

Exhibit No. CSH-9
Dockets UE-160228/UG-160229
Witness: Christopher S. Hancock

BEFORE THE WASHINGTON
UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,

Complainant,

v.

AVISTA CORPORATION d/b/a
AVISTA UTILITIES,

Respondent.

DOCKETS UE-160228 and
UG-160229 (*Consolidated*)

EXHIBIT TO
TESTIMONY OF

CHRISTOPHER S. HANCOCK

STAFF OF
WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION

Growth in Plant, by FERC Account, for Natural Gas Service

August 17, 2016

Growth in types of plant, by FERC account - Natural Gas Distribution Plant

Avista Utilities

Account	Account Description	Year										Total % Change
		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
374000	Land & Land Rights	60,300	60,300	60,803	61,398	69,588	65,441	69,847	171,899	180,714	199,659	
375000	Structures & Improvements	396,029	407,561	434,591	458,674	510,324	543,825	580,604	579,419	542,253	542,253	36.92%
376000	Mains	112,581,211	118,225,698	126,016,812	134,766,260	139,363,355	147,104,925	156,786,329	169,651,612	177,203,706	177,203,706	57.40%
378000	Measuring & Reg Station Equip-General	2,406,205	2,499,600	2,702,091	2,839,418	3,089,331	3,188,929	3,252,590	3,280,063	3,352,669	3,352,669	39.33%
379000	Measuring & Reg Station Equip-City Gate	727,532	732,379	1,622,479	1,814,409	1,765,489	1,814,880	1,856,519	1,890,764	1,933,238	1,933,238	165.73%
380000	Services	80,224,790	82,534,675	86,038,002	89,131,217	93,454,508	98,134,652	104,897,971	115,389,438	127,047,228	127,047,228	58.36%
381000	Meters	31,213,121	34,363,045	37,102,213	38,230,295	40,840,870	42,984,253	43,651,407	44,476,338	47,776,809	47,776,809	53.07%
382000	Meter Installations	-	-	-	-	-	-	-	-	-	-	N/A
383000	House Regulators	-	-	-	-	-	-	-	-	-	-	N/A
384000	House Regulator Installations	-	-	-	-	-	-	-	-	-	-	N/A
385000	Industrial Measuring & Reg Sta Equip	1,807,944	1,954,446	1,999,599	2,067,709	2,192,424	2,315,203	2,993,787	2,474,572	2,575,612	2,575,612	42.46%
387000	Other Equipment	-	-	-	-	-	-	-	-	-	-	N/A
	Total Distribution Plant	229,417,132	240,777,704	255,976,590	269,469,380	281,278,889	296,152,088	313,469,054	337,894,105	360,612,229	360,612,229	57.19%

Account	Account Description	Avg Yr-Yr Growth									
		2007-8	2008-9	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17
374000	Land & Land Rights	0.00%	0.83%	0.98%	3.57%	2.91%	6.73%	146.11%	5.13%	5.13%	20.78%
375000	Structures & Improvements	2.91%	6.63%	5.54%	11.26%	6.56%	6.76%	-0.20%	-6.41%	-6.41%	4.13%
376000	Mains	5.01%	6.59%	6.94%	3.41%	5.56%	6.58%	8.19%	4.46%	4.46%	5.84%
378000	Measuring & Reg Station Equip-General	3.88%	8.10%	8.78%	5.10%	3.22%	2.00%	0.84%	2.21%	2.21%	4.27%
379000	Measuring & Reg Station Equip-City Gate	0.67%	121.54%	11.83%	-2.70%	2.80%	2.29%	1.84%	2.25%	2.25%	17.56%
380000	Services	2.88%	4.24%	3.60%	4.85%	5.01%	6.89%	10.00%	10.10%	10.10%	5.95%
381000	Meters	10.09%	7.97%	3.04%	6.83%	5.25%	1.51%	1.94%	7.42%	7.42%	5.51%
382000	Meter Installations	-	-	-	-	-	-	-	-	-	N/A
383000	House Regulators	-	-	-	-	-	-	-	-	-	N/A
384000	House Regulator Installations	-	-	-	-	-	-	-	-	-	N/A
385000	Industrial Measuring & Reg Sta Equip	8.10%	2.31%	3.41%	6.03%	5.60%	3.39%	3.37%	4.08%	4.08%	4.54%
387000	Other Equipment	-	-	-	-	-	-	-	-	-	N/A
	Total Distribution Plant	4.95%	6.31%	5.27%	4.38%	5.29%	5.85%	7.79%	6.72%	6.72%	5.82%

Growth in types of plant, by FERC account - Natural Gas Intangible Plant
Avista Utilities

Account	Account Description	Year										Total % Change
		2007	2008	2009	2010	2011	2012	2013	2014	2015		
303XXX	Misc Intangible Plant	2,577,605	3,537,914	4,279,450	5,988,290	6,619,041	7,639,881	9,578,281	11,780,366	23,354,928	806.07%	
303XXX	Misc Intangible Plant		37.26%	20.96%	39.93%	10.53%	15.42%	25.37%	22.99%	98.25%	33.84%	

Note: Intangible Plant is treated as part of General plant in the Attrition Studies and the modified historical test year.

Growth in types of plant, by FERC account - Natural Gas Underground Storage Plant
Avista Utilities

Account	Account Description	Year										Total % Change
		2007	2008	2009	2010	2011	2012	2013	2014	2015		
350XXX	Land & Land Rights	340,570	335,090	346,511	328,106	327,745	326,717	328,024	330,685	329,845	329,845	-3.15%
351XXX	Structures & Improvements	797,369	798,238	848,526	895,930	910,883	964,276	1,018,915	1,095,265	1,204,482	1,204,482	51.06%
352XXX	Wells	8,941,075	9,073,988	10,149,576	8,899,318	10,722,811	12,821,437	12,922,386	13,095,685	13,174,410	13,174,410	47.35%
353000	Lines	591,781	608,729	722,810	728,931	726,747	731,030	733,954	739,908	738,028	738,028	24.71%
354000	Compressor Station Equipment	1,443,000	2,815,161	8,123,564	7,780,678	7,898,095	8,030,102	8,134,529	8,269,348	8,357,824	8,357,824	479.20%
355000	Measuring & Regulating Equipment	124,329	123,265	121,562	120,606	120,919	150,852	186,510	241,125	352,512	352,512	183.53%
356000	Purification Equipment	293,664	289,123	291,367	282,886	283,620	283,583	283,689	285,990	285,263	285,263	-2.86%
357000	Other Equipment	1,226,332	1,216,030	1,193,643	1,010,508	1,017,328	1,050,781	1,103,426	1,176,660	1,277,974	1,277,974	4.21%
	Total Underground Storage Plant	13,758,120	15,259,624	21,797,559	20,046,963	22,008,148	24,364,778	24,711,433	25,234,666	25,720,338	25,720,338	86.95%
350XXX	Land & Land Rights		-1.61%	3.41%	-5.31%	-0.11%	-0.31%	0.40%	0.81%	-0.25%	-0.37%	
351XXX	Structures & Improvements		0.11%	6.30%	5.59%	1.67%	5.86%	5.67%	7.49%	9.97%	5.33%	
352XXX	Wells		1.49%	11.85%	-12.32%	20.49%	19.63%	0.74%	1.34%	0.60%	5.48%	
353000	Lines		2.86%	18.74%	0.85%	-0.30%	0.59%	0.40%	0.81%	-0.25%	2.96%	
354000	Compressor Station Equipment		95.09%	188.56%	-4.22%	1.51%	1.67%	1.30%	1.66%	1.07%	35.83%	
355000	Measuring & Regulating Equipment		-0.86%	-1.38%	-0.79%	0.26%	24.75%	23.64%	29.28%	46.19%	15.14%	
356000	Purification Equipment		-1.55%	0.78%	-2.91%	0.26%	-0.01%	0.04%	0.81%	-0.25%	-0.36%	
357000	Other Equipment		-0.84%	-1.84%	-15.34%	0.67%	3.29%	5.01%	6.64%	8.61%	0.77%	
	Total Underground Storage Plant		10.91%	42.84%	-8.03%	9.78%	10.71%	1.42%	2.12%	1.92%	8.96%	
												Avg Yr-Yr Growth

Growth in types of plant, by FERC account - Natural Gas General Plant
Avista Utilities

Account	Account Description	Year										Total % Change
		2007	2008	2009	2010	2011	2012	2013	2014	2015		
389XXX	Land & Land Rights	364,388	379,298	871,026	1,159,853	1,141,857	1,175,647	1,171,330	1,179,137	1,509,414	314.23%	
390XXX	Structures & Improvements	4,747,949	5,300,128	6,254,208	7,612,149	10,145,674	12,349,686	14,314,587	16,185,437	16,657,865	250.84%	
391XXX	Office Furniture & Equipment	3,071,517	3,764,146	4,092,409	4,934,379	5,508,662	6,763,451	6,819,957	7,143,274	8,798,850	186.47%	
392XXX	Transportation Equipment	2,950,257	2,956,479	3,520,659	4,243,057	5,353,791	5,688,273	6,690,256	7,715,405	8,498,700	188.07%	
393000	Stores Equipment	193,621	199,306	209,954	262,698	294,817	357,613	404,790	472,941	556,419	187.38%	
394000	Tools, Shop & Garage Equipment	1,438,633	1,696,537	2,052,385	2,350,781	2,551,168	3,072,315	4,225,485	4,588,327	5,004,553	247.87%	
395000	Laboratory Equipment	517,469	523,754	321,080	309,258	283,861	272,714	241,278	242,164	316,412	-38.85%	
396XXX	Power Operated Equipment	2,987,963	3,023,647	3,144,706	3,269,091	3,611,540	3,437,571	3,578,048	3,547,290	3,662,913	22.59%	
397XXX	Communications Equipment	2,755,341	2,774,854	2,935,062	3,207,894	3,406,641	3,996,605	5,137,511	6,232,389	7,090,935	157.35%	
398000	Miscellaneous Equipment	102,633	100,489	65,715	62,716	54,349	55,588	62,827	82,636	62,768	-38.84%	
	Total General Plant	19,129,771	20,718,638	23,467,204	27,411,876	32,352,360	37,169,463	42,646,069	47,389,000	52,158,829	172.66%	

Account	Account Description	Avg Yr Yr Growth									
		2007-8	2008-9	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2014-15	Avg Yr Yr Growth
389XXX	Land & Land Rights	4.09%	129.64%	33.16%	-1.55%	2.96%	-0.37%	0.67%	28.01%	24.58%	
390XXX	Structures & Improvements	11.63%	18.00%	21.71%	33.28%	21.72%	15.91%	13.07%	2.92%	17.28%	
391XXX	Office Furniture & Equipment	22.55%	8.72%	20.57%	11.64%	22.78%	0.84%	4.74%	23.18%	14.38%	
392XXX	Transportation Equipment	0.21%	19.08%	20.52%	26.18%	6.25%	17.61%	15.32%	10.15%	14.42%	
393000	Stores Equipment	2.94%	5.34%	25.12%	12.23%	21.30%	13.19%	16.84%	17.65%	14.33%	
394000	Tools, Shop & Garage Equipment	17.93%	20.97%	14.54%	8.52%	20.43%	37.53%	8.59%	9.07%	17.20%	
395000	Laboratory Equipment	1.21%	-38.70%	-3.68%	-8.21%	-3.93%	-11.53%	0.37%	30.66%	-4.23%	
396XXX	Power Operated Equipment	1.19%	4.00%	3.96%	10.48%	-4.82%	4.05%	-0.86%	3.26%	2.66%	
397XXX	Communications Equipment	0.71%	5.77%	9.30%	6.20%	17.32%	28.55%	21.31%	13.78%	12.87%	
398000	Miscellaneous Equipment	-2.09%	-34.60%	-4.56%	-13.34%	2.28%	13.02%	31.53%	-24.04%	-3.98%	
	Total General Plant	8.31%	13.27%	16.81%	18.02%	14.89%	14.73%	11.12%	10.07%	13.40%	