

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

DOCKET NO. UE-19 _____

DOCKET NO. UG-19 _____

EXH. KKS-2

KAREN K. SCHUH

REPRESENTING AVISTA CORPORATION

**Avista 2017 and 2018
Capital Additions Detail (System)
(Calendar Year Transfers to Plant)**

Exh. KKS-2

2017 and 2018 Major Projects :

	<u>2017</u>	<u>2018</u>
New Revenue – Growth	\$ 7,574,651	\$ 8,037,015
Distribution Minor Rebuild	13,752,649	9,272,548
Distribution Wood Pole Management	9,584,384	10,999,184
Distribution Grid Modernization	16,541,615	14,519,118
Westside 230/115kV Substation Rebuild Phase I	-	9,559,989
Devils Gap-Lind 115kV Transmission Rebuild Proj	(349,451)	8,747,341
Gas Non-Revenue Program	9,670,341	8,811,389
Gas Facilities Replacement Program (Aldyl A)	18,371,496	21,914,044
Gas North Spokane Hwy 2 HP Main Reinforcement	2,633,799	42,168
NSC Greene St HP Gas Main	-	2,905,791
Nine Mile Rehabilitation	7,679,798	8,556,852
Little Falls Plant Upgrade	10,258,268	7,892,001
Technology Refresh to Sustain Business Process	15,001,195	8,687,848
Technology Expansion to Enable Business Process	15,603,232	5,782,285
AvistaUtilities.com Redesign	11,858,541	-
COF Long-Term Restructuring Plan 2	4,557,762	12,304,512
Dollar Road Service Center Addition and Remodel	3,195,906	17,195,902

Total Major 2017 and 2018 Projects

\$ 145,934,186 \$ 155,227,987

**2017 and 2018 Test Year Projects:
Generation /Environmental (JRT-4)**

	<u>2017</u>	<u>2018</u>
Colstrip Thermal Capital	\$ 10,425,019	\$ 4,528,292
CS2 Generator Step Up Transformer Swap	-	668,298
Base Load Hydro	760,120	943,795
Regulating Hydro	5,520,850	6,330,403
Base Load Thermal Plant	2,666,663	2,218,870
Peaking Generation	628,596	110,416
Cabinet Gorge Unit 1 Refurbishment	47,178	-
Post Falls South Channel Gate Replacement	10,213	-
Long Lake Plant Upgrades	-	3,488,539
Noxon Station Service	3,536,726	253,910
Kettle Falls Stator Rewind	4,154,695	1,544
Generation DC Supplied System Upgrade	43,251	2,435,491
Kettle Falls Reverse Osmosis System	-	2,855,598
Kettle Falls CT Control Upgrade	-	541,721
Automation Replacement	289,863	1,231,420
Purchase Certified Rebuilt Cat D10R Dozer	727,541	-
Post Street Substation Transformer Cooling	-	943,042
Resource Metering, Telemetry, and Controls Upgrade	-	165,998
HMI Control Software	-	54,541
Hydro Safety Minor Blanket	99,587	242,972
Forest Service Requirements	-	559
Clark Fork Settlement Agreement	2,958,929	2,076,672
Spokane River License Implementation	814,264	415,863

\$ 32,683,497 \$ 29,507,944

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General (HLR-7):

Fleet Capital Replacement Program	6,624,194	8,560,627
Structures and Improvements/Furniture	1,032,694	3,931,029
Productivity Initiative	5,507,543	7,098,685
Strategic Initiatives	1,688,026	1,056,725
Capital Tools & Stores Equipment	3,993,463	2,717,260
Long term Campus Re-Structuring Plan	3,065,078	-
Compressed Natural Gas (CNG) Fleet Conversion	76,260	75,174
New Airport Hanger		1,951,555
Downtown Campus		7,893,920
Community Solar - Boulder Pk		147
Noxon & Clark Fork Living Facilities	2,036,182	524,385
Ergonomic Equipment	589,902	1,024,405
Apprentice Craft Training		136,695
Jackson Prairie Storage	1,653,586	2,351,222
Company Aircraft Capital	369,038	6,197,768
	\$ 26,635,965	\$ 43,519,597

Natural Gas Distribution (HLR-7):

New Revenue Growth	37,160,322	38,321,873
Gas ERT Replacement Program	1,183,597	3,427,690
Gas Reinforcement	1,192,295	1,767,984
Gas Regulator Station Reliability Replacement	1,115,307	1,067,355
Gas Replacement Street and Highway Program	2,956,031	4,704,048
Cathodic Protection	1,101,801	311,249
Overbuilt Pipe Replacement	501,419	85,263
Gas Isolated Steel Replacement	1,570,633	1,416,008
Gas Planned Meter Change-Out (PMC) Program-Capital Replacements	2,193,827	2,863,796
Gas Telemetry	147,291	214,943
Goldendale HP	1,375	
	\$ 49,123,898	\$ 54,180,209

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Enterprise Technology (JMK-2):

Enterprise Business Continuity Plan	640,382	257,515
Enterprise Security	2,269,036	1,037,227
Endpoint Compute and Productivity Systems	-	1,033,833
Energy Delivery Modernization	-	6,868
Energy Delivery Op Efficiency & Shared Services	-	1,973,649
Energy Resources Modernization & Op Efficiency	-	509,680
Enterprise & Control Network Infrastructure	-	1,307,216
Enterprise Communication Systems	-	428,669
Enterprise Information Management & Analytics	-	1,829,613
Environmental Control & Monitoring Systems	-	100,618
ET Modernization & Op Efficiency - Technology	-	1,753,393
Financial & Accounting Technology	-	1,195,280
Human Resources Technology	-	135,775
Land Mobile Radio & Real Time Comm Systems	-	180,863
Legal & Compliance Technology	-	127,413
Infrastructure Technology Failed Assets	-	1,695
Next Generation Radio Refresh	324,237	
Microwave Refresh	5,305,365	774,919
High Voltage Protection for Substations	788,500	163,122
Mobility in the field	266,168	-
Project Atlas	6,493,524	2,242,717
Transmission Outage Management	4,674	-
Customer Facing Technology	2,294,461	7,432,557
Data Center Compute and Storage Systems		207,966
Digital Grid Network Expansion		2,470,662
	\$ 18,386,348	\$ 25,171,250

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Electric Transmission / Distribution (HLR-7):

New Revenue – Growth	65,529,332	65,110,334
Distribution Grid Modernization	1,549,377	269,426
Distribution Transformer Change-Out Program	3,773,562	2,064,151
Downtown Network	1,528,549	3,082,688
Primary URD Cable Replacement	608,762	637,472
Meter Minor Blanket	309,075	257,742
Electric Replacement/Relocation	3,493,640	1,573,451
LED Change Out Program	2,265,528	1,367,942
Segment Reconductor and FDR Tie Program	4,702,897	3,685,446
Substation –Station Rebuilds	7,751,302	14,302,195
Transmission Minor Rebuild	4,556,793	586,929
Transmission Major Rebuild	16,755,949	(986,658)
Electric Storms	6,813,471	3,190,440
Colstrip Transmission	440,528	120,892
Garden Springs 230/115kV Substation	56,311	-
Noxon 230kV Substation	8,549	(592,370)
Spokane Valley Transmission Reinforcement	3,460,909	-
Transmission – NERC Low Priority Mitigation	1,550,962	774,519
Transmission – NERC Medium Priority Mitigation	1,632,484	(155,480)
Transmission Construction – Compliance	11,498,226	10,845,387
Tribal Permits and Settlements	125,763	87,307
SCADA – Install/Replace	759,529	528,722
Substation – Capital Spares	5,915,647	3,554,960
Substation – New Distribution Stations	2,464,349	636,661
Harrington Conversion to 13kV	45,257	143,563
Saddle Mountain Substation and Wind Project Integration	-	2,554,495
Lind Solar Project Interconnection	-	1,335,341

\$ 147,596,750	\$ 114,975,555
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Total 2017 and 2018 Capital Additions (System)- Not including AMI, ID and OR Specific

\$ 420,360,644	\$ 422,582,542
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**Capital Additions Detail (System)
(Calendar Year Transfers to Plant)**

<u>2019 Pro Forma Projects (System):</u>	<u>2019</u>
Distribution Line Transformers	\$ 5,300,126
Electric Distribution Minor Blanket	9,018,730
Wood Pole Mgmt	10,520,971
Substation Rebuilds	7,215,000
Substation Asset Mgmt Capital Maintenance	5,000,000
Dist Grid Modernization	9,531,914
CDA-Pine Creek 115kV Transmission Line: Rebuild	6,215,983
South Region Transmission Voltage Control	7,416,136
Lind-Warden 115kV Transmission Line Rebuild	8,795,004
Gas Distribution Non-Revenue Blanket	5,979,037
Aldyl -A Pipe Replacement	24,043,893
Little Falls Powerhouse Redevelopment	9,047,253
CG HED - Gantry Crane Replacement	5,000,000
Endpoint Compute and Productivity Systems	10,322,804
Enterprise & Control Network Infrastructure	7,608,225
Customer Facing Technology	11,344,133
Transportation Equip	8,582,123
COF Long Term Restructuring Plan Phase 2	16,052,331
Deer Park Service Center	6,165,985
Total 2019 Pro Forma Projects (System)	<u>\$ 173,159,649</u>
Remianing 2019 Projects not Included in Case	\$ 211,488,093
Total 2019 Capital Additions	<u>\$ 384,647,741</u>