

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

DOCKET NO. UE-20 \_\_\_\_\_

DOCKET NO. UG-20 \_\_\_\_\_

EXH. KJS-2

KAYLENE J. SCHULTZ

REPRESENTING AVISTA CORPORATION

**Avista 2018 and 2019  
Capital Additions Detail (System)  
(Calendar Year Transfers to Plant)**

Exh. KJS-2

<b><u>2018 and 2019 Major Projects:*</u></b>	<b><u>Witness</u></b>	<b><u>2018</u></b>	<b><u>2019</u></b>
Campus Repurposing Phase 2	Exh. HLR-1T	\$ 12,304,512	\$ 16,130,430
Distribution Grid Modernization	Exh. HLR-1T	14,788,545	10,112,822
Distribution Minor Rebuild	Exh. HLR-1T	9,272,548	11,868,906
Dollar Road Natural Gas Service Center Project	Exh. HLR-1T	17,195,902	7,038,810
Downtown Campus	Exh. HLR-1T	7,893,920	22,210
Endpoint Compute and Productivity Systems	Exh. JMK-1T	1,033,833	10,919,526
Little Falls Plant Upgrade	Exh. JRT-1T	7,892,001	8,953,839
Natural Gas Cheney HP Reinforcement	Exh. HLR-1T		3,048,353
Natural Gas Facility Replacement Program (GFRP) Aldyl A Pipe Replacement	Exh. HLR-1T	21,914,044	22,002,672
Natural Gas Non-Revenue Program	Exh. HLR-1T	8,811,389	8,173,893
Natural Gas N-S Corridor Greene St HP Main Project	Exh. HLR-1T	2,905,791	0
Natural Gas Replacement Street and Highway Program	Exh. HLR-1T	4,704,048	7,592,120
Nine Mile Rehabilitation	Exh. JRT-1T	8,556,852	322,027
Rattlesnake Flat Wind Farm Project 115kV Integration Project	Exh. HLR-1T		9,467,516
South Region Voltage Control	Exh. HLR-1T		7,802,071
Saddle Mountain 230/115kV Station (New) Integration Project Phase 1	Exh. HLR-1T	2,554,495	8,943,952
Substation Rebuilds Program	Exh. HLR-1T	17,856,512	17,773,790
Transmission Construction - Compliance	Exh. HLR-1T	10,845,388	5,883,218
Transmission Major Rebuild - Asset Condition	Exh. HLR-1T	7,760,684	314,005
Westside 230/115kV Station Brownfield Rebuild Project	Exh. HLR-1T	9,559,989	650,861
Wood Pole Management	Exh. HLR-1T	10,999,184	10,373,071
<b>Total Major 2018 and 2019 Projects</b>		<b><u>\$ 176,849,635</u></b>	<b><u>\$ 167,394,091</u></b>

\*The selection of major projects was based on any project (business case), on a Washington-allocated basis, that was greater than \$5 million for electric operations and greater than \$2 million for natural gas operations. The Company included major capital project detail for 2018 and 2019 in each witness' testimony in order to provide more information and support for its test year capital additions. The Company is, however, requesting all capital included in the 2019 test period in this case, which includes all capital additions through December 31, 2019.

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**2018 and 2019 Remaining Test Year Projects:**

**Generation / Environmental (JRT-4)**

	<b><u>2018</u></b>	<b><u>2019</u></b>
Automation Replacement	\$ 1,231,420	\$ 319,503
Base Load Hydro	943,795	748,288
Base Load Thermal Program	2,218,870	2,305,760
Cabinet Gorge Gantry Crane Replacement	-	7,337,363
Clark Fork Settlement Agreement	2,076,672	994,801
Colstrip 3&4 Capital Projects	5,125,260	2,868,628
Coyote Springs 2 - Failed Plant	668,298	58,246
Coyote Springs LTSA	-	44,858
Environmental Compliance	559	12,513
Generation DC Supplied System Update	2,435,491	(15,071)
HMI Control Software	54,541	2,918
Hydro Safety Minor Blanket	242,972	-
Kettle Falls Stator Rewind	1,544	-
Kettle Falls Water Treatment System	2,855,598	108,733
KF Turbine 15th Stage Buckets	-	881,267
KFGS Boiler Tube Maintenance - Economizer Section	-	2,003,459
Long Lake Plant Upgrade	3,488,539	733,802
Noxon Rapids Spillgate Refurbishment	-	1,520,447
Noxon Station Service	253,910	-
Peaking Generation Business Case	110,416	322,615
Post St Transformer Cooling	943,042	217,473
Regulating Hydro	6,330,403	1,966,017
Resource Metering, Telemetry, and Controls Upgrade	165,998	-
Solar Combustion Turbine Controls Upgrade	541,721	17,699
Spokane River License Implementation	415,863	435,911
	<b><u>\$ 30,104,912</u></b>	<b><u>\$ 22,885,228</u></b>

**General (HLR-10):**

Airport Hangar	\$ 1,951,555	\$ 288,331
Apprentice/Craft Training	136,695	1,890
Capital Tools & Stores	2,717,260	1,771,563
CNG Fleet Conversion	75,174	-
Community Solar - Boulder Park	147	-
Company Aircraft Capital	6,197,768	-
Ergonomic Equipment	1,024,405	(51,203)
Fleet Services Capital Plan	8,560,627	6,662,890
HVAC Renovation Project	-	276,872
Jackson Prairie Joint Project	2,351,222	2,489,056
New Deer Park Service Center	-	6,270,744
Noxon & Clark Fork Living Facilities	524,385	1,604,558
Productivity	7,098,685	3,592,802
Strategic Initiatives	1,056,725	775,452
Structures and Improvements/Furniture	3,931,029	1,558,328
	<b><u>\$ 35,625,676</u></b>	<b><u>\$ 25,241,284</u></b>

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<b><u>2018 and 2019 Test Year Projects:</u></b>	<b><u>2018</u></b>	<b><u>2019</u></b>
<b>Natural Gas Distribution (HLR-10):</b>		
Natural Gas Cathodic Protection Program	\$ 311,249	\$ 784,320
Natural Gas Isolated Steel Replacement Program	1,416,008	1,459,659
Natural Gas N Spokane Hwy 2 HP Main Reinforcement Project	42,168	-
Natural Gas Operator Qualification Compliance	-	248,710
Natural Gas Overbuilt Pipe Replacement Program	85,263	755,731
Natural Gas PMC Program	2,863,796	2,852,374
Natural Gas Regulator Station Replacement Program	1,067,355	996,497
Natural Gas Reinforcement Program	1,767,984	795,172
Natural Gas Telemetry Program	214,943	159,810
New Revenue - Growth	41,749,563	33,420,851
	<b><u>\$ 49,518,330</u></b>	<b><u>\$ 41,473,124</u></b>

**Enterprise Technology (JMK-2):**

Atlas	\$ 2,242,717	\$ 399,255
Basic Workplace Technology Delivery	-	241
CIP v5 Transition - Cyber Asset Electronic Access	-	1,016,355
Customer Facing Technology Program	7,432,557	6,950,848
Data Center Compute and Storage Systems	207,966	2,233,253
Digital Grid Network	2,470,662	531,567
Energy Delivery Modernization	6,868	4,124,999
Energy Delivery Operational Efficiency & Shared Services	1,973,649	5,187,210
Energy Resources Modernization & Operational Efficiency	509,680	895,569
Enterprise & Control Network Infrastructure	1,307,216	5,021,478
Enterprise Business Continuity	257,515	-
Enterprise Communication Systems	428,669	2,050,011
Enterprise Data Science	-	1,437,251
Enterprise Information Management & Analytics	1,829,613	100,902
Enterprise Security	1,037,227	3,816,881
Environmental Control & Monitoring Systems	100,618	749,778
ET Modernization & Operational Efficiency - Technology	1,753,393	2,462,107
Facilities and Storage Location Security	-	1,009,634
Facilities Driven Technology Improvements	-	82,544
Financial & Accounting Technology	1,195,280	3,446,598
High Voltage Protection (HVP) Refresh	163,122	291,477
Human Resources Technology	135,775	120,315
Land Mobile Radio & Real Time Communication Systems	180,863	1,040,335
Legal & Compliance Technology	127,413	201,916
Microwave Refresh Business Case	774,919	263,251
Payment Card Industry Compliance (PCI)	-	617,112
Technology Expansion to Enable Business Process	5,782,285	39,816
Technology Failed Assets	1,695	786,634
Technology Refresh to Sustain Business Process	8,687,848	3,713,767
	<b><u>\$ 38,607,552</u></b>	<b><u>\$ 48,591,105</u></b>

**Avista 2018 and 2019  
Capital Additions Detail (System)  
(Calendar Year Transfers to Plant)**

Exh. KJS-2

<b><u>2018 and 2019 Test Year Projects:</u></b>	<b><u>2018</u></b>	<b><u>2019</u></b>
<b>Electric Transmission / Distribution (HLR-10):</b>		
Colstrip Transmission	\$ 120,892	\$ 357,673
Distribution Transformer Change Out Program	2,064,151	995,659
Downtown Network - Asset Condition	2,742,350	1,815,954
Downtown Network - Performance & Capacity	340,338	379,678
Electric Relocation and Replacement Program	1,573,450	1,693,571
Electric Storm	3,190,440	6,237,565
Harrington Upgrades	143,563	(10,497)
LED Change-Out Program	1,367,942	676,578
Lind Solar Project #53 Interconnection	1,335,341	16,907
Meter Minor Blanket	257,742	198,169
New Revenue - Growth	39,337,493	38,168,322
Ninth & Central 230kV Station & Transmission	-	273,542
Noxon Switchyard 230kV Breaker Replacement	(592,370)	2,576,358
Primary URD Cable Replacement	637,472	813,805
Protection System Upgrade for PRC-002	-	1,165,241
SCADA - SOO and BuCC	528,722	508,435
Segment Reconductor and FDR Tie	3,685,446	4,853,883
Spokane Valley Transmission Reinforcement Project	-	(110)
Substation - New Distribution Station Capacity Program	636,660	3,768,440
Transmission - Minor Rebuild	586,929	3,971,001
Transmission NERC Low-Risk Priority Lines Mitigation	774,519	744,660
Transmission NERC Medium-Risk Priority Lines Mitigation	(155,480)	-
Tribal Permits & Settlements	87,307	1,251,484
West Plains New 230kV Substation	-	292,596
	<b><u>\$ 58,662,906</u></b>	<b><u>\$ 70,748,913</u></b>
<b>Total 2018 and 2019 Capital Additions (System) - Excluding AMI, ID and OR Specific</b>	<b><u>\$ 389,369,011</u></b>	<b><u>\$ 376,333,745</u></b>

**Pro Forma Capital Additions Detail (System)  
(Calendar Year Transfers to Plant)**

**2020 Pro Forma Projects (System):****2020****PF 3.11 - Customer at the Center (Exh. KEM-1T)**

Customer Facing Technology Program	\$	15,453,573
Customer Transactional Systems		1,798,082
Strategic Initiatives* (Customer Experience Program)		5,077,143

**PF 3.12 - Large & Distinct (Exh. JRT-1T, Exh. HLR-1T, or Exh. JMK-1T)**

Cabinet Gorge 15 kV Bus Replacement	\$	1,400,000
Cabinet Gorge Automation		4,083,319
Campus Repurposing Phase 2		2,882,296
CS2 Single Phase Transformer		3,114,004
Digital Grid Network		2,210,330
Electric Storm* (2020 Labor Day Storm Costs & Chelan-Stratford Tx Line)		12,106,375
Natural Gas Cheney HP Reinforcement		4,917,961
Jackson Prairie Joint Project		2,260,081
Land Mobile Radio & Real Time Communication Systems		2,462,357
Rattlesnake Flat Wind Farm Project 115kV Integration Project		10,453,640

**PF 3.13 - Programmatic (Exh. JRT-1T, Exh. HLR-1T, or Exh. JMK-1T)**

Base Load Thermal Program	\$	2,303,669
Capital Tools & Stores		1,248,193
Distribution Grid Modernization		7,896,876
Distribution Minor Rebuild		8,384,352
Downtown Network - Asset Condition		1,716,542
Downtown Network - Performance & Capacity		2,667,155
Electric Storm		3,819,231
Enterprise & Control Network Infrastructure		6,904,550
Environmental Control & Monitoring Systems		964,720
Fiber Network Lease Service Replacement		1,053,966
Fleet Services Capital Plan		7,057,566
Natural Gas Non-Revenue Program		7,275,307
Natural Gas Regulator Station Replacement Program		861,927
Natural Gas Reinforcement Program		1,161,519
Regulating Hydro		1,646,371
SCADA - SOO and BuCC		1,975,749
Segment Reconductor and FDR Tie		6,859,809
Structures and Improvements/Furniture		2,597,517
Substation - New Distribution Station Capacity Program		11,629,936
Substation - Station Rebuilds Program		13,741,428
Technology Failed Assets		1,016,943
Transmission - Minor Rebuild		1,778,571
Wood Pole Management		10,334,299

**Pro Forma Capital Additions Detail (System)  
(Calendar Year Transfers to Plant)**

**PF 3.14 - Mandatory & Compliance (Exh. JRT-1T or Exh. HLR-1T)**

Clark Fork Settlement Agreement	\$ 1,962,038
Electric Relocation and Replacement Program	2,409,847
Natural Gas Cathodic Protection Program	754,474
Natural Gas Facility Replacement Program (GFRP) Aldyl A Pipe Replacement	22,209,770
Natural Gas Isolated Steel Replacement Program	1,298,601
Natural Gas PMC Program	2,587,271
Natural Gas Replacement Street and Highway Program	2,707,549
Joint Use* (previously embedded in Distribution Minor Rebuild)	2,725,555
Protection System Upgrade for PRC-002	1,275,526
Saddle Mountain 230/115kV Station (New) Integration Project Phase 1	28,666,330
Spokane River License Implementation	1,193,332
Transmission Construction - Compliance	9,958,308
Transmission NERC Low-Risk Priority Lines Mitigation	4,342,284
Westside 230/115kV Station Brownfield Rebuild Project	3,500,005

**PF 3.15 - Short-Lived (Exh. JMK-1T)**

Atlas	\$ 2,797,091
Data Center Compute and Storage Systems	2,105,189
Endpoint Compute and Productivity Systems	5,033,636
Energy Delivery Operational Efficiency & Shared Services	3,222,532
Energy Resources Modernization & Operational Efficiency	1,714,386
Enterprise Communication Systems	3,096,065
Enterprise Data Science	1,435,540
Enterprise Security	3,664,727
ET Modernization & Operational Efficiency - Technology	2,233,463
Financial & Accounting Technology	1,357,761

**Total 2020 Pro Forma Projects (System)**

<b>\$ 285,366,637</b>
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Remaining 2020 Projects Not Included In Case

64,108,114

**Total 2020 Capital Additions Excluding ID and OR specific, AMI, EIM, Wildfire, and Colstrip**

<b>\$ 349,474,751</b>
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