RECEIVED FILED	Emmand Managed
2004 JUN 21 PM	1:58
16240 PUB	

BEFORE THE

IDAHO PUBLIC UTILITIES COMMISSION

IN THE MATTER OF THE APPLICATION)
OF AVISTA CORPORATION FOR) CASE NO. AVU-E-04-1/
AUTHORITY TO INCREASE ITS RATES) AVU-G-04-1
AND CHARGES FOR ELECTRIC AND)
NATURAL GAS SERVICE TO ELECTRIC	, ,
AND NATURAL GAS CUSTOMERS IN	j
THE STATE OF IDAHO.)
)

DIRECT TESTIMONY OF MICHAEL FUSS
IDAHO PUBLIC UTILITIES COMMISSION
JUNE 21, 2004

2	the record.
3	A. My name is Michael Fuss. My business address
4	is 472 West Washington Street, Boise, Idaho.
5	Q. By whom are you employed and in what capacity?
6	A. I am employed by the Idaho Public Utilities
7	Commission as a Staff engineer.
8	Q. What is your educational and professional
9	background?
10	A. I have a Bachelor of Science Degree in Civil
11	Engineering from Washington State University and a Master
12	of Business Administration Degree from Boise State
13	University. I am a licensed Civil Engineer in the states
14	of Idaho, Oregon, and Washington. I am a past president
15	of the Southern Idaho Section of the American Society of
16	Civil Engineers and have been a member of various
17	professional affiliations and service organizations.
18	I have over 15 years of Civil Engineering
19	Experience in the areas of Municipal, Utility,
20	Regulatory, and Development Civil Engineering and
21	consulting.
22	While at the Idaho Public Utility Commission I
23	have attended the National Association of Regulatory
24	Utility Commissioners (NARUC) Basic Training Program,
25	Risk Management Techniques for the Natural Gas Industry

Q.

1

25

Please state your name and business address for

1	at New Mexico State University and the Northwest Public
2	Power Association's course on Unbundled Cost of Service &
3	Rate Design.
4	Q. What is the purpose of your testimony?
5	A. My testimony pertains only to Avista's Natural
6	Gas (Gas) rate case. In my testimony I review the
7	Company's Natural Gas Jurisdictional Separation Study
8	(Separation Study). This separation study is used by
9	Avista to develop the Idaho gas unadjusted results of
10	operation.
11	I review the Company's Gas Cost of Service
12	(COS) Study, its method of incorporating the results of
13	operation adjustments, and the development of the Class
14	Revenue Requirement.
15	I also review the Cost of Gas in base rates,
16	Gas Special Contracts, and recommend an additional
17	natural gas tariff sheet.
18	Q. How is your testimony structured?
19	A. My testimony is structured as follows:
20	Summary
21	Gas Jurisdictional Separation
22	Methodology
23	Adjustments
2.4	Cost of Service

Methodology

Other Studies
Adjustments

2.4

Adjustment Summary

Cost of Gas in Base Rates

Special Contracts

Tariff Summary Sheet Recommendation

- Q. Would you please summarize your testimony?
- A. I have reviewed and recommend acceptance of the Company's Gas Jurisdictional Separation Study using the Four-Factor methodology with one minor adjustment.

I have also reviewed and recommend acceptance of the Company's Gas Cost of Service Study known as the Washington Accepted Methodology with exception of two adjustments. I recommend an adjustment in usage within the pro forma revenue calculation that results in an increase of \$23,000 to current revenues. I also recommend allocating storage expenses and credits based on winter therm usage as opposed to the annual usage proposed by the Company.

I recommend that the Company's request to move the cost of gas in base rates to \$0.44989/therm be considered reasonable. I believe increasing the cost of gas in base rates will reduce the overall magnitude of future PGA adjustments. If actual gas costs increase, the PGA adjustment will be lower; and if actual gas costs

decrease, a PGA credit is more likely.

2.0

I recommend acceptance of the Company's treatment of Idaho gas special contracts within the Gas COS Study. I believe the Gas COS Study appropriately allocates gas special contract revenues and expenses.

I recommend that the Company be directed to add a tariff summary sheet to its gas tariff schedules. I believe the additional tariff sheet will not be administratively burdensome for the Company and it will provide clarity for Customers.

GAS JURISDICTIONAL SEPARATION STUDY

- Q. Have you reviewed the Company's Gas

 Jurisdictional Separation Study and do you have any
 recommendations regarding the study?
- A. Yes, I have reviewed the Company's Gas
 Jurisdictional Separation Study and recommend that the
 Commission accept the Separation Study with a minor
 adjustment. The Separation Study uses the Four-Factor
 methodology, a methodology first reviewed by Staff when
 initiated by the Company in 1993. The Separation Study
 is also consistent with the methodology used in Case No.
 WWP-E-98-11, the last Avista Idaho Electric General Rate
 Case. Furthermore, the general methodology of the
 Separation Study has been approved for the Company in all
 of its other operating jurisdictions.

Methodology

1

2

3

4

6

7

8

9

10

11

12

13

14

15

16

17

18

19

2.0

21

22

2.3

24

25

- Q. Please give a brief description of the Company's Gas Jurisdictional Separation Study methodology.
- A. Jurisdictional separation is performed in the following steps.

Direct Assignment

All expenses, revenues, and rate base investments that can be directly assigned are allotted to the Idaho gas jurisdiction.

Utility Codes

For items not directly assigned, six utility codes are used to assign expenses, revenues and rate base to common cost categories. The categories are Avista Electric, Avista Gas, WPNG (Avista Gas OR/CA), Common to Avista Electric and Avista Gas, Common to Avista Gas and WPNG, and Common to Avista Electric, Avista Gas and WPNG.

Four-Factor

For common items the Company uses an allocator composed of four factors to allocate these items to the Idaho natural gas utility. The four factors are: Direct O&M Expense excluding labor and resource costs, Direct Labor, Number of Customers, and Net Direct Plant.

Other Allocators

The Company uses a number of other allocators

such as five-day firm peak demand, distribution operating
expense and number of customers to allocate the
appropriate Avista Gas costs to the Idaho gas
jurisdiction.

Adjustments

- Q. Do you recommend that the methodology from the Company's Gas Jurisdictional Separation Study be accepted without change?
- A. No. I believe that one minor adjustment is necessary.
 - Q. Would you please explain your minor adjustment?
- A. I believe the Separation Study is inconsistent in the allocation of plant investment, expenses, and revenues in the following tax adjusting (Schedule "m") accounts in report G-SCM-12A: 1999.09

 Hardware/Software/Furniture Lease Payments, 1999.13

 Airplane Lease Payments, and 1999.14 Sale Leaseback of General Office Building. In the Separation Study as filed, the Company uses allocator 5-Actual Therms

 Purchased for these accounts. I believe this is incorrect.

In all other areas within the Separation Study where I reviewed the natural gas accounts 1999.09, 1999.13, and 1999.14, the revenue and expenses were allocated using the four-factor allocator. The same

Schedule "m" accounts are also allocated using the four-factor methodology in the Electric Jurisdictional Separation Study. Therefore, I recommend that the appropriate four-factor allocator be used to distribute costs in the stated gas accounts.

- Q. What is the net affect of this adjustment?
- A. Using the four-factor allocator on the listed accounts reduces Idaho's share of taxes and the Idaho gas net operating income by \$1,888. The Company in answer to Staff Production Request No. 179 confirmed the amount of the adjustment.

GAS COST OF SERVICE STUDY

Methodology

- Q. Would you please describe the Company's Gas Cost of Service (COS) Study?
- A. Certainly, the Company's Gas COS Study is a complex operation using three main Excel spreadsheets to incorporate the results of operation, make adjustments, functionalize, classify, and allocate expenses to develop the revenue requirement for the various customer classes. Output from the Gas COS Study is then used to help design rates. The Company uses the spreadsheet "Proform" to incorporate the results of operation and make adjustments. It uses the spreadsheet "Assign" to functionalize, classify, and assign costs. "Assign"

contains various parameters used to develop allocation factors and facilitate cost assignment. The final spreadsheet "Sumcost" organizes the results and provides a revenue requirement estimate for each customer class.

The Company's Gas Cost of Service Study also incorporates a number of "other studies" used to normalize the results and create allocation factors.

Some of the other studies worth mentioning are the weather normalization study, the Pro Forma Gas Revenue Calculation, the Labor Dollars study, and the Weighted Meter and Service Cost Analysis.

Other Studies

- Q. Would you please explain the significance of these other studies and why these particular studies are most important?
- A. Certainly. The weather normalization study is important because natural gas usage is highly weather dependant for most customer classes. The weather normalization study uses regression analysis to determine the amount of gas consumption that is weather dependant for each customer class. It also relates the test year weather pattern to a 30-year normal weather pattern and adjusts the test year usage to reflect normal weather conditions. Staff witness Sterling's direct testimony includes additional discussion on weather normalization.

customer changes, weather normalization, and period adjustments. The Pro Forma Calculation uses rates in place during the test year to reflect the appropriate normalized revenue generation by the various customer classes.

The Labor Dollars Study is a study that is embedded within the Gas COS Study that determines labor cost allocation. This study is important because it is used to develop labor allocators used in the four-factor allocator within the Jurisdictional Separation Study. The labor allocators are also used to allocate costs for some labor related accounts.

The Pro Forma Revenue Calculation develops

normalized billing determinants (therms and customers)

average. This includes but is not limited to known

adjusting the test year to reflect expected conditions on

The Weighted Meter and Service Cost Analysis is an engineering/economic study that calculates metering and service costs for the various customer classes. This study is important because it creates weighting factors and cost relationships used to allocate a number of meter and customer cost categories.

- Q. What is the purpose of the Gas Cost of Service Study?
 - A. The Gas Cost of Service Study is an engineering

economic analysis that allocates expenses to establish the revenue requirement based on cost causation. The account-by-account study apportions each expense to the various customer classes or rate schedules. The Gas Cost of Service Study is the starting point in ultimately establishing rates for each customer class. The results of the study provide an indication of the amount of revenue that should be generated from rates for each customer class or rate schedule.

- Q. Do you agree with the Company's Gas Cost of Service Study?
- A. Not entirely; there are any number of ways to perform a cost of service study and any number of items that can be used to allocate costs among customer classes. Any individual or interest group could reasonably argue for changes that would cause costs to shift from one customer class to another. After a detailed review of the Company's Gas COS Study, I believe several small adjustments are required.

Adjustments

- Q. What changes to the Company's Gas Cost of Service Study do you recommend?
- A. I recommend changes to the Company's Pro Forma Gas Revenue calculation. The Company adjusts for known and measurable changes in usage by adding or subtracting

2.0

revenue in the Pro Forma Revenue Calculation. In Brian Hirschkorn's workpapers GA1-GA5 adjustments are made in gas consumption to reflect actual conditions, weather normalization, and unbilled usage. The consumption reduction in Mr. Hirschkorn's calculation of revenue associated with Schedules 111 and 112 double counts gas revenue included in the monthly minimum charge. Double counting the reduction causes an understatement of approximately \$23,000 in the Idaho Gas Pro Forma Revenue Calculation. I recommend that additional revenue be included in the Company's Gas COS Study to properly reflect normalized revenues.

I further recommend adding consumption to the normalized billing determinants used to determine proposed rates.

- Q. What is the net affect of your recommended adjustments?
- A. The net affect of my adjustments is a decrease in Idaho Gas Revenue Requirement of \$23,414 when tax effects are included.
- Q. Does Staff agree with the methodology the Company uses to allocate storage costs and storage capacity release credits to the various Idaho customer classes?
 - A. No. Staff has reviewed the Company's

methodology and believes that adjustment is necessary. The Company allocates storage costs and credits among the Idaho classes based on annual consumption. While this methodology will allocate costs and credits, it does not reflect the true value each class receives when using the Company's storage facilities.

The primary purpose of the Company's storage facilities is for winter peak supply. The use of the storage facilities is very limited throughout the rest of the year. In fact stored gas is currently distributed to Idaho on a systematic schedule. Storage is used in the months of November, December, January, February, and March. Staff believes that allocating storage costs based on individual customer class usage over these months is more appropriate because it better reflects values received by each class. Consequently, I have included this allocation methodology in the Company's Gas Cost of Service Study.

Furthermore, Staff believes that the storage capacity release credits should also be allocated based on the monthly storage withdrawal cycle. Staff has made two adjustments to the Company's Gas Cost of Service Study to reflect this change. Staff first allocates the credit over the Company's fixed storage withdrawal schedule on the basis of volume to determine the amount

Adjustment Summary

18

19

15

16

17

20

21 22

23

24

25

of credit attributable to each month. Staff then allocates the monthly storage credit to each customer class based on the class's contribution to the monthly I have included this allocation methodology throughput. in Staff's adjustment to the Gas Cost of Service Study. The storage allocator calculation is attached as Exhibit No. 136. All natural gas rates and Gas Cost of Service results presented in my testimony include these allocations. While the changes to the storage allocations do not change the Gas Jurisdictional Revenue Requirement, Staff believes it provides a more appropriate revenue requirement by customer class. recommends that the Commission approve allocation of storage costs and credits based on the Company's actual use of storage.

- Ο. What is the net affect on the Gas Jurisdictional Revenue Requirement from the recommended adjustments included in your testimony?
- The net affect to the Idaho Gas Revenue Requirement is a decrease of \$26,367. The decrease is shown as adjustment G13 & G14 on Staff Exhibit No. 107.
- Q. Have you provided a summary of the Staff adjusted Gas Cost of Service results?
 - Α. Yes, attached as Exhibit No. 137 are the

4

1

2

- Q. Has the Company requested a change in the cost of gas included in base rates?
- 5
- Yes, the Company has requested to increase gas costs in base rates to \$0.44989/therm.
- 7

6

- Do you believe an adjustment of gas cost in base rates is necessary?
- 9

Α.

in base rates.

\$0.44989/therm.

has requested and received several fairly large Purchase

Yes, over the past several years the Company

The Company is proposing to add the

11

10

- Gas Cost Adjustments (PGA). These rate adjustments were intended to reflect the Company's actual cost of gas
- 12
- purchased for customers above the price of gas included 13
- 14
- current PGA WACOG adjustment of \$0.27186/therm to base 15
- 16
- rates to produce a total base rate gas cost of
- 17
- I believe this change in gas cost is 18
- 19
- 2.0
- 21
- 2.2
- 23
- 24
- 25
- appropriate. Base rates should reflect the best estimate of what gas costs would be in the future. The more accurately base rates reflect gas costs, the less extreme PGA adjustments will be.
- Q. Is a gas cost of \$0.44989/therm the appropriate price level to be included in base rates today?
 - Α. While Staff cannot predict the magnitude of

1

2

3

4

5

6

7

17

18

19

20

21

22

23

24

25

future natural gas prices with certainty, we believe that the \$0.44989/therm proposed by the Company is a reasonable price level for natural gas in base rates going forward. Natural gas prices are considerably higher today than in 1988 when the current base rate gas price of \$0.17803/therm was established. However, Staff notes that increasing gas costs included in base rates will not eliminate the need for a PGA in the future. the extent actual gas costs increase, the PGA will simply be lower than it otherwise would have been. If actual gas costs decrease, then larger PGA credits will result.

That being said, natural gas is in a period of extreme volatility. Staff believes that natural gas prices will likely vary between \$0.300 and \$0.600 over the next five to seven years. The Company's proposed cost of gas in base rates falls at approximately the midpoint of Staff's estimated range of future gas prices. Therefore, Staff recommends that the Company's proposal be accepted.

SPECIAL CONTRACTS (NATURAL GAS)

- How are Idaho Gas Special Contract customers like Potlatch, IMCO, and Lignetics treated in the rate case?
- Α. The Company has included all expenses associated with serving Idaho's Gas Special Contract

1.3

customers in the general rate filing. These expenses are allocated among all customer classes using the same methodology used for allocating other service costs. In order to offset the rate effect of allocating special contract expenses to other customer classes, special contract revenue is also credited to the classes. The result is the inclusion of costs and benefits to all other customer classes.

Staff believes that the revenue credit continues to provide an adequate offset to Company expenses as approved by the Commission during the contract approval process. Based on Staff's review of the Company's Gas Cost of Service Study, the credits are appropriately applied.

- Q. Are Idaho Gas Special Contract Customers rates changed as a result of this case?
- A. No. All Gas Special Contract Customers in Idaho are served under existing long-term contracts at fixed rates. All current Idaho contracts were in place before the test year used by the Company in this case. While Special Contract rates are not changed as a result of this case, the Commission has previously reviewed the contract conditions and revenue contribution from these customers and found them prudent. However, when the current contracts expire, the terms and contribution of

each contract should be reevaluated and updated to reflect the appropriate cost of service or appropriate level of contribution to margin. Staff does not believe that any change is necessary at this time.

TARIFF ISSUE

- Q. Do you have any natural gas general tariff recommendations?
- A. Yes, Staff recommends that the Company add a tariff summary sheet, denoted as sheet D, which summarizes all natural gas rate schedules and all natural gas adjustment clauses with the exception of local franchise fees. Currently the Company uses a number of tariff sheets such as Schedules 150, 155, and 191 to identify various periodic rate adjustments such as Purchase Gas Adjustments (PGAs) and Demand Side

 Management (DSM) tariff riders. While the use of the various tariff schedules minimizes the number of sheets that must be updated, the practice increases the likelihood for rate calculation errors and is somewhat confusing to customers. Staff believes adding a tariff sheet will benefit customers and will not be overly burdensome on the Company.
- Q. Does this conclude your direct testimony in this proceeding?
 - A. Yes, it does.

Staff Calculation Allocate Storage Costs Based on Storage Withdrawal Schedule

Withdrawal from Schedule 163 paragraph 4 5/28/2004

Storage Capacity Release Credit to Idaho

\$647,000

	Spread of Credit based on the Storage Withdrawal Schedule								
From Schedule 163 Para 4									
Withdrawal Credit									
	Dth Spread								
November	65179	\$61,579							
December	170748	\$161,316							
January	213435	\$201,645							
February	192780	\$182,131							
March	42687	\$40,329							
Total	684829	\$647,000							

Rate Sched	dule Allocato	or Based o	n Winter L	Jsage			
Data From							
	Sch 101	Sch 111	Sch 121	Sch 131	Sch 146	Total	li de la companya de
November	5148821	1269795	222157	60150	381259	7082182	
December	6649173	1535662	225555	62009	374138	8846537	
January	8669247	1939247	204488	60327	378706	11252015	
February	7606192	1728687	197331	50236	322536	9904982	!
March	7340150	1692575	212566	47471	288421	9581183	
Total	35413583	8165966	1062097	280193	1745060	46666899	New Allocator E
						46666899	Check

Summed A	llocator for	Storage Ca	apacity Cr	edit			
	Credit Alloca	ted To Sch	edule Base	ed on Therm	n Usage		
	Sch 101	Sch 111	Sch 121	Sch 131	Sch 146	Total	
November	\$44,768	\$11,041	\$1,932	\$523	\$3,315	\$61,579	
December	\$121,247	\$28,003	\$4,113	\$1,131	\$6,822	\$161,316	
January	\$155,360	\$34,753	\$3,665	\$1,081	\$6,787	\$201,645	
February	\$139,861	\$31,787	\$3,628	\$924	\$5,931	\$182,131	
March	\$30,896	\$7,124	\$895	\$200	\$1,214	\$40,329	
Total	\$492,133	\$112,707	\$14,232	\$3,858	\$24,069	\$647,000	New A
		_				\$647,000	Check

Allocator S22

	Sumcost Company Base Case WA Accepted Methodology	Cost of Ser	vice General S	DJUSTED BY P ummary nded Decembe		Natural Gas Utili Idaho Jurisdiction	•	6/18/04 4:37 PM
	(b)	(c) (d) (e)	(f) System	(g) Residential Service	(h) Small Firm Service	(i) Large Firm Service	(j) Interrupt Service	(k) Transport Service
	Description		Total	Sch 101	Sch 111	Sch 121	Sch 131	Sch 146
	Plant In Service			20.1.101	00.1.1.1	0011121	Och lol	0011110
1	Production Plant							
2	Underground Storage Plant		5,041,000	3,825,407	882,095	114,729	30,267	188,503
3	Distribution Plant		87,598,000	75,115,371	10,131,341	937,240	199,847	1,214,201
4	Intangible Plant		766,000	652,766	91,047	8,694	1,902	11,591
5	General Plant	_	5,943,000	5,064,228	706,537	67,486	14,762	89,987
6	Total Plant In Service		99,348,000	84,657,773	11,811,019	1,128,149	246,778	1,504,281
7	Accum Depreciation Production Plant							
8	Underground Storage Plant		(2,294,000)	(1,740,822)	(401,414)	(52,209)	(13,773)	(85,782)
9	Distribution Plant		(26,397,000)	(22,793,740)	(2,880,654)	(299,560)	(63,624)	(359,421)
10	Intangible Plant		(626,000)	(533,435)	(74,422)	(7,109)	(1,555)	(9,479)
11		_	(2,076,000)	(1,769,029)	(246,806)	(23,574)	(5,157)	(31,434)
12	Total Accumulated Depreciation		(31,393,000)	(26,837,027)	(3,603,296)	(382,452)	(84,110)	(486,115)
13	Net Plant		67,955,000	57,820,746	8,207,723	745.696	162,668	1,018,166
14	Accumulated Deferred FIT		(9,831,160)	(8,377,462)	(1,168,781)		(24,420)	(148,859)
15	Miscellaneous Rate Base		743,000	515,867	138,081	32,620	6,839	49,592
16	Total Rate Base	-	58,866,840	49,959,152	7,177,023	666,679	145,087	918,899
	Revenue From Retail Rates		51,419,278	40,113,651	8,954,774	1,521,691	385,070	444,092
18	Other Operating Revenues	_	1,156,000	925,383	173,755	19,897	5,091	31,875
19	Total Revenues		52,575,278	41,039,034	9,128,529	1,541,588	390,161	475,967
	Operating Expenses							
	Purchased Gas Costs		35,797,892	27,296,587	6,923,227	1,262,238	312,505	3,334
21	Underground Storage Expenses		133,805	101,539	23,414	3,045	803	5,003
	Distribution Expenses		2,123,435	1,822,953	214,313	39,047	8,452	38,669
23			1,918,196	1,863,897	46,106	5,235	1,309	1,649
	Customer Information Expenses		257,116	220,236	23,672	4,865	1,023	7,321
	Sales Expenses Admin & General Expenses		216,129	213,954	2,105	37	7	26
27	Total O&M Expenses	-	3,593,160 44,039,733	2,950,686 34,469,853	436,794 7,669,631	74,663 1,389,130	20,296	110,721
۷,	Total Odivi Expenses		44,039,733	34,409,603	7,009,031	1,369,130	344,396	166,723
28 2 9	Depreciation Expense		876,000	746,673	104,021	9,923	2,168	13,215
30	0 0		104,968	79,656	18,368	2,389	630	3,925
31			2,125,000	1,841,640	226,067	23,626	5,013	28,653
32			321,016	273,548	38,164	3,645	797	4,861
	Amortization of Intangible Plant		260,000	221,555	30,910	2,952	646	3,937
34	• •		2,810,984	2,416,399	313,509	32,613	7,087	41,376
	Income Tax		1,389,744	707,601	469,169	52,362	19,775	140,837
36	Total Operating Expenses		49,116,461	38,340,526	8,556,330	1,484,027	373,426	362,151
37	Net Income		3,458,817	2,698,508	572,199	57,561	16,734	113,815
38	Rate of Return		5.88%	5.40%	7.97%	8.63%	11.53%	12.39%
39	Return Ratio		1.00	0.92	1.36		1.96	2.11
40	Interest Expense		2,761,000	2,343,207	336,620	31,269	6,805	43,099

Sumcost Company Base Case WA Accepted Methodology AVISTA UTILITIES AS ADJUSTED BY PUC STAFF Cost of Service General Summary

Natural Gas Utility Idaho Jurisdiction For The Twelve Months Ended December 31, 2002

6/18/04 4:37 PM

(b)	(c) (d) (e)	(f)	(g) Residential	(h) Small Firm	(i) Large Firm	(j) Interrupt	(k) Transport
		System	Service	Service	Service	Service	Service
Description		Total	Sch 101	Sch 111	Sch 121	Sch 131	Sch 146
STAFF REVENUE REQUIREMENT CALCULAT	TION						
Total Rate Base		\$58,866,840	\$49,959,152	\$7,177,023	\$666,679	\$145,087	\$918,899
Total Current Revenues		\$52,575,278	\$41,039,034	\$9,128,529	\$1,541,588	\$390,161	\$475,967
Total Current Operating Expenses AT		\$49,116,461	\$38,340,526	\$8,556,330	\$1,484,027	\$373,426	\$362,151
Net Income AT		\$3,458,817	\$2,698,508	\$572,199	\$57,561	\$16,734	\$113,815
Current Rate of Return		5.88%	5.40%	7.97%	8.63%	11.53%	12.39%
Percent of Current Return		100.00%	91.93%	135.69%	146.94%	196.30%	210.80%
Recommended Rate of Return		9.25%	9.25%	9.25%	9.25%	9.25%	9.25%
Net Income Required At Rec. ROR		\$5,445,183	\$4,621,222	\$663,875	\$61,668	\$13,421	\$84,998
Income Deficiency BT		\$1,986,366	\$1,922,714	\$91,676	\$4,107	(\$3,314)	(\$28,817)
Tax Gross Up Factor		0.639261	0.639261	0.639261	0.639261	0.639261	0.639261
Increase in Rev. Rqmt. AT		\$3,107,284	\$3,007,713	\$143,409	\$6,425	(\$5,184)	(\$45,079)
Total Recommended Revenue Requirement		\$55,682,562	\$44,046,747	\$9,271,938	\$1,548,013	\$384,977	\$430,888
Other Operating Revenues (Staff Alloc)		(\$1,156,000)	(\$925,383)	(\$173,755)	(\$19,897)	(\$5,091)	(\$31,875
Rev. Req. From Rates @ COS & ROR		\$54,526,562	\$43,121,364	\$9,098,183	\$1,528,116	\$379,886	\$399,013
Staff Adjustment		\$0	(\$213,745)	\$105,251	\$21,840	\$10,759	\$75,895
Staff Recommended Rate Revenue Requiremen	nt	\$54,526,562	\$42,907,619	\$9,203,435	\$1,549,956	\$390,644	\$474,908
Cost of Service Index		100.00%	99.50%	101.16%	101.43%	102.83%	119.02%
Recommended Increase		\$3,107,284	\$2,793,968	\$248,660	\$28,265	\$5,575	\$30,816
Recommended Increase (%)		5.98%	6.97%	2.78%	1.86%	1.45%	6.94%

AVISTA UTILITIES STAFF PROPOSED COST OF SERVICE BY SCHEDULE IDAHO - GAS 12 MONTHS ENDED DECEMBER 31, 2002 (000s of Dollars)

Line No Type of Service	Schedule	Revenue Under Present Rates (1)	Move to COS	Cost of Service Revenue Requirement	Therms (000s)	Cost of Service Per Therm	Cost of Gas
	(q)	(c)	(p)	(e)	(£)	(b)	(h)
1 General Service	101	\$40,114	\$3,008	\$43,121	50978	84.588¢	\$27,297
2 Large General Service	11	\$8,955	\$143	860'6\$	12930	70.368¢	\$6,923
3 High Annual Load Factor LGS	121	\$1,522	\$6	\$1,528	2357	64.825¢	\$1,262
4 Interruptible Service	131	\$385	(\$2)	\$380	691	54.974¢	\$313
5 Transportation Service	146	\$444	(\$45)	\$399	4200	9.501¢	\$3
6 Special Contracts		\$500	\$0	\$500	58852	0.850¢	0\$
7 Total		\$51,919	\$3,107	\$55,027	130007	42.326¢	\$35,798

(1) Includes Purchase Adjustment Schedule 150 / Excludes other rate adjustments

Exhibit No. 137 Case No. AVU-E-04-1/ AVU-G-04-1 M. Fuss, Staff 6/21/04 Page 1 of 5 Sumcost Company Base Case WA Accepted Methodology AVISTA UTILITIES AS ADJUSTED BY PUC STAFF Summary by Function with Margin Analysis For The Twelve Months Ended December 31, 2002 Natural Gas Utility Idaho Jurisdiction 6/18/04 4:37 PM

(b) (d	(c) (d) (e) (f)	(g) Residential	(h) Small Firm	(i) Large Firm	(j) Interrupt	(k) Transport
Description	System Total	Service Sch 101	Service Sch 111	Service Sch 121	Service Sch 131	Service Sch 146
Description	TOTAL	3011101	SCITTI	301 121	3011 131	3011 140
Functional Cost Components at Current Rates						
1 Production	36,008,084	27,456,863	6,963,878	1,269,650	314,340	3,353
2 Underground Storage	(174,818)	(175,993)	(9,368)	229	1,134	9,179
3 Distribution 4 Common	11,422,937	9,444,718	1,463,583	168,334	46,803	299,499
	4,163,193	3,388,156	536,701	83,482	22,794	132,061
5 Total Current Rate Revenue 6 Exclude Cost of Gas w / Revenue Exp.	51,419,396	40,113,743	8,954,795	1,521,695	385,070	444,093
7 Total Margin Revenue at Current Rates	35,847,253 15,572,143	27,336,965 12,776,778	6,933,468 2,021,327	1,264,105 257,590	312,715 72,355	0 444,093
	10,012,110	,,	_,,	201,000	. =,	,
Margin per Therm at Current Rates 8 Production	¢0.002260	# 0.002252	\$0.002352	# 0.0000 # 0	\$0.002352	¢ 0.000700
9 Underground Storage	\$0.002260	\$0.002352	\$0.002352	\$0.002352 \$0.000097		\$0.000798 \$0.002186
Distribution	(\$0.002457) \$0.160534	(\$0.003452) \$0.185271	(\$0.000725) \$0.113197	•	\$0.001641	\$0.002100
1 Common	\$0.058508	\$0.066463	\$0.041510	\$0.071410 \$0.035414	\$0.067729 \$0.032985	\$0.071312
Total Current Margin Melded Rate per Therm	\$0.218846	\$0.250633	\$0.156334	\$0.109273	\$0.104707	\$0.031444
, i	·	*	V	V	**********	***********
Functional Cost Components at Uniform Currer		27 456 962	6 062 979	4 200 050	244 240	2.252
3 Production 4 Underground Storage	36,008,084	27,456,863	6,963,878	1,269,650	314,340	3,353
5 Distribution	(198,311)	(151,648)	(34,191)	(4,018)	(1,164)	(7,290
6 Common	11,445,404	10,095,121	1,059,087	120,206	25,725	145,265
7 Total Uniform Current Cost	4,164,219 51,419,396	3,426,340 40,826,676	513,145 8,501,918	80,523 1,466,360	21,465 360,367	122,746 264,07 5
8 Exclude Cost of Gas w / Revenue Exp.	35,847,253	27,336,965	6,933,468	1,264,105	312,715	204,07
9 Total Uniform Current Margin	15,572,143	13,489,711	1,568,450	202,255	47,652	264,07
o round our on margin	10,012,110	10,100,111	1,000,100	202,200	-17,002	204,014
Margin per Therm at Uniform Current Return						
0 Production	\$0.002260	\$0.002352	\$0.002352	\$0.002352	\$0.002352	\$0.000798
21 Underground Storage	(\$0.002787)	(\$0.002975)	(\$0.002644)	(\$0.001704)	(\$0.001685)	(\$0.001736
2 Distribution	\$0.160850	\$0.198029	\$0.081912	\$0.050993	\$0.037228	\$0.034588
3 Common	\$0.058523	\$0.067212	\$0.039688	\$0.034159	\$0.031063	\$0.029226
24 Total Current Uniform Margin Melded Rate per	Therm \$0.218846	\$0.264619	\$0.121308	\$0.085799	\$0.068958	\$0.062877
			•	·		
25 Margin to Cost Ratio at Current Rates	1.00	0.95	1.29	1.27	1.52	1.68
25 Margin to Cost Ratio at Current Rates	1.00	0.95	•	1.27	1.52	1.6
Functional Cost Components at Proposed Rate	es	***	1.29			
Functional Cost Components at Proposed Rate 26 Production	es 36,007,890	27,456,689	1.29 6,963,859	1,269,647	314,340	3,35
Functional Cost Components at Proposed Rate 26 Production 27 Underground Storage	9 s 36,007,890 (60,260)	27,456,689 (80,574)	1.29 6,963,859 4,264	1,269,647 2,399	314,340 1,653	3,35; 11,99
Functional Cost Components at Proposed Rate 26 Production 27 Underground Storage 28 Distribution	es 36,007,890 (60,260) 14,249,882	27,456,689 (80,574) 11,993,804	6,963,859 4,264 1,685,697	1,269,647 2,399 192,920	314,340 1,653 51,559	3,35; 11,999 325,90;
Functional Cost Components at Proposed Rate 26 Production 27 Underground Storage 28 Distribution 29 Common	36,007,890 (60,260) 14,249,882 4,329,168	27,456,689 (80,574) 11,993,804 3,537,791	6,963,859 4,264 1,685,697 549,635	1,269,647 2,399 192,920 84,994	314,340 1,653 51,559 23,093	3,35; 11,99; 325,90; 133,65;
Functional Cost Components at Proposed Rate 26 Production 27 Underground Storage 28 Distribution 29 Common 30 Total Proposed Rate Revenue	36,007,890 (60,260) 14,249,882 4,329,168 54,526,680	27,456,689 (80,574) 11,993,804 3,537,791 42,907,711	6,963,859 4,264 1,685,697 549,635 9,203,455	1,269,647 2,399 192,920 84,994 1,549,960	314,340 1,653 51,559 23,093 390,645	3,35; 11,99; 325,90; 133,65; 474,9 0;
Functional Cost Components at Proposed Rate 26 Production 27 Underground Storage 28 Distribution 29 Common 30 Total Proposed Rate Revenue 31 Exclude Cost of Gas w / Revenue Exp.	36,007,890 (60,260) 14,249,882 4,329,168 54,526,680 35,847,060	27,456,689 (80,574) 11,993,804 3,537,791 42,907,711 27,336,792	1.29 6,963,859 4,264 1,685,697 549,635 9,203,455 6,933,450	1,269,647 2,399 192,920 84,994 1,549,960 1,264,103	314,340 1,653 51,559 23,093 390,645 312,715	3,353 11,999 325,902 133,655 474,90 9
Functional Cost Components at Proposed Rate 6 Production 7 Underground Storage 8 Distribution 9 Common 0 Total Proposed Rate Revenue 1 Exclude Cost of Gas w / Revenue Exp.	36,007,890 (60,260) 14,249,882 4,329,168 54,526,680	27,456,689 (80,574) 11,993,804 3,537,791 42,907,711	6,963,859 4,264 1,685,697 549,635 9,203,455	1,269,647 2,399 192,920 84,994 1,549,960	314,340 1,653 51,559 23,093 390,645	3,35 11,99 325,90 133,65 474,90
Functional Cost Components at Proposed Rate Production Tunderground Storage Distribution Common Total Proposed Rate Revenue Exclude Cost of Gas w / Revenue Exp. Total Margin Revenue at Proposed Rates Margin per Therm at Proposed Rates	36,007,890 (60,260) 14,249,882 4,329,168 54,526,680 35,847,060	27,456,689 (80,574) 11,993,804 3,537,791 42,907,711 27,336,792	1.29 6,963,859 4,264 1,685,697 549,635 9,203,455 6,933,450	1,269,647 2,399 192,920 84,994 1,549,960 1,264,103	314,340 1,653 51,559 23,093 390,645 312,715	3,35 11,99 325,90 133,65 474,90
Functional Cost Components at Proposed Rate Production Tolderground Storage Distribution Total Proposed Rate Revenue Exclude Cost of Gas w / Revenue Exp. Total Margin Revenue at Proposed Rates Margin per Therm at Proposed Rates Production	36,007,890 (60,260) 14,249,882 4,329,168 54,526,680 35,847,060 18,679,621	27,456,689 (80,574) 11,993,804 3,537,791 42,907,711 27,336,792 15,570,919	1.29 6,963,859 4,264 1,685,697 549,635 9,203,455 6,933,450 2,270,005	1,269,647 2,399 192,920 84,994 1,549,960 1,264,103 285,856	314,340 1,653 51,559 23,093 390,645 312,715 77,931	3,35: 11,99: 325,90: 133,65: 474,90: (474,90:
Functional Cost Components at Proposed Rate Production Underground Storage Bistribution Common Total Proposed Rate Revenue Exclude Cost of Gas w / Revenue Exp. Total Margin Revenue at Proposed Rates Margin per Therm at Proposed Rates Production Underground Storage	36,007,890 (60,260) 14,249,882 4,329,168 54,526,680 35,847,060 18,679,621 \$0.002260 (\$0.000847)	27,456,689 (80,574) 11,993,804 3,537,791 42,907,711 27,336,792 15,570,919 \$0.002352 (\$0.001581)	1.29 6,963,859 4,264 1,685,697 549,635 9,203,455 6,933,450 2,270,005	1,269,647 2,399 192,920 84,994 1,549,960 1,264,103 285,856 \$0.002352 \$0.001017	314,340 1,653 51,559 23,093 390,645 312,715 77,931 \$0.002352 \$0.002392	3,35; 11,99; 325,90; 133,65; 474,90; 474,90; \$0.00079;
Functional Cost Components at Proposed Rate Production Underground Storage Bistribution Common Total Proposed Rate Revenue Exclude Cost of Gas w / Revenue Exp. Total Margin Revenue at Proposed Rates Margin per Therm at Proposed Rates Production Underground Storage Distribution	36,007,890 (60,260) 14,249,882 4,329,168 54,526,680 35,847,060 18,679,621 \$0.002260 (\$0.000847) \$0.200264	27,456,689 (80,574) 11,993,804 3,537,791 42,907,711 27,336,792 15,570,919 \$0.002352 (\$0.001581) \$0.235274	1.29 6,963,859 4,264 1,685,697 549,635 9,203,455 6,933,450 2,270,005 \$0.002352 \$0.000330 \$0.130376	1,269,647 2,399 192,920 84,994 1,549,960 1,264,103 285,856 \$0.002352 \$0.001017 \$0.081839	314,340 1,653 51,559 23,093 390,645 312,715 77,931 \$0.002352 \$0.002392 \$0.074612	3,35: 11,99: 325,90: 133,65: 474,90: 474,90: \$0.00079: \$0.00285 \$0.07759
Functional Cost Components at Proposed Rate Production Tunderground Storage Bistribution Total Proposed Rate Revenue Exclude Cost of Gas w / Revenue Exp. Total Margin Revenue at Proposed Rates Margin per Therm at Proposed Rates Production Underground Storage Distribution Common	\$36,007,890 (60,260) 14,249,882 4,329,168 54,526,680 35,847,060 18,679,621 \$0.002260 (\$0.000847) \$0.200264 \$0.060841	27,456,689 (80,574) 11,993,804 3,537,791 42,907,711 27,336,792 15,570,919 \$0.002352 (\$0.001581) \$0.235274 \$0.069398	1.29 6,963,859 4,264 1,685,697 549,635 9,203,455 6,933,450 2,270,005 \$0.002352 \$0.000330 \$0.130376 \$0.042510	1,269,647 2,399 192,920 84,994 1,549,960 1,264,103 285,856 \$0.002352 \$0.001017 \$0.081839 \$0.036056	314,340 1,653 51,559 23,093 390,645 312,715 77,931 \$0.002352 \$0.002352 \$0.074612 \$0.033419	3,35: 11,99: 325,90: 133,65: 474,90: 474,90: \$0.0079: \$0.00285: \$0.07759: \$0.03182
Functional Cost Components at Proposed Rate Production Tunderground Storage Bistribution Total Proposed Rate Revenue Exclude Cost of Gas w / Revenue Exp. Total Margin Revenue at Proposed Rates Margin per Therm at Proposed Rates Production Underground Storage Distribution Common	\$36,007,890 (60,260) 14,249,882 4,329,168 54,526,680 35,847,060 18,679,621 \$0.002260 (\$0.000847) \$0.200264 \$0.060841	27,456,689 (80,574) 11,993,804 3,537,791 42,907,711 27,336,792 15,570,919 \$0.002352 (\$0.001581) \$0.235274	1.29 6,963,859 4,264 1,685,697 549,635 9,203,455 6,933,450 2,270,005 \$0.002352 \$0.000330 \$0.130376	1,269,647 2,399 192,920 84,994 1,549,960 1,264,103 285,856 \$0.002352 \$0.001017 \$0.081839	314,340 1,653 51,559 23,093 390,645 312,715 77,931 \$0.002352 \$0.002392 \$0.074612	3,35: 11,99: 325,90: 133,65: 474,90: 474,90: \$0.0079: \$0.00285: \$0.07759: \$0.03182
Functional Cost Components at Proposed Rate Production Tunderground Storage Bistribution Total Proposed Rate Revenue Exclude Cost of Gas w / Revenue Exp. Total Margin Revenue at Proposed Rates Margin per Therm at Proposed Rates Production Underground Storage Distribution Common	\$36,007,890 (60,260) 14,249,882 4,329,168 54,526,680 35,847,060 18,679,621 \$0.002260 (\$0.000847) \$0.200264 \$0.060841 \$0.262518	27,456,689 (80,574) 11,993,804 3,537,791 42,907,711 27,336,792 15,570,919 \$0.002352 (\$0.001581) \$0.235274 \$0.069398	1.29 6,963,859 4,264 1,685,697 549,635 9,203,455 6,933,450 2,270,005 \$0.002352 \$0.000330 \$0.130376 \$0.042510	1,269,647 2,399 192,920 84,994 1,549,960 1,264,103 285,856 \$0.002352 \$0.001017 \$0.081839 \$0.036056	314,340 1,653 51,559 23,093 390,645 312,715 77,931 \$0.002352 \$0.002352 \$0.074612 \$0.033419	3,35: 11,99: 325,90: 133,65: 474,90: 474,90: \$0.00079: \$0.00285: \$0.07759: \$0.03182
Functional Cost Components at Proposed Rate Production Underground Storage Bistribution Common Total Proposed Rate Revenue Exclude Cost of Gas w / Revenue Exp. Total Margin Revenue at Proposed Rates Margin per Therm at Proposed Rates Production Underground Storage Distribution Common Total Proposed Margin Melded Rate per Therm Functional Cost Components at Uniform Proposed	\$36,007,890 (60,260) 14,249,882 4,329,168 54,526,680 35,847,060 18,679,621 \$0.002260 (\$0.000847) \$0.200264 \$0.060841 \$0.262518	27,456,689 (80,574) 11,993,804 3,537,791 42,907,711 27,336,792 15,570,919 \$0.002352 (\$0.001581) \$0.235274 \$0.069398	1.29 6,963,859 4,264 1,685,697 549,635 9,203,455 6,933,450 2,270,005 \$0.002352 \$0.000330 \$0.130376 \$0.042510	1,269,647 2,399 192,920 84,994 1,549,960 1,264,103 285,856 \$0.002352 \$0.001017 \$0.081839 \$0.036056	314,340 1,653 51,559 23,093 390,645 312,715 77,931 \$0.002352 \$0.002352 \$0.074612 \$0.033419	3,35: 11,99: 325,90: 133,65: 474,90: 474,90: \$0.00079 \$0.00285 \$0.07759 \$0.03182
Functional Cost Components at Proposed Rate Production Underground Storage Bistribution Common Total Proposed Rate Revenue Exclude Cost of Gas w / Revenue Exp. Total Margin Revenue at Proposed Rates Margin per Therm at Proposed Rates Underground Storage Distribution Common Total Proposed Margin Melded Rate per Therm Functional Cost Components at Uniform Proposed Production	\$36,007,890 (60,260) 14,249,882 4,329,168 54,526,680 35,847,060 18,679,621 \$0.002260 (\$0.000847) \$0.200264 \$0.060841 \$0.262518	27,456,689 (80,574) 11,993,804 3,537,791 42,907,711 27,336,792 15,570,919 \$0.002352 (\$0.001581) \$0.235274 \$0.069398 \$0.305444	1.29 6,963,859 4,264 1,685,697 549,635 9,203,455 6,933,450 2,270,005 \$0.002352 \$0.000330 \$0.130376 \$0.042510 \$0.175568	1,269,647 2,399 192,920 84,994 1,549,960 1,264,103 285,856 \$0.002352 \$0.001017 \$0.081839 \$0.036056 \$0.121264	314,340 1,653 51,559 23,093 390,645 312,715 77,931 \$0.002352 \$0.002392 \$0.074612 \$0.033419 \$0.112775	3,35: 11,99: 325,90: 133,65: 474,90: 474,90: \$0.0079: \$0.00285 \$0.07759 \$0.03182: \$0.11307:
Functional Cost Components at Proposed Rate Production Underground Storage Bistribution Common Total Proposed Rate Revenue Exclude Cost of Gas w / Revenue Exp. Total Margin Revenue at Proposed Rates Margin per Therm at Proposed Rates Margin per Therm at Proposed Rates Underground Storage Storage Total Proposed Margin Melded Rate per Therm Total Proposed Margin Melded Rate per Therm Functional Cost Components at Uniform Propose Production Underground Storage Underground Storage Underground Storage	\$36,007,890 (60,260) 14,249,882 4,329,168 54,526,680 35,847,060 18,679,621 \$0.002260 (\$0.000847) \$0.200264 \$0.060841 \$0.262518	27,456,689 (80,574) 11,993,804 3,537,791 42,907,711 27,336,792 15,570,919 \$0.002352 (\$0.001581) \$0.235274 \$0.069398 \$0.305444	1.29 6,963,859 4,264 1,685,697 549,635 9,203,455 6,933,450 2,270,005 \$0.002352 \$0.000330 \$0.130376 \$0.042510 \$0.175568	1,269,647 2,399 192,920 84,994 1,549,960 1,264,103 285,856 \$0.002352 \$0.001017 \$0.081839 \$0.036056 \$0.121264	314,340 1,653 51,559 23,093 390,645 312,715 77,931 \$0.002352 \$0.002392 \$0.074612 \$0.033419 \$0.112775	3,35: 11,99: 325,90: 133,65: 474,90: 474,90: \$0.0079: \$0.00285: \$0.07759: \$0.03182: \$0.11307:
Functional Cost Components at Proposed Rate Production Underground Storage Bistribution Common Total Proposed Rate Revenue Exclude Cost of Gas w / Revenue Exp. Total Margin Revenue at Proposed Rates Margin per Therm at Proposed Rates Margin per Therm at Proposed Rates Underground Storage Storage Total Proposed Margin Melded Rate per Therm Functional Cost Components at Uniform Propose Production Underground Storage Underground Storage Underground Storage	\$36,007,890 (60,260) 14,249,882 4,329,168 54,526,680 35,847,060 18,679,621 \$0.002260 (\$0.000847) \$0.200264 \$0.060841 \$0.262518	27,456,689 (80,574) 11,993,804 3,537,791 42,907,711 27,336,792 15,570,919 \$0.002352 (\$0.001581) \$0.235274 \$0.069398 \$0.305444 27,456,793 (61,591)	1.29 6,963,859	1,269,647 2,399 192,920 84,994 1,549,960 1,264,103 285,856 \$0.002352 \$0.001017 \$0.081839 \$0.036056 \$0.121264 1,269,646 (1,317)	314,340 1,653 51,559 23,093 390,645 312,715 77,931 \$0.002352 \$0.002392 \$0.074612 \$0.033419 \$0.112775	3,35: 11,99: 325,90: 133,65: 474,90: 474,90: \$0.00079: \$0.00285: \$0.07759 \$0.03182: \$0.11307.
Functional Cost Components at Proposed Rate Production Underground Storage Bistribution Common Total Proposed Rate Revenue Exclude Cost of Gas w / Revenue Exp. Total Margin Revenue at Proposed Rates Margin per Therm at Proposed Rates Area Service of Gas w / Revenue Exp. Total Margin Revenue at Proposed Rates Margin per Therm at Proposed Rates Distribution Common Total Proposed Margin Melded Rate per Therm Functional Cost Components at Uniform Propose Production Underground Storage Distribution Distribution Total Uniform Proposed Cost	\$36,007,890 (60,260) 14,249,882 4,329,168 54,526,680 35,847,060 18,679,621 \$0.002260 (\$0.000847) \$0.200264 \$0.060841 \$0.262518 \$36,007,992 (79,636) 14,268,359	27,456,689 (80,574) 11,993,804 3,537,791 42,907,711 27,336,792 15,570,919 \$0.002352 (\$0.001581) \$0.235274 \$0.069398 \$0.305444 27,456,793 (61,591) 12,500,995	1.29 6,963,859	1,269,647 2,399 192,920 84,994 1,549,960 1,264,103 285,856 \$0.002352 \$0.001017 \$0.081839 \$0.036056 \$0.121264 1,269,646 (1,317) 150,814	314,340 1,653 51,559 23,093 390,645 312,715 77,931 \$0.002352 \$0.002392 \$0.074612 \$0.033419 \$0.112775	3,35; 11,99; 325,90; 133,65; 474,90; 474,90; \$0.0079; \$0.00285; \$0.07759; \$0.03182; \$0.11307; 3,355; (2,85; 186,82; 125,25;
Functional Cost Components at Proposed Rate Production Underground Storage Bistribution Common Total Proposed Rate Revenue Exclude Cost of Gas w / Revenue Exp. Total Margin Revenue at Proposed Rates Margin per Therm at Proposed Rates Underground Storage Distribution Common Total Proposed Margin Melded Rate per Therm Functional Cost Components at Uniform Proposed Production Underground Storage Distribution Exclude Cost of Gas w / Revenue Exp.	\$36,007,890 (60,260) 14,249,882 4,329,168 54,526,680 35,847,060 18,679,621 \$0.002260 (\$0.000847) \$0.200264 \$0.060841 \$0.262518 \$0.864 Return 36,007,992 (79,636) 14,268,359 4,329,965 54,526,680 35,847,161	27,456,689 (80,574) 11,993,804 3,537,791 42,907,711 27,336,792 15,570,919 \$0.002352 (\$0.001581) \$0.235274 \$0.069398 \$0.305444 27,456,793 (61,591) 12,500,995 3,567,578 43,463,775 27,336,895	1.29 6,963,859	1,269,647 2,399 192,920 84,994 1,549,960 1,264,103 285,856 \$0.002352 \$0.001017 \$0.081839 \$0.036056 \$0.121264 1,269,646 (1,317) 150,814 82,405 1,501,549 1,264,102	314,340 1,653 51,559 23,093 390,645 312,715 77,931 \$0.002352 \$0.002392 \$0.074612 \$0.033419 \$0.112775 314,340 (452) 32,260 21,877 368,025 312,714	3,35: 11,99: 325,90: 133,65: 474,90: 474,90: \$0.0079: \$0.0285 \$0.07759 \$0.03182: \$0.11307: 3,35 (2,85 186,82 125,25 312,58
Functional Cost Components at Proposed Rate 6 Production 7 Underground Storage 8 Distribution 9 Common 1 Total Proposed Rate Revenue 1 Exclude Cost of Gas w / Revenue Exp. 2 Total Margin Revenue at Proposed Rates Margin per Therm at Proposed Rates 13 Production 14 Underground Storage 15 Distribution 16 Common 17 Total Proposed Margin Melded Rate per Therm 18 Functional Cost Components at Uniform Proposed 19 Underground Storage 10 Distribution 10 Underground Storage 11 Distribution 12 Total Uniform Proposed Cost 13 Exclude Cost of Gas w / Revenue Exp.	\$36,007,890 (60,260) 14,249,882 4,329,168 54,526,680 35,847,060 18,679,621 \$0.002260 (\$0.000847) \$0.200264 \$0.060841 \$0.262518 0sed Return 36,007,992 (79,636) 14,268,359 4,329,965 54,526,680	27,456,689 (80,574) 11,993,804 3,537,791 42,907,711 27,336,792 15,570,919 \$0.002352 (\$0.001581) \$0.235274 \$0.069398 \$0.305444 27,456,793 (61,591) 12,500,995 3,567,578 43,463,775	1.29 6,963,859 4,264 1,685,697 549,635 9,203,455 6,933,450 2,270,005 \$0.002352 \$0.000330 \$0.130376 \$0.042510 \$0.175568 6,963,860 (13,425) 1,397,466 532,850 8,880,751	1,269,647 2,399 192,920 84,994 1,549,960 1,264,103 285,856 \$0.002352 \$0.001017 \$0.081839 \$0.036056 \$0.121264 1,269,646 (1,317) 150,814 82,405 1,501,549	314,340 1,653 51,559 23,093 390,645 312,715 77,931 \$0.002352 \$0.002392 \$0.074612 \$0.033419 \$0.112775 314,340 (452) 32,260 21,877 368,025	3,35: 11,99: 325,90: 133,65: 474,90: 474,90: \$0.0079 \$0.00285 \$0.07759 \$0.03182 \$0.11307 3,35 (2,85: 186,82 125,25 312,58
Functional Cost Components at Proposed Rate Production Underground Storage Bistribution Common Total Proposed Rate Revenue Exclude Cost of Gas w / Revenue Exp. Total Margin Revenue at Proposed Rates Margin per Therm at Proposed Rates Underground Storage Distribution Common Total Proposed Margin Melded Rate per Therm Functional Cost Components at Uniform Proposed Production Underground Storage Underground Storage Underground Storage Distribution Functional Cost Components at Uniform Proposed Froduction Underground Storage Distribution Common Total Uniform Proposed Cost Exclude Cost of Gas w / Revenue Exp.	\$36,007,890 (60,260) 14,249,882 4,329,168 54,526,680 35,847,060 18,679,621 \$0.002260 (\$0.000847) \$0.200264 \$0.060841 \$0.262518 \$0.864 Return 36,007,992 (79,636) 14,268,359 4,329,965 54,526,680 35,847,161	27,456,689 (80,574) 11,993,804 3,537,791 42,907,711 27,336,792 15,570,919 \$0.002352 (\$0.001581) \$0.235274 \$0.069398 \$0.305444 27,456,793 (61,591) 12,500,995 3,567,578 43,463,775 27,336,895	1.29 6,963,859	1,269,647 2,399 192,920 84,994 1,549,960 1,264,103 285,856 \$0.002352 \$0.001017 \$0.081839 \$0.036056 \$0.121264 1,269,646 (1,317) 150,814 82,405 1,501,549 1,264,102	314,340 1,653 51,559 23,093 390,645 312,715 77,931 \$0.002352 \$0.002392 \$0.074612 \$0.033419 \$0.112775 314,340 (452) 32,260 21,877 368,025 312,714	3,35 11,99 325,90 133,65 474,90 474,90 \$0.00079 \$0.00285 \$0.07759 \$0.03182 \$0.11307 3,35 (2,85 186,82 125,25 312,58
Functional Cost Components at Proposed Rate Production Underground Storage Bistribution Common Total Proposed Rate Revenue Exclude Cost of Gas w / Revenue Exp. Total Margin Revenue at Proposed Rates Margin per Therm at Proposed Rates Jeroduction Underground Storage Distribution Total Proposed Margin Melded Rate per Therm Functional Cost Components at Uniform Proposed Production Underground Storage Distribution Common Total Uniform Proposed Cost Common Total Uniform Proposed Cost Exclude Cost of Gas w / Revenue Exp. Total Uniform Proposed Margin Margin per Therm at Uniform Proposed Return	\$36,007,890 (60,260) 14,249,882 4,329,168 54,526,680 35,847,060 18,679,621 \$0.002260 (\$0.000847) \$0.200264 \$0.060841 \$0.262518 \$0.864 Return 36,007,992 (79,636) 14,268,359 4,329,965 54,526,680 35,847,161	27,456,689 (80,574) 11,993,804 3,537,791 42,907,711 27,336,792 15,570,919 \$0.002352 (\$0.001581) \$0.235274 \$0.069398 \$0.305444 27,456,793 (61,591) 12,500,995 3,567,578 43,463,775 27,336,895	1.29 6,963,859	1,269,647 2,399 192,920 84,994 1,549,960 1,264,103 285,856 \$0.002352 \$0.001017 \$0.081839 \$0.036056 \$0.121264 1,269,646 (1,317) 150,814 82,405 1,501,549 1,264,102	314,340 1,653 51,559 23,093 390,645 312,715 77,931 \$0.002352 \$0.002392 \$0.074612 \$0.033419 \$0.112775 314,340 (452) 32,260 21,877 368,025 312,714	3,35 11,99 325,90 133,65 474,90 474,90 \$0.0079 \$0.00285 \$0.07759 \$0.03182 \$0.11307 3,35 (2,85 186,82 125,25 312,58
Functional Cost Components at Proposed Rate Production Underground Storage Bistribution Common Total Proposed Rate Revenue Exclude Cost of Gas w / Revenue Exp. Total Margin Revenue at Proposed Rates Margin per Therm at Proposed Rates Underground Storage Distribution Common Total Proposed Margin Melded Rate per Therm Functional Cost Components at Uniform Proposed Production Underground Storage Distribution Common Total Proposed Margin Melded Rate per Therm Functional Cost Components at Uniform Proposed Exclude Cost of Gas w / Revenue Exp. Total Uniform Proposed Margin Margin per Therm at Uniform Proposed Return Margin per Therm at Uniform Proposed Return Production	\$36,007,890 (60,260) 14,249,882 4,329,168 54,526,680 35,847,060 18,679,621 \$0.002260 (\$0.000847) \$0.200264 \$0.060841 \$0.262518 \$0.862518 \$0.864 Return 36,007,992 (79,636) 14,268,359 4,329,965 54,526,680 35,847,161 18,679,519 \$0.002260	27,456,689 (80,574) 11,993,804 3,537,791 42,907,711 27,336,792 15,570,919 \$0.002352 (\$0.001581) \$0.235274 \$0.069398 \$0.305444 27,456,793 (61,591) 12,500,995 3,567,578 43,463,775 27,336,895 16,126,880 \$0.002352	1.29 6,963,859	1,269,647 2,399 192,920 84,994 1,549,960 1,264,103 285,856 \$0.002352 \$0.001017 \$0.081839 \$0.036056 \$0.121264 1,269,646 (1,317) 150,814 82,405 1,501,549 1,264,102 237,447	314,340 1,653 51,559 23,093 390,645 312,715 77,931 \$0.002352 \$0.002392 \$0.074612 \$0.033419 \$0.112775 314,340 (452) 32,260 21,877 368,025 312,714 55,311	3,35 11,99 325,90 133,65 474,90 474,90 \$0.00079 \$0.00285 \$0.07759 \$0.03182 \$0.11307 3,35 (2,85 186,82 125,25 312,58 \$0.00079
Functional Cost Components at Proposed Rate Production Underground Storage Bistribution Common Total Proposed Rate Revenue Exclude Cost of Gas w / Revenue Exp. Total Margin Revenue at Proposed Rates Margin per Therm at Proposed Rates Underground Storage Distribution Common Total Proposed Margin Melded Rate per Therm Functional Cost Components at Uniform Proposed Underground Storage Underground Storage Underground Storage Exclude Cost of Gas w / Revenue Exp. Total Uniform Proposed Cost Exclude Cost of Gas w / Revenue Exp. Total Uniform Proposed Margin Margin per Therm at Uniform Proposed Return Production Underground Storage	\$36,007,890 (60,260) 14,249,882 4,329,168 54,526,680 35,847,060 18,679,621 \$0.002260 (\$0.000847) \$0.200264 \$0.060841 \$0.262518 \$0.864 Return 36,007,992 (79,636) 14,268,359 4,329,965 54,526,680 35,847,161 18,679,519 \$0.002260 (\$0.001119)	27,456,689 (80,574) 11,993,804 3,537,791 42,907,711 27,336,792 15,570,919 \$0.002352 (\$0.001581) \$0.235274 \$0.069398 \$0.305444 27,456,793 (61,591) 12,500,995 3,567,578 43,463,775 27,336,895 16,126,880 \$0.002352 (\$0.001208)	1.29 6,963,859	1,269,647 2,399 192,920 84,994 1,549,960 1,264,103 285,856 \$0.002352 \$0.001017 \$0.081839 \$0.036056 \$0.121264 1,269,646 (1,317) 150,814 82,405 1,501,549 1,264,102 237,447	314,340 1,653 51,559 23,093 390,645 312,715 77,931 \$0.002352 \$0.002392 \$0.074612 \$0.033419 \$0.112775 314,340 (452) 32,260 21,877 368,025 312,714 55,311 \$0.002352 (\$0.000654)	3,35 11,99 325,90 133,65 474,90 474,90 \$0.00079 \$0.00285 \$0.07759 \$0.03182 \$0.11307 3,35 (2,85 186,82 125,25 312,58 \$0.00078 (\$0.00078 (\$0.00067
Functional Cost Components at Proposed Rate Production Underground Storage Distribution Common Total Proposed Rate Revenue Exclude Cost of Gas w / Revenue Exp. Total Margin Revenue at Proposed Rates Margin per Therm at Proposed Rates Margin per Therm at Proposed Rates Underground Storage Stribution Total Proposed Margin Melded Rate per Therm Functional Cost Components at Uniform Proposed Production Underground Storage Distribution Common Total Uniform Proposed Cost Exclude Cost of Gas w / Revenue Exp. Total Uniform Proposed Margin Margin per Therm at Uniform Proposed Return Production Margin per Therm at Uniform Proposed Return Production Underground Storage Underground Storage Underground Storage Underground Storage Underground Storage Underground Storage	\$36,007,890 (60,260) 14,249,882 4,329,168 54,526,680 35,847,060 18,679,621 \$0.002260 (\$0.000847) \$0.200264 \$0.060841 \$0.262518 \$0.862518 \$0.864 Return 36,007,992 (79,636) 14,268,359 4,329,965 54,526,680 35,847,161 18,679,519 \$0.002260	27,456,689 (80,574) 11,993,804 3,537,791 42,907,711 27,336,792 15,570,919 \$0.002352 (\$0.001581) \$0.235274 \$0.069398 \$0.305444 27,456,793 (61,591) 12,500,995 3,567,578 43,463,775 27,336,895 16,126,880 \$0.002352	1.29 6,963,859	1,269,647 2,399 192,920 84,994 1,549,960 1,264,103 285,856 \$0.002352 \$0.001017 \$0.081839 \$0.036056 \$0.121264 1,269,646 (1,317) 150,814 82,405 1,501,549 1,264,102 237,447 \$0.002352 (\$0.000559) \$0.063978	314,340 1,653 51,559 23,093 390,645 312,715 77,931 \$0.002352 \$0.002392 \$0.074612 \$0.033419 \$0.112775 314,340 (452) 32,260 21,877 368,025 312,714 55,311	3,35; 11,99; 325,90; 133,65; 474,90; 474,90; \$0.00079; \$0.03182; \$0.11307; 3,35; (2,85; 186,82; 125,25; 312,58; \$0.00079; (\$0.00067; \$0.00448;
Functional Cost Components at Proposed Rate Production Tunderground Storage Bistribution Common Total Proposed Rate Revenue Exclude Cost of Gas w / Revenue Exp. Total Margin Revenue at Proposed Rates Margin per Therm at Proposed Rates Inderground Storage Distribution Total Proposed Margin Melded Rate per Therm Functional Cost Components at Uniform Proposed Production Common Total Uniform Proposed Cost Exclude Cost of Gas w / Revenue Exp. Total Uniform Proposed Cost Exclude Cost of Gas w / Revenue Exp. Total Uniform Proposed Margin Margin per Therm at Uniform Proposed Return Production Underground Storage Distribution Underground Storage Distribution Common	\$36,007,890 (60,260) 14,249,882 4,329,168 54,526,680 35,847,060 18,679,621 \$0.002260 (\$0.000847) \$0.200264 \$0.060841 \$0.262518 \$0.862518	27,456,689 (80,574) 11,993,804 3,537,791 42,907,711 27,336,792 15,570,919 \$0.002352 (\$0.001581) \$0.235274 \$0.069398 \$0.305444 27,456,793 (61,591) 12,500,995 3,567,578 43,463,775 27,336,895 16,126,880 \$0.002352 (\$0.001208) \$0.245224	1.29 6,963,859	1,269,647 2,399 192,920 84,994 1,549,960 1,264,103 285,856 \$0.002352 \$0.001017 \$0.081839 \$0.036056 \$0.121264 1,269,646 (1,317) 150,814 82,405 1,501,549 1,264,102 237,447 \$0.002352 (\$0.000559)	314,340 1,653 51,559 23,093 390,645 312,715 77,931 \$0.002352 \$0.002392 \$0.074612 \$0.033419 \$0.112775 314,340 (452) 32,260 21,877 368,025 312,714 55,311 \$0.002352 (\$0.000654) \$0.046684	3,35: 11,99: 325,90: 133,65: 474,90: 474,90: \$0.0079: \$0.00285 \$0.07759 \$0.03182: \$0.11307. 3,35 (2,85 186,82 125,25 312,58 \$0.00079 (\$0.00067 \$0.0448 \$0.02982
Functional Cost Components at Proposed Rate 26 Production 27 Underground Storage 28 Distribution 29 Common 30 Total Proposed Rate Revenue 31 Exclude Cost of Gas w / Revenue Exp. 32 Total Margin Revenue at Proposed Rates Margin per Therm at Proposed Rates 33 Production 34 Underground Storage 35 Distribution 36 Common 37 Total Proposed Margin Melded Rate per Therm Functional Cost Components at Uniform Proposed 38 Production 39 Underground Storage 40 Distribution 41 Common 42 Total Uniform Proposed Cost 43 Exclude Cost of Gas w / Revenue Exp. 44 Total Uniform Proposed Margin Margin per Therm at Uniform Proposed Return 45 Production 46 Underground Storage 47 Distribution 48 Common	\$36,007,890 (60,260) 14,249,882 4,329,168 54,526,680 35,847,060 18,679,621 \$0.002260 (\$0.000847) \$0.200264 \$0.060841 \$0.262518 \$0.862518	27,456,689 (80,574) 11,993,804 3,537,791 27,336,792 15,570,919 \$0.002352 (\$0.001581) \$0.235274 \$0.069398 \$0.305444 27,456,793 (61,591) 12,500,995 3,567,578 43,463,775 27,336,895 16,126,880 \$0.002352 (\$0.001208) \$0.245224 \$0.069983 \$0.316350	1.29 6,963,859 4,264 1,685,697 549,635 9,203,455 6,933,450 2,270,005 \$0.002352 \$0.000330 \$0.130376 \$0.042510 \$0.175568 6,963,860 (13,425) 1,397,466 532,850 8,880,751 6,933,450 1,947,301 \$0.002352 (\$0.001038) \$0.108083 \$0.108083	1,269,647 2,399 192,920 84,994 1,549,960 1,264,103 285,856 \$0.002352 \$0.001017 \$0.081839 \$0.036056 \$0.121264 1,269,646 (1,317) 150,814 82,405 1,501,549 1,264,102 237,447 \$0.002352 (\$0.000559) \$0.063978 \$0.034957	314,340 1,653 51,559 23,093 390,645 312,715 77,931 \$0.002352 \$0.002392 \$0.074612 \$0.033419 \$0.112775 314,340 (452) 32,260 21,877 368,025 312,714 55,311 \$0.002352 (\$0.000654) \$0.046684 \$0.031659	\$3,353 11,999 325,902 133,655 474,909 \$0.000798 \$0.002857 \$0.077598 \$0.031824 \$0.113078 3,353 (2,852 186,824 125,256 312,587 \$0.000798 (\$0.0006798 \$0.0006798 \$0.004448 \$0.029824 \$0.074427

Exhibit No. 137 Case No. AVU-E-04-1/ AVU-G-04-1 M. Fuss, Staff 6/21/04 Page 4 of 5 Sumcost Company Base Case WA Accepted Methodology AVISTA UTILITIES AS ADJUSTED BY PUC STAFF Summary by Classification with Unit Cost Analysis For The Twelve Months Ended December 31, 2002

Natural Gas Utility Idaho Jurisdiction

6/18/04 4:37 PM

Revenue per Therm at Current Rates 5 Commodity	-						
Description	(b) (c		Residential	Small Firm	Large Firm		Transport
Control Cont	Description						
Commodity S426,833 26,984,445 7,008,647 1,195,444 358,422 237,433 3 Customer 8,450,440 8,500,440 8,300,267 7,1762,268 269,550 14,202 134,131 3 Customer 8,404,185 7,117,171 277,676 70,930 18,286 68,328 486,167 7,176,171 7,176,268 269,550 14,202 34,131 3,000 27,000 2	Cost by Classification at Current Between by Sale						
2 Demand 8,580,440 6,390,267 1,782,288 7,989 14,220 13,126 6,633 3 Outstorner 1,782,288 7,885,781 1,782,288 1,782,288 1,885,281 4,885,181 4,885,			26 500 445	7 000 647	1 10E 111	256 422	267 604
3 Customer							
4 Total Current Rate Revenue Revenue part Therm at Current Rates 5 Commodity 6 Demand 7 Substitution 8 Substit							
5 Commodity 80 A97875 80 52/1754 80 52/1764 80 5082735 80 52/1764 80 508275 80 5082735 80 5082785 80 5082785 80 5082785 80 5082785 80 5082785 80 5082785 80 5082785 80 5082785 80 5082785 80 5082785 80 5082785 80 5082785 80 5082785 80 5082785 80 5082785 80 5015784 80 5082785 80 5015784 80 50157							468,161
5 Commodidy 80 Ad7875 80 52/1794 80 52/1794 80 52/1794 80 50/2705 80 50/2	Revenue per Therm at Current Rates						
7. Quistomer \$0.113121 \$0.149419 \$0.021300 \$0.00000 \$0.056502 \$0.015704 \$0.015704 \$0.079553 \$0.079553 \$0.071500 \$0.056500 \$0.056522 \$0.015704 \$0.079553 \$0.079553 \$0.071500 \$0.056500 \$0.056522 \$0.015704 \$0.0	5 Commodity	\$0.497875	\$0.521764	\$0.542065	\$0.507123	\$0.515784	\$0.063739
8 Total Revenue per Therm at Current Rates Ocast per Unit at Current Rates Ocast per Customer per Month S112 S107 S21.24 S20.92 S16.27 S50.10 S780.68 S0.57173 S176.10 S780.69 Coast per Customer per Month S122 S00.91 S00.918 S00.920 S00.9		\$0.120727	\$0.125354	\$0.137845	\$0.114347	\$0.020578	\$0.031938
Cost per Unit at Current Rates 9 0 Commodity Cost per Planet 9 0 Commodity Cost per Planet 9 0 Commodity String 9 0 Commodity 1 0 Cost per Customer per Morth 1 1,178,088 1 2,107 1 2,124 1 30,927 1 35,91,99 1 37,91,91 1 3,288,182 1 0 Cost by Classification at Uniform Current Return 2 Commodity 3 0 Commodity 3 0 Cost per Customer per Morth 1 8,496,200 1 0 Cost by Classification at Uniform Current Return 2 Commodity 3 0 Cost per Therm at Current Return 5 0 Cost per Therm at Current Return 6 0 Commodity 9 0 0 6,556,207 1 0 Cost per Therm at Current Return 1 0 Commodity 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						\$0.026462	\$0.015794
9 Commodity Cost per Therm	8 Total Revenue per Therm at Current Rates	\$0.731724	\$0.796536	\$0.701300	\$0.651560	\$0.562824	\$0.111471
O Demand Cost per Peak Day Therms		A 0.40 7 0 7 5					
Customer Cost per Customer per Month		•				•	
Cost by Classification at Uniform Current Return 2 Commodity 3		·					
2 Commodity 33,281,826 26,788,312 6,787,102 1,173,888 343,750 178,763 30 Demand 8,486,220 6,585,267 1,592,513 246,857 7,317 64,33 4 Customer 62,086,278 41,39,277 8,614,195 1,480,507 384,196 288,100 288,10	Customer Cost per Customer per Month	\$11.42	\$10.91	\$40.27	\$591.09	\$761.90	\$789.6
3 Demand 4 Customer			00 700 010				
4 Customer Storal Uniform Current Cost 5 (26,278 41,319,277 8,614,195 1,480,507 364,196 288,10 Cost per Therm at Current Return 5 (26,6278 41,319,277 8,614,195 1,480,507 364,196 288,10 Cost per Therm at Current Return 5 (26,6278 41,319,277 8,614,195 1,480,507 364,196 288,10 Cost per Therm at Current Return 5 (26,6278 8) (26,6278							
5 Total Uniform Current Cost Cost per Therm at Current Return 6 Commodity S 0.495840 \$0.525684 \$0.524931 \$0.497984 \$0.49746 \$0.04256 7 Demand \$0.114940 \$0.129179 \$0.125189 \$0.104720 \$0.010588 \$0.01537 8 Customer \$0.114940 \$0.129179 \$0.125189 \$0.104720 \$0.010588 \$0.01537 9 Total Cost per Therm at Current Return S 0.731724 \$0.810532 \$0.0866242 \$0.628051 \$0.527033 \$0.06856 Cost per Unit at Uniform Current Return S 0.495840 \$0.525684 \$0.524931 \$0.49784 \$0.497846 \$0.04256 To Cost per Unit at Uniform Current Return S 0.495840 \$0.525684 \$0.524931 \$0.49784 \$0.49746 \$0.40256 To Commodity Cost per Therm S 0.495840 \$0.525684 \$0.524931 \$0.49784 \$0.49746 \$0.40256 To Commodity Cost per Therm \$2.0845 \$21.89 \$24.05 \$14.90 \$2.98 \$2.29 To Cost per Unit at Uniform Current Return C Commodity Cost per Customer per Month \$11.75 \$11.37 \$34.16 \$497.93 \$547.02 \$583.57 3 Revenue to Cost Ratio at Current Rates 1.00 0.98 1.05 \$49.93 \$49.93 \$47.02 \$583.57 3 Revenue to Cost Ratio at Current Rates 1.00 0.98 1.05 \$49.93 \$49.93 \$47.02 \$83.55 To Cost by Classification at Proposed Return by Schedule 4 Commodity \$0.58690 \$27.380,243 7.130,111 \$1.206,415 \$359.276 \$28.291 Total Proposed Rate Revenue 5 5.173,562 \$43.399,752 \$9.316,142 \$1.564,188 \$394,503 \$498,97 Revenue per Therm at Proposed Rates 8 Commodity \$0.5878 \$0.537100 \$0.551460 \$0.511778 \$0.02832 \$0.03478 C Oustomer \$0.133279 \$0.140338 \$0.045900 \$0.0117261 \$0.022832 \$0.03478 C Oustomer \$0.510978 \$0.053713 \$0.032511 \$0.028145 \$0.01666 Cost per Unit at Proposed Rates Cost per Unit at Proposed Return \$0.510978 \$0.537100 \$0.551400 \$0.511778 \$0.028145 \$0.01666 Total Revenue per Therm at Proposed Rates Cost per Unit at Proposed Return \$0.510978 \$0.140338 \$0.045900 \$0.023173 \$0.032511 \$0.028145 \$0.01666 Total Revenue per Therm at Proposed Return \$0.510978 \$0.537100 \$0.551400 \$0.551778 \$0.028145 \$0.01666 Total Cost per Charm \$0.500978 \$0.028145 \$0.0500978 \$0.028145 \$0.009788 \$0.028145 \$0.01666 \$0.02814 \$0.028145 \$0.01666 \$0.028145 \$0.028145 \$0.01666 \$0.028145 \$0							
Cost per Therm at Current Return 6 Commodity 7 Demand 8 Outstomer 9 Total Cost per Therm at Current Return 9 Total Cost per Therm at Current Return 1 Cost per Unit at Uniform Current Return 2 Cost per Unit at Uniform Current Return 2 Cost per Unit at Uniform Current Return 3 Cost per Unit at Uniform Current Return 3 Cost per Unit at Uniform Current Return 4 Cost per Unit at Uniform Current Return 5 Cost per Unit at Uniform Current Return 5 Cost per Unit at Uniform Current Return 6 Commodity Cost per Therm 7 So.495840 8 Cost per Unit at Uniform Current Return 9 Cost per Unit at Uniform Current Return by Schedule 4 Cost per Unit at Uniform Current Return by Schedule 4 Cost per Unit at Current Return by Schedule 4 Cost per Unit at Uniform Proposed Return by Schedule 4 Cost per Unit at Proposed Rete Revenue 9 Cost per Unit at Proposed Rate Revenue 9 Cost per Unit at Proposed Return 9 Cost per Unit at Uniform Proposed Return							
6 Commodity 7 Demand 8 Outstand 8		32,033,270	11,010,271	0,014,100	1,400,007	004,100	200,10
7 Demand Scutstomer \$0.119404 \$0.129179 \$0.129169 \$0.104720 \$0.010588 \$0.01698 \$0.01698 \$0.01698 \$0.01698 \$0.01698 \$0.01698 \$0.01698 \$0.01698 \$0.01698 \$0.01698 \$0.01698 \$0.01698 \$0.01698 \$0.01698 \$0.01698 \$0.016998		\$0.495840	\$0.525684	\$0.524024	\$0.40708 <i>4</i>	\$0.40744E	\$0.04256
8 Customer \$0.116479 \$0.1556869 \$0.018143 \$0.025348 \$0.018988 \$0.01073 \$0.025140 \$0.02							
9 Total Cost per Therm at Current Return Cost per Unit at Uniform Current Return \$0.495840 \$0.525884 \$0.524931 \$0.497846 \$0.497466 \$0.04256 \$0.69807 \$0.497466		· · · · · · · · · · · · · · · · · · ·			•		•
O Commodity Cost per Therm \$0.495840 \$0.525684 \$0.524931 \$0.497984 \$0.497468 \$20.4256 1 Demand Cost per Peak Day Therms \$20.88 \$21.89 \$24.05 \$14.90 \$2.98 \$2.98 \$2.98 \$2.98 \$2.98 \$2.98 \$2.98 \$2.98 \$2.98 \$2.98 \$2.98 \$2.98 \$2.98 \$2.98 \$2.98 \$3.41.05 \$41.90 \$4.90 \$4.91.35 \$1.04 \$1.07 \$4.00 \$3.98 \$2.91 \$4.91.25 \$4.91.25 \$4.92.91 \$	Total Cost per Therm at Current Return						
1 Demand Cost per Peak Day Therms \$20.84 \$21.89 \$24.05 \$14.90 \$2.08 \$32.05 \$35.77 \$34.16 \$497.93 \$547.02 \$35.57.73 \$34.16 \$497.93 \$547.02 \$35.57.73 \$34.16 \$497.93 \$547.02 \$35.57.73 \$34.16 \$497.93 \$547.02 \$35.57.73 \$34.16 \$497.93 \$547.02 \$35.57.73 \$34.16 \$497.93 \$547.02 \$35.57.73 \$34.16 \$497.93 \$547.02 \$35.57.73 \$34.16 \$497.93 \$547.02 \$35.57.73 \$34.16 \$497.93 \$34.16 \$497.93 \$34.16 \$3497.93 \$34.16 \$3497.93 \$34.10 \$3497.93 \$349							
2 Customer Cost per Customer per Month \$11.75 \$11.37 \$34.16 \$497.93 \$547.02 \$8585.7 3 Revenue to Cost Ratio at Current Rates 1.00 0.98 1.05 1.04 1.07 1.0 Cost by Classification at Proposed Return by Schedule 4 Commodity 36.358.960 27,380.243 7,130.111 1.206.415 359.276 282.91 50 Emand 9,483.541 7,154.132 1,886.416 281.135 15,778 146.08 6 Customer 9,331.061 8,865.377 299.615 76,639 19,449 69.98 7 Total Proposed Rate Revenue 55,173.562 43,399.752 9,316,142 1,564.188 394,503 498.97 Total Proposed Rate Revenue 9					\$0.497984	\$0.497446	\$0.04256
Cost by Classification at Proposed Return by Schedule Cost by Classification at Proposed Return by Schedule Commodity 36,358,960 27,380,243 7,130,111 1,206,415 359,276 282,91 20,200		•					
Cost by Classification at Proposed Return by Schedule 4 Commodity 5 Demand 9,483,541 7,154,132 1,886,416 281,135 15,778 146,08 6 Customer 9,331,061 8,865,377 299,615 7,6639 19,449 69,88 7 Total Proposed Rate Revenue 55,173,562 43,399,752 9,316,142 1,564,188 394,503 498,97 Revenue per Therm at Proposed Rates 8 Commodity 9 Demand 9,0131136 10,1432 10,14590 9,0119261 10,002832 9,0140338 10,145900 11,1664,188 10,0028145 10,00281	2 Customer Cost per Customer per Month	\$11.75	\$11.37	\$34.16	\$497.93	\$547.02	\$535.7
24 Commodity 36,358,960 27,380,243 7,130,111 1,206,415 359,276 282,91 permand 9,483,541 7,154,132 1,868,416 281,135 15,778 146,08 267 Total Proposed Rate Revenue 55,173,562 43,399,752 9,316,142 1,564,188 394,503 498,97 Revenue per Therm at Proposed Rates 20 Dermand \$0.133279 \$0.140338 \$0.145900 \$0.119261 \$0.022832 \$0.03478 \$0.021131 \$0.021832 \$0.03478 \$0.031136 \$0.032173 \$0.032511 \$0.028145 \$0.02832 \$0.03478 \$0.031136 \$0.032173 \$0.032511 \$0.028145 \$0.01686 \$0.031136 \$0.033279 \$0.03478 \$0.032173 \$0.032511 \$0.028145 \$0.01686 \$0.031136 \$0.033279 \$0.03478 \$0.033271 \$0.032511 \$0.028145 \$0.01686 \$0.031136 \$0.033279 \$0.03478 \$0.032511 \$0.028145 \$0.028145 \$0.01686 \$0.031136 \$0.033251 \$0.033251 \$0.032511 \$0.028145 \$0.01686 \$0.031136 \$0.033251 \$0.033251 \$0.033251 \$0.028145 \$0.01686 \$0.031136 \$0.033251 \$0.	23 Revenue to Cost Ratio at Current Rates	1.00	80.0	1.05	1.04	1.07	1.6
Section		chedule					
State Stat		· · · · · · · · · · · · · · · · · · ·					282,91
7 Total Proposed Rate Revenue 55,173,562 43,399,752 9,316,142 1,564,188 394,503 498,57 Revenue per Therm at Proposed Rates 8 8 Commodity \$0.510978 \$0.537100 \$0.551460 \$0.511778 \$0.519913 \$0.06736 9 Demand \$0.133279 \$0.140338 \$0.145900 \$0.119261 \$0.022832 \$0.03478 0 Customer \$0.131136 \$0.173906 \$0.023173 \$0.032511 \$0.028145 \$0.01666 1 Total Revenue per Therm at Proposed Rates \$0.775393 \$0.851344 \$0.720532 \$0.663550 \$0.570891 \$0.11880 Cost per Unit at Proposed Rates 22.26 \$23.78 \$28.49 \$16.97 \$6.42 \$6.7 Cost per Unit at Proposed Rates \$0.537100 \$0.551460 \$0.511778 \$0.519913 \$0.06736 \$0.131136 \$0.173906 \$0.032173 \$0.032511 \$0.028145 \$0.01666 \$0.131136 \$0.173906 \$0.032173 \$0.032511 \$0.028145 \$0.01666 \$0.131136 \$0.173906 \$0.032173 \$0.032511 \$0.028145 \$0.01666 \$0.131136 \$0.173906 \$0.032173 \$0.032511 \$0.028145 \$0.01666 \$0.131136 \$0.173906 \$0.032173 \$0.032511 \$0.028145 \$0.01666 \$0.151136 \$0.173906 \$0.032173 \$0.032511 \$0.028145 \$0.01666 \$0.151136 \$0.173906 \$0.032173 \$0.032511 \$0.028145 \$0.01666 \$0.151136 \$0.173906 \$0.032173 \$0.032511 \$0.032511 \$0.028145 \$0.01666 \$0.151136 \$0.173906 \$0.032173 \$0.032511 \$0.028145 \$0.01666 \$0.151136 \$0.173906 \$0.032173 \$0.032511 \$0.028145 \$0.01666 \$0.151136 \$0.173906 \$0.032173 \$0.032511 \$0.028145 \$0.032173 \$0.0							
Revenue per Therm at Proposed Rates 8 Commodity 9 Demand \$0.133279 \$0.140338 \$0.145900 \$0.149261 \$0.022832 \$0.03478 \$0.03478 1 Total Revenue per Therm at Proposed Rates Cost per Unit at Proposed Rates 2 Commodity Cost per Therm \$0.510978 \$0.510978 \$0.510978 \$0.537100 \$0.551460 \$0.023173 \$0.032511 \$0.022832 \$0.03478 \$0.03478 \$0.01866 \$0.022832 \$0.03478 \$0.01866 \$0.027533 \$0.851344 \$0.720532 \$0.663550 \$0.570891 \$0.1886 Cost per Unit at Proposed Rates 2 Commodity Cost per Therm \$0.510978 \$0.510978 \$0.537100 \$0.551460 \$0.511778 \$0.511973 \$0.519913 \$0.06736 \$0.67363 \$0.775393 \$0.862363 \$0.7536,243							
8 Commodity \$0.510978 \$0.537100 \$0.551460 \$0.511778 \$0.519913 \$0.06736 \$0.0000000000000000000000000000000000	·	55,173,562	43,399,752	9,316,142	1,564,188	394,503	498,97
9 Demand		# 0 F4007 0	CO 507400	#0 FF4 400	00 544770	00 510010	******
0 Customer \$0.131136 \$0.173906 \$0.023173 \$0.032511 \$0.028145 \$0.01666 1 Total Revenue per Therm at Proposed Rates \$0.775393 \$0.851344 \$0.720532 \$0.663550 \$0.570891 \$0.11880 Cost per Unit at Proposed Rates 2 2 Commodity Cost per Therm \$0.510978 \$0.537100 \$0.551460 \$0.511778 \$0.519913 \$0.06736 3 Demand Cost per Peak Day Therms \$23.26 \$23.78 \$28.49 \$16.97 \$6.42 \$6.7 4 Customer Cost per Customer per Month \$13.23 \$12.70 \$43.63 \$638.66 \$810.39 \$833.1 Cost by Classification at Uniform Proposed Return 5 Commodity 36,246,348 27,536,372 6,972,062 1,187,521 347,658 202,73 6 Demand 9,411,285 7,306,248 1,751,159 261,271 9,456 83,14 7 Customer 9,515,929 9,113,904 269,690 66.857 14,726 50,75 8 Total Uniform Proposed Return 50.503935 \$0.540162 \$0.539236 \$0.503762	•						
1 Total Revenue per Therm at Proposed Rates \$0.775393 \$0.851344 \$0.720532 \$0.663550 \$0.570891 \$0.11880 \$0.50891 \$0.11880 \$0.50891 \$0.511880 \$0.50891 \$0.511880 \$0.50891 \$0.511880 \$0.50891 \$0.511880 \$0.50891 \$0.511880 \$0.50891 \$0.511880 \$0.50891 \$0.511880 \$0.50891 \$0.511880 \$0.50891 \$0.511880 \$0.50891 \$0.511880 \$0.50891 \$0.511880 \$0.50891 \$0.511880 \$0.50891 \$0.511778 \$0.519913 \$0.067363 \$0.50891 \$0							
Cost per Unit at Proposed Rates 2 Commodity Cost per Therm							
2 Commodity Cost per Therm \$0.510978 \$0.537100 \$0.551460 \$0.511778 \$0.519913 \$0.06736 \$0.500000000000000000000000000000000000	·	•	********	*	40.00000	40.070001	40.11000
3 Demand Cost per Peak Day Therms \$23.26 \$23.78 \$28.49 \$16.97 \$6.42 \$6.74 Customer Cost per Customer per Month \$13.23 \$12.70 \$43.63 \$638.66 \$810.39 \$833.11 Cost by Classification at Uniform Proposed Return 5 Commodity 36,246,348 27,536,372 6,972,062 1,187,521 347,658 202,73 6 Demand 9,411,285 7,306,248 1,751,159 261,271 9,456 83,14 7 Customer 9,515,929 9,113,904 269,690 66,857 14,726 50,78 7 Total Uniform Proposed Cost 55,173,562 43,956,525 8,992,911 1,515,649 371,841 336,63	2 Commodity Cost per Therm	\$0.510978	\$0.537100	\$0.551460	\$0.511778	\$0.519913	\$0.06736
4 Customer Cost per Customer per Month \$13.23 \$12.70 \$43.63 \$638.66 \$810.39 \$833.10 \$							
5 Commodity 36,246,348 27,536,372 6,972,062 1,187,521 347,658 202,73 6 Demand 9,411,285 7,306,248 1,751,159 261,271 9,456 83,14 7 Customer 9,515,929 9,113,904 269,690 66,857 14,726 50,75 8 Total Uniform Proposed Cost 55,173,562 43,956,525 8,992,911 1,515,649 371,841 336,63 Cost per Therm at Proposed Return 9 Commodity \$0,509395 \$0,540162 \$0,539236 \$0,503762 \$0,503102 \$0,04827 Demand \$0,132263 \$0,143322 \$0,135439 \$0,110835 \$0,013685 \$0,01975 Customer \$0,132734 \$0,178781 \$0,020858 \$0,028362 \$0,021311 \$0,01208 Total Cost per Therm at Proposed Return \$0,775393 \$0,862266 \$0,695533 \$0,642959 \$0,538097 \$0,08015 Cost per Unit at Uniform Proposed Return \$0,509395 \$0,540162 \$0,539236 \$0,503762 \$0,538097 \$0,08015 Cost per Unit at Uniform Proposed Return \$0,509395 \$0,540162 \$0,539236 \$0,503762 \$0,503102 \$0,08015 Cost per Unit at Uniform Proposed Return \$0,509395 \$0,540162 \$0,539236 \$0,503762 \$0,503102 \$0,08015 Cost per Unit at Uniform Proposed Return \$0,509395 \$0,540162 \$0,539236 \$0,503762 \$0,503102 \$0,04827 4 Demand Cost per Peak Day Therms \$23,08 \$24,28 \$26,45 \$15,77 \$3,85 \$3.85 5 Customer Cost per Customer per Month \$13,50 \$13,06 \$39,27 \$557,14 \$613,60 \$604,50 5 Customer Cost per Customer per Month \$13,50 \$13,06 \$39,27 \$557,14 \$613,60 \$604,50 5 Customer Cost per Customer per Month	4 Customer Cost per Customer per Month	\$13.23	\$12.70	\$43.63	\$638.66	\$810.39	\$833.1
6 Demand 9,411,285 7,306,248 1,751,159 261,271 9,456 83,147 Customer 9,515,929 9,113,904 269,690 66,857 14,726 50,758 Total Uniform Proposed Cost 55,173,562 43,956,525 8,992,911 1,515,649 371,841 336,633 Cost per Therm at Proposed Return 9 Commodity \$0.509395 \$0.540162 \$0.539236 \$0.503762 \$0.503102 \$0.04827 Demand \$0.132263 \$0.143322 \$0.135439 \$0.110835 \$0.013685 \$0.01976 Customer \$0.133734 \$0.178781 \$0.020858 \$0.028362 \$0.021311 \$0.01208 Total Cost per Therm at Proposed Return \$0.775393 \$0.862266 \$0.695533 \$0.642959 \$0.538097 \$0.08015 Cost per Unit at Uniform Proposed Return \$0.509395 \$0.540162 \$0.539236 \$0.503762 \$0.503102 \$0.08015 Cost per Unit at Uniform Proposed Return \$0.775393 \$0.862266 \$0.695533 \$0.642959 \$0.538097 \$0.08015 Cost per Unit at Uniform Proposed Return \$0.509395 \$0.540162 \$0.539236 \$0.503762 \$0.503102 \$0.04827 4 Demand Cost per Peak Day Therms \$23.08 \$24.28 \$26.45 \$15.77 \$3.85 \$3.85 5 Customer Cost per Customer per Month \$13.50 \$13.06 \$39.27 \$557.14 \$613.60 \$604.15 Cost per Customer Per Month \$13.50 \$13.06 \$39.27 \$557.14 \$613.60 \$604.15 Cost per Customer Peak Day Therms \$23.08 \$24.28 \$26.45 \$15.77 \$3.85 \$3	Cost by Classification at Uniform Proposed Ret	turn					
7 Customer 9,515,929 9,113,904 269,690 66,857 14,726 50,78 Total Uniform Proposed Cost 55,173,562 43,956,525 8,992,911 1,515,649 371,841 336,63 Cost per Therm at Proposed Return 9 Commodity \$0.509395 \$0.540162 \$0.539236 \$0.503762 \$0.503102 \$0.04827 0 Demand \$0.132263 \$0.143322 \$0.135439 \$0.110835 \$0.013685 \$0.01978 1 Customer \$0.133734 \$0.178781 \$0.020858 \$0.028362 \$0.021311 \$0.01208 2 Total Cost per Therm at Proposed Return \$0.775393 \$0.862266 \$0.695533 \$0.642959 \$0.538097 \$0.08018 Cost per Unit at Uniform Proposed Return \$0.509395 \$0.540162 \$0.539236 \$0.503762 \$0.503102 \$0.08818 Cost per Unit at Uniform Proposed Return \$0.509395 \$0.540162 \$0.539236 \$0.503762 \$0.503102 \$0.04827 4 Demand Cost per Therm \$0.509395 \$0.540162 \$0.539236 \$0.503762 \$0.503102 \$0.04827 4 Demand Cost per Peak Day Therms \$23.08 \$24.28 \$26.45 \$15.77 \$3.85 \$3.85 5 Customer Cost per Customer per Month \$13.50 \$13.06 \$39.27 \$557.14 \$613.60 \$604.50 Cost per Customer per Month \$13.50 \$13.06 \$39.27 \$557.14 \$613.60 \$604.50 Cost per Customer per Month \$13.50 \$13.06 \$39.27 \$557.14 \$613.60 \$604.50 Cost per Customer Peak Day Therms \$23.08 \$24.28 \$26.45 \$39.27 \$557.14 \$613.60 \$604.50 Cost per Customer per Month \$13.50 \$13.06 \$39.27 \$557.14 \$613.60 \$604.50 Cost per Customer Peak Day Therms \$23.08 \$24.28 \$26.45 \$39.27 \$557.14 \$613.60 \$604.50 Cost per Customer Peak Day Therms \$23.08 \$24.28 \$26.45 \$39.27 \$557.14 \$613.60 \$604.50 Cost per Customer Peak Day Therms \$23.08 \$24.28 \$26.45 \$39.27 \$557.14 \$613.60 \$604.50 Cost per Customer Peak Day Therms \$23.08 \$24.28 \$26.45 \$39.27 \$557.14 \$613.60 \$604.50 Cost per Customer Peak Day Therms \$23.08 \$24.28 \$26.45 \$39.27 \$557.14 \$613.60 \$604.50 Cost per Customer Peak Day Therms \$23.08 \$24.28 \$26.45 \$39.27 \$557.14 \$613.60 \$604.50 Cost per Customer Peak Day Therms \$23.08 \$24.28 \$26.45 \$39.27 \$557.14 \$613.60 \$604.50 Cost per Customer Peak Day Therms \$23.08 \$24.28 \$26.45 \$39.27 \$557.14 \$613.60 \$604.50 Cost per Customer Peak Day Therms \$23.08 \$24.28 \$26.45 \$39.27 \$25.00 \$25.00 \$25.				6,972,062		347,658	202,73
8 Total Uniform Proposed Cost 55,173,562 43,956,525 8,992,911 1,515,649 371,841 336,63 Cost per Therm at Proposed Return 9 Commodity							
Cost per Therm at Proposed Return 9 Commodity 10 Demand 11 Customer 21 Total Cost per Unit at Uniform Proposed Return 3 Commodity Cost per Therm 4 Demand Cost per Peak Day Therms 5 Customer Cost per Customer per Month 5 Customer 5 Customer 5 Customer 5 Customer 5 Customer Sunday 5 Customer Cost per Unit at Uniform Proposed Return 5 Customer Sunday 5 Customer Cost per Customer per Month 5 Customer Cost per Customer Sunday 5 Customer Cost per Customer per Month 5 Customer Cost per Customer Sunday 5 Customer Customer Sun							
9 Commodity \$0.509395 \$0.540162 \$0.539236 \$0.503762 \$0.503102 \$0.04827 \$0.0000 \$0.0000 \$0.132263 \$0.143322 \$0.135439 \$0.110835 \$0.013685 \$0.01975 \$0.0000 \$0.133734 \$0.178781 \$0.020858 \$0.028362 \$0.021311 \$0.01208 \$0.0000 \$.,	55,173,562	43,956,525	8,992,911	1,515,649	371,841	336,63
0 Demand \$0.13263 \$0.143322 \$0.135439 \$0.110835 \$0.013685 \$0.01975 1 Customer \$0.133734 \$0.178781 \$0.020858 \$0.028362 \$0.021311 \$0.01208 2 Total Cost per Therm at Proposed Return \$0.775393 \$0.862266 \$0.695533 \$0.642959 \$0.538097 \$0.08018 Cost per Unit at Uniform Proposed Return \$0.509395 \$0.540162 \$0.539236 \$0.503762 \$0.503102 \$0.04827 4 Demand Cost per Peak Day Therms \$23.08 \$24.28 \$26.45 \$15.77 \$3.85 \$3.85 5 Customer Cost per Customer per Month \$13.50 \$13.06 \$39.27 \$557.14 \$613.60 \$604.7		¢ 0 5 00205	\$0 E40460	¢ 0 F 20020	¢0 500760	PO E00400	# 0.0400
1 Customer \$0.133734 \$0.178781 \$0.020858 \$0.028362 \$0.021311 \$0.012082 2 Total Cost per Therm at Proposed Return \$0.775393 \$0.862266 \$0.695533 \$0.642959 \$0.538097 \$0.08015 Cost per Unit at Uniform Proposed Return \$0.509395 \$0.540162 \$0.539236 \$0.503762 \$0.503102 \$0.04827 3 Commodity Cost per Therm \$0.509395 \$0.540162 \$0.539236 \$0.503762 \$0.503102 \$0.04827 4 Demand Cost per Peak Day Therms \$23.08 \$24.28 \$26.45 \$15.77 \$3.85 \$3.85 5 Customer Cost per Customer per Month \$13.50 \$13.06 \$39.27 \$557.14 \$613.60 \$604.50							
2 Total Cost per Therm at Proposed Return \$0.775393 \$0.862266 \$0.695533 \$0.642959 \$0.538097 \$0.08018 Cost per Unit at Uniform Proposed Return \$0.509395 \$0.540162 \$0.539236 \$0.503762 \$0.503102 \$0.04827 4 Demand Cost per Peak Day Therms \$23.08 \$24.28 \$26.45 \$15.77 \$3.85 \$3.85 5 Customer Cost per Customer per Month \$13.50 \$13.06 \$39.27 \$557.14 \$613.60 \$604.5							
3 Commodity Cost per Therm \$0.509395 \$0.540162 \$0.539236 \$0.503762 \$0.503102 \$0.0482* 4 Demand Cost per Peak Day Therms \$23.08 \$24.28 \$26.45 \$15.77 \$3.85 \$3.05 \$15							
4 Demand Cost per Peak Day Therms \$23.08 \$24.28 \$26.45 \$15.77 \$3.85 \$3.85 Customer Cost per Customer per Month \$13.50 \$13.06 \$39.27 \$557.14 \$613.60 \$604.	Cost per Unit at Uniform Proposed Return						
4 Demand Cost per Peak Day Therms \$23.08 \$24.28 \$26.45 \$15.77 \$3.85 \$3.85 Customer Cost per Customer per Month \$13.50 \$13.06 \$39.27 \$557.14 \$613.60 \$604.		\$0.509395	\$0.540162	\$0.539236	\$0.503762	\$0.503102	\$0.0482
5 Customer Cost per Customer per Month \$13.50 \$13.06 \$39.27 \$557.14 \$613.60 \$604.							•
6 Revenue to Cost Ratio at Proposed Rates 1.00 0.99 1.04 1.03 1.06 1.05	5 Customer Cost per Customer per Month	\$13.50	\$13.06	\$39.27	\$557.14	\$613.60	\$604.
	6 Revenue to Cost Ratio at Proposed Rates	1.00	0.99	1.04	1.03	1.06	1.

Exhibit No. 137 Case No. AVU-E-04-1/ AVU-G-04-1 M. Fuss, Staff 6/21/04 Page 5 of 5

CERTIFICATE OF SERVICE

I HEREBY CERTIFY THAT I HAVE THIS 21ST DAY OF JUNE 2004, SERVED THE FOREGOING **DIRECT TESTIMONY OF MICHAEL FUSS,** IN CASE NO. AVU-E-04-1/AVU-G-04-1, BY MAILING A COPY THEREOF, POSTAGE PREPAID, TO THE FOLLOWING:

DAVID J. MEYER SR VP AND GENERAL COUNSEL AVISTA CORPORATION PO BOX 3727 SPOKANE WA 99220-3727

CONLEY E WARD GIVENS PURSLEY LLP PO BOX 2720 BOISE ID 83701-2720

CHARLES L A COX EVANS KEANE 111 MAIN STREET PO BOX 659 KELLOGG ID 83837 KELLY NORWOOD VICE PRESIDENT – STATE & FED. REG. AVISTA UTILITIES PO BOX 3727 SPOKANE WA 99220-3727

DENNIS E PESEAU, PH. D. UTILITY RESOURCES INC 1500 LIBERTY ST SE, SUITE 250 SALEM OR 97302

BRAD M PURDY ATTORNEY AT LAW 2019 N 17TH ST BOISE ID 83702

SECRETARY