738	6,941,084	74,061	363,116
31 Exclude Cost of Gas w / Revenue Exp.					0	0	0	0	0
32 Total Margin Revenue at Proposed Rates					39,378,000	31,999,738	6,941,084	74,061	363,116
Margin per Therm at Proposed Rates									
33 Production					\$0.00413	\$0.00423	\$0.00423	\$0.00423	\$0.00094
34 Underground Storage					\$0.02437	\$0.02397	\$0.02623	\$0.01931	\$0.01762
35 Distribution					\$0.31831	\$0.37612	\$0.20772	\$0.15256	\$0.08609
36 Common					\$0.13518	\$0.17003	\$0.06429	\$0.04806	\$0.02946
37 Total Proposed Margin Melded Rate per Therm					\$0.48198	\$0.57436	\$0.30247	\$0.22416	\$0.13411
Functional Cost Components at Uniform Proposed Return									
38 Production					337,028	235,917	97,171	1,399	2,542
39 Underground Storage					1,943,529	1,416,758	479,037	6,045	41,689
40 Distribution					25,984,580	21,714,298	4,009,149	48,310	212,823
41 Common					11,112,863	9,658,576	1,362,499	15,604	76,184
42 Total Uniform Proposed Cost					39,378,000	33,025,548	5,947,856	71,358	333,237
43 Exclude Cost of Gas w / Revenue Exp.					0	0	0	0	0
44 Total Uniform Proposed Margin					39,378,000	33,025,548	5,947,856	71,358	333,237
Margin per Therm at Uniform Proposed Return									
45 Production					\$0.00413	\$0.00423	\$0.00423	\$0.00423	\$0.00094
46 Underground Storage					\$0.02379	\$0.02543	\$0.02088	\$0.01830	\$0.01540
47 Distribution					\$0.31805	\$0.38975	\$0.17471	\$0.14622	\$0.07860
48 Common					\$0.13602	\$0.17336	\$0.05937	\$0.04723	\$0.02814
49 Total Proposed Uniform Margin Melded Rate per Therm					\$0.48198	\$0.59277	\$0.25919	\$0.21598	\$0.12307
50 Margin to Cost Ratio at Proposed Rates					1.00	0.97	1.17	1.04	1.09
51 Current Margin to Proposed Cost Ratio					0.92	0.88	1.11	0.95	1.02

AVISTA UTILITIES Natural Gas Utility
 Company Base Case Summary by Classification with Unit Cost Analysis Idaho Jurisdiction
 For the Year Ended December 31, 2014

Line	Description	(b)	(c)	(d)	(e)	(f) System Total	(g) Residential Service Sch 101	(h) Large Firm Service Sch 111	(j) Interrupt Service Sch 131	(k) Transport Service Sch 146
Cost by Classification at Current Return by Schedule										
1	Commodity					9,175,533	5,898,602	3,078,548	36,446	161,936
2	Demand					7,929,786	5,498,834	2,314,276	29,739	86,937
3	Customer					19,067,681	17,742,388	1,232,303	1,411	91,579
4	Total Current Rate Revenue					36,173,000	29,139,824	6,625,127	67,596	340,452
Revenue per Therm at Current Rates										
5	Commodity					\$0.11231	\$0.10587	\$0.13415	\$0.11031	\$0.05981
6	Demand					\$0.09706	\$0.09870	\$0.10085	\$0.09001	\$0.03211
7	Customer					\$0.23339	\$0.31845	\$0.05370	\$0.00427	\$0.03382
8	Total Revenue per Therm at Current Rates					\$0.44275	\$0.52303	\$0.28870	\$0.20459	\$0.12574
Cost per Unit at Current Rates										
9	Commodity Cost per Therm					\$0.11231	\$0.10587	\$0.13415	\$0.11031	\$0.05981
10	Demand Cost per Peak Day Therms					\$15.91	\$14.92	\$19.64	\$17.04	\$8.60
11	Customer Cost per Customer per Month					\$20.61	\$19.53	\$74.03	\$117.59	\$1,526.32
Cost by Classification at Uniform Current Return										
12	Commodity					8,893,485	6,252,044	2,465,664	34,608	141,170
13	Demand					7,782,498	5,817,937	1,859,788	28,251	76,522
14	Customer					19,497,016	18,353,381	1,056,908	1,355	85,373
15	Total Uniform Current Cost					36,173,000	30,423,361	5,382,359	64,214	303,066
Cost per Therm at Current Return										
16	Commodity					\$0.10886	\$0.11222	\$0.10745	\$0.10475	\$0.05214
17	Demand					\$0.09526	\$0.10443	\$0.08104	\$0.08551	\$0.02826
18	Customer					\$0.23864	\$0.32942	\$0.04606	\$0.00410	\$0.03153
19	Total Cost per Therm at Current Return					\$0.44275	\$0.54606	\$0.23455	\$0.19435	\$0.11193
Cost per Unit at Uniform Current Return										
20	Commodity Cost per Therm					\$0.10886	\$0.11222	\$0.10745	\$0.10475	\$0.05214
21	Demand Cost per Peak Day Therms					\$15.62	\$15.78	\$15.78	\$16.19	\$7.57
22	Customer Cost per Customer per Month					\$21.07	\$20.20	\$63.49	\$112.89	\$1,422.89
23	Revenue to Cost Ratio at Current Rates					1.00	0.96	1.23	1.05	1.12
Cost by Classification at Proposed Return by Schedule										
24	Commodity					10,134,992	6,686,140	3,234,367	39,960	174,525
25	Demand					8,765,515	6,209,858	2,429,824	32,583	93,250
26	Customer					20,477,493	19,103,740	1,276,893	1,519	95,341
27	Total Proposed Rate Revenue					39,378,000	31,999,738	6,941,084	74,061	363,116
Revenue per Therm at Proposed Rates										
28	Commodity					\$0.12405	\$0.12001	\$0.14094	\$0.12095	\$0.06446
29	Demand					\$0.10729	\$0.11146	\$0.10588	\$0.09862	\$0.03444
30	Customer					\$0.25064	\$0.34289	\$0.05564	\$0.00460	\$0.03521
31	Total Revenue per Therm at Proposed Rates					\$0.48198	\$0.57436	\$0.30247	\$0.22416	\$0.13411
Cost per Unit at Proposed Rates										
32	Commodity Cost per Therm					\$0.12405	\$0.12001	\$0.14094	\$0.12095	\$0.06446
33	Demand Cost per Peak Day Therms					\$17.59	\$16.85	\$20.62	\$18.67	\$9.23
34	Customer Cost per Customer per Month					\$22.13	\$21.03	\$76.70	\$126.59	\$1,589.01
Cost by Classification at Uniform Proposed Return										
35	Commodity					9,909,578	6,968,613	2,744,546	38,491	157,929
36	Demand					8,647,802	6,464,886	2,066,595	31,393	84,927
37	Customer					20,820,620	19,592,049	1,136,715	1,474	90,381
38	Total Uniform Proposed Cost					39,378,000	33,025,548	5,947,856	71,358	333,237
Cost per Therm at Proposed Return										
39	Commodity					\$0.12129	\$0.12508	\$0.11960	\$0.11650	\$0.05833
40	Demand					\$0.10585	\$0.11604	\$0.09006	\$0.09502	\$0.03137
41	Customer					\$0.25484	\$0.35165	\$0.04953	\$0.00446	\$0.03338
42	Total Cost per Therm at Proposed Return					\$0.48198	\$0.59277	\$0.25919	\$0.21598	\$0.12307
Cost per Unit at Uniform Proposed Return										
43	Commodity Cost per Therm					\$0.12129	\$0.12508	\$0.11960	\$0.11650	\$0.05833
44	Demand Cost per Peak Day Therms					\$17.35	\$17.54	\$17.54	\$17.99	\$8.41
45	Customer Cost per Customer per Month					\$22.50	\$21.57	\$68.28	\$122.83	\$1,506.35
46	Revenue to Cost Ratio at Proposed Rates					1.00	0.97	1.17	1.04	1.09
47	Current Revenue to Proposed Cost Ratio					0.92	0.88	1.11	0.95	1.02

Company Base Case AVISTA UTILITIES Natural Gas Utility
Customer Cost Analysis Idaho Jurisdiction
For the Year Ended December 31, 2014

Line	Description	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(k)
						System Total	Residential Service Sch 101	Large Firm Service Sch 111	Interrupt Service Sch 131	Transport Service Sch 146
Meter, Services, Meter Reading & Billing Costs by Schedule at Requested Rate of Return										
Rate Base										
1	Services					57,836,000	\$ 56,620,726	\$ 1,162,029	\$ 2,528	\$ 50,717
2	Services Accum. Depr.					(26,039,000)	\$ (25,491,858)	\$ (523,170)	\$ (1,138)	\$ (22,834)
3	Total Services					31,797,000	31,128,868	638,859	1,390	27,883
4	Meters					24,149,000	\$ 21,016,940	\$ 3,036,231	\$ 5,000	\$ 90,828
5	Meters Accum. Depr.					(6,476,000)	\$ (5,636,080)	\$ (814,221)	\$ (1,341)	\$ (24,357)
6	Total Meters					17,673,000	15,380,860	2,222,010	3,659	66,471
7	Total Rate Base					49,470,000	46,509,728	2,860,869	5,049	94,354
8	Return on Rate Base @ 7.62%					3,769,614	3,544,041	217,998	385	7,190
9	Tax Benefit of Interest Expense					(462,297)	(434,633)	(26,735)	(47)	(882)
10	Revenue Conversion Factor					0.61459	0.61459	0.61459	0.61459	0.61459
11	Rate Base Revenue Requirement					5,381,339	5,059,321	311,205	549	10,264
Expenses										
12	Services Depr Exp					1,416,000	\$ 1,386,246	\$ 28,450	\$ 62	\$ 1,242
13	Meters Depr Exp					675,000	\$ 587,454	\$ 84,867	\$ 140	\$ 2,539
14	Services Maintenance Exp					874,999	\$ 856,614	\$ 17,580	\$ 38	\$ 767
15	Meters Maintenance Exp					769,999	\$ 670,133	\$ 96,811	\$ 159	\$ 2,896
16	Meter Reading					201,001	\$ 197,368	\$ 3,617	\$ 3	\$ 13
17	Billing					1,779,999	\$ 1,747,834	\$ 32,027	\$ 23	\$ 115
18	Total Expenses					5,716,998	5,445,649	263,352	425	7,572
19	Revenue Conversion Factor					0.994222	0.994222	0.994222	0.994222	0.994222
20	Expense Revenue Requirement					5,750,223	5,477,297	264,882	427	7,616
21	Total Meter, Service, Meter Reading, and					11,131,561	10,536,617	576,087	977	17,880
22	Total Customer Bills					925,202	908,483	16,647	12	60
23	Average Unit Cost per Month					\$12.03	\$11.60	\$34.61	\$81.39	\$298.00
Fixed Costs per Customer										
24	Total Customer Related Cost					20,820,620	19,592,049	1,136,715	1,474	90,381
25	Customer Related Unit Cost per Month					\$22.50	\$21.57	\$68.28	\$122.83	\$1,506.35
26	Other Non-Gas Costs					18,557,380	13,433,499	4,811,141	69,884	242,856
27	Other Non-Gas Unit Cost per Month					\$20.06	\$14.79	\$289.01	\$5,823.68	\$4,047.60
28	Total Fixed Unit Cost per Month					\$42.56	\$36.35	\$357.29	\$5,946.51	\$5,553.95