Exhibit No(JM-1T)
BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION
DOCKET NO. UG-15
DIRECT TESTIMONY OF
JODY MOREHOUSE
REPRESENTING AVISTA CORPORATION

I. INTRODUCTION

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- Q. Please state your name, business address, and present position with Avista Corp.
- A. My name is Jody Morehouse and I am employed as Director of Gas Supply for Avista Utilities (Avista or Company). In my current role I am responsible for Avista's natural gas supply and upstream pipeline transportation resources. My business address is 1411 East Mission Avenue, Spokane, Washington.

8 Q. Would you please describe your education and business experience?

A. Yes. I graduated from Montana State University with a Bachelor of Science Degree in Mechanical Engineering and hold a professional engineering license in the State of Washington. I joined the Company in 1989 and have held staff and management positions in our natural gas engineering, natural gas operations, natural gas planning, and natural gas measurement departments. Additionally, I held the position of Manager of Pipeline Integrity and Compliance prior to my current role.

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

A. The purpose of my testimony is to describe Avista's natural gas resource planning process, provide an overview of the Jackson Prairie storage facility, and provide an update on the Company's 2014 Natural Gas Integrated Resource Plan. A table of contents for my testimony is as follows:

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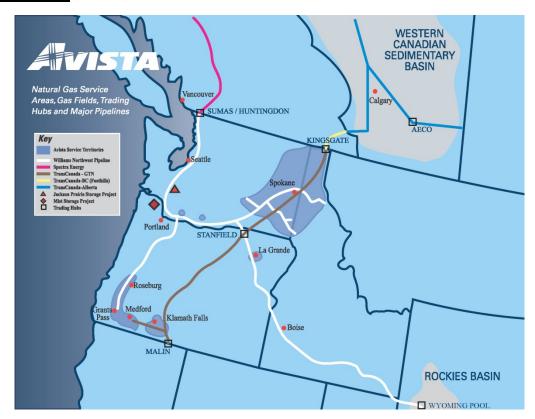
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1	Q.	Are you sponsoring exhibits in this proceeding?	
2	A.	Yes. I am sponsoring Exhibit No(JM-2) which is a copy of the	
3	Company's 2	2014 Natural Gas Integrated Resource Plan filed with this Commission on	
4	August 29, 20	014.	
5	Q.	Is the Company proposing any changes to the cost of natural gas for its	
6	retail natura	l gas customers in this case?	
7	A.	No, Avista is not proposing changes in this filing related to the commodity	
8	cost of natur	ral gas or upstream pipeline transportation resource costs. Changes in the	
9	commodity co	ost of natural gas, and the cost of natural gas pipeline transportation included in	
10	customers' rates are addressed in the Company's annual Purchased Gas Cost Adjustmen		
11	(PGA) filing.	The Company filed its annual PGA on September 12, 2014, with new rates	
12	effective Nov	rember 1, 2014.	
13			
14	II. I	PLANNING FOR COMMODITY RESOURCE PROCUREMENT	
15	Q.	Please describe Avista's natural gas portfolio as it relates to the	
16	procurement	t of the natural gas commodity for its local distribution company ("LDC")	
17	customers?		
18	A.	Avista purchases natural gas for its distribution customers in wholesale	
19	markets at r	nultiple supply basins in the western United States and western Canada.	
20	Purchased na	tural gas can be transported through six connected pipelines on which Avista	
21	holds firm co	ntractual transportation rights. These contracts provide access to both US and	
22	Canadian-sou	arced supply. The US-sourced gas represents 25% of the contractual rights and	
23	provides tran	sportation from the Rocky Mountains. The remaining 75% provides access to	
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Alberta and British Columbia supply basins. This diverse portfolio of natural gas resources allows the Company to make natural gas procurement decisions based on the reliability and economics that provide the most benefit to our customers. As natural gas prices in the Pacific Northwest can be affected by global energy markets, as well as supply and demand factors in other regions of the United States and Canada, future prices and delivery constraints may cause the source mix to vary.

Illustration No. 1 below is a map showing our service territory, natural gas trading hubs, interstate pipelines, and natural gas storage facilities:

Illustration No. 1



Future natural gas prices cannot be accurately predicted; however, market conditions, analysis, and experience shape our overall procurement approach. The Company's goal is to provide reliable supply at competitive prices, with a level of price

1 certainty, in a volatile commodity market. To that end, the Company utilizes a Procurement 2 Plan which includes hedging (on both a short-term and long-term basis), storage utilization, 3 and index purchases. This approach is diversified by transaction time, term, counterparty, 4 and supply basin. The Procurement Plan is disciplined, yet flexible, and layers in fixed-5 price purchases over time and term to provide a level of price certainty to customers. A 6 copy of the Company's Natural Gas Procurement Plan is included as an exhibit to Avista's 7 Energy Resources Risk Policy (see Confidential Exhibit No.___(SJK-4C)). 8 The Procurement Plan provides a process that fixes future gas prices for a targeted 9 portion of the portfolio through the use of hedge windows. The hedge windows are "open" 10 for a predetermined time period and have upper and lower pricing levels which are 11 determined by the market at the time the window becomes effective. In a rising market, this 12 reduces exposure to extreme price spikes. In a declining market, it can facilitate locking in 13 lower prices. These windows can be executed, or "closed" if certain pricing levels are met, 14 or upon time expiration if no pricing events occur. The Company always maintains some 15 level of discretion and may choose not to execute within a window or to change some aspect 16 of a window given market conditions. 17 In addition, a portion of the portfolio that is separate from the defined hedge 18 windows is designated as discretionary. This opportunistic portion of the portfolio allows 19 the Company to hedge additional, targeted volumes in gas years beyond the prompt year at 20 potentially favorable pricing levels. In the event those pricing levels are not reached, the 21 unexecuted volumes designated as discretionary hedges will then become a part of the

The Gas Supply Department continuously monitors the results of the Procurement

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prompt year hedging program.

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1	Plan, evolvin	g market conditions, variation in demand profiles, new supply opportunities,
2	and regulator	y conditions. Although various windows and targets are established in the
3	initial design	phase of the portfolio, the plan provides flexibility to exercise judgment to
4	revise and/or	adjust the Procurement Plan in response to changing conditions. Material
5	changes to th	ne Procurement Plan are communicated to Avista's Senior Management and
6	periodically to	o Commission Staff.
7	Q.	What delivery period does the natural gas Procurement Plan include?
8	A.	The Procurement Plan includes four complete natural gas operating years
9	(November th	arough October) and whole months remaining from the current month until the
10	next October	31 period (the current natural gas operating year). The four complete
11	upcoming na	tural gas operating years are designated "Prompt", "Second", "Third", and
12	"Fourth" year	·s.
13	Q.	Please describe the components of the natural gas Procurement Plan.
	Q.	Trease describe the components of the natural gas i rocurement I fan.
14	A.	Each year a comprehensive review of the previous year's plan is performed.
14 15	A.	•
	A. The review in	Each year a comprehensive review of the previous year's plan is performed.
15	A. The review in analysis, dem	Each year a comprehensive review of the previous year's plan is performed.
15 16	A. The review in analysis, dem	Each year a comprehensive review of the previous year's plan is performed. Includes analysis of historical and forecasted market trends, fundamental market and forecasting, and transportation, storage and other resource considerations.
15 16 17	A. The review in analysis, dem The plan inclu	Each year a comprehensive review of the previous year's plan is performed. Includes analysis of historical and forecasted market trends, fundamental market and forecasting, and transportation, storage and other resource considerations. Includes the following components:
15 16 17 18	A. The review in analysis, dem The plan inclu	Each year a comprehensive review of the previous year's plan is performed. Includes analysis of historical and forecasted market trends, fundamental market and forecasting, and transportation, storage and other resource considerations. Indeed the following components: Previous Year(s) Hedges – longer-term fixed-price purchases executed as a
15 16 17 18 19	A. The review in analysis, dem The plan inclu 1.	Each year a comprehensive review of the previous year's plan is performed. Includes analysis of historical and forecasted market trends, fundamental market and forecasting, and transportation, storage and other resource considerations. Indeed the following components: Previous Year(s) Hedges – longer-term fixed-price purchases executed as a part of a previous year's Procurement Plan.

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2 information are considered to determine if execution will occur. 3 3. Storage Withdrawals – utilizing the capacity and deliverability from the 4 Jackson Prairie storage facility, Avista is able to inject natural gas during the 5 summer months and withdraw it to serve customers during the higher demand 6 winter months. 7 4. **Discretionary Long-term Hedges** – opportunistic purchases based on a set 8 of price levels, or targets, which trigger possible execution. At the time the 9 triggers are reached, evaluation of market conditions, fundamental market 10 knowledge, and other information are considered. These hedges will 11 generally be executed when they can be done at or below the established 12 targets. 13 5. **Index Purchases** – physical index-based natural gas purchases are procured 14 prior to or throughout the delivery month. These purchases are usually 15 associated with daily pricing. The amount of index purchases planned is the 16 difference between the forecasted demand less the sum of the previous year 17 hedges, prompt year hedges, and storage withdrawals. 18 0. Please describe how the Procurement Plan manages supply to meet the 19 volatility in customer demand, as well as manages the impact to customers from 20 volatility in market prices. 21 A. The Procurement Plan focuses on managing demand and price volatility. For 22 example, system-wide average daily demand can fluctuate between 27,000 dekatherms 23 (Dth) per day during a summer month and 180,000 Dth/day during a winter month. Further, Direct Testimony of Jody Morehouse Avista Corporation

window, market conditions, fundamental market knowledge, and other

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- December's system-wide daily demand volatility has ranged from a low of 99,000 Dth/day to a high of 300,000 Dth/Day. Finally, from Avista's 2014 IRP, system-wide peak day demand for the 2014-2015 heating season is forecasted to be approximately 336,000 Dth per day.
 - In order to manage these seasonal, monthly and daily volume swings, Avista shapes the components of the Procurement Plan by month (i.e. more natural gas is hedged for the winter months than for the summer). Illustration No. 2 below includes a chart that shows the demand volatility:

Illustration No. 2

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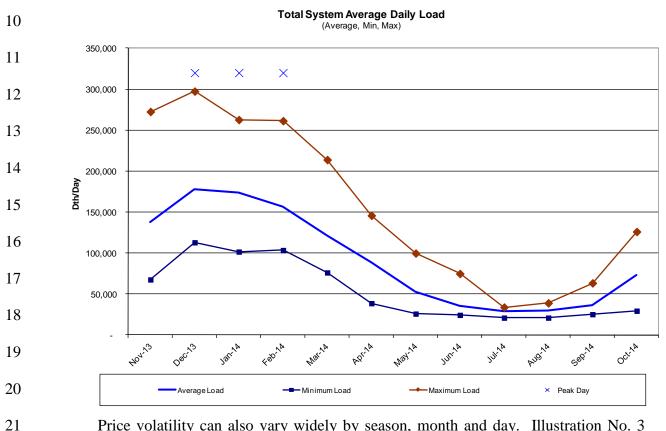
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Price volatility can also vary widely by season, month and day. Illustration No. 3 below includes a chart depicting the natural gas price volatility over time. Avista cannot predict with accuracy what natural gas prices may be, however, our experience and

intelligence related to market fundamentals guide our procurement decisions. By layering in fixed price purchases over time, setting upper and lower pricing levels on the hedge windows, opportunistically hedging at favorable pricing levels through the discretionary hedge program, and actively managing storage resources, Avista is able to meet our goal of providing a meaningful measure of price stability and certainty, and competitive prices for our customers.

Illustration No. 3

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III. JACKSON PRAIRIE STORAGE

Q. Please describe Avista's involvement with the Jackson Prairie natural gas storage facility.

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A. Avista is one of the three original developers of the underground storage facility at Jackson Prairie, which is located near Chehalis, Washington. Although there have been corporate changes due to mergers, acquisitions and name changes, Avista, Puget Sound Energy (PSE) and Williams Northwest Pipeline each hold a one-third share (equal, undivided interest) of this underground gas storage facility through a joint ownership agreement. The facility was certified for commercial service in 1970. Puget Sound Energy is the operator of the facility.

Q. What type of storage facility is Jackson Prairie?

A. Jackson Prairie is an underground aquifer storage facility. Storage and the associated withdrawal and injection capability has been created by a combination of wells, gathering pipelines, compression and dehydration equipment, and the removal and disposal of aquifer water.

Q. Please describe the present level of storage that Avista owns at Jackson Prairie.

A. At the present time, Avista Utilities owns a total of 8,528,013 dekatherms (Dth) of capacity. This capacity comes with a withdrawal capability of 398,667 Dth per day (deliverability). Washington/Idaho's current share of that capacity is 7,704,676 Dth and 346,667 Dth per day of deliverability. The remaining amount is allocated to our customers in the Oregon jurisdiction.

Q. What are the benefits of storage to Avista's customers?

A. Access to regionally located storage provides several benefits to Avista's customers. It enables the Company to capture seasonal price spreads (differentials) between summer and winter, improves reliability of supply, increases operational flexibility,

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1	mitigates pea	k demand price spikes and provides numerous other economic benefits.
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3	<u>]</u>	IV. 2014 NATURAL GAS INTEGRATED RESOURCE PLAN
4	Q.	Please provide an overview of the Company's development of its 2014
5	Natural Gas	Integrated Resource Plan.
6	A.	The 2014 Integrated Resource Plan ("IRP") was filed with the Commission
7	on August 29	9, 2014. The IRP includes forecasts of natural gas demand and any supply-side
8	transportation	n resources and demand-side measures needed for the coming 20 years, which
9	will help Av	ista continue to reliably provide natural gas to our customers. A copy of the
10	Company's 2	2014 Natural Gas Integrated Resource Plan is included as Exhibit No(JM-
11	2).	
12	Q.	What are the summary highlights from the 2014 IRP?
13	A.	Highlights from the 2014 IRP are as follows:
14 15 16 17	•	The Company has sufficient natural gas transportation resources well into the future with resource needs not occurring during the 20 year planning horizon in Oregon, Idaho or Washington;
17 18 19 20	•	Natural Gas commodity prices continue to be relatively stable due to robust North American supplies led by shale gas development; and
21 22 23	•	As forecasted demand is relatively flat, the Company will monitor actual demand for signs of increased growth which could accelerate resource requirements.
24	Q.	Has the Company's 2014 Natural Gas IRP been acknowledged by this
25	Commission	?
26	A.	Yes, on January 23, 2015, the Commission acknowledged the 2014 Natural
27	Gas IRP (Do	ocket UG-131621), finding that the IRP met the requirements of Washington

- 1 Administrative Code (WAC) 480-90-238.
- Q. When will the Company file its next IRP?
- A. The Company will file its next IRP on or before August 31, 2016. A courtesy
- 4 work plan will be filed on August 31, 2015 detailing Avista's IRP planning process as well
- as tentative dates and content for meetings with the Technical Advisory Group (TAC). TAC
- 6 meetings will begin in the first quarter of 2016.
- 7 Q. Does this complete your pre-filed direct testimony?
- 8 A. Yes, it does.