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BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION

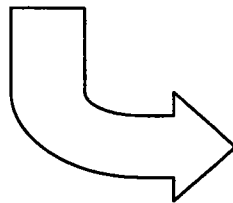
IN THE MATTER OF THE APPLICATION)	CASE NO. AVU-E-04-01
OF AVISTA CORPORATION FOR THE)	CASE NO. AVU-G-04-01
AUTHORITY TO INCREASE ITS RATES)	
AND CHARGES FOR ELECTRIC AND)	
NATURAL GAS SERVICE TO ELECTRIC AND)	EXHIBIT NO. 13
NATURAL GAS CUSTOMERS IN THE STATE)	
OF IDAHO)	DAVID D. HOLMES
_____)	

FOR AVISTA CORPORATION

(ELECTRIC AND NATURAL GAS)

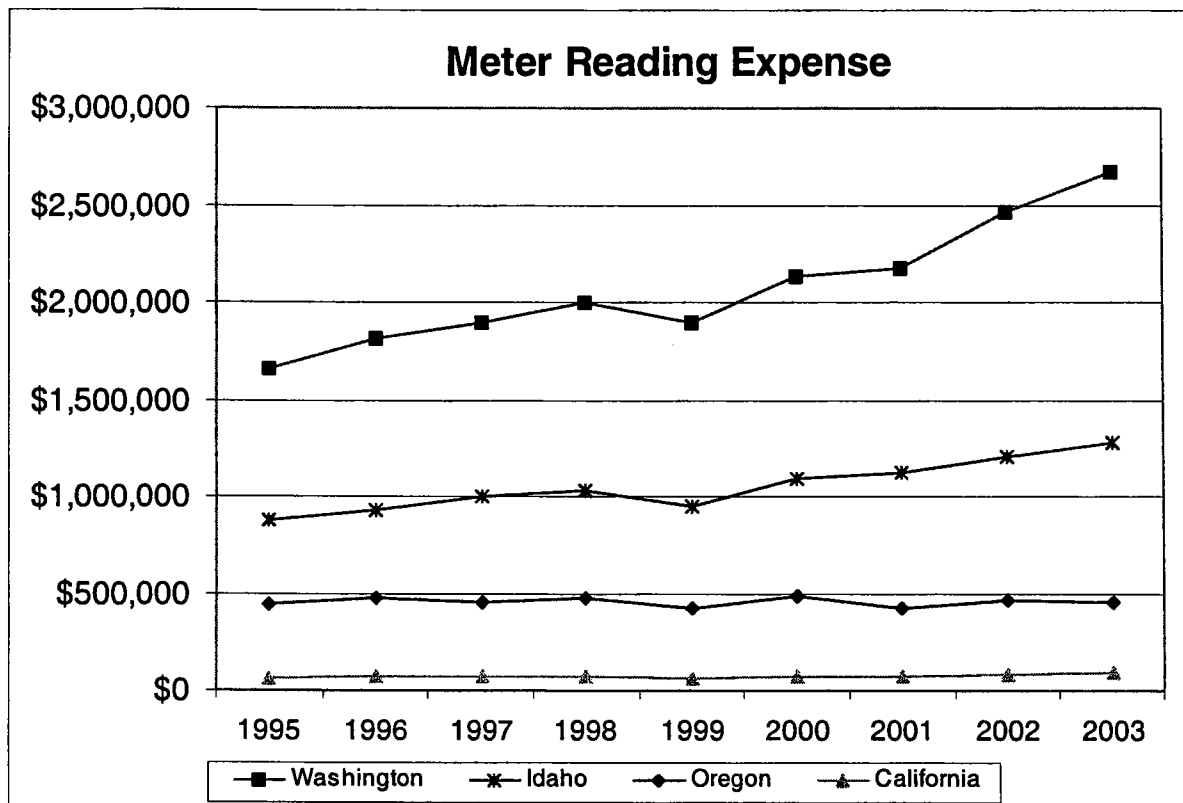
Historical Meter Reading (x902.xx) Costs

	Washington			Idaho			Oregon			California		
	Cost	Cust	\$/mtr	Cost	Cust	\$/mtr	Cost	Cust	\$/mtr	Cost	Cust	\$/mtr
1995	\$1,661,190	293,138	\$5.67	\$879,447	132,368	\$6.64	\$447,346	61,513	\$7.27	\$66,866	17,233	\$3.88
1996	\$1,819,206	300,268	\$6.06	\$927,554	138,495	\$6.70	\$476,603	65,290	\$7.30	\$69,291	17,582	\$3.94
1997	\$1,894,833	307,682	\$6.16	\$1,000,371	143,919	\$6.95	\$451,448	68,623	\$6.58	\$73,587	17,742	\$4.15
1998	\$2,001,076	315,675	\$6.34	\$1,036,070	150,009	\$6.91	\$471,254	72,850	\$6.47	\$76,843	18,107	\$4.24
1999	\$1,898,692	322,862	\$5.88	\$946,753	154,992	\$6.11	\$426,819	74,878	\$5.70	\$59,188	18,002	\$3.29
2000	\$2,132,285	328,163	\$6.50	\$1,093,684	159,269	\$6.87	\$481,281	77,689	\$6.19	\$72,852	17,941	\$4.06
2001	\$2,175,057	346,535	\$6.28	\$1,120,487	162,436	\$6.90	\$424,039	84,981	\$4.99	\$74,243	18,571	\$4.00
2002	\$2,459,379	348,000	\$7.07	\$1,207,072	165,304	\$7.30	\$467,047	86,000	\$5.43	\$80,761	18,600	\$4.34
2003	\$2,668,689	350,571	\$7.61	\$1,283,042	172,745	\$7.43	\$449,604	89,587	\$5.02	\$93,515	18,762	\$4.98



4.8%

Average annual
growth



Estimated AMR Installation Cost (nominal 2003 dollars)

Estimated Unit Costs (2003 dollars)

Type	Total	Prior	To Convert	Unit Cost	Meter Cost
Electric Non Demand	79,962	920	79,042	\$62.25	\$4,920,394
Electric Demand	3,332	0	3,332	\$263.25	\$877,088
PLC Non Demand	26,654	169	26,485	\$138.25	\$3,661,573
PLC Demand	1,111	0	1,111	\$263.25	\$292,363
Total Electric	111,059		109,970	\$88.67	\$9,751,419
Total Gas	61,686	601	61,085	\$67.75	\$4,138,509
Total Electric & Gas	172,745	1,690	171,055	\$81.20	\$13,889,928
			Meter per point		\$81
Network meters	144,980				
Collector cost	\$2,320		Gas	Electric	Network
Cust/Collector	140		\$857,892	\$1,544,638	\$2,402,530
Communication/mo	\$20				
			Network per point		\$17

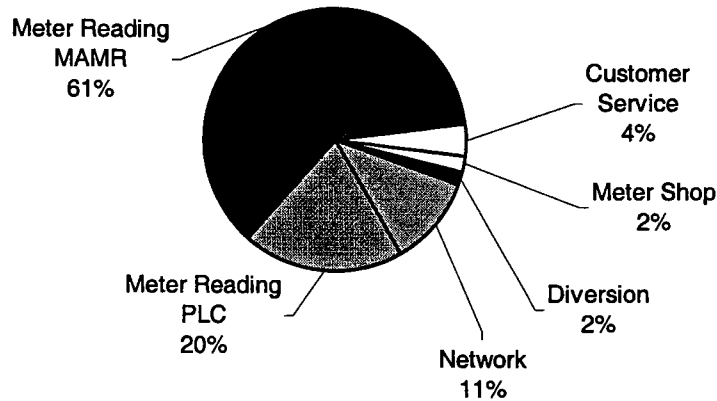
Estimated Project Costs (2003 dollars)

Year	Units Gas	Units Electric	Cost Gas	Cost Electric	Network Gas	Network Electric	Total Gas	Total Electric	Project Total
2004	601	1,089							
2005	18,326	32,991	\$1,241,553	\$2,925,426			\$1,241,553	\$2,925,426	\$4,166,978
2006	18,326	32,991	\$1,241,553	\$2,925,426			\$1,241,553	\$2,925,426	\$4,166,978
2007	12,217	21,994	\$827,702	\$1,950,284	\$514,756	\$926,762	\$1,342,457	\$2,877,046	\$4,219,503
2008	12,217	21,994	\$827,702	\$1,950,284	\$343,170	\$617,841	\$1,170,872	\$2,568,125	\$3,738,997
2009	0	0	\$0	\$0			\$0	\$0	\$0
2010	0	0	\$0	\$0			\$0	\$0	\$0
2011	0	0	\$0	\$0			\$0	\$0	\$0
2012	0	0	\$0	\$0			\$0	\$0	\$0
	61,686	111,059	\$4,138,509	\$9,751,419	\$857,926	\$1,544,604	\$4,996,435	\$11,296,023	\$16,292,458

AMR Estimated Savings (nominal 2003 dollars)

Annual Savings	Savings
Meter Reading PLC - Reduction in Meter reading staff	\$195,908
Meter Reading MAMR* - Reduction in Meter reading staff	\$613,789
Customer Service - Call Center, Rebills	\$37,000
Meter Shop - Meter refurbishment reduction & testing	\$20,000
Diversion - Tamper reduction	\$18,000
Annual savings from MAMR & PLC system	\$884,697
Additional Meter Reading Savings from Network	\$358,044
Network operation (communication to collectors)	-\$248,538
Network - Additional net savings from network	\$109,506
Annual AMR savings with fixed network (full implementation)	\$994,203

AMR Savings



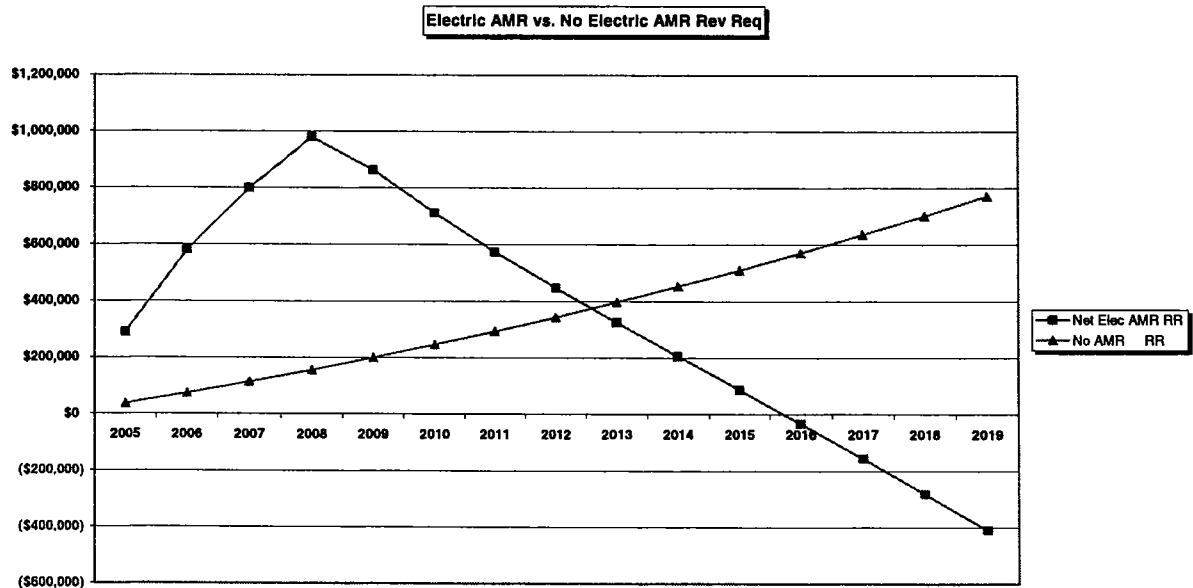
* Mobile Advanced Meter Reading (MAMR)

AMR Estimated Rate Impact

Idaho	AMR Levelized Revenue Requirement	No AMR Levelized Revenue Requirement	Incremental Levelized Revenue Requirement
2002 Pro forma Idaho Electric			
Capital Investment	\$ 11,296,023		
Revenue	\$ 146,000,000	\$ 146,000,000	\$ 146,000,000
AMR \$ Impact	\$ 486,567	\$ 297,864	\$ 188,703
AMR %	0.33%	0.20%	0.13%
2002 Pro forma Idaho Gas			
Capital Investment	\$ 4,996,435		
Revenue	\$ 51,000,000	\$ 51,000,000	\$ 51,000,000
AMR \$ Impact	\$ 105,077	\$ 168,136	\$ (63,059)
AMR %	0.21%	0.33%	-0.12%
Notes:			
1. Assumes 15yr book life of AMR			

Electric AMR Costs and Savings by year versus No AMR Costs

Year	Elec AMR Costs	Elec AMR Savings	Net Elec AMR RR	No AMR RR
2005	\$449,613	\$160,055	\$289,558	\$36,260
2006	\$942,644	\$362,215	\$580,430	\$74,260
2007	\$1,387,170	\$587,921	\$799,250	\$114,084
2008	\$1,754,795	\$774,288	\$980,506	\$155,820
2009	\$1,699,746	\$836,899	\$862,848	\$199,559
2010	\$1,587,180	\$877,070	\$710,111	\$245,398
2011	\$1,493,217	\$919,169	\$574,048	\$293,437
2012	\$1,409,992	\$963,289	\$446,703	\$343,782
2013	\$1,333,395	\$1,009,527	\$323,868	\$396,543
2014	\$1,263,143	\$1,057,985	\$205,159	\$451,837
2015	\$1,195,945	\$1,108,768	\$87,177	\$509,785
2016	\$1,128,746	\$1,161,989	(\$33,243)	\$570,514
2017	\$1,061,547	\$1,217,764	(\$156,217)	\$634,158
2018	\$994,349	\$1,276,217	(\$281,868)	\$700,858
2019	\$927,150	\$1,337,475	(\$410,325)	\$770,759



Gas AMR Costs and Savings by year versus No AMR Costs

Year	Gas AMR Costs	Gas AMR Savings	Net Gas AMR RR	No AMR RR
2005	\$188,284	\$85,843	\$102,441	\$20,330
2006	\$395,904	\$197,990	\$197,914	\$41,635
2007	\$601,763	\$335,587	\$266,176	\$63,963
2008	\$771,236	\$442,458	\$328,778	\$87,363
2009	\$749,071	\$480,274	\$268,797	\$111,886
2010	\$699,986	\$503,328	\$196,658	\$137,587
2011	\$659,137	\$527,487	\$131,649	\$164,521
2012	\$622,859	\$552,807	\$70,053	\$192,747
2013	\$589,461	\$579,341	\$10,120	\$222,329
2014	\$558,926	\$607,150	(\$48,224)	\$253,330
2015	\$529,750	\$636,293	(\$106,543)	\$285,820
2016	\$500,575	\$666,835	(\$166,260)	\$319,869
2017	\$471,399	\$698,843	(\$227,444)	\$355,552
2018	\$442,224	\$732,388	(\$290,164)	\$392,948
2019	\$413,048	\$767,542	(\$354,494)	\$432,140

