

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

DOCKET NO. UE-16\_\_\_\_\_

DOCKET NO. UG-16\_\_\_\_\_

DIRECT TESTIMONY OF

KAREN K. SCHUH

REPRESENTING AVISTA CORPORATION

**I. INTRODUCTION**

**Q. Please state your name, employer and business address.**

A. My name is Karen K. Schuh. I am employed by Avista Corporation as a Senior Regulatory Analyst in the State and Federal Regulation Department. My business address is 1411 East Mission, Spokane, Washington.

**Q. Please briefly describe your educational background and professional experience.**

A. I graduated from Eastern Washington University in 1999 with a Bachelor of Arts Degree in Business Administration, majoring in Accounting. After spending six years in the public accounting sector, I joined Avista in January of 2006. Since 2006, I have worked in various positions within the Company in the Finance Department (Plant Accounting and Resource Accounting) and joined the State and Federal Regulation Department as a Regulatory Analyst in 2008. Currently, as a Senior Regulatory Analyst, I am responsible for, among other things, preparing the capital pro forma and cross check adjustments in determination of revenue requirements for all jurisdictions.

**Q. What is the scope of your testimony?**

A. My testimony and exhibits in this proceeding will cover the Company's capital investments in utility plant from September 30, 2015 through June 30, 2018, which includes the Company's proposal for an 18-month rate plan, further discussed by Company witness Mr. Morris. As explained by Company witness Ms. Andrews, the Company is basing its electric and natural gas revenue increase requested in this case on its electric and natural gas Attrition Studies. However, as explained by Company witness Ms. Smith, the Company is also presenting a traditional electric Pro Forma Study using modified historical test period

1 results with limited, pro forma adjustments, (modified test year Pro Forma) including  
 2 Washington’s share of certain capital projects I have described later in my testimony. I am  
 3 also presenting explanation and documentation supporting general plant, enterprise  
 4 technology plant, natural gas distribution plant and other plant additions that are incorporated  
 5 into Ms. Smith’s 2017 Pro Forma and Cross Check Studies, as well as the Company’s Cross  
 6 Check Studies for the January - June 2018 six-month period.

7 A table of contents for my testimony is as follows:

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19 **Q. Are you sponsoring any exhibits?**

20 A. Yes. I am sponsoring Exhibit Nos. \_\_ (KKS-2) through (KKS-7) which were  
 21 prepared by me or under my direction, and have been included to provide supporting  
 22 information for the capital investment described in this testimony. Exhibit No. \_\_ (KKS-2)  
 23 shows actual and planned capital expenditures from 2011 through 2020. Exhibit No. \_\_ (KKS-  
 24 3) depicts the increases in costs of transmission substations, transmission equipment,  
 25 distribution substations, and distribution equipment that the utility industry has experienced  
 26 over the past fifty years. Exhibit No. \_\_ (KKS-4) lists and describes the capital projects

1 included in this case. Exhibit No. \_\_\_(KKS-5) includes business cases, cover sheets and other  
2 project justification information relating to each of the projects included in this case. Exhibit  
3 Nos.\_\_(KKS-6) and \_\_\_(KKS-7) represent the last two capital progress reports that the  
4 Company filed with the Commission in March of 2015 and September of 2015.

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6

**II. CAPITAL ADDITIONS FROM SEPTEMBER 30, 2015**

7

**THROUGH JUNE 30, 2018**

8

**Q. Please summarize the three electric and natural gas studies the Company  
9 proposed for this case, including, (1) modified test year Pro Forma Studies, (2) the Cross  
10 Check Studies, and (3) the Attrition Studies?**

11

A. As discussed by Ms. Andrews, the Company prepared its modified test year  
12 Pro Forma Studies in response to the recent Commission Order 05, where the Commission  
13 states:

14

“In a rate proceeding with claims of attrition-related earnings erosion, it  
15 is necessary to first develop a modified test year upon which the addition  
16 of an attrition adjustment may be considered.”<sup>1</sup>

17

18

The Company used the thresholds defined in Order 05 of one-half of one percent of  
19 the Company’s rate base (i.e., above \$6.3 million for electric and \$1.17 million for natural  
20 gas) to determine the capital additions included in the modified test year Pro Forma Studies.

21

The Company prepared Cross Check Studies, as it has in prior years, in order to  
22 provide separate analyses to compare with the Company’s electric and natural gas Attrition  
23 Studies. The Cross Check Studies incorporate all capital additions that are expected to be in

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<sup>1</sup> Docket Nos. UE-150204 and UG-150205 (*consolidated*), page 16, paragraph 35.

1 service during the 2017 rate year and the January – June 2018 rate period on an AMA basis.<sup>2</sup>  
2 The Cross Check Studies provide revenue requirement results that can be used to determine  
3 the reasonableness of the results from the Attrition Studies.

4 **Q. How were the capital additions developed for each of these studies?**

5 A. Avista started with rate base for the historical test year, which, for this case, is  
6 the average-of-monthly-averages (“AMA”) for the twelve months ended September 30, 2015.  
7 Adjustments were made to include actual additions for the period October 1, 2015 through  
8 December 31, 2015 on an AMA basis, together with the associated accumulated depreciation  
9 (“AD”) and accumulated deferred federal income taxes (“ADFIT”)<sup>3/4</sup>. These adjustments  
10 include annualizing the associated depreciation expense on the plant-in-service at September  
11 30, 2015 and for actual additions through December 31, 2015. These adjustments were made  
12 to determine rate base at for 2015 on an AMA basis, which reflects the most recent historical  
13 period information.

14 The Company then reviewed the planned capital projects for 2016 and determined a  
15 threshold for the electric and natural gas modified test year Pro Forma Studies capital projects  
16 according to the Company’s most recent Commission Order 05.<sup>5</sup> The Company has identified

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<sup>2</sup> Capital investment related to customer growth beyond September 30, 2015 was excluded from the Pro Forma studies and Cross Check studies as explained later.

<sup>3</sup> The revenue-producing capital for the period ended September 30, 2015, was adjusted separately to a December 31, 2015 AMA basis in Ms. Andrews Attrition Analysis as shown in Exhibit Nos.\_\_(EMA-2) and (EMA-3), because the Attrition Analysis reflects the growth in customers and growth in revenue from the test year to the rate year. The revenue-producing distribution plant for the twelve-months-ended September 30, 2015 capital additions for the Pro Forma and Cross Check Studies was not adjusted for customer growth beyond the test period, because the Pro Forma and Cross Check Studies do not include growth in customers and revenue beyond the historical test year.

<sup>4</sup> For each of the periods October-December 2015, as well as 2016, 2017 and six months ended June 2018, distribution-related capital expenditures associated with connecting new customers to the Company’s system were excluded. The Pro Forma and Cross Check Studies do not include the increase in revenues from growth in the number of customers from the historical test year to the 2017 and 6 months ended June 2018 rate year, and therefore, the growth in plant investment associated with customer growth should also be excluded.

<sup>5</sup> Docket Nos. UE-150204 and UG-150205 (Consolidated), Order 05, Paragraph 39 and 40.

1 Pro Forma projects that are one-half of one percent of the Company's rate base (i.e., above  
2 \$6.3 million for electric and \$1.17 million for natural gas).

3 The remaining planned capital projects below the threshold for 2016 were included in  
4 the Cross Check Studies for 2016, together with the associated AD and ADFIT on a 2016  
5 AMA basis. This includes associated depreciation expense for the capital additions. The  
6 associated ADFIT includes repairs and bonus tax depreciation expected through 2016 on an  
7 AMA basis<sup>6</sup>. These specific capital additions are identified later in my testimony. In addition,  
8 the plant-in-service for 2015 AMA was adjusted to a 2016 AMA basis.

9 Additionally, my testimony also includes 2017 capital additions<sup>7</sup> for the Cross Check  
10 studies, together with the associated AD and ADFIT on a 2017 AMA basis. This includes  
11 associated depreciation expense for the capital additions. The associated ADFIT includes  
12 repairs and bonus tax depreciation expected through 2017 on an AMA basis<sup>8</sup>. These specific  
13 capital additions are identified later in my testimony. In addition, the plant-in-service at  
14 December 31, 2016 AMA was adjusted to a 2017 AMA basis.

15 Finally, my testimony also includes capital additions<sup>9</sup> for the January – June 2018 six-  
16 month period for the Cross Check studies, together with the associated AD and ADFIT. This  
17 includes associated depreciation expense for the capital additions. The associated ADFIT  
18 includes repairs and bonus tax depreciation for January - June 2018 on an AMA basis<sup>10</sup>. These  
19 specific capital additions are identified later in my testimony. In addition, the plant-in-service  
20 at for 2017 AMA was adjusted to a January - June 2018 AMA basis. Tables depicting the

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<sup>6</sup> The IRS extended bonus depreciation through 2019. The Company has included the appropriate levels of bonus depreciation in accordance with this for the years 2016- June 30, 2018.

<sup>7</sup> Id footnote 2

<sup>8</sup> Id. Footnote 5.

<sup>9</sup> Id. footnote 2

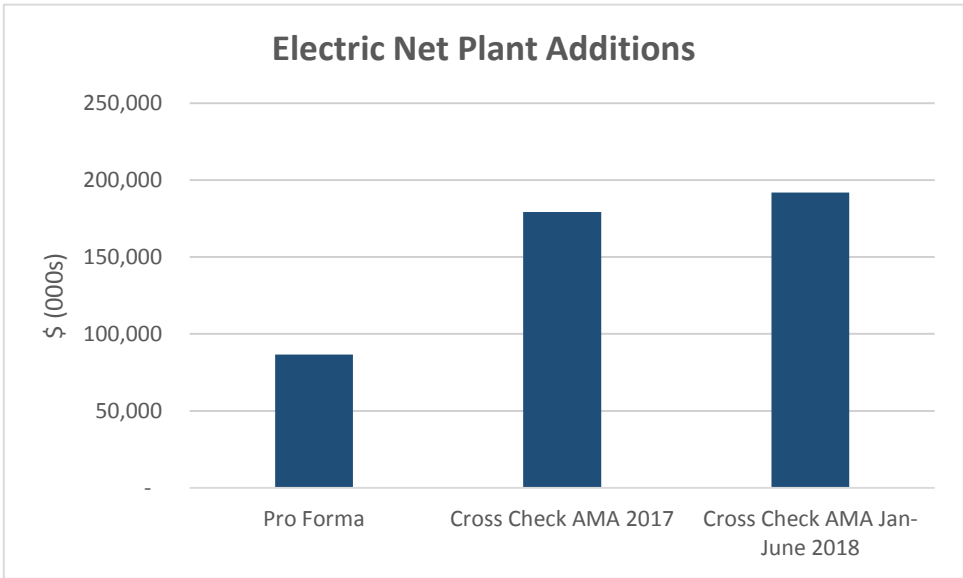
<sup>10</sup> Id. Footnote 5.

1 electric and natural gas adjustments for the Pro Forma and Cross Check studies for October  
2 2015 through June 30, 2018 are shown later in my testimony at Tables 7 through 10.

3 **Q. How did the results of the modified test year Pro Forma Studies and the**  
4 **Cross Check Studies compare?**

5 A. The chart below shows the relationship of the electric net plant additions when  
6 comparing the electric modified test year Pro Forma Study and the Cross Check Study.

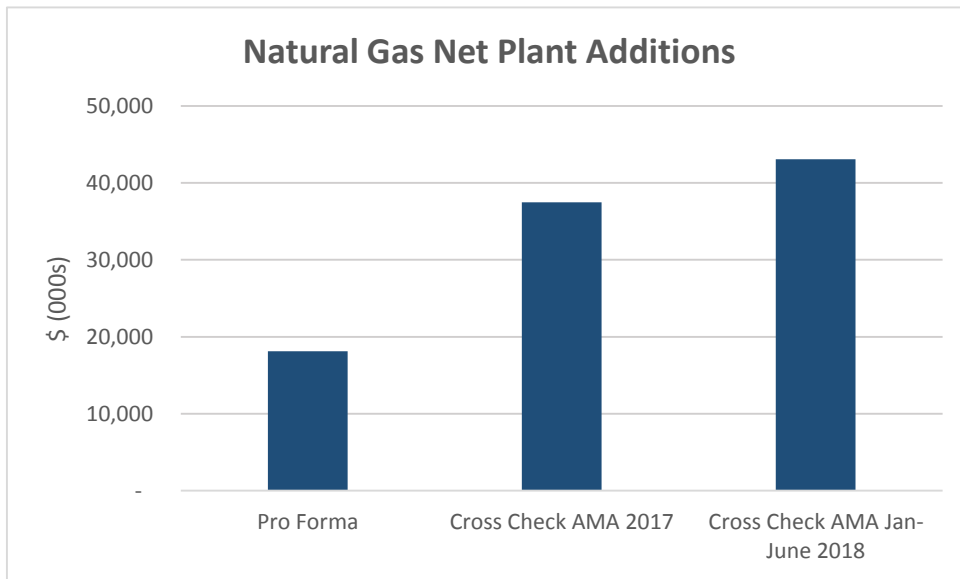
7 **Illustration No. 1:**



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1 The following illustration shows a similar comparison for natural gas net plant adjustments:

2 **Illustration No. 2:**



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12 These illustrations show that the modified test year Pro Forma net plant adjustments, fall well  
 13 below the Company’s Cross Check adjustments to arrive at plant-in-service during the 2017  
 14 and January - June 2018 rate periods. This demonstrates that the modified test-year Pro Forma  
 15 Studies do not reflect the level of rate base that will be experienced by the Company during  
 16 the 2017 and January - June 2018 rate periods. This is discussed further by Ms. Smith<sup>11</sup> and  
 17 Ms. Andrews where they compare the Pro Forma and Cross Check Studies results to the  
 18 Company’s Attrition Studies.

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<sup>11</sup>See Exhibit Nos. \_(JSS-2) and \_(JSS-3), pages 6-10 (Pro Forma results); 11-12 (2017 Cross Check results) and pages 13-14 (June 2018 period ending Cross Check results).



1 **III. CAPITAL PLANNING AND REVIEW**

2 **Q. Please describe Avista’s capital planning process.**

3 A. Avista utilizes a comprehensive capital planning and budgeting process.

4 Capital expenditure assessment and cross-company prioritization enables the allocation of  
5 limited resources to the highest impact projects and programs. The Company also employs a  
6 systematic review process to adjust course as required. The capital planning and budgeting  
7 process at Avista begins with engineers and subject matter experts performing studies and  
8 gathering data about our assets to determine the type and level of work that is needed to keep  
9 our system operating in a safe, reliable and efficient manner. The identified work is then  
10 prioritized at the department level for the ensuing five-year period. For each project or  
11 program that meets the departmental screening, a business case is completed and submitted  
12 for consideration of funding. A business case is a summary document that provides a  
13 description of the capital project or program as well as additional information and support.  
14 Components of a business case generally include: the project description, project alternatives,  
15 cost summary, an assessment score, justification for the project (e.g., mandatory, resource  
16 requirements, etc.), milestones, and key performance indicators. The assessment score is  
17 comprised of a business risk assessment with a risk analysis using mitigated enterprise risk  
18 management definitions, a financial assessment focusing on customer internal rate of return  
19 (IRR) as the key proxy for attractiveness, a strategic assessment which is a dimension aimed  
20 at evaluating alignment with corporate initiatives, and project/program risk to quantify the  
21 level of certainty around the projected costs and timeline. The assessment score is one data  
22 point that is considered when prioritizing capital funding. Other considerations include, but  
23 are not limited to, the availability/utilization of crews, compliance requirements, work

1 efficiency, safety, reliability, and partial funding versus an “all or nothing” approach. Business  
2 cases, cover sheets and other project justification information relating to each of the projects  
3 included in this rate case filing, have been provided in Exhibit No. \_\_\_\_ (KKS-5).

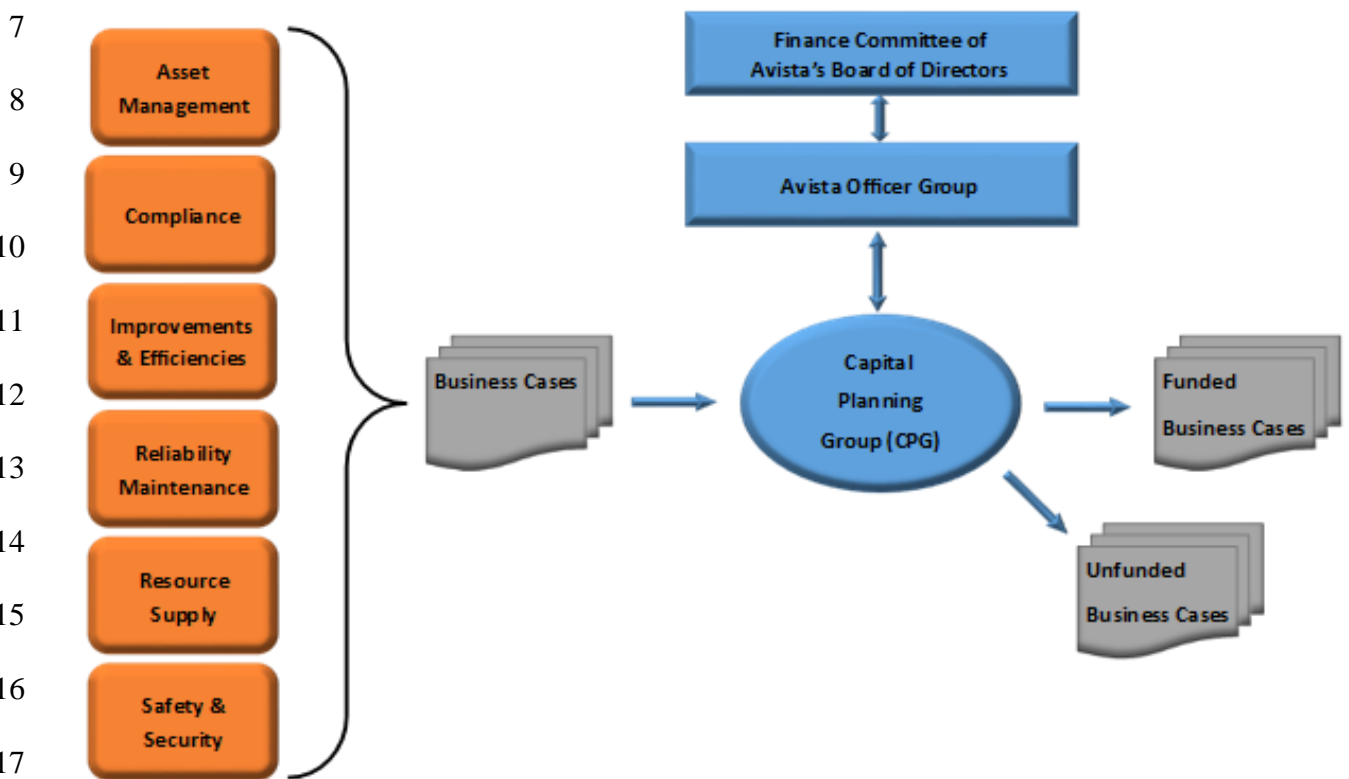
4 Completed business cases are submitted to the Capital Planning Group (“CPG”). The  
5 CPG is a group of internal director level employees that represent the capital intensive areas  
6 of the Company. The CPG meets monthly to review the submitted business cases and  
7 prioritize funding to limit the total capital spending to the level set by Company officers. Due  
8 to the large amount of funding requests and the limitation of the capital budget, some program  
9 requests are scaled back, some projects may not get funding, and some activities may be  
10 deferred or delayed.

11 Once funding is prioritized for the coming five-year period, the CPG meets with  
12 Company officers to review all business case submissions and the funding prioritization. The  
13 Company officers provide feedback and ultimately approve a capital budget that is then  
14 reviewed with the Finance Committee of the Board of Directors (“FC”) for their approval of  
15 the spending for the first year of the five-year plan. The five-year capital plan is reviewed  
16 with the FC to keep them apprised of the longer-term capital spending plan. The status of the  
17 planned versus actual capital spend is reviewed with the FC at least twice a year in accordance  
18 with their calendar of reviews and actionable items.

19 During the year, the CPG meets monthly to review the status of the capital projects  
20 and programs, and approve or decline new business cases and spending adjustments to current  
21 projects and programs as well as monitoring the overall capital spend. As a result of the  
22 constrained capital spend level, capital projects must be prioritized so that the dollars flow  
23 where they are most needed. As unexpected, high-priority capital projects arise, the capital

1 projects for the year must be reprioritized to limit the total spend to the amount established by  
 2 the Company and approved by the FC. This can cause some projects to be delayed so that  
 3 higher-priority projects can be completed.<sup>12</sup> Indeed, there were \$54 million of unfunded  
 4 projects in 2013, and \$55 million of unfunded projects in 2014. The following flow chart  
 5 (also appearing in Mr. Thies' testimony) depicts the capital planning process described above.

6 **Illustration No. 3:**



18

19 **Q. What actions are being taken to provide continuous improvement to the**  
 20 **capital planning process?**

<sup>12</sup> If circumstances indicate the capital spend for a year will exceed the level previously approved by the Finance Committee of the Board, the additional capital spend is presented to the Finance Committee for approval.

1           A.     A group of employees with financial and operational knowledge have been  
2 directed to review each submitted business case for completeness and validity prior to the  
3 request being submitted to the CPG for approval. In order to allow for ample time to review  
4 business case funding submissions, a strict adherence to submission deadlines has been  
5 adopted. Prior to submittal to the CPG for funding decisions, each business case will be  
6 required to have director level support to ensure that department level prioritization has  
7 occurred. Additional improvements will come through educating project and program  
8 managers on the importance of accurately planning the monthly capital spend and transfers to  
9 plant. Further, the business case document will be refined as the capital planning process  
10 continues to mature and develop, and the Company will have a continued focus on project  
11 management best practices.

12           **Q.     What is driving the significant investment in new utility plant?**

13           A.     As Company witnesses Mr. Thies, Ms. Rosentrater, Mr. Kinney and Mr. Cox  
14 explain in their testimony, it is necessary to add or upgrade generation facilities and expand  
15 transmission and distribution facilities, due in part to asset management programs, compliance  
16 with state and federal requirements, improvements and efficiencies, reliability, maintenance,  
17 resource supply, and safety and security.

18           A significant factor in the growth in net plant investment or rate base is the cost today  
19 of new utility equipment and facilities, as compared to the cost of the older facilities that are  
20 now being replaced. Some of the facilities we are replacing or upgrading were installed 40-60  
21 years ago, or even before that time. The cost to replace these facilities today is many times  
22 more expensive than when they were installed decades ago.

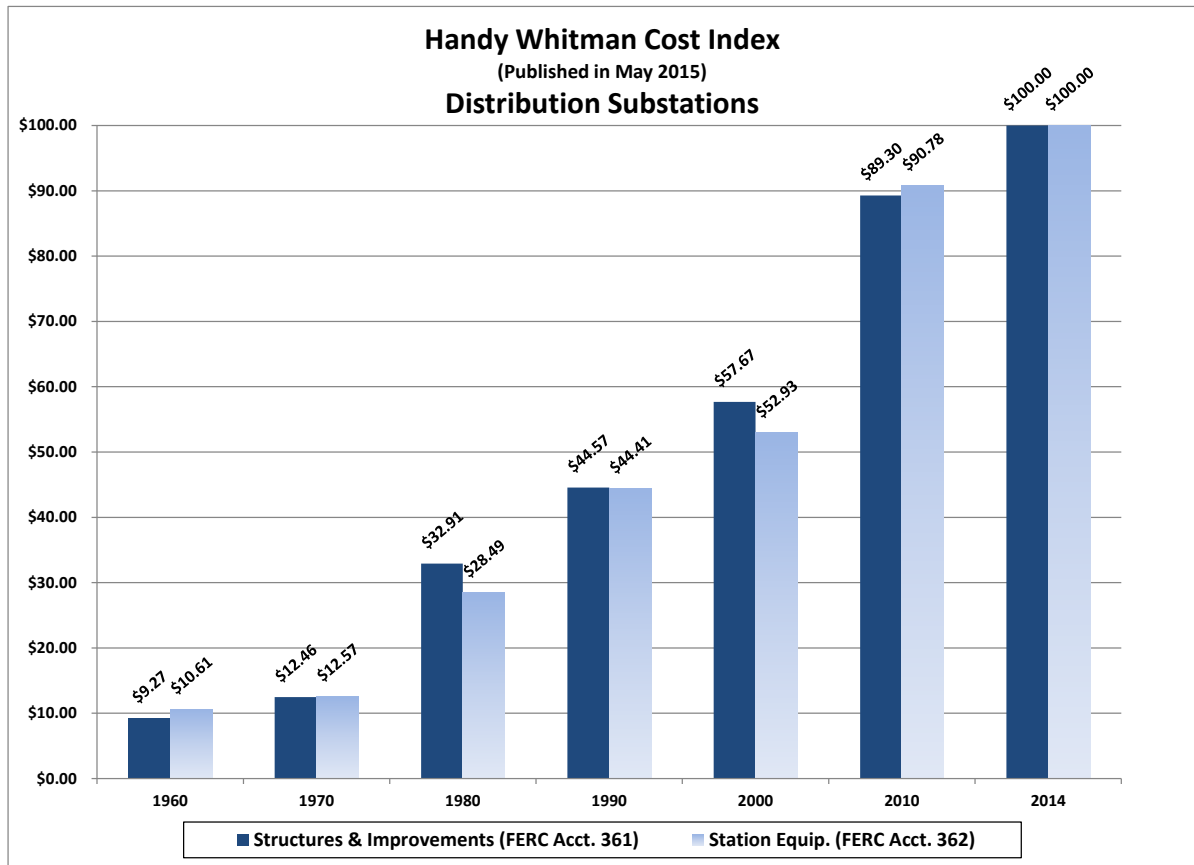
1           **Q.     What data is available that depicts the increase in the cost of utility plant**  
2 **assets that have been added in recent years, as compared to the cost of the facilities being**  
3 **replaced?**

4           A.     The Handy-Whitman Index Manual<sup>13</sup> provides cost comparison information  
5 over time for several major categories of plant. Exhibit No. \_\_\_\_ (KKS-3) depicts the increases  
6 in costs of transmission substations, transmission equipment, distribution substations, and  
7 distribution equipment that the utility industry has experienced over the past fifty years. These  
8 charts show what these categories of plant have cost historically on a relative scale. For  
9 example, on Page 4 of Exhibit No. \_\_\_\_ (KKS-3), and also shown in Illustration No. 4 below,  
10 distribution poles (FERC Account 361) fifty years ago would have a cost of approximately  
11 9% - 10% of the current replacement cost.

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<sup>13</sup> “The Handy-Whitman Index of Public Utility Construction Costs”, is published by Whitman, Requardt and Associates, Baltimore, Maryland, published in May 2015. The Handy-Whitman Indices of Public Utility Construction Costs show the level of costs for different types of utility construction. Separate indices are maintained for general items of construction, such as reinforced concrete, and specific items of material or equipment, such as pipe or turbo-generators. Handy-Whitman Index numbers are used to trend earlier valuations and original cost at prices prevailing at a certain date.

1 **Illustration No. 4:**



15 Illustration No. 4 above and Exhibit No. \_\_\_\_ (KKS-3), show that the cost of the  
 16 equipment and facilities that are being added today are many times more expensive than those  
 17 same facilities installed in the past. Our retail rates are "cost-based" and reflect the low cost  
 18 of the old equipment serving customers. When the equipment is replaced, it requires an  
 19 increase in rates to reflect the much higher cost of the new equipment.

20 **Q. With respect to Avista’s capital additions through 2016 included in the**  
 21 **Pro Forma Studies, would there be operation and maintenance (O&M) savings**  
 22 **associated with the replacement of some of the aging equipment?**

1           A.     Yes. In some instances there will be a reduction to O&M associated with the  
2 investment, and O&M cost savings have been identified and reflected in this filing. However,  
3 on a net basis, we will continue to experience increased O&M costs to maintain a system that  
4 continues to age. Our general practice is to attempt to replace our aging equipment before it  
5 fails, because it is not only less costly to replace this equipment on a systematic, planned basis,  
6 but it also results in more reliable service to customers, which is expected by all utility  
7 stakeholders. If our practice were to avoid replacing utility equipment until it failed, the  
8 reliability of our system would suffer.

9           Therefore, it is imperative that we continue every year to reinvest and upgrade a  
10 portion of our utility system, in addition to the investments needed to meet mandatory  
11 reliability requirements. The reinvestment and upgrades actually serve, to a large extent, to  
12 slow the growth of annual O&M costs, but does not result in a year-over-year reduction to  
13 overall O&M costs.

14   **IV. CAPITAL ADDITIONS DETAIL**

15           **Q.     Please provide a summary of the capital projects for 2016 through June**  
16 **30, 2018.**

17           A.     Exhibit No.\_\_(KKS-4), details the system-level capital projects that were, or  
18 will be, transferred to plant from January 1, 2016 through June 30, 2018. A listing and/or  
19 description of the capital projects and their system costs is provided below:

**Generation:**

The electric generation projects that will transfer to plant-in-service are described in detail in Mr. Kinney's direct testimony, Exhibit No.\_\_(SJK-1T). A listing of these projects on a system basis are included in Table No. 1 below.

<b>TABLENO. 1</b>			
<b>Generation / Production Capital Projects (System)</b>			
<b>Business Case Name</b>	<b>2016 \$(000's)</b>	<b>2017 \$(000's)</b>	<b>6 Mos. Ended June 2018 \$ (000's)</b>
<b>Modified Test Year Pro Forma Projects:</b>			
Colstrip Thermal Capital	\$ 12,292		
Cabinet Gorge Unit 1 Refurbishment	14,702		
Post Falls South Channel Replacement	14,092		
Nine Mile Rehab	73,193		
Little Falls Plant Upgrade	22,892		
	<b>\$ 137,171</b>		
<b>Cross Check Projects</b>			
Spokane River License Implementation	\$ 1,007	\$ 17,764	\$ 382
Kettle Falls Stator Rewind		7,930	
Peaking Generation	500	500	
Colstrip Thermal Capital		12,432	2,518
Cabinet Gorge Automation Replacement		2,342	
CGHED - Gantry Crane Replacement		3,500	
KF CT Control Upgrade		667	
KFGS Reverse Osmosis System	4,750		
Nine Mile Rehab		3,814	
Generation DC Supplied System Upgrade	700	1,033	
Coyote Springs LTSA	730	730	360
Noxon Station Service	1,477	1,172	118
Little Falls Plant Upgrade		11,470	4,780
Base Load Hydro	1,149	1,149	248
Regulating Hydro	5,786	3,533	883
Base Load Thermal Plant	2,200	2,200	
Clark Fork Settlement Agreement	6,093	4,226	1,226
Hydro Safety Minor Blanket	75	80	43
	<b>\$ 24,468</b>	<b>\$ 74,541</b>	<b>\$ 10,557</b>
<b>Total Planned Generation Capital Projects</b>	<b>\$ 161,640</b>	<b>\$ 74,541</b>	<b>\$ 10,557</b>



**Electric Transmission:**

The electric transmission projects that will transfer to plant-in-service are described in detail in Mr. Cox's direct testimony, Exhibit No. \_\_ (BAC-1T). A listing of these projects and system costs are included in Table No. 2 below.

<b>TABLE NO. 2</b>			
<b>Transmission Capital Projects (System)</b>			
<b>Business Case Name</b>	<b>2016 \$(000's)</b>	<b>2017 \$(000's)</b>	<b>6 Mos. Ended June 2018 \$(000's)</b>
<b>Modified Test Year Pro Forma Projects:</b>			
<b><u>Reliability Improvements:</u></b>			
Noxon Switchyard Rebuild	<b>\$ 11,500</b>		
<b>Cross Check Projects:</b>			
<b><u>Reliability Compliance Projects:</u></b>			
Transmission - NERC Low Priority Mitigation	\$ 1,675	\$ 3,000	
Transmission - NERC Medium Priority Mitigation	2,576	1,000	
SCADA - SOO & BUCC	1,002	1,044	460
Environmental Compliance	50	50	21
<b><u>Contractual Requirements:</u></b>			
Tribal Permits and Settlements	314	281	126
Colstrip Transmission	568	398	216
<b><u>Reliability Improvements:</u></b>			
Noxon Switchyard Rebuild		6,700	
Substation - Station Rebuilds	4,260	5,640	
Westside Rebuild Phase One	2,525		
S Region Voltage Control	5,000		
SCADA Completion		1,000	2,000
Transmission - Reconductors and Rebuilds	17,559	20,830	
Spokane Valley Transmission Reinforcement	1,340	7,200	
<b><u>Reliability Replacements:</u></b>			
Storms	1,000	1,000	502
Substation - Capital Spares	5,200	4,565	1,515
Substation - Asset Mgmt. Capital Maintenance	4,100	4,100	1,670
Transmission - Asset Management	1,772	1,000	515
	<b>\$ 48,942</b>	<b>\$ 57,808</b>	<b>\$ 7,025</b>
<b>Total Planned Transmission Capital Projects</b>	<b>\$ 60,442</b>	<b>\$ 57,808</b>	<b>\$ 7,025</b>

**Electric Distribution:**

The electric distribution projects that will transfer to plant-in-service are described in detail in Ms. Rosentraters's direct testimony, Exhibit No.\_\_(HLR-1T). A listing of these projects and system costs are included in Table No. 3 below.

<b>TABLE NO. 3</b>			
<b>Distribution Capital Projects (System)</b>			
<b>Business Case Name</b>	<b>2016 \$(000's)</b>	<b>2017 \$(000's)</b>	<b>6 Mos. Ended June 2018 \$ (000's)</b>
<b>Cross Check Projects:</b>			
Meter Minor Blanket	\$ 347	\$ 347	\$ 173
Elec Replacement/Relocation	2,750	1,670	830
Distribution Minor Rebuild	8,609	6,375	3,255
Storms	2,090	1,645	875
Primary URD Cable Replacement	200	231	190
Street Light Management	1,500	2,353	1,189
Substation - Asset Mgmt. Capital Maintenance	18	51	46
Worst Feeders	1,500	2,499	
Distribution Transformer Change-Out Program	7,654	7,354	2,603
Distribution Wood Pole Management	7,840	12,000	7,912
Substation - New Distribution Stations	2,794	275	
Washington AMI		34,420	17,025
Harrington Upgrades	2,150		
Spokane Electric Network	2,300	2,300	805
Transmission - Reconductors and Rebuilds	3,600	1,500	
Dist Grid Modernization	6,359	10,393	5,725
Segment Reconductor and FDR Tie Program	2,856	3,175	315
Distribution Line Protection	125	125	45
Environmental Compliance	350	350	150
Franchising for WSDOT	494	9	1
Hallett and White - Add Capacity*	1,000	1,725	
	<b>\$ 54,536</b>	<b>\$ 88,798</b>	<b>\$ 41,140</b>

1 **General Plant:**  
2

3 **Q. Please discuss the drivers for the Company's general plant capital projects**  
4 **that will be completed from January 1, 2016 through June 30, 2018.**

5 A. Avista's Facilities Department is the driver for most of the general plant  
6 capital additions in the upcoming years. They have reviewed many of Avista's physical  
7 facilities (i.e., buildings, property, etc.) and determined that in certain areas the following  
8 issues need to be addressed: customer and employee parking, material storage, employee  
9 office space, safety, the needs of the Company's Fleet Department and reducing offsite leased  
10 office space. Further, many of our service centers throughout our service territory were built  
11 between 1950 and 1970 and are now requiring extensive maintenance and capital investment  
12 as they are reaching the end, or beyond their useful life.

13 **Q. How does Avista's Facilities Department prioritize capital projects before**  
14 **they are submitted to the CPG?**

15 A. The overall process to prioritize projects in the Facilities Department is as  
16 follows: facilities managers and project managers meet and identify issues, propose solutions,  
17 and review the potential solutions for viability. Stakeholders from other areas of the Company  
18 such as Environmental, Real Estate, Operations, Supply Chain and other directly affected  
19 groups are then brought in to discuss and weigh in on the project and potential solutions. If  
20 these groups agree, then the project is presented to Facilities Management for approval. If  
21 approved, a business case is developed and presented to the CPG.

22 In addition, the facilities department has completed an internal building survey of all  
23 of the service centers and rated each one on its existing condition. Using this information they  
24 then met with stakeholders from Operations, Environmental, Real Estate, and other directly

1 related decision makers and discussed the business needs in each region, taking into account  
 2 current and future materials storage needs, expansion possibilities, current offsite storage  
 3 yards, environmental issues, and other factors, to rate whether each site warranted capital  
 4 upgrades only, or possible sale and replacement. Based on this discussion, sites were identified  
 5 for possible replacement or upgrade and a capital plan was created for all other sites.

6 **Q. Please provide a brief description of the general plant-related capital**  
 7 **projects that are included in the Company's electric and natural gas Pro Forma Studies**  
 8 **and those included in the Company's electric and natural gas Cross Check Studies for**  
 9 **January 1, 2016 through June 30, 2018?**

10 A. As shown in Table No. 4 below for 2016, the Company has included general  
 11 plant projects (on a system basis) totaling \$19 million for the modified test year Pro Forma  
 12 Studies. The remaining general plant projects for 2016, 2017 and January - June 2018 (for the  
 13 Cross Check studies) total \$9.1 million, \$17.6 million, and \$3.0 million respectively, on a  
 14 system basis. Details about these general plant-related capital projects are discussed below.

<b>TABLE NO. 4</b>			
<b>General Plant Capital Projects (System)</b>			
<b>Business Case Name</b>	<b>2016</b>	<b>2017</b>	<b>6 Mos. Ended</b>
	<b>\$(000's)</b>	<b>\$(000's)</b>	<b>June 2018</b>
			<b>\$(000's)</b>
<b>Modified Test Year Pro Forma Projects:</b>			
New Downtown Netwk Bldg	\$ 9,600		
COF Long-Term Restructuring Plan	9,550		
	<b>\$ 19,150</b>		
<b>Cross Check Projects</b>			
New Airport Hangar		\$ 1,500	
Clark Fork Engineering Building		1,089	
Apprentice Training	60	60	30
Structures and Improvements/Furniture	3,600	3,600	1,801
Capital Tools & Stores Equipment	2,400	2,400	1,200
COF Lng Trm Restruct Ph2	2,991	8,979	
	<b>\$ 9,051</b>	<b>\$ 17,628</b>	<b>\$ 3,031</b>
<b>Total Planned General Plant Capital Projects</b>	<b>\$ 28,201</b>	<b>\$ 17,628</b>	<b>\$ 3,031</b>

1 **The following planned general plant projects are included in the Company’s modified**  
2 **test year Pro Forma Studies:**  
3

4 **New Downtown Network Building– 2016: \$9,600,000**

5 This business case is to purchase a 2.32 acre lot with two existing office bldgs. This  
6 will provide a new service center for the Generation Production Substation Support  
7 (GPSS), outside operations, utilitymen, and downtown Spokane natural gas and  
8 electric crews. This project encompasses renovating one building, construction of a  
9 new 17,000 square foot warehouse, 10,000 square feet of new vehicle canopies, and  
10 approximately 20,000 square feet of new storage/parking lots. This will consolidate  
11 the downtown crews and equipment onto one site rather than several sites that are  
12 scattered around downtown Spokane, as well as provide new equipment such as  
13 overhead cranes and welding bays. In addition, the renovation of the existing 22,000  
14 square foot building will provide additional office space for Company projects, such  
15 as the AMI project. O&M offsets occur in this business case as the Company will  
16 reduce expenses related to leased property throughout the Spokane area. Offsets are  
17 expected to be \$229,000 annually beginning in 2016. Washington’s portion of these  
18 offsets are \$122,000 Electric and \$34,000 Natural Gas. See Exhibit No.\_\_(KKS-5),  
19 Section 2, pages 13 through 16 for business case and other information related to this  
20 project.  
21

22 **Central Office Facility (“COF”) Long Term Campus Restructuring Plan – 2016:**  
23 **\$9,550,000**

24 The COF campus restructuring plan, phase one, is a two-year, multiple project plan to  
25 address material storage, field recovery operations, and office space needs. Over the  
26 past few years, our warehouse material inventory has increased and presently the  
27 materials are scattered in multiple locations in the COF, because they outgrew their  
28 allocated space. The campus restructuring will increase and consolidate their storage  
29 area, resulting in greater efficiencies for the warehouse and field crews. In addition,  
30 two new structures will be built to consolidate transformer recovery (both PCB and  
31 non-PCB), hazardous waste & material, and investment recovery (recycling)  
32 operations. This will improve the safety and efficiencies for collection of all field  
33 recovery materials, as well as provide a one-stop drop location for field crews (instead  
34 of the three different locations on the COF right now). Due to an increase in employees  
35 and a reduction in leased office space, Avista is also remodeling two existing areas in  
36 our service building that will provide approximately 30 new cubicles, meeting rooms,  
37 and offices. This will help accommodate our new growth and may allow employees in  
38 leased office space to return to the COF. O&M Offsets are anticipated to be  
39 approximately \$43,000 in 2016 and \$60,000 in 2017 for a total of \$103,000 on a  
40 system level. Washington’s allocated portion of these offsets are \$81,000 Electric and  
41 \$22,000 Natural Gas. See Exhibit No.\_\_(KKS-5), Section 2, pages 1 through 4 for  
42 business case and other information related to this project.  
43  
44

1 **The following projects are included in the Company's Cross Check Studies for the years**  
2 **2016, 2017 and half of 2018 (For the following capital projects, see Exhibit No. \_\_ (KKS-**  
3 **5) for business cases supporting these projects, as well as additional support for certain**  
4 **projects, filed with the Company's case):**

5  
6 **New Airport Hanger – 2017: \$1,500,000**

7 In 2017 Avista will lose the lease on its existing airport hangar. The owner is losing  
8 their lease and the hangar will be demolished. Avista will have to lease a new space or  
9 buy land and build a hangar. An additional option includes lease the property and build  
10 a hangar on the leased property in exchange for a 30 to 50 year lease.

11  
12 **Clark Fork Engineering Building – 2017: \$1,089,000**

13 This project is related to the Construction of engineering and operations office space  
14 at Cabinet Gorge Hydro Electric Facility for use by Plant Engineers, Plant Manager,  
15 and visiting Staff. The existing building has been converted from a former guest  
16 house, and is in poor condition, and inadequate for current needs. This building serves  
17 as our headquarters in this area.

18  
19 **Apprentice Training – 2016: \$60,000; 2017: \$60,000; January – June 2018:**  
20 **\$30,000**

21 This program is for on-going capital improvements to support the training needed for  
22 journeyman workers, apprentices and pre-apprentices. Capital expenditures under this  
23 program include items such as: building new facilities or expanding existing facilities,  
24 purchase of training equipment, or build out of realistic utility field infrastructure used  
25 to train employees.

26  
27 **Structures and Improvements/Furniture –2016: \$3,600,000; 2017: \$3,600,000;**  
28 **January – June 2018: \$1,801,000**

29 This program is for the Capital Maintenance, Improvements, and Furniture at 50 plus  
30 Avista offices and service centers (over 700,000 square feet in total). Many of the  
31 included service centers were built in the 1950's and 1960's and are starting to show  
32 signs of severe aging. The program includes capital projects in all construction  
33 disciplines (roofing, asphalt, electrical, plumbing, HVAC, energy efficiency projects  
34 etc.).

35  
36 **Capital Tools & Stores Equipment – 2016: \$2,400,000; 2017: \$2,400,000; January**  
37 **– June 2018: \$1,200,000**

38 This category includes equipment utilized in warehouses throughout the service  
39 territory, such as forklifts, manlifts, shelving, cutting/binding machines, etc.  
40 Expenditures in this category also include large tools and instruments used throughout  
41 the Company for natural gas and/or electric construction and maintenance work,  
42 distribution, transmission, or generation operations, telecommunications, and some  
43 fleet equipment not permanently attached to the vehicle.

1           **Central Office Facility (“COF”) Long-Term Restructure Phase 2 - 2016:**  
 2           **\$2,991,000; 2017: \$8,979,000**

3           Avista’s COF Long Term Restructuring Plan, Phase 2 involves the construction of a  
 4           new Fleet Vehicle Garage and four story parking structure. By the end of 2015,  
 5           facilities projects will add approximately 183 new cubicles. Our parking lots are  
 6           beyond maximum capacity. The Company currently leases space from Burlington  
 7           Northern for employee parking. This lease space could be at risk in the future, if  
 8           Burlington needs the space. The Fleet garage is over 50 years old and is constrained.  
 9           The new garage will allow for maintenance of Compressed Natural Gas vehicles as  
 10          the current building does not allow for this. Once Fleet is relocated, there will be a  
 11          distinct separation between operational/service vehicles and employee vehicles. This  
 12          separation will increase safety by eliminating intermingling of pedestrians in work  
 13          areas. The office building & parking garage is projected to allow the Call Center and  
 14          any leased facilities to come back to the COF. The Ross Park conversion to office  
 15          space will cover any future employee expansion that will occur.

16  
 17          **Enterprise Technology:**

18  
 19          **Q.     Please discuss the drivers for the Company’s enterprise technology**  
 20          **projects that will be completed from January 1, 2016 through June 30, 2018.**

21          A.     The utility industry is undergoing a period of renewal, calling for technology  
 22          in all areas of our business. Specific drivers that prompt capital projects during the January  
 23          2016 to June 30, 2018 time period include: (1) a transition from legacy custom-coded  
 24          applications to commercial off-the-shelf solutions to increase security and reliability (i.e.,  
 25          outage management system), allow flexibility and scalability, and forecast system lifecycle  
 26          planning, (2) continuous upgrades of Operating System and Database software to maintain  
 27          vendor maintenance and support, (3) technology infrastructure investment, such as  
 28          communication equipment on mountain tops and radios in fleet vehicles to increase worker  
 29          safety during unplanned outages or emergency events, (4) network infrastructure efforts  
 30          respond to an ever increasing demand for secure data transfer, sensor technology (i.e., plant  
 31          intelligent software), reliability and redundancy.

1           **Q.     How does Avista’s technology department prioritize capital projects**  
2 **before they are submitted to the Capital Planning Group?**

3           A.     Avista’s Information Systems and Technology department uses program  
4 steering committees for project identification and prioritization. The steering committees  
5 prioritize projects using criteria such as (1) support of operational control, safety and  
6 compliance requirements, (2) customer facing and supporting solutions, and (3) maintaining  
7 back-office technology. Specifically, technology replacement projects are in alignment with  
8 roadmaps for application and technology lifecycles to provide a stable and reliable application  
9 and computing platform to allow for the safe and reliable operation of our electric and natural  
10 gas infrastructure. Technology expansion efforts anticipate growth in work requirements,  
11 strategic initiatives and technology shifts.

12           **Q.     Please provide a brief description of the enterprise technology-related**  
13 **capital projects that are included in the Company’s Pro Forma Studies and those**  
14 **included in the Company’s Cross Check Studies for January 1, 2016 through June 30,**  
15 **2018?**

16           A.     As shown in Table No. 5 below for 2016, the Company has included enterprise  
17 technology projects (on a system basis) totaling \$18 million for the modified test year Pro  
18 Forma Studies. The remaining enterprise technology capital projects for 2016, 2017 and  
19 January – June 2018 (for the Cross Check Studies) total \$25.8 million, \$88.5 million, and  
20 \$22.9 million respectively, on a system basis. Details about these technology-related capital  
21 projects are discussed below.



<b>TABLENO. 5</b>			
<b>Enterprise Technology Capital Projects (System)</b>			
	<b>2016</b>	<b>2017</b>	<b>6 Mos. Ended</b>
<b>Business Case Name</b>	<b>\$(000's)</b>	<b>\$(000's)</b>	<b>June 2018</b>
			<b>\$(000's)</b>
<b>Modified Test Year Pro Forma Projects:</b>			
Technology Refresh to Sustain Business Process	<b>\$ 18,001</b>		
<b>Cross Check Projects:</b>			
Mobility in the Field		\$ 650	\$ 400
Next Generation Radio Refresh	6,000	375	
Enterprise Security	1,360	2,500	2,200
Customer Facing Technology	286	4,000	2,000
High Voltage Protection for Substations	887		
AFM COTS Migration	3,800	11,500	
AvistaUtilities.com Redesign	5,536		
Enterprise Business Continuity Plan	664	450	225
Technology Expansion to Enable Business Process	2,742	13,700	6,975
Technology Refresh to Sustain Business Process		17,250	9,600
Microwave Refresh	4,543	4,000	1,500
WA AMI Hardware/Software/Communication		34,081	
	<b>\$ 25,816</b>	<b>\$ 88,506</b>	<b>\$ 22,900</b>
<b>Total Planned Enterprise Technology Capital Projects</b>	<b>\$ 43,817</b>	<b>\$ 88,506</b>	<b>\$ 22,900</b>

The following planned Enterprise Technology capital projects are included in the Company's modified test year Pro Forma Studies:

**Technology Refresh Program – 2016: \$18,001,000**

The Company manages an ongoing program to systematically replace aging and obsolete technology under “refresh cycles” that are timed to optimize hardware/software system changes or industry trends. An example of technology managed under this program is the fleet of personal computers and other computing devices used by field operations, power plant operators, call centers, and our general office employees. See Exhibit No.\_\_(KKS-5), Section 6, pages 59 through 64 for business case and other information related to this project.

The following projects are included in the Company's Cross Check Studies for the years 2016, 2017 and half of 2018 (For the following capital projects see Exhibit No.\_\_(KKS-5) for business cases supporting these projects as well as additional support for certain projects, filed with the Company's case.):

**Mobility in the Field - 2017: \$650,000; January – June 2018: \$400,000**

This program is designed to increase the Company's mobility in the field using mobile devices. A Mobile Road Map Team has documented at least 30 near-term opportunities where mobile technology could be used in the field and provide

1 substantial benefit and savings. These Mobile opportunities are planned to be  
 2 completed in phases over a five-year period. Phases already complete, include  
 3 ‘Visibility in the Field’ which enabled Gas Leak Survey and Gas Service Dispatch that  
 4 provided spatial maps in the field using mobile devices. Other planned opportunities  
 5 include, View GIS Layers, Multiple Maps in the Field, Gas Exposed Pipe Report,  
 6 Capture Facility Data, and Damage Assessment.

7  
 8 The many benefits would include operations improvements to reduce compliance risk,  
 9 reduce duplicate effort, more timely entry of data, along with improved tools and  
 10 information in the field.

11  
 12 **Next Generation Radio Refresh – 2016: \$6,000,000; 2017: \$375,000**

13 This project is refreshing Avista’s 20-year-old Land Mobile Radio system. The  
 14 Company maintains this private system because no public provider is capable of  
 15 supporting communications throughout our rural service territory. And, since our  
 16 systems comprise a portion of our nation’s critical infrastructure, Avista is required to  
 17 have a communication system that will operate in the event of a disaster. This project  
 18 fulfills a mandate from the Federal Communications Commission that all licensees in  
 19 the Industrial/Business Radio Pool migrate to spectrum efficient narrowband  
 20 technology .

21  
 22 **Enterprise Security Program – 2016: \$1,360,000; 2017: \$2,500,000; January –**  
 23 **June 2018: \$2,200,000**

24 There are three primary drivers of capital spending for Enterprise Security: cyber  
 25 security, physical security and regulatory standards. Each plays a critical role in  
 26 supporting our delivery of safe and reliable energy to our customers.

27 Cyber Security

28 The security of our electric and natural gas infrastructure is a significant  
 29 priority at a national and state level, and is of critical importance to Avista.  
 30 Threats from cyber space, including viruses, phishing, and spyware, continue  
 31 to test our industry’s capabilities. And while these malicious intentions are  
 32 often unknown, it is clear the methods are becoming more advanced and the  
 33 attacks more persistent. In addition to these threats, the vulnerabilities of  
 34 hardware and software systems continue to increase, especially with industrial  
 35 control systems such as those supporting the delivery of energy. For these  
 36 reasons, Avista must continue to advance its cyber security program and invest  
 37 in security controls to prevent, detect, and respond to these increasingly  
 38 frequent and sophisticated attacks.

39  
 40 Physical Security

41 While considerable attention is focused on cyber security, physical security  
 42 also remains a concern for our industry. Physical security encompasses the  
 43 aspects of employee safety and the protective security of our facilities and  
 44 critical infrastructure. Acts of theft, vandalism, and sabotage of critical  
 45 infrastructure not only results in property losses, but can also directly impact  
 46 our ability to serve customers. Securing remote unmanned or unmonitored

1 critical infrastructure is difficult, especially when traditional tools such as  
 2 perimeter fencing by itself are not adequate. In response to these challenges,  
 3 the Company has focused its resources on additional physical security  
 4 protection (i.e., lighting and crash barriers), remote detection and response  
 5 technology, which is creating the need for additional physical security items,  
 6 expertise and technology.  
 7

#### 8 Regulatory Obligations

9 Advancing cyber threats continue to drive change in the regulatory landscape  
 10 faced by the Company. Early in 2013, President Obama issued the Executive  
 11 Order “Improving Critical Infrastructure Cyber security.” The Order directed  
 12 the National Institute of Standards and Technology to work with stakeholders  
 13 in developing a voluntary framework for reducing cyber risks to critical  
 14 infrastructure. The Framework consists of standards, guidelines, and best  
 15 practices to promote the protection of critical infrastructure. The Federal  
 16 Energy Regulatory Commission also issued Order 791 on November 22, 2013,  
 17 approving the North American Electric Reliability Corporation Critical  
 18 Infrastructure Protection Standards, Version 5. Both of these activities will  
 19 increase our security-related operating costs because they require the  
 20 Company’s security controls and processes to conform to new standards,  
 21 guidelines, and best practices.  
 22

#### 23 **Customer Facing Technology Program – 2016: \$286,000; 2017: \$4,000,000;** 24 **January – June 2018: \$2,000,000**

25 New technologies continue to emerge at a rapid pace. The Company has already  
 26 funded the development of foundational systems that will better allow us to keep pace  
 27 with customer expectations and demands, through projects such as Project Compass.  
 28 Customers continue to demand a more engaging user experience and access to data  
 29 and tools that are comparable to technology industry leaders. Enhancing customer  
 30 engagement across digital channels and providing customers with tools and resources  
 31 to effectively manage their energy use and bill payment and management, makes it  
 32 easier for them to do business with Avista.  
 33

#### 34 **High Voltage Protection Upgrade – 2016: \$887,000**

35 Telecommunication facilities, including Phone, Communication Switches, SCADA,  
 36 and Metering & Monitoring systems, are commonly co-located inside the Company’s  
 37 high voltage substations. This requires communications technicians to work in close  
 38 association with our high-voltage electrical equipment. The Company has  
 39 implemented new high-voltage protection & isolation standards designed to lower  
 40 potential risks to our personnel and equipment. This project will implement the  
 41 clearance changes required to meet the new standards.  
 42

#### 43 **AFM COTS Migration – 2016:\$3,800,000; 2017: \$11,500,000**

44 Avista Facility Maintenance (AFM) is an internally developed custom application that  
 45 was built by Avista to manage the electric and gas facility & equipment data. This  
 46 tool was created in the early 2000’s and has been used by engineering and operations

1 for the last decade to complete construction design, manage outages, plan work, and  
2 manage locations of assets. Originally the Geographical Information System (GIS)  
3 was implemented at Avista to manage the location of gas and electric facilities with  
4 an electronic mapping system that allowed for centralization. Over time, this system  
5 became heavily integrated with the customer system of record (Customer Care and  
6 Billing), the Asset system of record, and used to report outage information to  
7 customers. At this time 100% of Avista's electric & natural gas distribution systems  
8 are mapped in GIS. The existing data is used daily to maintain and operate Avista's  
9 infrastructure and to report on system characteristics.

10  
11 There are technical and business risks associated with the AFM suite that must be  
12 addressed by replacing them with new commercial solutions. Some of these risks  
13 include the cost of extending current legacy solutions, ongoing support and  
14 maintenance of the tools, asset data integrity, and the increasingly complex  
15 distribution grid that requires improved IT systems to manage effectively.

16  
17 This project will take advantage of commercial tools that provide improved  
18 application functions, capabilities and reliability. Improvement of customer  
19 experience is at the core of AFM system replacement and enhancements. These new  
20 tools will enable Avista workers, office and field, to respond to customer requests  
21 faster, provide information to customers that will be more accurate, timely, complete,  
22 and improve customer experience when they interact with Avista.

23  
24 **AvistaUtilities.com Redesign – 2016: \$5,536,000**

25 Like many businesses today, the Company is experiencing continued growth in the  
26 use of its customer website, Avistautilities.com. The website was originally built in  
27 2006-2007, but because the technology landscape has advanced so quickly, the site  
28 does not meet current web best practices for customer usability and security. This  
29 project will update and improve the technology, overall web usability, security and  
30 customer satisfaction. The website is part of the Company's strategy to provide  
31 customers a more effective channel to meet their expectations for self-service options,  
32 including mobile, energy efficiency education, and to drive self-service as a means to  
33 lower transaction costs.

34  
35 **Enterprise Business Continuity Plan - 2016: \$664,000; 2017: \$450,000; January**  
36 **– June 2018: \$225,000**

37 Avista has developed and maintains an Enterprise Business Continuity Plan (Plan) to  
38 support the Company's emergency response, and to ensure the continuity of its critical  
39 business systems under crisis conditions. The framework includes the key areas of  
40 technology recovery, alternate facilities, and overall business processes. The effort of  
41 developing and continuously improving the Plan ensures the readiness of systems,  
42 procedures, processes, and people required to support our customers and our  
43 communities any time we are required to operate under critical emergency conditions.

1           **Technology Expansion to Enable Business Processes– 2016: \$2,742,000; 2017:**  
2           **\$13,700,000; January – June 2018: \$6,975,000**

3           This program facilitates technology growth throughout the Company, including  
4           technology expansion for the entire workforce, business process automation and  
5           increased technology to support efficient business processes. For example; when  
6           trucks are added to the fleet, communication equipment needs to be added to the truck;  
7           as the Company hosts more customer data, disk storage needs to be expanded, as  
8           customers expand their use of the website, additional computing capacity is needed.

9  
10           **Technology Refresh to Sustain Business Processes–2017: \$17,250,000; January –**  
11           **June 2018: \$9,600,000**

12           A detailed description of the technology refresh program is described above in the  
13           modified test year Pro Forma section.

14  
15           **Microwave Refresh – 2016: \$4,543,000; 2017: \$4,000,000; January – June 2018:**  
16           **\$1,500,000**

17           The Company manages an ongoing program to systematically-replace aging and  
18           obsolete technology under “refresh cycles” that are timed to optimize  
19           hardware/software system changes. This project will replace aging microwave  
20           communications technology with current technology to provide for high speed data  
21           communications. These communication systems support relay and protection  
22           schemes of the electrical transmission system. Reducing Avista's risk of failure of  
23           these critical communication systems will have a significant impact on Avista's  
24           transmission capacity and ability to serve our customers electrical needs.

25  
26           **WA AMI Hardware/Software/Communication – 2017: \$34,081,000**

27           These capital additions consist of the following components:

- 28           • Metering Communications Network -A specialized and secure communication  
29           system is required to carry data and communications between the advanced meter  
30           and the utility. And while there are various options available for providing this  
31           communication linkage, it often consists of three integrated systems referred to  
32           as the Neighborhood Area Network, the Field Area Network and the Wide Area  
33           Network.
- 34           • Meter Data Collection System (Head End System) - composed of computer  
35           hardware and software applications that control and coordinate the meter  
36           communication networks.
- 37           • Meter Data Management System - includes computer hardware and software  
38           applications that store, validate, edit, and analyze the interval consumption data,  
39           as well as coordinate specified metering commands.
- 40           • Data Analytics - This component of the AMI system includes computer hardware  
41           and software applications that provide deeper analysis of the advanced metering  
42           data.

1 **Natural Gas Distribution:**

2 **Q. Please discuss the drivers for the Company's natural gas distribution**  
3 **projects that will be completed from January 1, 2016 through June 30, 2018.**

4 A. There are many drivers of the natural gas capital transfers to plant in the next  
5 few years, such as, capacity limitations on the natural gas system, system reliability,  
6 regulatory compliance, public safety and health, employee safety and health, environmental  
7 impacts, availability of labor and materials and the prioritization of projects versus other needs  
8 in the system

9 **Q. How does Avista's Natural Gas Engineering department prioritize these**  
10 **capital projects before they are submitted to the CPG?**

11 A. Natural Gas Engineering uses several tools to prioritize capital projects such  
12 as the SynerGEE<sup>®</sup> computer-based modeling tool used to assess system capacity and the  
13 Distribution Integrity Management Plan (DIMP) tools to assess overbuilt pipe. Other ongoing  
14 safety and system reliability programs are also considered. Once the analysis of the factors  
15 influencing each individual project is complete, the projects are ranked accordingly in terms  
16 of priority. Projects are prioritized against the entirety of other projects in Avista's natural  
17 gas service territory, without regard to geographical location.

18 **Q. Please provide a brief description of the natural gas distribution capital**  
19 **projects that are included in the Company's natural gas Pro Forma Study and those**  
20 **included in the Company's natural gas Cross Check Studies for January 1, 2016 through**  
21 **June 30, 2018?**

22 A. As shown in Table No. 6 below, for 2016 the Company has included natural  
23 gas distribution projects (on a system basis) totaling \$28.4 million for the modified test year

1 Pro Forma Study. The remaining capital natural gas distribution projects for 2016, 2017 and  
 2 January – June 2018 (for the Cross Check Study) total \$13.5 million, \$45 million, and \$22.9  
 3 million respectively, on a system basis. Details about the natural gas distribution-related  
 4 capital projects are discussed below.

<b>TABLE NO. 6</b>			
<b>Natural Gas Distribution Capital Projects (System)</b>			
<b>Business Case Name</b>	<b>2016</b>	<b>2017</b>	<b>6 Mos. Ended</b>
	<b>\$(000's)</b>	<b>\$(000's)</b>	<b>June 2018</b>
			<b>\$(000's)</b>
<b>Modified Test Year Pro Forma Projects:</b>			
Aldyl A Replacement	\$ 18,885		
Gas Isolated Steel Replacement Program	3,550		
Gas Non-Revenue Program	6,000		
	<b>\$ 28,435</b>		
<b>Cross Check Projects</b>			
Aldyl A Replacement		\$ 19,263	\$ 8,694
Gas Overbuilt Pipe Replacement Program	900	100	49
Gas Regulator Stn Replacement Program	800	800	345
Gas Deteriorated Steel Pipe Replacement Program	1,000		
Gas Telemetry Program	400	400	189
Gas PMC Program	3,728	2,790	1,434
Gas N-S Corridor Greene St HP Main Project		1,500	
Gas N Spokane Hwy 2 HP Main Reinforcement Project		2,000	
Gas Replacement Street and Highway Program	4,500	1,185	502
Gas Isolated Steel Replacement Program		2,301	890
Gas Cathodic Protection Program	1,000	375	162
Gas Non-Revenue Program		2,560	1,263
Gas Reinforcement Program	1,200	545	228
WA AMI Natural Gas		11,162	9,133
	<b>\$ 13,528</b>	<b>\$ 44,982</b>	<b>\$ 22,889</b>
<b>Total Planned Natural Gas Distribution Capital Projects</b>	<b>\$ 41,963</b>	<b>\$ 44,982</b>	<b>\$ 22,889</b>

33 \*After revenue requirements were finalized it was determined that the Gas North-South Corridor Greene St. HP  
 34 Main Project was delayed until 2018.

35  
 36 **The following planned Natural Gas Distribution Capital projects are included in the**  
 37 **Company's modified test year Pro Forma Studies:**

38  
 39 **Aldyl A Replacement – 2016: \$18,885,000**

40 The Company is continuing with a twenty-year program to systematically remove and  
 41 replace select portions of the DuPont Aldyl A medium density polyethylene pipe in its  
 42 natural gas distribution system in the States of Washington, Oregon and Idaho. None

1 of the subject pipe is “high pressure main pipe,” but rather, consists of distribution  
 2 mains at maximum operating pressures of 60 psi and pipe diameters ranging from 1¼  
 3 to 4 inches. See Exhibit No.\_\_(KKS-5), Section 3, pages 1 through 5 for business case  
 4 and other information related to this project.  
 5

6 **Isolated Steel Replacement – 2016: \$3,550,000**

7 The Company is implementing a special cathodic protection program for the purpose  
 8 of finding and addressing isolated steel in its natural gas piping systems. See Exhibit  
 9 No.\_\_(KKS-5), Section 3, pages 37 through 40 for business case and other information  
 10 related to this project.  
 11

12 **Gas Non-Revenue Program - 2016: \$6,000,000**

13 This annual project will replace sections of existing natural gas piping that require  
 14 replacement to improve the operation of the natural gas system but are not linked to  
 15 new revenue. The project includes improvements in equipment and/or technology to  
 16 improve system operation and/or maintenance, replacement of obsolete facilities,  
 17 replacement of main to improve cathodic performance, and projects to improve public  
 18 safety and/or improve system reliability. See Exhibit No.\_\_(KKS-5), Section 3, pages  
 19 45 through 48 for business case and other information related to this project.  
 20

21 **The following projects are included in the Company’s Cross Check Studies for the years**  
 22 **2016, 2017 and half of 2018 (For the following capital projects see Exhibit No.\_\_(KKS-**  
 23 **5) for business cases supporting these projects as well as additional support for certain**  
 24 **projects, filed with the Company’s case.):**  
 25

26 **Aldyl A Replacement –2017: \$19,263,000; January – June 2018: \$8,694, 000**

27 The Aldyl A Replacement project is described above in the modified test year Pro  
 28 Forma Study section.  
 29

30 **Overbuilt Pipe Replacement – 2016: \$900,000; 2017: \$100,000; January – June**  
 31 **2018: \$49,000**

32 This annual project will replace sections of existing gas piping that have experienced  
 33 encroachment or have been “overbuilt”, i.e., where a structure has been built on top of  
 34 existing gas piping. It will address the replacement of sections of gas main that no  
 35 longer can be operated safely and will identify and replace sections of main to improve  
 36 public safety. All types of overbuilds will be addressed, with the primary focus of the  
 37 project being overbuilds in manufactured home developments.  
 38

39 **Regulator Station Reliability Replacement - 2016: \$800,000; 2017: \$800,000;**  
 40 **January – June 2018: \$345,000**

41 This annual project upgrades or replaces various regulator stations within the natural  
 42 gas distribution system, improving station reliability and reducing operation and  
 43 maintenance costs. Existing stations require upgrades due to many factors, such as  
 44 replacement of obsolete equipment and improvement in regulation technology.



**1 Replace Deteriorating Steel Gas Systems – 2016: \$1,000,000**

2 This annual program will replace sections of existing steel gas piping that are suspect  
 3 for failure or are showing signs of deterioration within the gas system. This program  
 4 will address the replacement of sections of gas main with corrosion-related issues that  
 5 no longer operate reliably and/or safely. Sections of the gas system require  
 6 replacement due to many factors including material failures, environmental impact,  
 7 increased leak frequency, or coating problems. The primary focus is to address  
 8 corrosion related pipe issues.

**9 Gas Telemetry – 2016: \$400,000; 2017: \$400,000; January – June 2018: \$189,000**

10 The projects will include the installation of six flow computers to replace existing  
 11 aging systems. Additionally this project includes all new telemetry installations, to  
 12 include both wireless and hard-wired.

**13 Gas Planned Meter Change-Out (PMC) Program-Capital Replacements – 2016:  
14 \$3,728,000; 2017: \$2,790,000; January – June 2018: \$1,434,000**

15 This annual program will provide for replacement of gas meters and associated  
 16 measurement equipment that are completed in association with the Gas Planned Meter  
 17 Change-out (PMC) program. Avista is required by commission rules and an approved  
 18 Tariff in WA, ID, and OR to test meters for accuracy and ensure proper metering  
 19 performance. Execution of this program on an annual basis will ensure the  
 20 continuation of reliable gas measurement. This program will include the labor and  
 21 minor materials associated with the PMC program.

**22 Gas North Spokane Hwy 2 HP Main Reinforcement–2017: \$2,000,000**

23 This project will reinforce the area north of the Kaiser Aluminum property along  
 24 Highway 2. The distribution system in this area is not able to reliably serve customers  
 25 on a design day. Additionally, Avista serves an asphalt plant located north of this  
 26 location which cannot be reliably served in the spring and fall. Completion of this  
 27 reinforcement will improve pressures in that area. Approximately 8,000 feet of 6 inch  
 28 high pressure steel pipe will be installed.

**29 Gas Replacement Street/Highways – 2016: \$4,500,000; 2017: \$1,185,000; January  
30 – June 2018: \$502,000**

31 This annual project will replace sections of existing natural gas piping that require  
 32 replacement due to relocation or improvement of streets or highways in areas where  
 33 natural gas piping is installed. Avista installs many of its facilities in public right-of-  
 34 way under established franchise agreements. Avista is required under the franchise  
 35 agreements, in most cases, to relocate its facilities when they are in conflict with road  
 36 or highway improvements.

**37 Isolated Steel Replacement –2017: \$2,301,000; January – June 2018: \$890,000**

38 The Isolated Steel Replacement project is described above in the modified test year  
 39 Pro Forma section.  
 40  
 41  
 42  
 43  
 44  
 45

1           **Cathodic Protection – 2016: \$1,000,000; 2017: \$375,000; January – June 2018:**  
2           **\$162,000**

3           This annual project upgrades, replaces, or installs cathodic protection systems required  
4           to ensure compliance with Pipeline and Hazardous Material Safety Administration  
5           regulations regarding proper cathodic protection of steel mains.  
6

7           **Gas Non-Revenue Program - 2017: \$2,560,000; January – June 2018: \$1,263,000**

8           The Gas Non-Revenue Program is described above in the modified test year Pro Forma  
9           section.  
10

11           **Gas Reinforcement – 2016: \$1,200,000; 2017: \$545,000; January – June 2018:**  
12           **\$228,000**

13           This annual project will reinforce portions of the existing natural gas system to ensure  
14           continued reliable service during a design day for areas that have had low pressure  
15           problems due to increased growth and/or system demand. This project will identify  
16           and install new sections of gas main to improve the operating reliability and  
17           performance of the gas distribution system. Execution of this program on an annual  
18           basis will ensure the continuation of reliable gas service that is of adequate pressure  
19           and capacity.  
20

21           **Washington Natural Gas AMI – 2017: \$11,162,000; January – June 2018:**  
22           **\$9,133,000**

23           This project will replace existing metering systems in Washington with an advanced  
24           metering system. The natural gas portion of this project involves adding a encoder  
25           receiver to the existing natural meter (not replacing the meter itself). The replacement  
26           will install an AMI metering system that will include: encoder receivers, network,  
27           back-office systems, and a data repository.  
28

29           **Other Plant:**

30           **Q.     Please discuss some of the drivers and prioritization for the Company’s**  
31           **other plant projects that will be completed from January 1, 2016 through June 30, 2018.**

32           A.     The fleet department uses a vehicle management assessment tool to determine  
33           the life cycle for fleet assets. The Jackson Prairie Storage Facility project owners meet  
34           annually to prioritize capital needs of the facility. The transportation project and the Jackson  
35           Prairie Storage project costs (system) that will transfer to plant-in-service from January 1,  
36           2016 through June 30, 2018 are included below:

37           **Fleet Budget – 2016: \$5,660,000; 2017: \$7,700,000; January – June 2018:**  
38           **\$3,850,000**

1 Expenditures are for the scheduled replacement of trucks, off-road construction  
2 equipment and trailers that meet the Company's guidelines for replacement including  
3 age, mileage, hours of use and overall condition. This also includes additions to the  
4 fleet for new positions or crews working to support the maintenance and construction  
5 of our electric and natural gas operations.  
6

7 **Jackson Prairie Storage – 2016: \$1,175,000; 2017: \$1,117,000; January – June**  
8 **2018: \$605,000**

9 These projects include various capital improvements that Avista and its partners will  
10 complete at the Jackson Prairie facility. The Company is 1/3 owner in the Jackson  
11 Prairie Storage Facility and as such, is a part of the Jackson Prairie Storage  
12 Management Committee that meets annually to discuss and approve the capital and  
13 O&M projects needed for this facility.  
14  
15

16 **V. CAPITAL ADJUSTMENTS**

17 **Q. What is the change to electric rate base for the twelve months ended**  
18 **September 30, 2015 additions, after adding in the October through December 31, 2015**  
19 **actual additions, as well as restate rate base to a calendar 2015 average-of-monthly**  
20 **average basis?**

21 A. Electric rate base for capital investment as of year-end December 31, 2015 on  
22 an AMA basis increased \$18,308,000, from \$1,250,014,000 on an September 30, 2015 AMA  
23 basis to \$1,268,322,000 on a calendar year 2015 AMA basis as shown in Table No. 7 below.

1 **Table No. 7**

(000's)	AMA Ratebase	AMA Ratebase Per Results of Operations	Difference 9.30.15 AMA and 12.31.15 AMA E-CAP15
	<u>12.31.15</u>	<u>9.30.15</u>	Total Adjustment
Total Plant Cost	\$ 2,411,404	\$ 2,374,570	\$ 36,834
Total Accumulated Depreciation	(831,518)	(823,973)	(7,545)
Total Accumulated DFIT	(311,564)	(300,583)	(10,981)
Net Rate Base	<u>\$ 1,268,322</u>	<u>\$ 1,250,014</u>	<u>\$ 18,308</u>

10 **Q. What is the change to natural gas rate base for the twelve months ended**  
11 **September 30, 2015, after adding in the October through December 2015 actual**  
12 **additions, as well as restate rate base to a calendar 2015 average-of-monthly average**  
13 **basis?**

14 A. Natural gas net rate base for capital investment as of twelve-months-ended  
15 September 30, 2015, increased \$6,105,000, from \$235,011,000 on an AMA basis to  
16 \$241,116,000 on a December 31, 2015 AMA basis. Table No. 8 below summarizes the  
17 adjustment included in the case.

**Table No. 8:**

(000's)	AMA Ratebase	AMA Ratebase Per Results of Operations	Difference 9.30.15 AMA and 12.31.15 AMA G-CAP15
			Adjustment
	12.31.15	9.30.15	
Total Plant Cost	\$ 458,579	\$ 449,707	\$ 8,872
Total Accumulated Depreciation	(149,883)	(149,072)	(811)
Total Accumulated DFIT	(67,580)	(65,624)	(1,956)
Net Rate Base	\$ 241,116	\$ 235,011	\$ 6,105

**Q. What is the change to electric rate base from 2015 on an AMA basis to January – June 2018 on an AMA basis?**

A. Electric rate base increases \$191,805,000, from \$1,268,322,000 to \$1,460,127,000, from 2015 AMA through the first half of 2018 on an AMA basis, as shown in Table No. 9 below.

**Table No. 9:**

(000's)	AMA Ratebase	AMA Ratebase Per Results of Operations	Difference 9.30.15 AMA and 12.31.15 AMA E-CAP15	2016	AMA			AMA			AMA
	12.31.15	9.30.15	Total Adj	Adj	2016	All Other Plant Adj	AMI Adj	2017	AMI Adj	All Other Plant Adj	Jan-Jun 2018
Total Plant Cost	\$2,411,404	\$ 2,374,570	\$ 36,834	\$185,544	\$2,596,948	\$168,736	\$26,304	\$2,791,988	\$ 25,898	\$ 63,793	\$2,881,679
Total AD	(831,518)	(823,973)	(7,545)	(57,803)	(889,321)	(63,672)	(1,640)	(954,633)	(5,069)	(49,988)	(1,009,690)
Total ADFIT	(311,564)	(300,583)	(10,981)	(38,819)	(350,383)	(35,472)	(3,962)	(389,817)	(3,346)	(18,699)	(411,862)
Net Rate Base	\$1,268,322	\$ 1,250,014	\$ 18,308	\$ 88,922	\$1,357,244	\$ 69,593	\$20,702	\$1,447,539	\$ 17,483	\$ (4,894)	\$1,460,127

**Q. What is the change to natural gas rate base from 2015 on an AMA basis to January – June 2018 on an AMA basis?**

1 A. Natural gas rate base increases \$43,078,000, from \$241,116,000 to  
 2 \$284,194,000, from 2015 AMA through the first half of 2018 on an AMA basis, as shown in  
 3 Table No. 10 below.

4 **Table No. 10:**

5

(000's)	AMA Ratebase		AMA Ratebase Per Results of Operations	Difference 9.30.15 AMA and 12.31.15 AMA G-CAP15	2016	AMA			AMA			AMA
	12.31.15	9.30.15	Total Adj	Adj	2016	All Other Plant Adj	AMI Adj	2017	AMI Adj	All Other Plant Adj	Jan-Jun 2018	
Total Plant Cost	\$ 458,579	\$ 449,707	\$ 8,872	\$ 34,735	\$ 493,313	\$ 27,343	\$ 10,946	\$531,602	\$ 10,552	\$ 12,274	\$ 554,428	
Total AD	(149,883)	(149,072)	(811)	(11,259)	(161,142)	(12,875)	(578)	(174,594)	(1,729)	(10,026)	(186,349)	
Total ADFIT	(67,580)	(65,624)	(1,956)	(3,973)	(71,553)	(5,512)	(1,365)	(78,429)	(1,173)	(4,284)	(83,885)	
Net Rate Base	\$ 241,116	\$ 235,011	\$ 6,105	\$ 19,503	\$ 260,619	\$ 8,957	\$ 9,004	\$278,580	\$ 7,651	\$ (2,036)	\$ 284,194	

6

7

8

9

10

11 **Q. Did you factor in retirements for the October 2015 through June 30, 2018**  
 12 **Electric and Natural gas capital adjustments?**

13 A. Yes. The Company used an estimate based on planned transfers-to-plant and  
 14 historical retirements, and then allocated these by functional group to service and jurisdiction.  
 15 Further detail is provided in my workpapers.

16 **Q. How were the offsets determined for the October 2015 through June 30,**  
 17 **2018 plant investment?**

18 A. Each Pro Forma capital addition was analyzed to determine any offsets (e.g.,  
 19 reduced O&M costs, reduced load losses, etc.). Maintenance records were reviewed to  
 20 determine whether any specific maintenance costs were incurred in the test period that would  
 21 be reduced or eliminated by the investment at the facility. Those costs were quantified and  
 22 included as a reduction to O&M costs in the O&M Savings Pro Forma adjustment included  
 23 by Ms. Smith in the revenue requirement as a part of her Pro Forma Study.

1           In addition, the output from generation assets is included in the AURORA<sub>XMP</sub> power  
2 cost model. Therefore, to the extent that the additional investments serve to either preserve or  
3 increase generation from the generation projects, the benefits are already reflected in the  
4 AURORA<sub>XMP</sub> model.

5           **Q.     What is the rationale behind the removal of capital expenditures for**  
6 **connecting new customers in the Pro Forma and Cross Check Studies?**

7           A.     The capital expenditures for the period October 2015 through June 30, 2018  
8 exclude distribution-related capital expenditures that are associated with connecting new  
9 customers to the Company's system. Excluding these capital expenditures from the Pro Forma  
10 Studies and from the Cross Check Studies recognizes the fact that new customers provide  
11 incremental revenue that helps offset the costs associated with these distribution-related  
12 capital additions. Retail revenues for the Pro Forma Studies and the Cross Check Studies are  
13 based on historical test period loads, and do not include revenues from new customers beyond  
14 the test period.

15

16                           **VI.    ADVANCED METERING INFRASTRUCTURE (AMI)**

17           **Q.     Please briefly describe the Electric and Natural Gas AMI projects.**

18           A.     As Ms. Rosentrater discusses in detail in her testimony, the Company is  
19 planning to deploy advanced meters for its electric and natural gas customers in Washington.  
20 The project will deploy advanced meters beginning in 2017, to approximately 253,000 electric  
21 customers, and 155,000 natural gas customers. Through the Company's AMI project, a  
22 complete replacement of the existing electric meters will occur, and these meters will be  
23 replaced with a new digital advanced meter. Existing natural gas meters will be upgraded

1 with a new digital communicating module referred to as an “Encoder Receiver Transmitter”  
2 or “ERT”.

3 **Q. Has the Company included any AMI capital costs in the Cross Check**  
4 **Studies adjustments above?**

5 A. Yes. The Company has included a total of \$105.7 million for 2017 through  
6 June 30, 2018. The \$105.7 million relates to gross transfers to plant on an end of period basis  
7 from January 1, 2017 to June 30, 2018. The amount reflected in this case is the AMA level of  
8 capital totaling \$50.2 million gross transfers to plant. The \$105.7 million is broken out  
9 between electric distribution shown in Table No. 3 above of \$51.4 million, natural gas  
10 distribution as shown in Table No. 5 above of \$20.3 million, and enterprise technology as  
11 shown in Table No. 7 above as \$34 million.

12 **Q. Please describe the life expectancy of the AMI Meters and infrastructure.**

13 A. AMI meters are expected to have a 15 year life. The Company is proposing in  
14 this case that a 15 year life be used instead of the current approved rate of approximately 29  
15 years for Washington standard meters. The backend equipment (hardware and software) that  
16 will be supporting the AMI meters has a lifetime expectancy of normal hardware and software,  
17 and will be depreciated in accordance with the Company’s most recent depreciation study.

18 **Q. Upon installation of the new electric distribution meters, will the existing**  
19 **electric meters be fully depreciated on Avista’s books?**

20 A. No. As of December 31, 2015, the Company has approximately \$20.2 million  
21 on its books related to the net book value of its existing electric distribution meters.

22 **Q. How does the Company propose to account for the existing meters?**



1           A.       The Company plans to begin changing out meters in 2017, and plans to execute  
2 an agreement with a meter vendor in early 2016 in order to do so. When Avista executes an  
3 agreement with a meter vendor, it will be committing to remove and replace the existing  
4 electric meters with new meters. This commitment triggers, and requires, certain accounting  
5 to occur under Generally Accepted Accounting Principles (GAAP). As explained by the  
6 Company in its “Petition for an Order Authorizing Deferred Accounting Treatment related to  
7 the Undepreciated Net Book Value of the Company’s Existing Meters,” (Docket No. UE-  
8 160100) the Company is requesting to move the balance in plant accounts to a regulatory asset  
9 account at the time of signing an agreement. Based on the assumed undepreciated value of  
10 the meters at time of the final installation in 2020, the estimated net book value of the existing  
11 meters to transfer from electric distribution plant, and record as a regulatory asset in FERC  
12 Account 182.3 is \$18.6 million at the time an agreement is signed. The Company requests that  
13 the its authorized rate of return be accrued on the unamortized balance of the regulatory asset  
14 until fully amortized<sup>14</sup>.

15           The Company is proposing to amortize this regulatory asset balance over a fifteen-  
16 year period through FERC Account 407, starting in January of 2017, or approximately \$1.2  
17 million in amortization expense per year. In 2017, the Company will continue to depreciate  
18 the existing meters at approximately \$834,000 compared to the test period depreciation  
19 expense of \$918,000. Therefore, a net reduction in depreciation expense of \$84,000 is  
20 included, in addition to the increase in amortization expense of \$1.2 million, for a net increase  
21 in expense of \$1.1 million. Ms. Smith, within her electric Pro Forma Study, has reflected the

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<sup>14</sup> Without approval from the WUTC for a full rate of return on the regulatory asset, the estimated write-off the Company would incur would be approximately \$4.6 million based on the proposed 15-year amortization of the regulatory asset.

1 reduction to net plant and depreciation expense, as well as the inclusion of the regulatory asset  
2 and amortization expense in adjustment 3.07 – Pro Forma Meter Deferral and amortization.

3

4 **VII. SUPPORTING DOCUMENTATION AND REPORTING FOR CAPITAL**

5 **ADDITIONS**

6 **Q. What has the Company provided to the Commission regarding capital**  
7 **additions?**

8 A. Starting in 2013, the Company provided capital reports on a quarterly basis as  
9 a result of the Commission’s Order in the Company’s 2012 general rate case.<sup>15</sup> In that case,  
10 the Commission ordered the Company to file quarterly progress reports showing budget-to-  
11 actual information on capital expenditures, including updates or changes to the overall capital  
12 expenditure plan. The five quarterly reports started in September of 2013 and continued  
13 through 2014.

14 Following the Company’s next general rate case<sup>16</sup>, the Company conferred with all  
15 parties to the case regarding additional details for reporting, and it was agreed by all parties  
16 that the capital reporting would be expanded to include more detailed information by  
17 expenditure request, including transfers-to-plant, budget vs. actual information and  
18 construction work in progress, all to be reported twice a year instead of quarterly. The first  
19 semi-annual report was filed on February 26, 2015, and is attached as Exhibit No. \_\_\_\_ (KKS-  
20 6). On September 1, 2015, the Company filed its second semi-annual report attached as  
21 Exhibit No. \_\_\_\_ (KKS-7).

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<sup>15</sup> Docket No. UE-120436 & UG-120437 (Consolidated), Order No. 09.

<sup>16</sup> Docket No. UE-140188 & UG-140189 (Consolidated).

1           **Q.     How did the Company address the Commission’s order to work with Staff**  
2 **on documenting Avista’s capital spending plans?**

3           A.     In the Company’s last general rate case, the Commission stated:<sup>17</sup>

4           Before seeking further rate increases for its electric service, the Company must provide  
5 more analysis showing how it plans and prioritizes investments in its distribution  
6 system, and how those decisions impact system reliability and economy. Staff asserts  
7 that the examination of Avista’s capital spending plans and results is called for, and  
8 we agree. We encourage the Company to work with Staff on this issue.

9  
10          The Company has provided additional details regarding electric distribution plant in  
11 Ms. Rosentrater’s testimony, as well as additional documentation in Exhibit No. \_\_\_\_ (KKS-  
12 5). In addition, the Company has included in Exhibit No. \_\_\_\_ (KKS-5) additional  
13 documentation for all other capital projects included in the Company’s modified test year Pro  
14 Forma and Cross Check adjustments. The Company contacted Commission staff on February  
15 9, 2016 to discuss the level of information included in this filing.

16          **Q.     Does this conclude your pre-filed direct testimony?**

17          A.     Yes, it does.

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<sup>17</sup> Docket Nos. UE-150204 and UG-150205, Order 05, p. 52, ¶ 141.