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Attorney for the Commission Staff

BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION

IN THE MATTER OF THE FILING OF AVIS	STA)	
CORPORATION DBA AVISTA UTILITIES'	2016)	CASE NO. AVU-G-16-03
NATURAL GAS INTEGRATED RESOURCE)	
PLAN)	COMMENTS OF THE
)	COMMISSION STAFF
)	

COMES NOW the Staff of the Idaho Public Utilities Commission, by and through its Attorney of record, Daphne Huang, Deputy Attorney General, submits the following comments.

BACKGROUND

On August 31, 2016, Avista Corporation dba Avista Utilities filed its 2016 natural gas Integrated Resource Plan (IRP). The Company files a natural gas IRP every two years to describe the Company's plans to meet its customers' future natural gas needs. The IRP must discuss the subjects required by Commission Order Nos. 25342, 27024 and 27098, and Section 303(b)(3) of the Public Utility Regulatory Policies Act (PURPA), 15 U.S.C. § 3203(b)(3).

The Company's natural gas IRP, including appendices, is about 800 pages long. The IRP contains an Executive Summary, and chapters on Demand Forecasts; Demand-Side Resources; Supply-Side Resources; Integrated Resource Portfolio; Alternate Scenarios, Portfolios, and Stochastic Analysis; Distribution Planning; and the Company's Action Plan.

STAFF REVIEW

Staff reviewed the Company's 2016 natural gas IRP to determine if it complies with requirements specified by prior Commission orders. Staff believes that the 2016 IRP contains the required information.

Staff examined the Company's natural gas demand forecasts, supply-side resources, distribution planning, and demand-side management (DSM), with each of these subjects addressed in greater depth in sections below. The Company modeled multiple demand scenarios – Average Case, Expected Case, High Growth/Low Price, Low Growth/High Price, Alternate Weather Standard, and Expected Case/Low Price – to account for variations in customer growth, usage and weather. The Company's analysis shows that with several significant distribution upgrades, existing resources meet demand in all Idaho scenarios with the exception of unserved demand in 2037 in the high growth/low price scenario. Based on its analysis, Staff believes the Company's estimates cover a range of possibilities and are reasonable.

Natural Gas Demand

The Company determines demand forecasts by defining eight distinct demand areas in its service territory. The demand forecast accounts for several factors influencing demand, including natural gas prices, weather, customer growth and use, conservation technology, industry innovations, and regulation.

The Company expects minimal growth in the residential, commercial, and industrial segments. However, the Company recognizes that in today's natural gas market of low price and abundant supply there is increasing interest in use of gas for power generation, transportation fuel, industrial feedstock, and liquefied natural gas (LNG). While most of the markets would not be customers of the Company, they could impact the natural gas infrastructure and pricing in its service area.

The Company forecasts a 0.5% annual growth rate (net of projected DSM program savings), with average day, system-wide core¹ demand increasing from an average of 94,164 dekatherms per day (Dth/day) in 2016 to 102,840 Dth/day in 2035. IRP at 3. The Company forecasts that coincident peak day, system-wide core demand will increase from a peak of

¹ The Company's core (retail) customers are residential, commercial, and very few industrial customers. Transportation-only customers are not included in peak day IRP planning.

361,901 Dth/day in 2016 to 425,144 Dth/day in 2035, for a 0.8% annual average annual growth rate in peak day requirements (net of projected DSM savings). *Id.* Non-coincident peak day system-wide core demand is forecasted to increase from a peak of 331,820 Dth/day in 2016 to 387,742 Dth/day in 2035 for a 0.8% average. *Id.* In the Washington/Idaho service territory, number of customers is projected to increase at an average annual rate of 1.10 percent, with gas demand increasing at a compounded average annual rate of 0.36 percent. *Id.* at 39.

Staff reviewed the Company's projections of its average system-wide consumption, coincident peak day consumption, and non-coincident peak day consumption. Staff believes the Company's projections are based on a reasonable analysis of growth and consumption patterns in its Idaho service territory.

Natural Gas Supply Resources and Options

The Company states it has a "diversified portfolio of natural gas supply resources," including contracts to buy gas from several supply basins, stored gas, and firm capacity rights on six pipelines. *Id.* at 6. In addition, the Company considers "incremental pipeline transportation, storage options, distribution enhancements, and various forms of LNG storage or service" as potential resource additions. *Id.* at 6.

The Company discusses projected resource needs including near term distribution upgrades, and states that the Average Case and Expected Case demand scenarios show it will not need additional upstream capacity or storage in the 20-year planning horizon. However, the Company expects to spend approximately \$4M in 2017 and \$5.5M in 2018 on distribution projects in Idaho. The Company anticipates that, "where an upstream resource deficiency is [expected to be] nearly present," it will have "time to carefully monitor, plan and take action on potential resource additions." *Id.* at 8-9.

In addition to Staff's review of the IRP, Staff also evaluates supply side resources through participation in the IRP Technical Advisory Committee (TAC) team and semi-annual discussions with the Company. The Company has positioned itself to address current and changing market conditions. Specifically, the Company modified its procurement strategy which includes hedging, storage, and index purchases to minimize cost and risk. *Id.* at 65. In 2018, the Company intends to research procuring a derivative base contract, 10-year forward strip, and natural gas reserves. *Id.* at 13.

Distribution Planning

The Company utilizes a computer based modeling tool (GL Noble Denton Synergi) to monitor and study loads to assess distribution system needs and growth. The tool provides a graphic representation of the Company's system which behaves very close to the actual system allowing users to model alternatives. Transportation-only customers are excluded in long-term planning exercises but are included in distribution planning exercises because they utilize the Company's distribution system. The Company states, "Securing adequate natural gas supply and ensuring sufficient pipeline transportation capacity to Avista's city gates become secondary issues if distribution system growth behind the city gates increases faster than expected and the system becomes severely constrained." *Id.* at 129. The Company also assesses its distribution system integrity which generally occurs due to an increased number of customers and load growth but can also be because maintenance upgrades are necessary. *Id.* at 130.

Staff agrees with the Company's perspective and believes it is important to closely monitor the distribution system for capacity constraints even if transportation capacity exists upstream of the city gate.

As mentioned previously, the Company is planning a number of projects in Idaho to upgrade the distribution system. The Company is initiating a project (Coeur d'Alene High Pressure Reinforcement) to reinforce the Coeur d'Alene system to address low pressure conditions in the Hayden Lake system that generally occur when demand is high during cold winter conditions. *Id.* at 136. The total project cost is approximately \$8M from 2017 to 2018. *Id.* The project includes two regulator stations and roughly 17,000 feet of high pressure steel main. *Id.* The Company selected an option which utilizes the GTN-TransCanada pipeline since Northwest Pipeline's CDA lateral is at capacity. *Id.* This choice provides a second gas source to the Company's system and is the least cost routing solution. An additional 2018 distribution project (Schweitzer Mountain Rd High Pressure Reinforcement) is scheduled at a cost of \$1.5M. *Id.* Currently, the Company is monitoring other Idaho city gate stations with minimal capacity constraints and has tentatively scheduled projects for 2019 or later at the Athol #219, Bonners Ferry #208, and Genesee #320 gate stations. *Id.* at 137.

Staff believes the Company should evaluate and more thoroughly describe alternatives, including conservation, in order to determine the least-cost approach to meeting its distribution capacity needs.

Demand-Side Management

The Company suspended natural gas DSM programs in 2012. In the Company's 2012 Application it advised the Commission that gas costs were lower than the existing avoided costs rendering its gas DSM program cost-ineffective. Order No. 32650. On October 28, 2015, the Company filed an application to: (1) resume natural gas energy efficiency programs and projects to residential (including low income), commercial, and industrial natural gas customers; and fund these programs by increasing its "Energy Efficiency Rider" rates. Case No. AVU-G-15-03. The Company claimed that its historic method of measuring DSM cost-effectiveness, through the Total Resource Cost (TRC) test, has the potential for bias against conservation programs. Consequently, the Company proposed the use of the Utility Cost Test (UCT). Additionally, the Company proposed modifications to its avoided cost calculation to include the demand portion of Schedule 150 Purchased Gas Cost Adjustment. The Commission approved the Company's application to resume its natural gas energy efficiency programs on December 24, 2015. Order No. 33444.

The Company contracted with Applied Energy Group (AEG) to complete a CPA (Conservation Potential Assessment) with results published in April of 2016. AEG created a baseline forecast and consumption projections by end use which excluded utility programs and naturally occurring conservation. The Company states that; "The baseline forecast is the foundation for the analysis of savings from future DSM programs as well as the metric against which potential savings are measured." IRP at 47. The results of the CPA compared to the baseline forecast are shown below:

Conservation Potential Summary for Idaho²

2015 Natur	al Gas Sales	(Dth)	2017 to 2018 Cumulative Achievable Savings Potential (Dth)	2017 to 2018 Cumulative Economic Savings Potential (Dth)	2017 to 2018 Cumulative Technical Savings Potential (Dth)
Residential	4,304740	62%	25,406	108,042	165,579
Commercial	2,456,621	35%	21,619	58,035	94,327
Industrial	187,203	3%	641	1,450	5,049
Total	6,948,564	100%	47,666	167,527	264,955

² "Achievable potential" is the theoretical lower limit and applies ramp rates to establish an acquisition target that is perceived to be more realistic. "Economic potential" incorporates cost-effective measures. "Technical potential" is the theoretical upper limit and assumes all customers replace equipment with the most efficient option available regardless of cost-effectiveness.

The Company is exploring a number of DSM alternatives for the 2018 IRP. *Id.* at 144. One possibility is targeted DSM which is in the process of being evaluated as an alternative to distribution upgrades. For example it may be possible to defer upgrades if large commercial or industrial customers located on capacity constrained laterals participated in DSM programs to reduce gas consumption. The Company's Demand Side Management, Gas Supply, and Gas Engineering groups are currently determining if a pilot program is feasible. However, the Company has determined that the effects of standard DSM offerings will not resolve or defer required Idaho upgrade projects. The Company states that it is evaluating avoided cost approaches with the DSM Advisory Group in the spring of 2017 and with the 2018 IRP TAC at its first 2018 meeting. *Id.* at 46. Staff supports the Company's continued evaluation of DSM avoided costs. Additionally, Staff is encouraged by the Company's interest in evaluating targeted DSM alternatives as an approach to deferring distribution capacity upgrades that have been tentatively scheduled.

Action Plan

As stated in the above Background section, the Company's IRP includes an Action Plan that contains a 2015-2016 review section detailing progress on last year's action items. In summary, highlights of 2015-2016 results include implementation of a new storage optimization program, continued progress on DSM avoided cost methodologies, completion of gate station analysis, improved forecasting methodology awareness by providing TAC members with an overview of the Sendout system, and inclusion of distribution system project overviews in this IRP.

According to the Company, "Avista's 2017-2018 Action Plan outlines activities for study, development and preparation for the 2018 IRP." *Id.* at 144. The following summary includes key points from the 2017-2018 Action Plan. Summary of the Action Plan include:

- The price of natural gas has dropped significantly since the 2014 IRP. Consequently, the Company will research market opportunities including procuring a derivative base contract, 10-year forward strip, and natural gas reserves.
- The Company's 2018 IRP will support the selection of conservation (DSM) to meet unserved demand in individual portfolios.

- Monitor actual demand for accelerated growth [to] address resource deficiencies arising from exposure to "flat demand" risk.
- Continue to monitor supply resource trends including the availability and price of natural gas to the region, LNG exports, methanol plants, supply and market dynamics and pipeline and storage infrastructure availability.
- Monitor availability of resource options and assess new resource lead-time requirements relative to resource need to preserve flexibility.
- Meet regularly with Commission Staff to provide information on market activities and significant changes in assumptions and/or status of Avista activities related to the IRP or natural gas procurement practices.
- Appropriate management of existing resources including optimizing underutilized resources to help reduce costs to customers.

Staff is supportive of the Company's 2017-2018 Action Plan. Staff supports addressing DSM avoided cost methodologies through participation in the DSM Advisory Group and IRP TAC team. Additionally, Staff believes that exploring the potential for deferring additional supply or distribution resources through targeted conservation programs is important given the planned near term (2017-2018) distribution upgrades at a projected cost of over \$8M.

Public Participation

The Company conducted four TAC meetings with the first held in Portland, Oregon and the remaining three at Company headquarters in Spokane, Washington. *Id.* at 21. Each of the four meetings was also available online via WebEx and by phone. Meetings were conducted in an interactive manner to include feedback and input from TAC team members as well as stakeholders. TAC team members were provided an opportunity to review a draft of the IRP, ask questions, and offer suggestions prior to publication. *Id.* at 21.

The Company provided opportunities to any individual or entity interested in participating in the planning process by posting meeting details and presentations on the Company website. *See* Attachment A at 1. During the four TAC meetings there was a mix of Avista employees, staff from commissions (Idaho, Oregon, and Washington), state agency staff (Oregon and Washington), other regional gas utilities, pipeline companies, and trade associations. *Id.* at 1-9. Average meeting participation was a mix of roughly 9 (30%) Avista

employees and 22 (70%) stakeholders including Staff that participated in all four meetings. *Id.* at 2-9.

Staff appreciates public access to presentations and availability of information on the Company's website but believes additional outreach to Idaho customers, local and state officials, and other stakeholders is appropriate. Incremental outreach could include bill stuffers, public flyers, local media, individual invitations, and other methods to encourage and enhance public participation. It is important for the public to understand how the Company forecasts future resource requirements and spending and how rates could be affected. Additionally, Staff suggests the Company consider conducting a workshop in the proximity of areas impacted by future projects.

STAFF RECOMMENDATION

Staff believes that the Company's 2016 Natural Gas IRP satisfies the requirements for a natural gas IRP set forth in Commission Order Nos. 25342, 27024, 27098, 32233, and 32698. Staff recommends the Company's 2016 Natural Gas IRP be acknowledged and accepted for filing.

Respectfully submitted this

day of February 2017.

Daphne Huang

Deputy Attorney General

Technical Staff: Kevin Keyt

Michael Morrison

I: umisc: comments/avug16.3djhkskmm comments

AVISTA CORPORATION RESPONSE TO REQUEST FOR INFORMATION

JURISDICTION: IDAHO DATE PREPARED: 01/12/2017

CASE NO.: AVU-G-16-03 WITNESS: N/A

REQUESTER: IPUC RESPONDER: Tom Pardee
TYPE: Production Request DEPARTMENT: Natural Gas Resources

REQUEST NO.: Staff-01 TELEPHONE: (509) 495-2159

REQUEST:

Page 1 of the Avista 2016 Natural Gas IRP Appendix lists organizations and representatives that participated in the 2016 Natural Gas IRP TAC meetings. Please provide the telephonic and inperson attendance records for each of the TAC meetings, including attendee names and corresponding organizations. Additionally, please provide copies of any notifications, flyers, or publications sent to the public regarding the 2016 Natural Gas IRP.

RESPONSE:

Please see Staff_PR_01 Attachment A for the attendees at each Technical Advisory Committee (TAC) meeting during the 2016 Natural Gas IRP.

Throughout the planning phase of the 2016 IRP, the presentations and meeting locations were all posted to the Avista Utilities website (www.avistautilities.com) under the "Inside Avista" section link to "Resources and Transmission Services". More importantly there is contact information for any individual or entity requesting to participate in this planning process.

<u>Name</u>	Company
Etern Sterm	NW Normal
JODY MOREHOUSE	AVISTA
Mamy S. Linver	NIN Matural
MATTHEW ELAN	Idaho PUC
Michael Piller	Auista
Chris McGaure	WUTC
Terrence Browne	Aursta
thant D. Forth	AUISTA
Kerry Shroy	AVISTIC
Kaylene Schuttz	ANSTA
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GRANT. FORSYTH @ AVISTAGORP. COM	
Kerry stray & our stacons, com	
Kaylene. schuttz & anistacop. com	

Avista 2016 Integrated Resource Plan – Technical Advisory Group Meeting

January 21, 2016

<u>Name</u>	Company
(EMC CONTILE	ORPUC
JE ED FINKLEY	NUGGU
Po MARK SCHORS-VAUGHN	CASCADE
LISA GORSKE	OPUC
(KEVW KeYT	1 Puc
N 1: 1	717 1 7 24
Dan Kirschner	NWGA

Email Address

Name Kern Kert Eric Colville Nadine Hanhan Terri Carlock Jody MoreHouse Ruen Finesive

Faylene Schuttz David White

Bojan Robertson Ryan Braden

ERIC Scots

Inris Melavirel James Gall

John Lyons

DEBBIE Simock

Make has mush

Max St. Brown Lisa Gorson

Kacee Chardler

Staff_PR_01 Attachment A

Company

IPUC

AVISTA

Avista

Avista Avista

Trans Canada

Cascade Natural Gas

NVU Nation

ANISTA

Transcanada

Avista

Avista

Avista

Northwest

Opuc

PSE

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say-stoy @ transcanada.com concguire @ ute.m.gov

john. Yonsoavistacorp. com debbie, simoch @ Avista eozp. com evil. Soveng @ austrcorp. com Michael. D. Rasmusone Williams. com

<u>Name</u>		Company
Kaulene Schuttz	ALA	
. Chris Mequice	WAUTC	
Eric Colville	OPUC	
Rick Sterling	IPUE	
terri Carlock	OPE	
Max St. Brown		
Lisa Gorsven	OVUC	
Ja Willer		
Natione Hanhan		
race (hundler	c 1	
Brian Robertson	Cercale	
Brian Robertson Tany Linver	NWN	
Day Worner		
	0	
JODY MORGHOUSE	AVISTA	+
David Machado	AVISTA	
KAREN SCHUH	AVISTA	
GRANT D. FORSYTH	AVISTA	
Kenn KEYT	IFUC	

Email Address

Avista 2016 Integrated Resource Plan -**Technical Advisory Group Meeting**

30 March 16, 2016

TEPPERILE PROUNE Ryon Fines. Iver Connor Reiten Dankirschner

James 6all NEBBIE Filmock

John Lyons

Jame

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Fayler & Schuttz

TENTENRE BISWAL AVA

AEG Bridget Kester

Chris McGuire WUTC

Alisan Kenyan Aua

ERIC COLVILLE OPUC

MAX ST BROWN OPUC

MARK Severs VAUGHN CASCADE

CASCAPE BRIAN ROBERTSON

1Puc CASTE STACY

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Staff_PR_01 Attachment A

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Avista 2016 Integrated Resource Plan -**Technical Advisory Group Meeting**

April 21, 2016

Company

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KEWIN. KEYT @ PUC. IDAHO. GOV

Name

KEYT

DOY MOREHOUSE

AVISTA

TOWN LYON REITEN

WW GAS ASSOCIATION

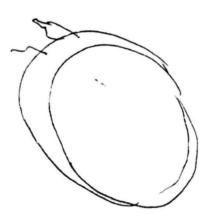
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CERTIFICATE OF SERVICE

I HEREBY CERTIFY THAT I HAVE THIS 2nd DAY OF FEBRUARY 2017, SERVED THE FOREGOING **COMMENTS OF THE COMMISSION STAFF**, IN CASE NO. AVU-G-16-03, BY E-MAILING AND MAILING A COPY THEREOF, POSTAGE PREPAID, TO THE FOLLOWING:

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SECRETARY