

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

DOCKET NO. UE-16_____

DOCKET NO. UG-16_____

EXHIBIT NO._____(KKS-4)

KAREN K. SCHUH

REPRESENTING AVISTA CORPORATION

**Avista 2016 Capital Additions Detail (System)
(Transfers to Plant)**

Exhibit No. ____ (KKS-4)

<u>Page Reference in Exhibit No. (KKS-5)</u>		<u>\$ (000's)</u>
<u>Modified Test Year Pro Forma Projects</u>		
Section	Page	
Section 1	20 Colstrip Thermal Capital	\$ 12,292
Section 1	28 Cabinet Gorge Unit 1 Refurbishment	14,702
Section 1	38 Hydro - Post Falls South Channel Gate Replacement	14,092
Section 1	64 Hydro - Nine Mile Rehab	73,193
Section 1	102 Hydro - Little Falls Powerhouse Redevelopment	22,892
Section 2	13 New Downtown Netwk Bldg	9,600
Section 2	1 COF Long-Term Restructuring Plan	9,550
Section 3	1 Aldyl A Replacement	18,885
Section 3	37 Gas Isolated Steel Replacement Program	3,550
Section 3	45 Gas Non-Revenue Program	6,000
Section 6	59 Technology Refresh to Sustain Business Process	18,001
Section 7	44 Noxon Switchyard Rebuild	11,500
		<u>\$ 214,257</u>
<u>Cross Check Projects</u>		
Section 1	Page	Generation / Production:
	1	Spokane River License Implementation
		\$ 1,007
	15	Peaking Generation
		500
	60	KFGS Reverse Osmosis System
		4,750
	73	Generation DC Supplied System Upgrade
		700
	87	Coyote Springs LTSA
		730
	92	Noxon Station Service
		1,477
	114	Base Load Hydro
		1,149
	118	Regulating Hydro
		5,786
	122	Base Load Thermal Plant
		2,200
	128	Clark Fork Settlement Agreement
		6,093
	137	Hydro Safety Minor Blanket
		75
		<u>\$ 24,468</u>
Section 2	Page	General:
	17	Apprentice Training
		\$ 60
	21	Structures and Improvements/Furniture
		3,600
	28	Capital Tools & Stores Equipment
		2,400
	32	COF LngTrm Restruct Ph2
		2,991
		<u>\$ 9,051</u>
Section 3	Page	Natural Gas Distribution:
	6	Gas Overbuilt Pipe Replacement Program
		\$ 900
	10	Gas Regulator Stn Replacement Program
		800
	14	Gas Deteriorated Steel Pipe Replacement Program
		1,000
	18	Gas Telemetry Program
		400
	22	Gas PMC Program
		3,728
	33	Gas Replacement Street and Highway Program
		4,500
	41	Gas Cathodic Protection Program
		1,000
	49	Gas Reinforcement Program
		1,200
		<u>\$ 13,528</u>
Section 4	Page	Gas Underground Storage:
	1	Jackson Prairie Storage
		\$ 1,175
		<u>\$ 1,175</u>
Section 5	Page	Transportation:
	1	Fleet Budget
		\$ 5,660
		<u>\$ 5,660</u>

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\$ (000's)

Section 6 Page Enterprise Technology:

5 Next Generation Radio Refresh	\$ 6,000
10 Enterprise Security	1,360
14 Customer Facing Technology	286
23 High Voltage Protection for Substations	887
28 AFM COTS Migration	3,800
40 AvistaUtilities.com Redesign	5,536
49 Enterprise Business Continuity Plan	664
53 Technology Expansion to Enable Business Process	2,742
65 Microwave Refresh	4,543
	\$ 25,816

Section 7 Page Electric Transmission / Distribution:

	<u>Transmission</u>	<u>Distribution</u>	<u>Total Transmission & Distribution</u>
1 Meter Minor Blanket		\$ 347	\$ 347
5 Elec Replacement/Relocation		2,750	2,750
9 Distribution Minor Rebuild		8,609	8,609
13 Storms	1,000	2,090	3,090
17 Primary URD Cable Replacement		200	200
21 Transmission - NERC Low Priority Mitigation	1,675		1,675
34 Transmission - NERC Medium Priority Mitigation	2,576		2,576
53 Street Light Management		1,500	1,500
57 Substation - Capital Spares	5,200		5,200
61 SCADA - SOO & BUCC	1,002		1,002
65 Substation - Asset Mgmt. Capital Maintenance	4,100	18	4,118
69 Substation - Station Rebuilds	4,260		4,260
73 Worst Feeders		1,500	1,500
77 Transmission - Asset Management	1,772		1,772
81 Distribution Transformer Change-Out Program		7,654	7,654
85 Tribal Permits and Settlements	314		314
89 Westside Rebuild Phase One	2,525		2,525
93 Distribution Wood Pole Management		7,840	7,840
97 Substation - New Distribution Stations		2,794	2,794
101 S Region Voltage Control	5,000		5,000
109 Harrington Upgrades		2,150	2,150
113 Spokane Electric Network		2,300	2,300
121 Transmission - Reconductors and Rebuilds	17,559	3,600	21,159
126 Spokane Valley Transmission Reinforcement	1,340		1,340
130 Colstrip Transmission	568		568
134 Dist Grid Modernization		6,359	6,359
138 Segment Reconductor and FDR Tie Program		2,856	2,856
142 Distribution Line Protection		125	125
146 Environmental Compliance	50	350	400
150 Franchising for WSDOT		494	494
Hallett and White - Add Capacity*		1,000	1,000
	\$ 48,942	\$ 54,536	\$ 103,478

Total Non-Revenue Capital **\$ 397,433**

Growth/Revenue - Producing **\$ 33,267**

Total Idaho Direct Capital Additions 2016 **\$ 4,948**

Total Oregon Direct Capital Additions 2016 **\$ 8,262**

Total Capital Additions in 2016 **\$ 443,910**

* It was determined after revenue requirements were finalized that these projects should be removed.

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Exhibit No. ____ (KKS-4)

Page Reference in Exhibit No.__(KKS-5)		<u>\$ (000's)</u>
Section 1 Page Generation / Production:		
1	Spokane River License Implementation	\$ 17,764
11	Kettle Falls Stator Rewind	7,930
15	Peaking Generation	500
20	Colstrip Thermal Capital	12,432
24	Cabinet Gorge Automation Replacement	2,342
51	CG HED - Gantry Crane Replacement	3,500
55	KF CT Control Upgrade	667
64	Nine Mile Rehab	3,814
73	Generation DC Supplied System Upgrade	1,033
87	Coyote Springs LTSA	730
92	Noxon Station Service	1,172
102	Little Falls Plant Upgrade	11,470
114	Base Load Hydro	1,149
118	Hydro - Regulating Hydro	3,533
122	Base Load Thermal Plant	2,200
128	Clark Fork Settlement Agreement	4,226
137	Safety Minor Blanket	80
		<u>\$ 74,541</u>
Section 2 Page General:		
5	New Airport Hangar	\$ 1,500
9	Clark Fork Engineering Building	1,089
17	Apprentice Training	60
21	Structures and Improvements/Furniture	3,600
28	Capital Tools & Stores Equipment	2,400
32	COF LngTrm Restruct Ph2	8,979
		<u>\$ 17,628</u>
Section 3 Page Natural Gas Distribution:		
1	Aldyl A Replacement	\$ 19,263
6	Gas Overbuilt Pipe Replacement Program	100
10	Gas Regulator Stn Replacement Program	800
14	Gas Deteriorated Steel Pipe Replacement Program	
18	Gas Telemetry Program	400
22	Gas PMC Program	2,790
26	Gas N-S Corridor Greene St HP Main Project	1,500
29	Gas N Spokane Hwy 2 HP Main Reinforcement Project	2,000
33	Gas Replacement Street and Highway Program	1,185
37	Gas Isolated Steel Replacement Program	2,301
41	Gas Cathodic Protection Program	375
45	Gas Non-Revenue Program	2,560
49	Gas Reinforcement Program	545
Section 7 105	WA AMI Natural Gas	11,162
		<u>\$ 44,982</u>
Section 4 Page Gas Underground Storage:		
1	Jackson Prairie Storage	\$ 1,117
		<u>\$ 1,117</u>
Section 5 Page Transportation:		
1	Fleet Budget	\$ 7,700
		<u>\$ 7,700</u>
Note: Gas N-S Corridor Greene St HP Main Project has been reprioritized to 2nd half 2018		

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Page Reference in Exhibit No. __ (KKS-5)

\$ (000's)

Section 6 Page Enterprise Technology:

1	Mobility in the Field	\$ 650
5	Next Generation Radio Refresh	375
10	Enterprise Security	2,500
14	Customer Facing Technology	4,000
28	AFM COTS Migration	11,500
49	Enterprise Business Continuity Plan	450
53	Technology Expansion to Enable Business Process	13,700
59	Technology Refresh to Sustain Business Process	17,250
65	Microwave Refresh	4,000

Section 7	105	WA AMI Hardware/Software/Communication	34,081
			\$ 88,506

Section 7 Page Electric Transmission / Distribution:

			<u>Transmission</u>	<u>Distribution</u>	<u>Total Trans & Dist</u>
	1	Meter Minor Blanket		\$ 347	\$ 347
	5	Elec Replacement/Relocation		1,670	1,670
	9	Distribution Minor Rebuild		6,375	6,375
	13	Storms	1,000	1,645	2,645
	17	Primary URD Cable Replacement		231	231
	21	Transmission - NERC Low Priority Mitigation	3,000		3,000
	34	Transmission - NERC Medium Priority Mitigation	1,000		1,000
	44	Noxon Switchyard Rebuild	6,700		6,700
	53	Street Light Management		2,353	2,353
	57	Substation - Capital Spares	4,565		4,565
	61	SCADA - SOO & BUCC	1,044		1,044
	65	Substation - Asset Mgmt. Capital Maintenance	4,100	51	4,151
	69	Substation - Station Rebuilds	5,640		5,640
	73	Worst Feeders		2,499	2,499
	77	Transmission - Asset Management	1,000		1,000
	81	Distribution Transformer Change-Out Program		7,354	7,354
	85	Tribal Permits and Settlements	281		281
	93	Distribution Wood Pole Management		12,000	12,000
	97	Substation - New Distribution Stations		275	275
	105	Washington AMI		34,420	34,420
	113	Spokane Electric Network		2,300	2,300
	117	SCADA Completion	1,000		1,000
	121	Transmission - Reconductors and Rebuilds	20,830	1,500	22,330
	126	Spokane Valley Transmission Reinforcement	7,200		7,200
	130	Colstrip Transmission	398		398
	134	Dist Grid Modernization		10,393	10,393
	138	Segment Reconductor and FDR Tie Program		3,175	3,175
	142	Distribution Line Protection		125	125
	146	Environmental Compliance	50	350	400
	150	Franchising for WSDOT		9	9
		Hallett and White - Add Capacity		1,725	1,725
			\$ 57,808	\$ 88,798	\$ 146,606

Total Non-Revenue Capital	\$ 381,080
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Growth/Revenue - Producing	\$ 34,466
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Total Idaho/Oregon Direct Capital Additions 2017	\$ 35,924
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Total Capital Additions in 2017	\$ 451,471
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Page Reference in Exhibit No.__(KKS-5)		\$ (000's)
Section 1 Page Generation / Production:		
1	Spokane River License Implementation	\$ 382
20	Colstrip Thermal Capital	2,518
87	Coyote Springs LTSA	360
92	Noxon Station Service	118
102	Little Falls Plant Upgrade	4,780
114	Base Load Hydro	248
118	Regulating Hydro	883
128	Clark Fork Settlement Agreement	1,226
137	Hydro Safety Minor Blanket	43
		<u>\$ 10,557</u>
Section 2 Page General:		
17	Apprentice Training	\$ 30
21	Structures and Improvements/Furniture	1,801
28	Capital Tools & Stores Equipment	1,200
		<u>\$ 3,031</u>
Section 3 Page Natural Gas Distribution:		
1	Aldyl A Replacement	\$ 8,694
6	Gas Overbuilt Pipe Replacement Program	49
10	Gas Regulator Stn Replacement Program	345
14	Gas Deteriorated Steel Pipe Replacement Program	
18	Gas Telemetry Program	189
22	Gas PMC Program	1,434
33	Gas Replacement Street and Highway Program	502
37	Gas Isolated Steel Replacement Program	890
41	Gas Cathodic Protection Program	162
45	Gas Non-Revenue Program	1,263
49	Gas Reinforcement Program	228
Section 7 105	WA AMI Natural Gas	9,133
		<u>\$ 22,889</u>
Section 4 Page Gas Underground Storage:		
1	Jackson Prairie Storage	\$ 605
		<u>\$ 605</u>
Section 5 Page Transportation:		
1	Fleet Budget	\$ 3,850
		<u>\$ 3,850</u>

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Section 6 Page Enterprise Technology:				
	1 Mobility in the Field			\$ 400
	10 Enterprise Security			2,200
	14 Customer Facing Technology			2,000
	49 Enterprise Business Continuity Plan			225
	53 Technology Expansion to Enable Business Process			6,975
	59 Technology Refresh to Sustain Business Process			9,600
	65 Microwave Refresh			1,500
				\$ 22,900
Section 7 Page Electric Transmission / Distribution:				
		Transmission	Distribution	Total Transmission & Distribution
	1 Meter Minor Blanket		\$ 173	\$ 173
	5 Elec Replacement/Relocation		830	830
	9 Distribution Minor Rebuild		3,255	3,255
	13 Storms	502	875	1,377
	17 Primary URD Cable Replacement		190	190
	53 Street Light Management		1,189	1,189
	57 Substation - Capital Spares	1,515		1,515
	61 SCADA - SOO & BUCC	460		460
	65 Substation - Asset Mgmt. Capital Maintenance	1,670	46	1,716
	77 Transmission - Asset Management	515		515
	81 Distribution Transformer Change-Out Program		2,603	2,603
	85 Tribal Permits and Settlements	126		126
	93 Distribution Wood Pole Management		7,912	7,912
	105 Washington AMI		17,025	17,025
	113 Spokane Electric Network		805	805
	117 SCADA Completion	2,000		2,000
	130 Colstrip Transmission	216		216
	134 Dist Grid Modernization		5,725	5,725
	138 Segment Reconductor and FDR Tie Program		315	315
	142 Distribution Line Protection		45	45
	146 Environmental Compliance	21	150	171
	150 Franchising for WSDOT		1	1
		\$ 7,025	\$ 41,140	\$ 48,164
Total Non-Revenue Capital				\$ 111,997
Growth/Revenue - Producing				\$ 18,025
Total Oregon/Idaho Direct Capital Additions 2018				\$ 9,604
Total Capital Additions in 2018				\$ 139,626