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BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION

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IN THE MATTER OF THE APPLICATION) CASE NO. AVU-E-08-01 OF AVISTA CORPORATION FOR THE AUTHORITY TO INCREASE ITS RATES AND CHARGES FOR ELECTRIC AND NATURAL GAS SERVICE TO ELECTRIC AND NATURAL GAS CUSTOMERS IN THE STATE OF IDAHO

) CASE NO. AVU-G-08-01

) DIRECT TESTIMONY OF BRUCE W. FOLSOM

FOR AVISTA CORPORATION

(ELECTRIC AND NATURAL GAS)

 I.
 INTRODUCTION

 Q.
 Please state your name, employer and business

 3 address.

 4
 A. My name is Bruce Folsom. I am employed by Avista

5 as the Senior Manager of Demand Side Management (DSM). My 6 business address is East 1411 Mission Avenue, Spokane, 7 Washington.

8 Q. Would you please describe your education and 9 business experience?

A. I graduated from the University of Washington in
1979 with Bachelor of Arts and Bachelor of Science degrees.
I received a Masters in Business Administration degree from
Seattle University in 1984.

I joined the Company in 1993 in the State and 14 My duties included work Federal Regulation Department. 15 associated with tariff revisions and regulatory aspects of 16 integrated resource planning, demand side management, 17 In 2002, I was competitive bidding, and emerging issues. 18 named the Manager of Regulatory Compliance which added 19 responsibilities such as implementing the Federal Energy 20 Regulatory Commission's major changes to its Standards of 21 I began my current position in September of 22 Conduct rule. Prior to joining Avista, I was employed by the 23 2006. Transportation Commission Utilities and 24 Washington beginning in 1984, and then served as the Electric Program 25

Manager from 1990 to February, 1993. From 1979 to 1983, I
 was the Pacific Northwest Regional Director of what is now
 the Environmental Careers Organization, a national,
 private, not-for-profit organization.

5 Q. What is the scope of your testimony in this 6 proceeding?

7 A. I provide an overview of the Company's DSM 8 programs and recent results. I also provide documentation 9 showing that Avista's expenditures for electric and natural 10 gas energy efficiency programs have been prudently 11 incurred.

12 Q. Are you sponsoring any exhibits to be introduced
13 in this proceeding?

A. Yes. I am sponsoring Exhibit No. 16 prepared
under my supervision and direction. Exhibit No. 16
documents the results and cost-effectiveness of Avista's
DSM programs.

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II. DSM PROGRAMS AND 2007 RESULTS

20 Q. Would you please provide a brief overview of how 21 Avista's DSM programs are organized?

22 A. Yes. The Company's approach focuses on educating 23 customers about the benefits of energy efficiency and 24 providing a financial incentive, or "rebate," for cost-25 effective efficiency measures installed by customers with a

> Folsom, Di 2 Avista Corporation

simple pay-back of greater than one year. This includes 1 over 300 measures that are packaged into over 30 programs 2 for customer convenience. In 2007, the Company enhanced 3 its energy efficiency outreach efforts through our new 4 Bit" communications campaign. This 5 Little "Every comprehensive communication helps customers 6 approach reframe their thinking about energy efficiency and steers 7 8 them to our menu of rebates.

9 The Company's programs are delivered across a full 10 customer spectrum. Virtually all customers have had the 11 opportunity to participate and a great many have directly 12 benefited from the program offerings. As will be described 13 later in my testimony, all customers have indirectly 14 benefited through enhanced cost-efficiencies of both the 15 public and private sectors as a result of this portfolio.

16 The following illustration depicts Avista's17 residential program offerings:

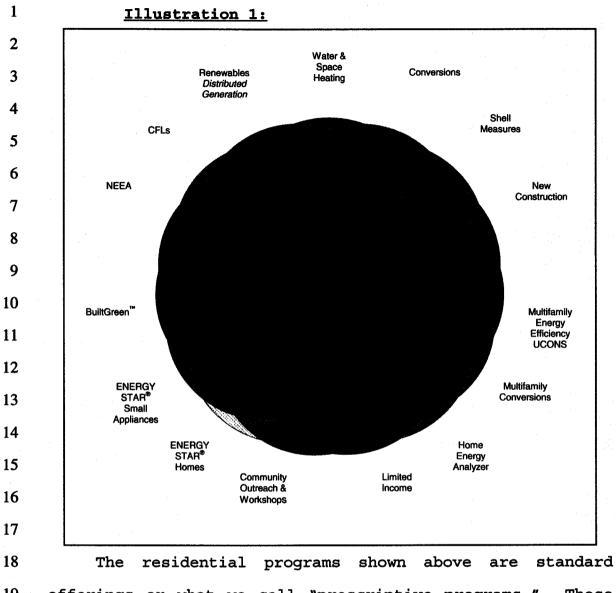
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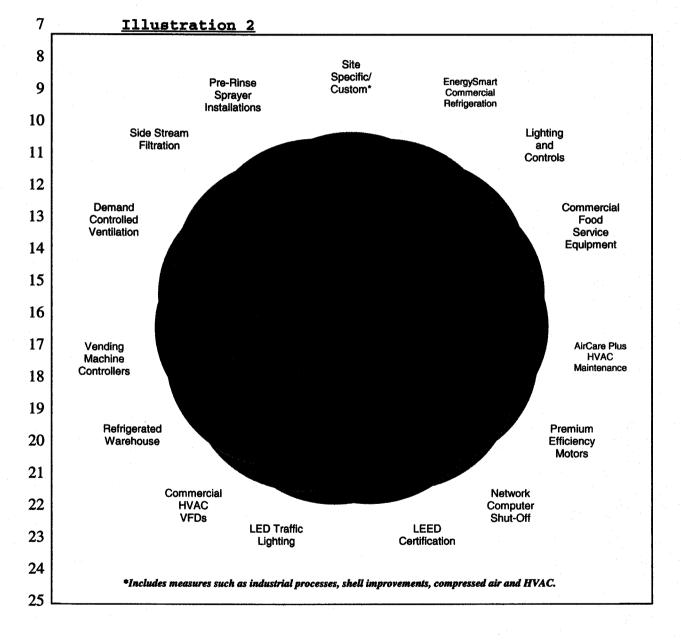
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19 offerings or what we call "prescriptive programs." These 20 represent a menu of rebates on selected measures (e.g., 21 lighting, weatherization, appliances, etc.).

For commercial customers, in addition to prescriptive programs, Avista offers "site specific" programs. Sitespecific programs are customized to the customer premise. The site specific offering provides incentives on any cost-

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effective commercial 1 and industrial energy efficiency 2 measure. This is implemented through site analyses, 3 customized diagnoses, and incentives determined for savings 4 generated specific to the customer's premise or process. 5 The following illustration shows the programs available to 6 Avista's commercial and industrial customers.



These programs are supported by twenty three full-time 1 equivalents (FTE) spread over 34 staff. (This does not 2 include Company support from the Contact Center, Corporate 3 Communications, Accounting and other direct and indirect 4 The 2007 DSM budget was over \$12 million. Of 5 support.) collected under 91 Schedules revenues 6 the Company's (electric tariff rider) and 191 (natural gas tariff rider) 7 in 2007, 72.3% was paid out to customers in direct 8 pursuant the cost-effectiveness tests 9 to incentives This does not include additional benefits 10 described below. such as technical analyses provided to customers by the 11 Company's DSM engineering staff. 12

Q. What were the Company's energy efficiency targets
and results for 2007?

energy efficiency targets are 15 Α. The Company's established in the process of developing the Electric and 16 Natural Gas Integrated Resource Plans (IRPs). The electric 17 IRP efficiency goal for Idaho and Washington in 2007 was 18 The achieved savings amount was 53.7 19 47.5 million kwhs. million kwhs or 113% of the annual target. This is 20 Over 130 aMW of cumulative savings approximately 6 aMW. 21 have been achieved through Avista's energy efficiency 22 efforts in the past thirty years; 103 aMW of DSM is 23 24 currently in place on the Company's system.

1 The savings targets contained in the natural gas IRP 2 for Idaho and Washington for 2007 was 1.062 million therms. 3 Over 1.5 million therms were saved which is 141% of the 4 2007 target.

5 Q. Do the 2007 results reflect Avista's 6 participation in regional energy efficiency efforts?

In addition to Avista's prescriptive and 7 Α. No. site-specific programs, the Company funds and participates 8 the activities of the Northwest Energy Efficiency 9 in Alliance (NEEA). NEEA focuses on using a regional approach 10 to obtain electric efficiency through the transformation of 11 markets for efficiency measures and services. An example 12 of NEEA-sponsored programs that benefits Avista customers 13 is decreasing the cost of compact fluorescent light bulbs 14 (CFLs) and high-efficiency appliances by working through 15 For some measures a large-scale, crossmanufacturers. 16 utility approach is the most cost-effective means to 17 achieve energy efficiency savings. This approach seems 18 particularly effective for markets composed of large 19 numbers of smaller usage consumers, such as the residential 20 and small commercial markets. 21

The results from NEEA programs for 2007 have not been reported as of the date of the submittal of this testimony. Historically, Avista has received approximately 1 to 1½ aMW of savings in its service territory from NEEA programs.

Has the Company expanded its efficiency efforts? 1 **Q**. Yes, in 2006 the leadership of Avista requested 2 Α. that all efficiency acquisition options-on the customer 3 side of the meter as well as on the Company's side-be re-4 The Company's recent Integrated Resource Plans 5 examined. showed a need for a large baseload generated facility in 6 Thus. are examining all 7 we the next ten years. sustainable, cost-effective efficiencies including demand 8 response to reduce load during peak periods and efficiency 9 enhancements to transmission and distribution facilities. 10 11 III. PRUDENCE OF INCURRED DSM COSTS 12 Would you please explain the Company's request 13 Q. for a finding of prudence in this case? 14 The Company's electric energy efficiency 15 Α. Yes. revenues are collected under the Schedule 91 tariff rider, 16 and its electric programs are offered through Schedule 90. 17 Natural gas energy conservation is funded by revenues 18 collected through Schedule 191 and programs are offered 19 As the Commission is aware, Avista's under Schedule 190. 20 tariff riders were the first non-bypassable distribution 21 charges in the United States to fund energy efficiency. 22 The electric energy efficiency tariff rider is a 1.25% 23 surcharge to all rate classes; the natural gas tariff rider 24 25 is a 1.50% distribution surcharge.

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the Commission approved the Company's energy 1 When efficiency programs in 1995 (in Case Nos. WWP-E-94-12 and 2 WWP-G-94-6), Avista committed to demonstrating the prudence 3 of program expenditures in future general rate cases. In 4 5 the Company's last general electric and natural gas rate cases (Case Nos. AVU-E-04-1 and AVU-G-04-1), the Commission 6 issued a finding in Order No. 29602 that electric and 7 natural gas expenditures through October 31, 2003 were 8 prudently incurred. At this time, the Company respectfully 9 requests that the Commission issue a finding that electric 10 energy efficiency expenditures from 11 and natural qas November 1, 2003 through December 31, 2007 were prudently 12 13 incurred.

Q. Would you please summarize the Company's energy
 efficiency-related programs for this time period?

16 A. Yes. The Company's tariff riders under Schedules 17 91 (electric) and 191 (gas) are system benefit charges to 18 fund energy efficiency.

19 From November 1, 2003 through December 31, 2007, 20 202,405,611 kWh and 4.28 million therms of energy savings 21 were obtained. Page 1 of Exhibit No. 16 details the energy 22 savings by regular and low-income portfolios for both 23 electric and natural gas DSM programs.

Q. Has there been ongoing review of the Company's programs? 1 The Company has regularly convened а Α. Yes. stakeholders forum known as the External Energy Efficiency 2 included customer meetings have 3 Board. These representatives, Commission staff members, and individuals 4 These stakeholder 5 from the environmental communities. meetings review the Company's program offerings as well as 6 the underlying cost-effectiveness tests and results. 7

Q. Have the Company's DSM programs been cost9 effective?

The programs have been cost-effective from 10 Α. Yes. both a Total Resource Cost (TRC) and Utility Cost Test 11 (UCT) perspective. Page 2 of Exhibit No. 16 shows that the 12 TRC benefit-to-cost ratio of 1.57 for the overall electric 13 DSM program portfolio is cost-effective, with a net TRC 14 benefit to customers of over \$48 million. The UCT benefit 15 to cost ratio is cost-effective with a net UCT benefit of 16 The levelized TRC and UCT cost is 4.3 17 over \$65 million. cents and 1.3 cents per kWh, respectively. The overall 18 portfolio of measures has a weighted average measure life 19 of 18.01 years. The comparable levelized electric avoided 20 cost for a measure of this life is 6.8 cents per kWh. 21 The electric DSM programs were also cost-effective under 22 the Participant Test. 23

24 Page 3 of Exhibit No. 16 illustrates that the natural 25 gas DSM program portfolio is cost-effective under both the

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TRC and UCT tests. The natural gas DSM programs are cost-1 effective with a 1.08 TRC benefit/cost ratio. The UCT 2 benefit to cost ratio is cost-effective with a net benefit 3 The levelized TRC and UCT cost is 67.6 of \$16.9 million. 4 cents and 25.9 cents per therm, respectively, for a 5 weighted average measure life of 22.53 The vears. 6 comparable levelized avoided cost per annual therm is 7 approximately 63.2 cents and 69.6 cents per winter therm 8 using the most recent natural gas avoided costs. The 9 levelized avoided cost calculations reflect only the 10 avoided cost value of the natural gas savings of the 11 project. The full TRC benefit is composed not only of this 12 natural gas avoided cost value, but also the electric 13 avoided cost and non-energy benefits associated with the 14 The levelized TRC cost calculations do reflect 15 portfolio. the entire costs of the project. The natural gas DSM 16 portfolio passes the Participant Test. 17

18

Q. Please summarize the Company's conclusions.

The Company's expenditure of tariff rider revenue 19 Α. has been reasonable and prudent. A portfolio of programs 20 covering all customer classes have been offered with a 21 total savings of over 200 million annual kWhs and 4 million 22 therms during November 1, 2003 through December 31, 2007. 23 An 18-year levelized utility cost per saved kilowatt hour 24 The levelized of 4.3 cents per kWh has been achieved. 25

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avoided costs during this similar period has been 6.8 cents
 per kWh. The 22 year levelized utility cost per saved
 therm has averaged 67.6 cents per therm.

programs have been verv Rider and Tariff 4 The successful. Participating customers have benefited through 5 Non-participating customers have benefited lower bills. 6 from the Company having acquired lower cost resources as 7 well as maintaining the energy efficiency message and 8 infrastructure for the benefit of our service territory. 9 Over 130 aMW and 6 million therms have been saved through 10 the Company's energy efficiency programs since 1995. 11

authorization of Commission prior 12 Pursuant to Schedules 91 and 191, Avista respectfully requests that the 13 prudence for energy of finding Commission issue a 14 efficiency expenditures from November 1, 2003 through 15 December 31, 2007. 16

17 Q. Does that complete your pre-filed direct 18 testimony?

19 A. Yes, it does.

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IN THE MATTER OF THE APPLICATION) CASE NO. AVU-E-08-01 OF AVISTA CORPORATION FOR THE) CASE NO. AVU-G-08-01 AUTHORITY TO INCREASE ITS RATES) AND CHARGES FOR ELECTRIC AND NATURAL GAS SERVICE TO ELECTRIC AND NATURAL GAS CUSTOMERS IN THE) STATE OF IDAHO

) EXHIBIT NO. 16

) BRUCE W. FOLSOM

FOR AVISTA CORPORATION

)

)

(ELECTRIC AND NATURAL GAS)

Avista Utilities Summary of Demand-Side Management Energy Savings and Levelized Costs November 1, 2003 to December 31, 2007

	Regular inco	me portfolio	Limited income portfolio				
	kWh savings	Therm savings	kWh savings	Therm savings			
Electric DSM programs	191,613,021	(639,079)	8,335,958	1,598			
Gas DSM programs	2,362,589	4,679,959	94,043	239,490			
Total	193,975,610	4,040,880	8,430,001	241,088			
Total portfolio							
	kWh savings	Therm savings					
Electric DSM programs	199,948,979	(637,481)					
Gas DSM programs	2,456,632	4,919,449					
Total	202,405,611	4,281,968					

Note: Electric savings derived from gas DSM programs include the impact of electric to natural gas conversions as well as interactive savings resulting from natural gas DSM projects. Therm savings derived from electric DSM projects recognize interactive impacts of electric DSM measures.

DSM Program Portfolio Levelized Cost Calculations

Electric DSM Program Portfolio

Total Resource Cost (TRC) \$	85,461,542	Total Resource Cost (TRC) \$	36,904,128
Weighted average measure life	18.01	Weighted average measure life	22.53
Discount rate	7.08%	Discount rate	7.08%
kWh energy savings	199,948,979	Therms energy savings	4,919,449
TRC levelized cost \$	0.043	TRC levelized cost \$	0.676
Utility Cost Test (UCT) cost \$	26,253,699	Utility Cost Test (UCT) cost \$	14,158,606
Weighted average measure life	18.01	Weighted average measure life	22.53
Discount rate	7.08%	Discount rate	7.08%
kWh energy savings	199,948,979	Therms energy savings	4,919,449
UCT levelized cost \$	0.013	UCT levelized cost	0.259
Comparative electric levelized		Comparative natural gas levelized	
avoided cost \$	0.068	annual avoided cost \$	0.632
la contra de			
		Comparative natural gas levelized	
		winter avoided cost \$	0.696

Natural Gas DSM Program Portfolio

Exhibit No. 16 Case Nos. AVU-E-08-01 AVU-G-08-01 B. Folsom, Avista Page 1 of 3

Avista Utilities

Summary of Electric Demand-Side Management Cost-Effectiveness

November 1, 2003 to December 31, 2007

TOTAL RESOURCE COST TEST		Regular income portfolio		Limited income portfolio	0\	verall portfolio
Electric program electric avoided cost	\$	90,449,286	\$	4,140,559	\$	94,589,845
Electric program gas avoided cost		(2,880,551)	\$	12,548	\$	(2,868,003)
Electric program non-energy benefits		42,006,835	\$	71,878	\$	42,078,713
TOTAL TRC BENEFITS	\$	129,575,570	\$	4,224,985	\$	133,800,555
Electric program non-incentive utility cost	\$	6,883,601	\$	246,580		7,130,181
Electric program customer cost	\$	76,043,123	\$	2,288,238		78,331,361
TOTAL TRC COSTS	\$	82,926,724	\$	2,534,818	\$	85,461,542
NET TRC BENEFITS	\$	46,648,846	\$	1,690,167	\$	48,339,013
TRC BENEFIT / COST RATIO		1.56		1.67		1.57
UTILITY COST TEST		Regular income portfolio		Limited income portfolio	0,	verall portfolio
Electric program electric avoided cost	\$	90,449,286	\$	4,140,559	\$	94,589,845
Electric program gas avoided cost		(2,880,551)	\$	12,548	\$	(2,868,003)
TOTAL UCT BENEFITS	\$	87,568,735	\$	4,153,107	\$	91,721,842
Electric program non-incentive utility cost	\$	6,883,601	\$	246,580	\$	7,130,181
Electric program incentive utility cost		16,869,211	\$			19,157,449
TOTAL UCT COSTS		23,752,812	\$	2,534,818	\$	26,287,630
NET UCT BENEFITS	\$	63,815,923	\$	1,618,289	\$	65,434,212
UCT BENEFIT / COST RATIO		3.69				3.49
PARTICIPANT TEST		Regular income portfolio	1	Limited income portfolio		verall portfolio
Electric program lost utility revenue PV	′\$		\$		\$	95,094,086
Non-energy benefits	\$	42,006,835	\$		\$	42,078,713
TOTAL PARTICIPANT BENEFITS	\$	131,416,838	\$	5,755,961	\$	137,172,799
Customer project cost	t \$	76,043,023	\$	The second se		78,331,261
Electric program incentive utility cost	t_\$	(16,869,211)	\$			(19,157,449)
TOTAL PARTICIPANT COSTS	\$	59,173,812	\$	-	\$	59,173,812
NET PARTICIPANT BENEFITS	\$	72,243,026	\$	5,755,961	\$	77,998,987
PARTICIPANT BENEFIT / COST RATIC)	2.22		NA		2.32
NON-PARTICIPANT TEST	Г	Regular income portfolio)	Limited income portfolio	C	overall portfolio
Electric program electric avoided cos	t_\$	90,449,286	\$	4,140,559	\$	94,589,845
TOTAL NON-PARTICIPANT BENEFITS	5 \$	90,449,286	1	4,140,559	\$	94,589,845
Electric program lost electric revenue PN	/ \$	94,229,039	9	5,663,317	\$	99,892,356
Electric program non-incentive utility cos			3		\$	7,130,181
Electric program incentive utility cos	t_1	16,869,211	\$			19,157,449
TOTAL NON-PARTICIPANT COSTS	5 \$	117,981,851	4	8,198,135	\$	126,179,986
NET NON-PARTICIPANT BENEFITS	5 \$	(27,532,565)) \$			(31,590,141)
NON-PARTICIPANT BENEFIT / COST RATIO)	0.77	,	0.51	Í	0.75
						Evhibit N

Exhibit No. 16 Case Nos. AVU-E-08-01 AVU-G-08-01 B. Folsom, Avista Page 2 of 3

Avista Utilities

Summary of Gas Demand-Side Management Cost-Effectiveness

November 1, 2003 to December 31, 2007

TOTAL RESOURCE COST TEST	R	egular income portfolio		Limited income portfolio	C	Overall portfolio
Gas program gas avoided cost	\$	27,338,535	\$	1,894,774	\$	29,233,309
Gas program electric avoided cost		1,901,799	\$	20,158		1,921,957
Gas program non-energy benefits		8,792,915	\$	-	\$	8,792,915
TOTAL TRC BENEFITS		38,033,249	\$	1,914,932	\$	39,948,181
Gas program non-incentive utility cost		2,111,151	\$	104,419		2,215,570
Gas program customer cost	\$	32,961,382	\$	1,727,176		34,688,558
TOTAL TRC COSTS	\$	35,072,533	\$	1,831,595	\$	36,904,128
NET TRC BENEFITS	\$	2,960,716	\$	83,337	\$	3,044,053
TRC BENEFIT / COST RATIO		1.08		1.05		1.08
	Б	egular income portfolio		Limited income portfolio		Overall portfolio
UTILITY COST TEST	R			Linited income portiono		
Gas program gas avoided cost	\$	27,338,535	\$	1,894,774		29,233,309
Gas program electric avoided cost	\$	1,901,799	\$	20,158	\$	1,921,957
TOTAL UCT BENEFITS	\$	29,240,334	\$	1,914,932	\$	31,155,266
	•	0 444 454	*	104,419	•	2,215,570
Gas program non-incentive utility cost		2,111,151	\$ ¢	1,695,927		2,215,570 11,943,036
Gas program incentive utility cost		10,247,109	\$			
TOTAL UCT COSTS		12,358,260	\$	1,800,346		14,158,606
NET UCT BENEFITS		16,882,074	\$	114,586	\$	16,996,660
UCT BENEFIT / COST RATIO		2.37		1.06		2.20
PARTICIPANT TEST	R	egular income portfolio		Limited income portfolio	(Overall portfolio
Gas program lost utility revenue PV	\$	37,983,824	\$	2,155,481	\$	40,139,305
Non-energy benefits		8,792,925	\$	-	\$	8,792,925
TOTAL PARTICIPANT BENEFITS	_	46,776,749	\$	2,155,481	\$	48,932,230
	•					
Customer project cost	\$	32,961,382	\$	1,727,176		34,688,558
Gas program incentive utility cost	\$	(6,628,758)	\$	(1,695,927)		(8,324,685)
TOTAL PARTICIPANT COSTS	\$	26,332,624	\$	31,249	\$	26,363,873
NET PARTICIPANT BENEFITS	\$	20,444,125	\$	2,124,232	\$	22,568,357
PARTICIPANT BENEFIT / COST RATIO	1	1.78		68.98		1.86
NON-PARTICIPANT TEST	F	legular income portfolio		Limited income portfolio	(Overall portfolio
		27,338,535	\$			29,233,309
Gas program gas avoided cost			-			29,233,309
TOTAL NON-PARTICIPANT BENEFITS	Ф	27,338,535	\$	1,094,774	Ι Φ	29,200,009
Gas program lost gas revenue PV		35,863,988	\$		\$	37,994,215
Gas program non-incentive utility cost		2,111,151	\$			2,215,570
Gas program incentive utility cost		6,628,758	\$			8,324,685
TOTAL NON-PARTICIPANT COSTS	\$	44,603,897	\$	3,930,573	\$	48,534,470
NET NON-PARTICIPANT BENEFITS	\$	(17,265,362)	\$	(2,035,799)	\$	(19,301,161)
NON-PARTICIPANT BENEFIT / COST RATIO)	0.61		0.48		0.60
						Exhibit
				0		
				C	as	e Nos. AVU-E AVU-G

Exhibit No. 16 ase Nos. AVU-E-08-01 AVU-G-08-01 B. Folsom, Avista Page 3 of 3