	Exhibit No	_ (JDM-2)
BEFORE THE WASHINGTON UTILITIES AND TRANSPORTA	TION COMMIS	SSION
DOCKET NO. UG-15		
EXHIBIT NO(JDM-2)		
JOSEPH D. MILLER		
REPRESENTING AVISTA CORPORATION	1	

NATURAL GAS COST OF SERVICE STUDY

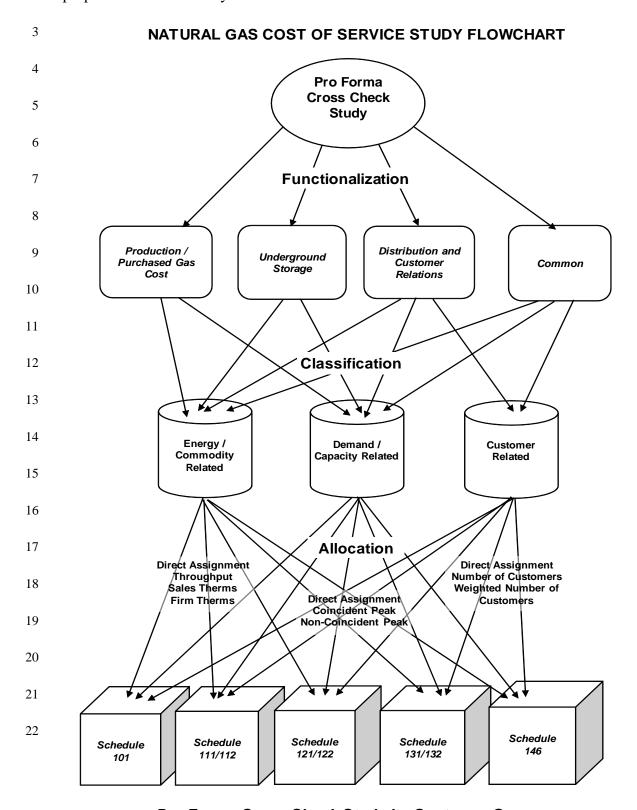
A cost of service study is an engineering-economic study, which apportions the revenue, expenses, and rate base associated with providing natural gas service to designated groups of customers. It indicates whether the revenue provided by the customer group recovers the cost to serve those customers.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

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

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

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

these three cost components, any revenue related expense is allocated based on the proportion of revenues by rate schedule.



Pro Forma Cross Check Study by Customer Group

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

BASE CASE COST OF SERVICE STUDY

Production - Purchased Natural Gas Costs

The Company owns no natural gas production facilities serving the Washington jurisdiction. The natural gas costs included in the production function include the cost of natural gas purchased to serve sales customers, pipeline transportation to get it to our system, and expenses of the natural gas supply department.

The demand and commodity components of Account 804 have been determined directly from the weighted average cost of gas (WACOG) approved in the most recent purchased gas adjustment (PGA) filing effective November 1, 2014. The allocation of the commodity portion of pro forma natural gas cost agrees with the WACOG based computation of commodity-related natural gas costs. Likewise, the allocation of the demand portion of pro forma natural gas cost agrees with the WACOG based computation of demand-related natural gas costs.

The expenses of the natural gas supply department recorded in Account 813 are classified as commodity related costs. The natural gas scheduling dispatch process includes transportation customers, so estimated scheduling dispatch labor expenses are allocated by throughput. The remaining natural gas supply department expenses are allocated by sales volumes. Gas research contributions have been assigned to sales schedules by test period sales volumes weighted by the GTI Voluntary Collection rates currently used to determine the contributions.

Underground Storage

Underground storage rate base, operating and maintenance expenses are classified as commodity related. Thirteen percent of underground storage costs are allocated to customer groups by annual throughput, the remaining eighty-seven percent are allocated by sales therms.

Distribution Facilities Classification (Peak and Average)

Distribution mains and regulator station equipment (both general use and city gate stations) are classified as demand and commodity related using the peak and average ratio for the distribution system. Peak demand is defined as the average of the five-day sustained peaks from the most recent three years. Average daily load is calculated by dividing annual throughput by 365 (days in the year). The average daily load is divided by peak load to arrive at the system load factor of 39.79%. This proportion is classified as commodity related. The remaining 60.21% is classified as demand related. Meters, services and industrial measuring & regulating equipment are classified as customer related distribution plant. Distribution operating and maintenance expenses are classified (and allocated) in relation to the plant accounts they are associated with.

Customer Relations Distribution Cost Classification

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

Distribution Cost Allocation

Demand related distribution costs are allocated to customer groups (rate schedules) by each group's contribution to the three year average five-day sustained peak. Commodity related distribution costs are allocated to customer groups by annual throughput. The throughput allocation for distribution main investment has been segregated into small, medium and large mains. Small mains are defined as less than two inches, medium mains are 2 and 3 inches, and large mains are four inches or greater. Large usage customers (Schedules 131/132 and 146) receive zero allocation of small main and a 33.3% of medium main.

Most customer related costs are allocated by the annualized number of customers billed during the test period. Meter investment costs are allocated using the number of customers weighted by the relative current cost of meters in service at September 30, 2014. Services investment costs are allocated using the number of customers weighted by the relative current cost of typical service installations. Industrial measuring and regulating equipment investment costs are allocated by number of customers weighted by industrial meters at current cost.

Administrative and General Costs

General and intangible rate base items are allocated by the Company's blended 4-part factor allocator (4-factor). Administrative and general expenses are segregated into plant related, labor related, revenue related and other. The plant related items are allocated based on total plant in service. Labor related items are allocated by operating and maintenance labor expense. Revenue related items are allocated by pro forma revenue. Other administrative and general expenses are allocated by the Company's 4-factor.

- 1 Whenever costs are allocated by sums of other items within the study, classifications are
- 2 imputed from the relationship embedded in the summed items.

Special Contract Customer Revenue

4 Several special contract customers receive transportation service from the Company.

5 Rates for these customers were individually negotiated to cover any incremental costs and

retain some contribution to margin. The rates for these customers are not being adjusted in

this case. The revenue from these special contract customers has been segregated from

general rate revenue and allocated back to all the other rate classes by relative rate base. In

treating these revenues like other operating revenues their system contribution reduces costs

10 for all rate schedules.

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Revenue Conversion Items

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

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

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

Lin	e Account	Functional Category	Classification	Allocation
	Underground Storage Plant	11.1	G I'm and DOA in	
1	350 - 357 Underground Storage	Underground Storage	Commodity to match PGA items	E01/E04 Annual Throughput / Annual Sales Therm
	Distribution Plant			
2	374 Land	Distribution	Demand/Commodity/Customer from Other Dist Plan	S05 Sum of accounts 376-385
3	375 Structures	Distribution	Demand/Commodity/Customer from Other Dist Plan	S05 Sum of accounts 376-385
4	376(S) Small Mains	Distribution	Demand/Commodity by Peak & Average	D01/E06 Annual throughput excludes Sch 131/132&146 D01/E01/E06 1/3 annual throughput to all schedules & 2/3's annual
5	376(M) Medium Mains	Distribution	Demand/Commodity by Peak & Average	throughput excluding Schs. 131/132&146
6	376(L) Large Mains	Distribution	Demand/Commodity by Peak & Average	D01/E01/E06 Annual througput to all schedules
7	378 M&R General	Distribution	Demand/Commodity by Peak & Average	D01/E01 Coincident peak (all), annual throughput (all
8	379 M&R City Gate	Distribution	Demand/Commodity by Peak & Average	D01/E01 Coincident peak (all), annual throughput (all
9	380 Services	Distribution	Customer	C02, Customers weighted by current typical service cos
10	381 Meters	Distribution	Customer	C03, Customers weighted by average current meter cos
11	385 Industrial M&R	Distribution	Customer	C06, Customers weighted by industrial meter cos
12	387 Other	Distribution	Demand/Commodity/Customer from Other Dist Plan	S05 Sum of accounts 376-385
	General Plant			
				4-Factor (O&M less resource & labor, O&M labor, net direct plant, &
13	389-399 All General Plant	Common	Demand/Commodity/Customer from UG & D Plant	customers
	Intangible Plant			
14	303 Misc Intangible Plan	Distribution	Demand/Commodity/Customer from Dist Plan	S15 Sum of Distribution Plant in Servic
	2		•	4-Factor (O&M less resource & labor, O&M labor, net direct plant, &
15	303 Computer Software	Common	Demand/Commodity/Customer from UG & D Plant	customers
	Reserve for Depreciation			
16	Underground Storage	Underground Storage	Commodity same as related plan	Allocations linked to related plant account
	Distribution	Distribution	Demand/Commodity/Customer same as related plan	Allocations linked to related plant account
18	General	Common	Demand/Commodity/Customer same as related plan	Allocations linked to related plant account
19	Intangible	Distribution/Commor	Demand/Commodity/Customer same as related plan	Allocations linked to related plant account
	Other Rate Base			
20	Accumulated Deferred FIT	All	Demand/Commodity/Customer from Plant in Servic	S17 Sum of Total Plant in Service
21	Constuction Advances	Distribution	Customer	C10 Residential only
22	Gas Inventory	Underground Storage	Commodity from Underground Storage Plan	S14 Sum of Underground Storage Plant in Servic
23	DSM Investment	Distribution	Demand/Commodity by Peak & Average	D01/E01 Coincident peak (all), annual throughput (all
24	Working Capital	Common	Demand/Commodity/Customer from UG & D Plan	S17 Sum of Total Plant in Service
25	Other Rate Base	Common	Demand/Commodity/Customer from UG & D Plan	S17 Sum of Total Plant in Service
	Purchased Gas Expenses			
26	804 Purchased Gas Cost	Production	Demand/Commodity from PGA Tracker WACOC	D05/E07 PGA Demand / PGA Commodity
	807 Purchased Gas Expenses	Production	Commodity	E01/E04 Annual Throughput / Annual Sales Therm
28	813 Gas Research Contributions	Production	Commodity	E08 GTI Expense (Weighted Annual Sales Therms
29	813 Other Gas Expenses	Production	Commodity	E04 Annual Sales Therms

WUTC Docket No. UG-15 ____ Methodology Matrix Avista Utilities Washington Jurisdictio Natural Gas Cost of Service Methodology

Line	Account	Functional Category	Classification	Allocation
1	Underground Storage O&M 814 - 837 Underground Storage Exp	Underground Storage	Commodity	E01/E04 Annual Throughput / Annual Sales Therm
	Distribution O&M			
2	870 OP Super & Engineering	Distribution	Demand/Commodity/Customer from Dist Plan	S15 Sum of Distribution Plant in Servic
3	871 Load Dispatching	Distribution	Commodity	E01 Annual throughpu
4	874 Mains & Services	Distribution	Demand/Commodity/Customer from related plan	S06 Sum of Mains and Services Plant in Servic
5	875 M&R Station - General	Distribution	Demand/Commodity from related plan	S08 Sum of Meas & Reg Station - General Plant in Servic
6	876 M&R Station - Industria	Distribution	Customer from related plans	S19 Sum of Meas & Reg Station - Industrial Plant in Servic
7	877 M&R Station - City Gate	Distribution	Demand/Commodity from related plan	S09 Sum of Meas & Reg Station - City Gate Plant in Servic
8	878 Meter & House Regulator	Distribution	Customer from related plans	S07 Sum of Meter and Installation Plant in Servic
9	879 Customer Installations	Distribution	Customer	C05, Customers weighted by average current meter cos
	880 Other OP Expenses	Distribution	Demand/Commodity/Customer from other dist expense	S04 Sum of Accounts 870 - 879 and 881 - 894
	881 Rents	Distribution	Demand/Commodity/Customer from other dist expense	S04 Sum of Accounts 870 - 879 and 881 - 894
	885 MT Super & Engineering	Distribution	Demand/Commodity/Customer from Dist Plan	S15 Sum of Distribution Plant in Servic
	886 MT of Structures	Distribution	Demand/Commodity/Customer from Other Dist Plan	S05 Sum of accounts 376-385
	887 MT of Mains	Distribution	Demand/Commodity from related plan	S21 Sum of Distribution Mains Plant in Servic
	889 MT of M&R General	Distribution	Demand/Commodity from related plan	S08 Sum of Meas & Reg Station - General Plant in Servic
	890 MT of M&R Industrial	Distribution	Customer from related plant	S19 Sum of Meas & Reg Station - Industrial Plant in Servic
	891 MT of M&R City Gate	Distribution	Demand/Commodity from related plan	S09 Sum of Meas & Reg Station - City Gate Plant in Servic
	892 MT of Services	Distribution	Customer from related plan	S20 Sum of Services Plant in Services
	893 MT of Meters & Hs Reg	Distribution	Customer from related plant	S07 Sum of Meter and Installation Plant in Servic
20	894 MT of Other Equipment	Distribution	Demand/Commodity/Customer from Dist Plan	S15 Sum of Distribution Plant in Servic
	Customer Accounting Expenses			
21	901 Supervision	Customer Relations	Customer	C01 All customers (unweighted)
22	902 Meter Reading	Customer Relations	Customer	C01 All customers (unweighted)
23	903 Customer Records & Collection	Customer Relations	Customer	C01 All customers (unweighted)
24	904 Uncollectible Account	Revenue Conversion	Revenue	R03 Retail Sales Revenue
25	905 Misc Cust Accounts	Customer Relations	Customer	C01 All customers (unweighted)
	Customer Service & Info Expense	<u> </u>		
26	907 Supervision	Customer Relations	Customer	C01 All customers (unweighted)
	908 Customer Assistance	Customer Relations	Customer	C01 All customers (unweighted)
28	908 DSM Amortization	Distribution	Demand/Commodity by Peak & Average	D01/E01 Coincident peak (all), annual throughput (all
29	909 Advertising	Customer Relations	Customer	C01 All customers (unweighted)
	910 Misc Cust Service & Info	Customer Relations	Customer	C01 All customers (unweighted)
	Sales Expenses			
31	911 - 916 Sales Expenses	Customer Relations	Customer	C01 All customers (unweighted

Admin & General Expenses 4-Factor (O&M less resource & labor, O&M labor, net direct production of the companion of the compa	lant, &
	lant, &
1 920 Salaties Common Demand/Commonty/Customer from Other Octor Customers	
4-Factor (O&M less resource & labor, O&M labor, net direct p	
2 921 Office Supplies Common Demand/Commodity/Customer from Other O&M customers	
4-Factor (O&M less resource & labor, O&M labor, net direct p	ant, &
3 922 Admin Expenses Transferred Common Demand/Commodity/Customer from Other O&M customers	
4-Factor (O&M less resource & labor, O&M labor, net direct p	ant, &
4 923 Outside Services Common Demand/Commodity/Customer from Other O&M customers	
5 924 Property Insurance Common Demand/Commodity/Customer from Plant in Service S17 Sum of Total Plant in Service	
4-Factor (O&M less resource & labor, O&M labor, net direct p	ant, &
6 925 Injuries & Damages Common Demand/Commodity/Customer from Other O&M customers	
7 926 Pensions & Benefits Common Demand/Commodity/Customer from Labpr O&N S13 O&M Labor Expense 8 927 Franchise Requirements Revenue Conversion Revenue Revenue Revenue	
4-Factor (O&M less resource & labor, O&M labor, net direct p	lant fr
9 928 Regulatory Commision Common Demand/Commodity/Customer from Other O&M customers	ant, &
10 928 Commission Fees Revenue Conversior Revenue R01 Retail Sales Revenue	
4-Factor (O&M less resource & labor, O&M labor, net direct p	ant, &
11 930 Miscellaneous General Common Demand/Commodity/Customer from Other O&M customers	·
4-Factor (O&M less resource & labor, O&M labor, net direct p	ant, &
12 931 Rents Common Demand/Commodity/Customer from Other O&M customers	
13 931 CSS Rent Customer Relations Customer C01 All customers (unweighted)	
14 935 MT of General Plant Common Demand/Commodity/Customer from Plant in Service S17 Sum of Total Plant in Service	
Depreciation Expense	
15 Underground Storage Underground Storage Commodity same as related plan Allocations linked to related plant account	
16 Distribution Distribution Demand/Commodity/Customer same as related plan Allocations linked to related plant account	
17 General Common Demand/Commodity/Customer same as related plan Allocations linked to related plant account	
18 Intangible Distribution/Commor Demand/Commodity/Customer same as related plan Allocations linked to related plant account	
Taxes	
19 Property Tax All Demand/Commodity/Customer from related plan S14/S15/S16 Sum of UG Plant/Sum of Dist Plant/Sum of Ger	Plaı
20 Miscellaneous Dist Tax Distribution Demand/Commodity/Customer from Dist Plan S15 Sum of Distribution Plant in Servic	
21 State Excise Tax Revenue Conversion Revenue R01 Retail Sales Revenue	
22 Federal Income Tax Revenue Conversion Revenue R02 Net Income before Taxes Less Interest Expense	
23 Deferred FIT Revenue Conversior Revenue R02 Net Income before Taxes Less Interest Expense	
24 11C Revenue Conversion Revenue Roz 13ct mediae before Taxes less interest Expensi	
Operating Revenues	
25 Revenue from Rates Revenue Revenue Pro Forma Revenue per Revenue Study	
26 Special Contract Revenue All Demand/Commodity/Customer from Rate Base S01 Sum of Rate Base	
27 Off System Sales Production Commodity E04 Sales Therms 28 Miscellaneous Service Revenue Distribution Demand/Commodity/Customer from Dist Plan S15 Sum of Distribution Plant in Service	
29 Rent From Gas Property All Demand/Commodity/Customer from Rate Base S01 Sum of Rate Base	