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OF COUNSEL
THOMAS F. WOODS

June 11, 1998

Blanca S. Bayo, Director
Division of Records & Reporting
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

HAND DELIVERY

Re: Docket No. 980427-GU
Notice of filing cost-effectiveness evaluation of energy
conservation programs and request for approval of programs by
Florida Division of Chesapeake Utilities Corporation

Dear Ms. Bayo:

Enclosed on behalf of the Florida Division of Chesapeake
Utilities Corporation for filing in the above docket are an
original and twelve copies of Corrected Cost-Effectiveness Data.

Please acknowledge receipt of the foregoing by stamping the
enclosed extra copy of this letter and returning same to my
attention. Thank you for your assistance.

Sincerely,

Wayne L. Schiefelbein

- ACK _____
- AFA _____
- APP _____
- CAF _____
- CMU _____
- CTR _____
- EAG 1 _____
- LEG 1 _____
- LIN _____
- OPC _____
- RCH _____
- SEC 1 _____
- WAS _____
- OTH _____

WLS/cas
Enclosures

cc: w/o enclosures: Paul Lowery, Division of Electric and Gas
w/o enclosures: Leslie Paugh, Division of Legal Services

DOCUMENT NUMBER-DATE

06220 JUN 11 88

FPSC-RECORDS/REPORTING

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Attorneys at Law

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HAND DELIVERY

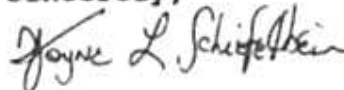
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FPSC-RECORDS/REPORTING

Docket No. 980427-GU
Chesapeake Utilities Corporation
Florida Division

Corrected Cost-Effectiveness Data

Summary of Cost-Effectiveness Ratios (1 page)

Exhibit A	pp. 1-13 only
Exhibit B	pp. 1-13 only
Exhibit C	pp. 1-13 only
Exhibit D	pp. 1-3 only
Exhibit E	pp. 1-4 only
Exhibit F	pp. 1-4 only

Florida Division of Chesapeake Utilities
ENERGY CONSERVATION PROGRAM ANALYSIS
 Summary of Cost-Effectiveness Ratios

Residential Builder Program

Installed Appliances	Incentive Amount (\$)	Participants B/C Ratio	Res B/C Ratio
Water Heater	275	4.19	1.50
Furnace	275	2.84	1.45
Clothes Dryer Outlet	75	3.34	1.37
Range	75	2.45	1.2

Residential Appliance Replacement Program

Installed Appliances	Incentive Amount (\$)	Participants B/C Ratio	Res B/C Ratio
Water Heater	330	4.79	1.48
Furnace	330	2.73	1.44
Clothes Dryer	50	3.17	1.49
Range	50	2.30	1.32

Residential Propane Distribution Program

Installed Appliances	Incentive Amount (\$)	Participants B/C Ratio	Res B/C Ratio
Water Heater	275	132.76	1.50
Furnace	275	4.84	1.45
Clothes Dryer Outlet	75	14.96	1.37
Range	75	7.60	1.20

Residential Water Heater Retention Program

Installed Appliances	Incentive Amount (\$)	Participants B/C Ratio	Res B/C Ratio
Water Heater	150	62.71	2.62

**Natural Gas Space Conditioning
 For Residential Homes Program**

Installed Appliances	Incentive Amount (\$)	Participants B/C Ratio	Res B/C Ratio
Triathlon/Equivalent	1200	1.38	1.73

Natural Gas Space Conditioning

Installed Appliances	Incentive Amount (\$)	Participants B/C Ratio	Res B/C Ratio
Engine Dr. Chiller	50/ton	1.20	1.45

Florida Division of Chesapeake Utilities
ENERGY CONSERVATION PROGRAM ANALYSIS
Summary of Cost-Effectiveness Ratios

Residential Builder Program

Installed Appliances	Incentive Amount (\$)	Participants B/C Ratio	Rim B/C Ratio
Water Heater	275	4.19	1.50
Furnace	275	2.84	1.45
Clothes Dryer Outlet	75	3.34	1.37
Range	75	2.45	1.2

**Florida Division of Chesapeake Utilities
ENERGY CONSERVATION PROGRAM ANALYSIS
Summary of Cost Effectiveness Ratios**

Residential Appliance Replacement Program

Installed Appliances	Incentive Amount (\$)	Participants B/C Ratio	Rim B/C Ratio
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**Florida Division of Chesapeake Utilities
ENERGY CONSERVATION PROGRAM ANALYSIS
Summary of Cost-Effectiveness Ratios**

Residential Propane Distribution Program

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Florida Division of Chesapeake Utilities
ENERGY CONSERVATION PROGRAM ANALYSIS
Summary of Cost-Effectiveness Ratios

Residential Water Heater Retention Program

Installed Appliances	Incentive Amount (\$)	Participants B/C Ratio	Rim B/C Ratio
Water Heater	150	62.71	2.62

**Florida Division of Chesapeake Utilities
ENERGY CONSERVATION PROGRAM ANALYSIS
Summary of Cost-Effectiveness Ratios**

**Natural Gas Space Conditioning
For Residential Homes Conditioning Program**

Installed Appliances	Incentive Amount (\$)	Participants B/C Ratio	Rim B/C Ratio
Triathlon/Equivalent	1200	1.38	1.73

**Florida Division of Chesapeake Utilities
ENERGY CONSERVATION PROGRAM ANALYSIS
Summary of Cost-Effectiveness Ratios**

Natural Gas Space Conditioning

Installed Appliances	Incentive Amount (\$)	Participants B/C Ratio	Rim B/C Ratio
Engine Dr. Chiller	50/ton	1.20	1.45

Rate Impact Measure Test Data

At Costs in 1998 dollars. Analysis Start Year: 1998 Number of Years: 20

Gas Program: Residential Home Builder Program Gas Rate Number

Electric Rate Number

Gas Meterage: Water Heater 40 gallon
 New Customer, New Dwelling
 New Month

Water Heater: Electric Resistance Water Heater 50 gallon
 All Fuel Type: Electric

Allowance: \$275
 Gas Utility: Chesapeake Utilities Corporation

Electric Utility: Tampa Electric Co.

1. Avoided Water Removal Cost \$0
 2. Avoided Cut & Cap Cost 0

Total Costs \$0

II. Operating Data

1. Energy Factor 0.56

Therms Consumed	Winter	Summer	Total
2. Standard Rate	101.0	67.0	168.0
3. Seasonal Rate			0.0
Total	101.0	67.0	168.0

Gas Rates	Rate
6. Base, Winter	\$0.43128
7. Base, Summer	\$0.43128
8. Seasonal, Winter	
9. Seasonal, Summer	
10. PCA, Winter	0.28977
11. PCA, Summer	0.28977
13. Customer Chg	\$6.50
14. Ratio of Therms Consumed to Total	39.72%
15. Average Life	12
III. Common Gas & Electric Data	
1. Discount Rate	8.65%

IV. New Customer Installation Costs

1. Supply Main	\$	25
2. Development Main		114
3. Service		364
4. Meter		205
Total C-ut Cost		572

5. Utility Allowance	\$275
6. Program Cost	\$56
7. New Customer Admin. Cost 6 month	\$4
8. Main O&M (Percent)	2.04%

V. Gas Supply Cost	Gas Supply Cost \$/Therm
1. Load Profile Type	
2. Commodity (Annual)	\$0.2250
3. Winter Multiplier	1.33
4. Summer Multiplier	1.00
5. Transportation, Capacity, Peaking and Balancing Cost	0.04175

System Shortage

VI. Therms Consumed	New	Existing
1. Energy Factor	0.66	0.66
2. Annual Gas Therms	0.0	0.0
VII. Therms Dispatched		1.00
1. Energy Factor		1.00

Therms Dispatched	Winter	Summer	Total
2. Standard Rate	0.00	0.00	0.00
Total	0.00	0.00	0.00

VIII. Therms Per Hour @ Utility Receipt Point

Therms per Hour	Winter	Summer	Total
1. Consumed	0.07871	0.07871	0.15342
2. Consumed New			
3. Consumed Existing			
4. Dispatched			

Rate Impact Measure Test Data

	Consumed Conserved Displaced Gas Therms	Gas Customer Charge	Total Columns 2 thru 3	Carrying Chg. On Main, Svc. & Meter	New Customer Admin. & Facilities O&M	Gas Supply Cost	Program & Allowance Cost	Water Total Columns 5 thru 8
	Table 1	Table 2		Table 3	Table 4	Table 5		
1	2	3	4	5	6	7	8	9
	\$	\$	\$	\$	\$	\$	\$	\$
1998	138	31	169	22	21	52	331	427
1999	142	32	174	21	22	54		97
2000	146	33	179	20	23	56		99
2001	151	34	185	20	23	57		100
2002	155	35	190	19	24	59		102
2003	160	36	196	18	25	61		103
2004	165	37	202	17	25	62		105
2005	170	38	208	16	26	64		107
2006	175	39	214	16	27	66		109
2007	180	40	220	15	27	68		111
2008	185	42	227	14	28	70		113
2009	191	43	234	13	29	72		115
2010	197	44	241	13	30	75		117
2011	203	45	248	12	31	77		119
2012	209	47	256	11	32	79		122
2013	215	48	263	10	32	82		124
2014	221	50	271	9	33	84		127
2015	228	51	279	9	34	87		129
2016	235	53	288	8	35	89		132
2017	242	54	296	7	36	92		135

Present Value of Benefits \$1,963

\$1,313

Benefit/Cost Ratio	1.50
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Rate Impact Measure Test Data

All Costs in 1998 dollars. Analysis Start Year 1998 Number of Years 20

Gas Program: Residential Home Builder Program Gas Rate Number

Electric Rate Number

Gas Meters: Fortuna
 Meter Customer, Meter Description
 New Main

Appliances Option: Electric Resistance Furnace
 All Fuel Type: Electric

Allowance: \$276
 Gas Utility: Chesapeake Utilities Corporation

Electric Utility: Tampa Electric
 IV. New Customer Installation Costs

1. Avoided Meter Removal Cost: \$0
 2. Avoided Cut & Cap Cost: 0
 Total Costs: \$0

1. Supply Main: 25
 2. Development Main: 114
 3. Service: 364
 4. Meter: 205
 Total Cost Cost: \$728

II. Operating Data
 1. Energy Factor

5. Utility Allowance: \$275
 6. Program Cost: \$56
 7. New Customer Admn. Cost \$/month: \$4
 8. Main O&M (Percent): 2.04%

Therms Consumed Winter Summer Total
 2. Standard Rate 177.0 0.0 177.0
 3. Seasonal Fcns 0.0 0.0 0.0
 Total 177.0 0.0 177.0

V. Gas Supply Cost
 1. Load Profile Type
 2. Commodity (Annual) Gas Supply Cost \$/Therm: \$0.2250
 3. Winter Multiplier: 1.33
 4. Summer Multiplier: 1.00
 5. Transportation, Capacity, Peaking and Balancing Cost: 0.04175

Gas Rates

6. Base, Winter: \$0.43126
 7. Base, Summer: \$0.43126
 8. Seasonal, Winter
 9. Seasonal, Summer
 10. POA, Winter: 0.28977
 11. POA, Summer: 0.28977

VI. Therms Displaced
 1. Energy Factor: 1.00
 Therms Displaced Winter Summer Total
 2. Standard Rate: 0.00 0.00 0.00
 Total: 0.00 0.00 0.00

13. Customer Chg: \$6.50
 14. Ratio of Therms Consumed to Total: 41.84%

VII. Therms Per Hour @ Utility Receipt Point
 Therms per Hour Winter Summer Total
 1. Consumed: 0.07871 0.07871 0.15342
 2. Consumed New
 3. Consumed Existing
 4. Displaced

1. Discount Rate: 8.65%

Rate Impact Measure Test Data

	Consumed Conserved Displaced Gas Therms Table 1	Gas Customer Charge Table 2	Total Columns 2 thru 3 4	Carrying Chg. On Main, Svc. & Meter Table 3	New Customer Admin. & Facilities O&M Table 4	Gas Supply Cost Table 5	Program & Allowance Cost 8	Heating Total Columns 6 thru 9 9
1	2	3	4	5	6	7	8	9
	\$	\$	\$	\$	\$	\$	\$	\$
1998	145	33	178	23	23	60	331	437
1999	150	34	184	22	23	62		108
2000	154	35	189	21	24	64		110
2001	159	36	195	21	24	66		111
2002	164	37	201	20	25	68		113
2003	168	38	206	19	26	70		115
2004	174	39	213	18	26	72		117
2005	179	40	219	17	27	74		119
2006	184	41	225	16	28	77		121
2007	190	43	233	16	29	79		123
2008	195	44	239	15	30	81		126
2009	201	45	246	14	30	84		128
2010	207	47	254	13	31	86		131
2011	213	48	261	12	32	89		133
2012	220	49	269	12	33	91		136
2013	226	51	277	11	34	94		139
2014	233	52	285	10	35	97		142
2015	240	54	294	9	36	100		145
2016	247	56	303	8	37	103		148
2017	255	57	312	7	38	106		151

Present Value
of Benefits \$2,067

\$1,428

Benefit/Cost Ratio	1.45
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Table 1

Year	Therapy	Hours	Rate	Rate	Rate	Rate	Rate	Rate
1988	177	177	\$0.4128	\$0.4128	\$0.4128	\$0.4128	\$0.4128	\$0.4128
1989	177	177	\$0.4420	\$0.4420	\$0.4420	\$0.4420	\$0.4420	\$0.4420
2000	177	177	\$0.4712	\$0.4712	\$0.4712	\$0.4712	\$0.4712	\$0.4712
2001	177	177	\$0.4712	\$0.4712	\$0.4712	\$0.4712	\$0.4712	\$0.4712
2002	177	177	\$0.4838	\$0.4838	\$0.4838	\$0.4838	\$0.4838	\$0.4838
2003	177	177	\$0.4838	\$0.4838	\$0.4838	\$0.4838	\$0.4838	\$0.4838
2004	177	177	\$0.4964	\$0.4964	\$0.4964	\$0.4964	\$0.4964	\$0.4964
2005	177	177	\$0.4964	\$0.4964	\$0.4964	\$0.4964	\$0.4964	\$0.4964
2006	177	177	\$0.5090	\$0.5090	\$0.5090	\$0.5090	\$0.5090	\$0.5090
2007	177	177	\$0.5090	\$0.5090	\$0.5090	\$0.5090	\$0.5090	\$0.5090
2008	177	177	\$0.5216	\$0.5216	\$0.5216	\$0.5216	\$0.5216	\$0.5216
2009	177	177	\$0.5216	\$0.5216	\$0.5216	\$0.5216	\$0.5216	\$0.5216
2010	177	177	\$0.5342	\$0.5342	\$0.5342	\$0.5342	\$0.5342	\$0.5342
2011	177	177	\$0.5342	\$0.5342	\$0.5342	\$0.5342	\$0.5342	\$0.5342
2012	177	177	\$0.5468	\$0.5468	\$0.5468	\$0.5468	\$0.5468	\$0.5468
2013	177	177	\$0.5468	\$0.5468	\$0.5468	\$0.5468	\$0.5468	\$0.5468
2014	177	177	\$0.5594	\$0.5594	\$0.5594	\$0.5594	\$0.5594	\$0.5594
2015	177	177	\$0.5594	\$0.5594	\$0.5594	\$0.5594	\$0.5594	\$0.5594
2016	177	177	\$0.5720	\$0.5720	\$0.5720	\$0.5720	\$0.5720	\$0.5720
2017	177	177	\$0.5720	\$0.5720	\$0.5720	\$0.5720	\$0.5720	\$0.5720

Table 2

Year	Customer	Annual	Rate of Therapy	Rate of Therapy
1988	8.80	74.00	41.84%	\$34
1989	8.70	80.34	41.84%	\$34
2000	8.80	82.71	41.84%	\$34
2001	7.10	86.23	41.84%	\$34
2002	7.20	87.79	41.84%	\$34
2003	7.84	90.42	41.84%	\$34
2004	7.78	92.14	41.84%	\$41
2005	7.88	93.83	41.84%	\$41
2006	8.23	96.81	41.84%	\$41
2007	8.48	101.77	41.84%	\$41
2008	7.74	104.83	41.84%	\$41
2009	8.00	107.87	41.84%	\$41
2010	8.27	111.21	41.84%	\$41
2011	8.88	114.56	41.84%	\$41
2012	8.83	117.88	41.84%	\$41
2013	10.13	121.82	41.84%	\$41
2014	10.43	126.82	41.84%	\$41
2015	10.74	132.79	41.84%	\$41
2016	11.07	138.77	41.84%	\$41
2017	11.40	144.77	41.84%	\$41

Table 4

Year	Adm	Adm	Adm	Adm	Adm	Adm	Adm	Adm	Adm
1988	4	4	51	114	25	138	254	41.84%	22
1989	4	4	51	110	24	134	254	41.84%	24
2000	4	4	51	102	22	124	254	41.84%	24
2001	4	4	51	102	22	118	254	41.84%	25
2002	4	4	51	98	20	114	254	41.84%	26
2003	4	4	51	94	20	108	254	41.84%	27
2004	4	4	51	90	18	104	254	41.84%	28
2005	4	4	51	86	18	100	254	41.84%	29
2006	4	4	51	82	18	96	254	41.84%	30
2007	4	4	51	78	18	92	254	41.84%	31
2008	4	4	51	74	18	88	254	41.84%	32
2009	4	4	51	70	18	84	254	41.84%	33
2010	4	4	51	66	18	80	254	41.84%	34
2011	4	4	51	62	18	76	254	41.84%	35
2012	4	4	51	58	18	72	254	41.84%	36
2013	4	4	51	54	18	68	254	41.84%	37
2014	4	4	51	50	18	64	254	41.84%	38
2015	4	4	51	46	18	60	254	41.84%	39
2016	4	4	51	42	18	56	254	41.84%	40
2017	4	4	51	38	18	52	254	41.84%	41

Table 3

Year	Industry	Development	Services	Member	Avg Cost	Customer	Rate of Therapy	Rate of Therapy
1988	38	118	271	358	7.87%	702	41.84%	\$22
1989	24	110	258	348	7.87%	678	41.84%	\$21
2000	23	102	246	346	7.87%	661	41.84%	\$21
2001	22	102	246	346	7.87%	661	41.84%	\$21
2002	21	98	232	332	7.87%	634	41.84%	\$20
2003	20	94	218	318	7.87%	608	41.84%	\$19
2004	19	88	208	308	7.87%	577	41.84%	\$18
2005	18	88	203	293	7.87%	548	41.84%	\$18
2006	17	82	187	280	7.87%	520	41.84%	\$18
2007	16	78	174	264	7.87%	494	41.84%	\$18
2008	15	74	164	254	7.87%	468	41.84%	\$18
2009	14	70	154	244	7.87%	442	41.84%	\$18
2010	14	66	144	234	7.87%	418	41.84%	\$18
2011	12	62	132	222	7.87%	390	41.84%	\$17
2012	11	58	120	210	7.87%	364	41.84%	\$17
2013	10	54	108	198	7.87%	338	41.84%	\$17
2014	8	50	96	186	7.87%	312	41.84%	\$17
2015	8	46	84	174	7.87%	286	41.84%	\$17
2016	8	42	72	162	7.87%	260	41.84%	\$17
2017	8	38	60	150	7.87%	234	41.84%	\$17

Table 5

Year	Therapy	Therapy	Therapy	Therapy	Community Care	Therapy	Therapy	Therapy	Therapy
1988	177	177	177	0	0.2318	0.2418	0.2418	1.33	\$62
1989	177	177	177	0	0.2387	0.2487	0.2487	1.33	\$64
2000	177	177	177	0	0.2468	0.2568	0.2568	1.33	\$66
2001	177	177	177	0	0.2533	0.2633	0.2633	1.33	\$68
2002	177	177	177	0	0.2608	0.2708	0.2708	1.33	\$70
2003	177	177	177	0	0.2687	0.2787	0.2787	1.33	\$72
2004	177	177	177	0	0.2768	0.2868	0.2868	1.33	\$74
2005	177	177	177	0	0.2851	0.2951	0.2951	1.33	\$76
2006	177	177	177	0	0.2938	0.3038	0.3038	1.33	\$78
2007	177	177	177	0	0.3024	0.3124	0.3124	1.33	\$80
2008	177	177	177	0	0.3115	0.3215	0.3215	1.33	\$82
2009	177	177	177	0	0.3209	0.3309	0.3309	1.33	\$84
2010	177	177	177	0	0.3305	0.3405	0.3405	1.33	\$86
2011	177	177	177	0	0.3404	0.3504	0.3504	1.33	\$88
2012	177	177	177	0	0.3506	0.3606	0.3606	1.33	\$90
2013	177	177	177	0	0.3610	0.3710	0.3710	1.33	\$92
2014	177	177	177	0	0.3717	0.3817	0.3817	1.33	\$94
2015	177	177	177	0	0.3827	0.3927	0.3927	1.33	\$96
2016	177	177	177	0	0.3941	0.4041	0.4041	1.33	\$98
2017	177	177	177	0	0.3961	0.4061	0.4061	1.33	\$100

Rate Impact Measure Test Data

All Costs in 1998 dollars Analysis Start Year 1998 Number of Years 20

Gas Program: Residential Home Builder Program Gas Rate Number Electric Rate Number

Gas Measure: Dryer
New Customer, New Dwelling
New Month

Airborna System: Dryer
AT Fuel Type: Electric

Allowance: \$75
Gas Utility: Chesapeake Utilities Corporation

Electric Utility: Tampa Electric
IV New Customer Installation Costs

- 1. Avoided Meter Removal Cost \$0
- 2. Avoided Out & Cap Cost 0

Total Costs \$0

Operating Data

- 1. Energy Factor

- 1. Supply Main 25
- 2. Development Main 114
- 3. Service 384
- 4. Meter 205

Total Cost Cost \$728

- V. Gas Supply Cost
- 1. Load Profile Type
- 2. Commodity (Annual)
- 3. Winter Multiplier
- 4. Summer Multiplier
- 5. Transportation, Capacity, Peaking and Balancing Cost

Gas Supply Cost \$/Therm \$0.2290

System Savings

- VI. Therms Consumed
- 1. Energy Factor
- 2. Annual Gas Therms

New Existing

1.00 1.00

- VII. Therms Displaced
- 1. Energy Factor

1.00

Therms Displaced

2. Standard Rate

0.00 0.00

Total 0.00 0.00

VIII. Therms Per Hour @ Utility Receipt Point

- 1. Consumed
- 2. Consumed New
- 3. Consumed Existing
- 4. Displaced

Winter Summer Total

0.07671 0.07671 0.15342

Therms Consumed	Winter	Summer	Total
2. Standard Rate	23.0	23.0	46.0
3. Seasonal Rate			0.0
Total	23.0	23.0	46.0

Gas Rates	Rate
6. Base, Winter	\$0.43126
7. Base, Summer	\$0.43126
8. Seasonal, Winter	
9. Seasonal, Summer	
10. PGA, Winter	0.38977
11. PGA, Summer	0.38977

13. Customer Chg	\$6.50
14. Ratio of Therms Consumed to Total	10.87%
15. Average Life	19

III Common Gas & Electric Data	
1. Discount Rate	8.65%

Rate Impact Measure Test Data

	Consumed Conserved Displaced Gas Therms	Gas Customer Charge	Total Columns 2 thru 3	Carrying Chg. On Main, Svc. & Meter	New Customer Admin. & Facilities O&M	Gas Supply Cost	Program & Allowance Cost	Dryer Total Columns 6 thru 9
	Table 1	Table 2		Table 3	Table 4	Table 5		
1	2	3	4	5	6	7	8	9
	\$	\$	\$	\$	\$	\$	\$	\$
1998	38	8	46	6	6	14	131	157
1999	39	9	48	6	6	14		26
2000	40	9	49	6	6	15		27
2001	41	9	50	5	6	15		27
2002	43	10	53	5	7	16		27
2003	44	10	54	5	7	16		28
2004	45	10	55	5	7	17		28
2005	46	10	56	4	7	17		29
2006	48	11	59	4	7	18		29
2007	49	11	60	4	7	18		30
2008	51	11	62	4	8	19		30
2009	52	12	64	4	8	19		31
2010	54	12	66	3	8	20		31
2011	55	12	67	3	8	21		32
2012	57	13	70	3	9	21		33
2013	59	13	72	3	9	22		33
2014	61	14	75	3	9	22		34
2015	62	14	76	2	9	23		35
2016	64	14	78	2	10	24		36
2017	66	15	81	2	10	25		36

Present Value
of Benefits \$537

\$393

Benefit/Cost Ratio	1.37
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Rate Impact Measure Test Data

Alt Costa n 1998 dollars Analysis Start Year 1998 Number of Years 20

Gas Program: Residential Home Builder Program Gas Rate Number Electric Rate Number

Gas Measure: Range New Customer, New Dwelling New Main

Allowance: \$75

Gas Utility: Chesapeake Utilities Corporation

1. Avoided Meter Removal Cost \$0
 2. Avoided Cut & Cap Cost 0

Total Costs \$0

II. Operating Data

1. Energy Factor

Therms Consumed	Winter	Summer	Total
2. Standard Rate	16.0	16.0	32.0
3. Seasonal Rate			0.0
Total	16.0	16.0	32.0

Gas Rates

	Rate
6. Base, Winter	\$0.43126
7. Base, Summer	\$0.43126
8. Seasonal, Winter	
9. Seasonal, Summer	
10. POA, Winter	0.28977
11. POA, Summer	0.28977

13. Customer Chg \$6.50

14. Ratio of Therms Consumed to Total 7.57%

15. Average Life 19

III. Common Gas & Electric Data

1. Discount Rate 6.65%

Alabama Option: Range Electric

Alt Fuel Type: Electric

Electric Utility: Tampa Electric

IV. New Customer Installation Costs

1. Supply Main	\$25
2. Development Main	114
3. Service	264
4. Meter	205
Total Cost	\$728

5. Utility Allowance	\$75
6. Program Cost	\$56
7. New Customer Admin. Cost \$/month	\$4
8. Main O&M (Percent)	2.04%

V. Gas Supply Cost

Local Profile Type	Gas Supply Cost \$/Therm
2. Commodity (Annual)	\$0.2290
3. Winter Multiplier	1.33
4. Summer Multiplier	1.00
5. Transportation, Capacity, Peaking and Balancing Cost	0.04175

System Shrinkage

VI. Therms Consumed

	None	Existing
1. Energy Factor	1.00	1.00
2. Annual Gas Therms	0.0	0.0

VI. Therms Displaced

	Winter	Summer	Total
2. Standard Rate	0.00	0.00	0.00
Total	0.00	0.00	0.00

VIII. Therms Per Hour @ Utility Receipt Point

Therms per Hour	Winter	Summer	Total
1. Consumed New	0.07671	0.07671	0.15342
2. Consumed Existing			
3. Consumed Existing			
4. Displaced			

Rate Impact Measure Test Data

	Consumed Conserved Displaced Gas Therms Table 1	Gas Customer Charge Table 2	Total Columns 2 thru 3 4	Carrying Chg. On Main, Svc. & Meter Table 3	New Customer Admin. & Facilities O&M Table 4	Gas Supply Cost Table 5	Program & Allowance Cost 8	Range Total Columns 6 thru 9 9
1	2	3	4	5	6	7	8	9
	\$	\$	\$	\$	\$	\$	\$	\$
1998	26	6	32	\$4	4	10	131	149
1999	27	6	33	\$4	4	10		18
2000	28	6	34	\$4	4	10		19
2001	29	6	35	\$4	4	11		19
2002	30	7	37	\$4	5	11		20
2003	30	7	37	\$3	5	11		19
2004	31	7	38	\$3	5	12		19
2005	32	7	39	\$3	5	12		20
2006	33	7	40	\$3	6	12		21
2007	34	8	42	\$3	5	13		21
2008	35	8	43	\$3	5	13		21
2009	36	8	44	\$3	6	13		22
2010	37	8	45	\$2	6	14		22
2011	39	9	48	\$2	6	14		22
2012	40	9	49	\$2	6	15		23
2013	41	9	50	\$2	6	15		23
2014	42	9	51	\$2	6	16		24
2015	43	10	53	\$2	7	16		25
2016	45	10	55	\$1	7	17		24
2017	46	10	56	\$1	7	17		25

Present Value
of Benefits \$372

Present Value
of Costs \$311

Benefit/Cost Ratio	1.20
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Table 1

Year	Therapy	Admin. Cost	PG&A Admin	Total Admin	Range
1988	22	\$0.4372	\$0.58877	\$0.42112	\$27
1989	22	\$0.46726	\$0.41300	\$0.47123	\$28
1990	22	\$0.48728	\$0.47128	\$0.48716	\$28
2001	22	\$0.48128	\$0.48128	\$0.48128	\$28
2002	22	\$0.48128	\$0.48128	\$0.48128	\$28
2003	22	\$0.48128	\$0.48128	\$0.48128	\$28
2004	22	\$0.48128	\$0.48128	\$0.48128	\$28
2005	22	\$0.48128	\$0.48128	\$0.48128	\$28
2006	22	\$0.48128	\$0.48128	\$0.48128	\$28
2007	22	\$0.48128	\$0.48128	\$0.48128	\$28
2008	22	\$0.48128	\$0.48128	\$0.48128	\$28
2009	22	\$0.48128	\$0.48128	\$0.48128	\$28
2010	22	\$0.48128	\$0.48128	\$0.48128	\$28
2011	22	\$0.48128	\$0.48128	\$0.48128	\$28
2012	22	\$0.48128	\$0.48128	\$0.48128	\$28
2013	22	\$0.48128	\$0.48128	\$0.48128	\$28
2014	22	\$0.48128	\$0.48128	\$0.48128	\$28
2015	22	\$0.48128	\$0.48128	\$0.48128	\$28
2016	22	\$0.48128	\$0.48128	\$0.48128	\$28
2017	22	\$0.48128	\$0.48128	\$0.48128	\$28

Table 2

Year	Construction Cost	Cont. Cost	Admin. Cost	Total Admin	Range
1988	6.75	62.78	7.87%	69	7.87%
1989	6.80	62.78	7.87%	69	7.87%
2001	7.10	62.78	7.87%	69	7.87%
2002	7.32	62.78	7.87%	69	7.87%
2003	7.54	62.78	7.87%	69	7.87%
2004	7.76	62.78	7.87%	69	7.87%
2005	7.98	62.78	7.87%	69	7.87%
2006	8.20	62.78	7.87%	69	7.87%
2007	8.42	62.78	7.87%	69	7.87%
2008	8.64	62.78	7.87%	69	7.87%
2009	8.86	62.78	7.87%	69	7.87%
2010	9.08	62.78	7.87%	69	7.87%
2011	9.30	62.78	7.87%	69	7.87%
2012	9.52	62.78	7.87%	69	7.87%
2013	9.74	62.78	7.87%	69	7.87%
2014	9.96	62.78	7.87%	69	7.87%
2015	10.18	62.78	7.87%	69	7.87%
2016	10.40	62.78	7.87%	69	7.87%
2017	10.62	62.78	7.87%	69	7.87%

Table 3

Year	Therapy	Construction Cost	Admin. Cost	Total Admin	Range
1988	22	114	204	318	7.87%
1989	24	110	201	311	7.87%
2001	24	106	197	303	7.87%
2002	22	102	193	295	7.87%
2003	20	98	189	287	7.87%
2004	18	94	185	279	7.87%
2005	16	90	181	271	7.87%
2006	14	86	177	263	7.87%
2007	12	82	173	255	7.87%
2008	10	78	169	247	7.87%
2009	8	74	165	239	7.87%
2010	6	70	161	231	7.87%
2011	4	66	157	223	7.87%
2012	2	62	153	215	7.87%
2013	0	58	149	207	7.87%
2014	0	54	145	199	7.87%
2015	0	50	141	191	7.87%
2016	0	46	137	183	7.87%
2017	0	42	133	175	7.87%

Table 4

Year	Admin. Cost	Annual Admin. Cost	Development	Salary	Construction	Total Admin	Range
1988	4	\$3	114	24	128	128	7.87%
1989	4	\$3	108	22	124	124	7.87%
2001	4	\$3	102	20	120	120	7.87%
2002	4	\$3	96	18	116	116	7.87%
2003	4	\$3	90	16	112	112	7.87%
2004	4	\$3	84	14	108	108	7.87%
2005	4	\$3	78	12	104	104	7.87%
2006	4	\$3	72	10	100	100	7.87%
2007	4	\$3	66	8	96	96	7.87%
2008	4	\$3	60	6	92	92	7.87%
2009	4	\$3	54	4	88	88	7.87%
2010	4	\$3	48	2	84	84	7.87%
2011	4	\$3	42	0	80	80	7.87%
2012	4	\$3	36	0	76	76	7.87%
2013	4	\$3	30	0	72	72	7.87%
2014	4	\$3	24	0	68	68	7.87%
2015	4	\$3	18	0	64	64	7.87%
2016	4	\$3	12	0	60	60	7.87%
2017	4	\$3	6	0	56	56	7.87%

Table 5

Year	Therapy	Construction Cost	Admin. Cost	Development	Salary	Construction	Total Admin	Range
1988	22	114	204	114	24	128	318	7.87%
1989	24	110	201	108	22	124	311	7.87%
2001	24	106	197	102	20	120	303	7.87%
2002	22	102	193	96	18	116	295	7.87%
2003	20	98	189	90	16	112	287	7.87%
2004	18	94	185	84	14	108	279	7.87%
2005	16	90	181	78	12	104	271	7.87%
2006	14	86	177	72	10	100	263	7.87%
2007	12	82	173	66	8	96	255	7.87%
2008	10	78	169	60	6	92	247	7.87%
2009	8	74	165	54	4	88	239	7.87%
2010	6	70	161	48	2	84	231	7.87%
2011	4	66	157	42	0	80	223	7.87%
2012	2	62	153	36	0	76	215	7.87%
2013	0	58	149	30	0	72	207	7.87%
2014	0	54	145	24	0	68	199	7.87%
2015	0	50	141	18	0	64	191	7.87%
2016	0	46	137	12	0	60	183	7.87%
2017	0	42	133	6	0	56	175	7.87%

Rate Impact Measure Test Data

All Costs in 1995 Dollars Analysis Start Year 1995

Number of Years 20

Gas Program Residential Appliance Replacement Gas Rate Number

Electric Rate Number

Gas Meters: Water Heater 48 gallons

Alabama System: Electric Residential Water Heater 60 gallons
 All Fuel Type: Electric

Allowance: \$200

Gas Utility: Chesapeake Utilities Corporation

Electric Utility: Tampa Electric Co.

IV. New Customer Installation Costs

1. Avoided Water Removal Cost	_____	1	_____
2. Avoided C&I & Cap Cost	_____		_____
Total Costs	\$0		_____

1. Supply Main	_____	5	0
2. Development Main	_____		0
3. Service	_____		364
4. Meter	_____		205
Total C&I Cost	_____		\$569

II. Operating Data			
1. Energy Factor		0.56	

V. Gas Supply Cost			
1. Load Profile Type			
2. Commodity (Annual)			\$0.2250
3. Wireline Budget			1.33
4. Summer Multiplier			1.00
5. Transportation, Capacity, Peaking and Balancing Cost			0.04175

Gas Rates

6. Base, Winter	\$0.43125		
7. Base, Summer	\$0.43125		
8. Seasonal Winter			
9. Seasonal Summer			
10. PQA, Winter	0.38977		
11. PQA, Summer	0.38977		
12. Taxes & Fees	13.87%		
13. Customer Chrg	\$6.50		
14. Ratio of Therms Consumed to Total		39.72%	
15. Average Life		12	

VI. Therms Consumed			
1. Energy Factor		New	Energy
2. Annual Gas Therms	0.90	0.0	88
3. Annual Gas Therms	0.0	0.0	0.0
VII. Therms Displaced			
1. Energy Factor			1.00
VIII. Therms Displaced			
2. Standard Rate		Water	Summer
3. Standard Rate	0.00	0.00	0.00
4. Standard Rate	0.00	0.00	0.00
IX. Therms Per Hour @ Utility Receipt Point			
1. Consumed New		Water	Summer
2. Consumed New	0.07671	0.07671	0.07671
3. Consumed Existing			
4. Displaced			
Total			
			0.00

1. Discount Rate 6.00%

Rate Impact Measure Test Data

	Consumed Conserved Displaced Gas Therms	Gas Customer Charge	Meter & Service Line Removal	Total Columns 2 thru 4	Carrying Chg On Main, Svc & Meter	New Customer Admin & Main O&M	Gas Supply Cost	Other Cost	Program & Allowance Cost	Total Columns 6 thru 10
	Table 1	Table 2			Table 3	Table 4	Table 5			
1	2	3	4	5	6	7	8	9	10	11
1998	\$138	\$31	\$0	\$169	\$18	\$20	\$52	\$0	\$386	\$477
1999	\$142	\$32	\$0	\$174	\$17	\$21	\$54	\$0		\$92
2000	\$146	\$33	\$0	\$179	\$16	\$22	\$56	\$0		\$93
2001	\$151	\$34	\$0	\$185	\$16	\$22	\$57	\$0		\$95
2002	\$155	\$35	\$0	\$190	\$15	\$23	\$59	\$0		\$97
2003	\$160	\$36	\$0	\$196	\$15	\$24	\$61	\$0		\$99
2004	\$165	\$37	\$0	\$202	\$14	\$24	\$62	\$0		\$101
2005	\$170	\$38	\$0	\$208	\$13	\$25	\$64	\$0		\$103
2006	\$175	\$39	\$0	\$214	\$13	\$26	\$66	\$0		\$105
2007	\$180	\$40	\$0	\$220	\$12	\$27	\$68	\$0		\$107
2008	\$185	\$42	\$0	\$227	\$12	\$27	\$70	\$0		\$109
2009	\$191	\$43	\$0	\$234	\$11	\$28	\$72	\$0		\$111
2010	\$197	\$44	\$0	\$241	\$10	\$29	\$75	\$0		\$114
2011	\$203	\$46	\$0	\$249	\$10	\$30	\$77	\$0		\$116
2012	\$209	\$47	\$0	\$256	\$9	\$31	\$79	\$0		\$119
2013	\$215	\$48	\$0	\$263	\$8	\$32	\$82	\$0		\$122
2014	\$221	\$50	\$0	\$271	\$8	\$33	\$84	\$0		\$124
2015	\$228	\$51	\$0	\$279	\$7	\$34	\$87	\$0		\$127
2016	\$235	\$53	\$0	\$288	\$6	\$35	\$89	\$0		\$130
2017	\$242	\$54	\$0	\$296	\$6	\$36	\$92	\$0		\$133

Present Value
of Benefits

\$1,963

Present Value
of Costs

\$1,326

Benefit/Cost
Ratio

1.48

Rate Impact Measure Test Data

At Costs in 1998 dollars Analysis Start Year 1998 Number of Years 20

Gas Program Residential Appliance Replacement Program Gas Rate Number Electric Rate Number

Gas Measure Furnace Furnace Electric Electric

Allowance: \$200

Gas Utility: Chesapeake Utilities Corporation

Electric Utility: Tampa Electric

1. Avoided Water Removal Cost	_____	\$	0
2. Avoided O&M & Cap Cost	_____		0
Total Costs	_____		0

II. Operating Data

1. Energy Factor

Therms Consumed	Winter	Summer	Total
2. Standard Rate	177.0	0.0	177.0
3. Seasonal Rate	_____	_____	0.0
Total	177.0	0.0	177.0

1. Supply Man	_____	\$	0
2. Development Man	_____		0
3. Service	_____		284
4. Meter	_____		205
Total Cost	_____		\$589

5. Utility Allowance	_____	\$	530
6. Program Cost	_____		156
7. New Customer Adm'n. Cost Smooth	_____		54
8. Main O&M (Percent)	_____		2.04%

IV. Gas Supply Cost	_____	\$	2230
1. Load Profile Type	_____		1.33
2. Commodity (Annual)	_____		1.00
3. Winter Multiplier	_____		0.04175
4. Summer Multiplier	_____		
5. Transportation, Capacity, Peaking and Balancing Cost	_____		

System Savings

VI. Therms Consumed

1. Energy Factor	_____	New	Evening
2. Annual Gas Therms	0.90	0.90	86
	0.0	0.0	0.0

VII. Therms Dispatched

1. Energy Factor	_____	Winter	Summer	Total
Therms Dispatched	0.00	0.00	0.00	0.00
2. Standard Rate	_____	_____	_____	_____

VIII. Therms Per Hour @ Utility Receipt Point

Therms per Hour	Winter	Summer	Total
1. Consumed	0.07671	0.07671	0.15342
2. Consumed New	_____	_____	_____
3. Consumed Existing	_____	_____	_____
4. Dispatched	_____	_____	_____

Gas Rates

6. Blank, Winter	\$0.43126	Rate
7. Blank, Summer	\$0.43126	
8. Seasonal, Winter	_____	
9. Seasonal, Summer	_____	
10. PQA, Winter	0.26877	
11. PQA, Summer	0.26877	
12. Taxes & Fees	13.67%	
13. Customer Chg	\$6.50	

14. Ratio of Therms Consumed to Total 41.84%

15. Average Life 19

III. Common Gas & Electric Data

1. Discount Rate 6.65%

Rate Impact Measure Test Data

	Consumed Conserved Displaced Gas Therms Table 1	Gas Customer Charge Table 2	Meter & Service Line Removal 4	Total Columns 2 thru 4 5	Carrying Chg. On Main, Svc. & Meter Table 3 6	New Customer Admin. & Main O&M Table 4 7	Gas Supply Cost Table 5 8	Other Cost Table 6 9	Program & Allowance Cost Table 7 10	Total Columns 6 thru 10 11
1998	\$145	\$33	\$0	\$178	\$19	\$21	\$60	\$0	\$386	\$487
1999	\$150	\$34	\$0	\$184	\$18	\$22	\$62	\$0		\$102
2000	\$154	\$35	\$0	\$189	\$18	\$23	\$64	\$0		\$104
2001	\$159	\$36	\$0	\$195	\$17	\$23	\$66	\$0		\$106
2002	\$164	\$37	\$0	\$201	\$16	\$24	\$68	\$0		\$108
2003	\$168	\$38	\$0	\$206	\$15	\$25	\$70	\$0		\$110
2004	\$174	\$39	\$0	\$213	\$15	\$25	\$72	\$0		\$113
2005	\$179	\$40	\$0	\$219	\$14	\$26	\$74	\$0		\$115
2006	\$184	\$41	\$0	\$225	\$13	\$27	\$77	\$0		\$117
2007	\$190	\$43	\$0	\$233	\$13	\$28	\$79	\$0		\$120
2008	\$195	\$44	\$0	\$239	\$12	\$29	\$81	\$0		\$122
2009	\$201	\$45	\$0	\$246	\$12	\$30	\$84	\$0		\$125
2010	\$207	\$47	\$0	\$254	\$11	\$30	\$86	\$0		\$127
2011	\$213	\$48	\$0	\$261	\$10	\$31	\$89	\$0		\$130
2012	\$220	\$49	\$0	\$269	\$10	\$32	\$91	\$0		\$133
2013	\$226	\$51	\$0	\$277	\$9	\$33	\$94	\$0		\$137
2014	\$233	\$52	\$0	\$285	\$8	\$34	\$97	\$0		\$140
2015	\$240	\$54	\$0	\$294	\$8	\$35	\$100	\$0		\$143
2016	\$247	\$56	\$0	\$303	\$7	\$36	\$103	\$0		\$146
2017	\$255	\$57	\$0	\$312	\$7	\$37	\$106	\$0		\$150

Present Value
of Benefits \$2,069

Present Value
of Costs \$1,439

Benefit/Cost Ratio	1.44
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Table 1

Year	Therapy	Group Name	Rate	Year Name	Year Name
1988	177	02 431726	02 50877	02 50877	02 50877
1989	177	02 44220	02 46146	02 46146	02 46146
2000	177	02 46782	02 47126	02 47126	02 47126
2001	177	02 47126	02 48089	02 48089	02 48089
2002	177	02 48089	02 49159	02 49159	02 49159
2003	177	02 49159	02 50230	02 50230	02 50230
2004	177	02 50230	02 51301	02 51301	02 51301
2005	177	02 51301	02 52372	02 52372	02 52372
2006	177	02 52372	02 53443	02 53443	02 53443
2007	177	02 53443	02 54514	02 54514	02 54514
2008	177	02 54514	02 55585	02 55585	02 55585
2009	177	02 55585	02 56656	02 56656	02 56656
2010	177	02 56656	02 57727	02 57727	02 57727
2011	177	02 57727	02 58798	02 58798	02 58798
2012	177	02 58798	02 59869	02 59869	02 59869
2013	177	02 59869	02 60940	02 60940	02 60940
2014	177	02 60940	02 62011	02 62011	02 62011
2015	177	02 62011	02 63082	02 63082	02 63082
2016	177	02 63082	02 64153	02 64153	02 64153
2017	177	02 64153	02 65224	02 65224	02 65224

Table 3

Year	Therapy	Group Name	Rate	Year Name	Year Name
1988	0	0	0	0	0
1989	0	0	0	0	0
2000	0	0	0	0	0
2001	0	0	0	0	0
2002	0	0	0	0	0
2003	0	0	0	0	0
2004	0	0	0	0	0
2005	0	0	0	0	0
2006	0	0	0	0	0
2007	0	0	0	0	0
2008	0	0	0	0	0
2009	0	0	0	0	0
2010	0	0	0	0	0
2011	0	0	0	0	0
2012	0	0	0	0	0
2013	0	0	0	0	0
2014	0	0	0	0	0
2015	0	0	0	0	0
2016	0	0	0	0	0
2017	0	0	0	0	0

Table 2

Year	Customer	Annual	Rate of Therapy	Rate of Therapy
1988	02 431726	02 50877	02 50877	02 50877
1989	02 44220	02 46146	02 46146	02 46146
2000	02 46782	02 47126	02 47126	02 47126
2001	02 47126	02 48089	02 48089	02 48089
2002	02 48089	02 49159	02 49159	02 49159
2003	02 49159	02 50230	02 50230	02 50230
2004	02 50230	02 51301	02 51301	02 51301
2005	02 51301	02 52372	02 52372	02 52372
2006	02 52372	02 53443	02 53443	02 53443
2007	02 53443	02 54514	02 54514	02 54514
2008	02 54514	02 55585	02 55585	02 55585
2009	02 55585	02 56656	02 56656	02 56656
2010	02 56656	02 57727	02 57727	02 57727
2011	02 57727	02 58798	02 58798	02 58798
2012	02 58798	02 59869	02 59869	02 59869
2013	02 59869	02 60940	02 60940	02 60940
2014	02 60940	02 62011	02 62011	02 62011
2015	02 62011	02 63082	02 63082	02 63082
2016	02 63082	02 64153	02 64153	02 64153
2017	02 64153	02 65224	02 65224	02 65224

Table 4

Year	Therapy	Group Name	Rate	Year Name	Year Name
1988	0	0	0	0	0
1989	0	0	0	0	0
2000	0	0	0	0	0
2001	0	0	0	0	0
2002	0	0	0	0	0
2003	0	0	0	0	0
2004	0	0	0	0	0
2005	0	0	0	0	0
2006	0	0	0	0	0
2007	0	0	0	0	0
2008	0	0	0	0	0
2009	0	0	0	0	0
2010	0	0	0	0	0
2011	0	0	0	0	0
2012	0	0	0	0	0
2013	0	0	0	0	0
2014	0	0	0	0	0
2015	0	0	0	0	0
2016	0	0	0	0	0
2017	0	0	0	0	0

Table 5

Year	Therapy	Group Name	Rate	Year Name	Year Name
1988	177	02 431726	02 50877	02 50877	02 50877
1989	177	02 44220	02 46146	02 46146	02 46146
2000	177	02 46782	02 47126	02 47126	02 47126
2001	177	02 47126	02 48089	02 48089	02 48089
2002	177	02 48089	02 49159	02 49159	02 49159
2003	177	02 49159	02 50230	02 50230	02 50230
2004	177	02 50230	02 51301	02 51301	02 51301
2005	177	02 51301	02 52372	02 52372	02 52372
2006	177	02 52372	02 53443	02 53443	02 53443
2007	177	02 53443	02 54514	02 54514	02 54514
2008	177	02 54514	02 55585	02 55585	02 55585
2009	177	02 55585	02 56656	02 56656	02 56656
2010	177	02 56656	02 57727	02 57727	02 57727
2011	177	02 57727	02 58798	02 58798	02 58798
2012	177	02 58798	02 59869	02 59869	02 59869
2013	177	02 59869	02 60940	02 60940	02 60940
2014	177	02 60940	02 62011	02 62011	02 62011
2015	177	02 62011	02 63082	02 63082	02 63082
2016	177	02 63082	02 64153	02 64153	02 64153
2017	177	02 64153	02 65224	02 65224	02 65224

Rate Impact Measure Test Data

All Costs in 1998 Dollars Analysis Start Year: 1998 Number of Years: 20 Electric Rate Number:

Gas Program: Residential Appliance Replacement Gas Rate Number:

Gas Meter/Type: Dryer Program:

Allowance: \$00

Gas Utility: Chesapeake Utilities Corporation

Alternative Gas/Rate Fuel Type: Dryer Electric Electric Utility: Tampa Electric

IV New Customer Installation Costs

1. Avoided Water Removal Cost	\$0
2. Avoided O&M & Cap Cost	0
Total Costs	\$0

II Operating Data

1. Supply Man	0
2. Development Man	0
3. Service	364
4. Meter	205
Total Cost Cost	\$569

V Utility Allowance

5. Program Cost	\$50
7. New Customer Admin Cost (Month)	\$56
8. Meter O&M (Percent)	\$4
	2.04%

Therms Consumed	Winter	Summer	Total
2. Standard Rate	23.0	23.0	46.0
3. Seasonal Rate			0.0
Total	23.0	23.0	46.0

V Gas Supply Cost	Gas Supply Cost \$/Therm
1. Load Profile Type	
2. Commonly (Annual)	\$0.2250
3. Winter Multiplier	1.33
4. Summer Multiplier	1.00
5. Transportation, Capacity, Peaking and Balancing Cost	0.04175

System Storage

Gas Rates

6. Base, Winter	\$0.43125
7. Base, Summer	\$0.43125
8. Seasonal, Winter	
9. Seasonal, Summer	
10. PCA, Winter	0.28877
11. PCA, Summer	0.28877
12. Taxes & Fees	13.87%
13. Customer Chg	\$8.50

14. Ratio of Therms Consumed to Total

10.87%

15. Average Life

13

III Common Gas & Electric Data

1. Discount Rate: 8.55%

Therms Dispatched	Winter	Summer	Total
2. Standard Rate	0.00	0.00	0.00
Total	0.00	0.00	0.00

VI Therms Consumed

1. Energy Factor	New	Existing
2. Annual Gas Therms	0.90	.88
	0.0	0.0

VII Therms Dispatched

1. Energy Factor	1.00
------------------	------

VIII Therms Per Hour @ Utility Receipt Point

Therms per Hour	Winter	Summer	Total
1. Consumed	0.07671	0.07671	0.15342
2. Consumed New			
3. Consumed Existing			
4. Dispatched			

Rate Impact Measure Test Data

	Consumed Conserved Displaced Gas Therms Table 1	Gas Customer Charge Table 2	Meter & Service Line Removal 4	Total Columns 2 thru 4 5	Carrying Chg. On Main, Svc. & Meter Table 3	New Customer Admin. & Main O&M Table 4	Gas Supply Cost Table 5	Other Cost Table 6	Program & Allowance Cost Table 7	Total Columns 6 thru 10 11
1	2	3	4	5	6	7	8	9	10	11
1998	\$38	\$8	\$0	\$46	\$5	\$6	\$14	\$0	\$106	\$131
1999	\$39	\$9	\$0	\$48	\$5	\$6	\$14	\$0		\$25
2000	\$40	\$9	\$0	\$49	\$5	\$6	\$15	\$0		\$25
2001	\$41	\$9	\$0	\$50	\$4	\$6	\$15	\$0		\$26
2002	\$43	\$10	\$0	\$53	\$4	\$6	\$16	\$0		\$26
2003	\$44	\$10	\$0	\$54	\$4	\$6	\$16	\$0		\$27
2004	\$45	\$10	\$0	\$55	\$4	\$7	\$17	\$0		\$27
2005	\$46	\$10	\$0	\$56	\$4	\$7	\$17	\$0		\$28
2006	\$48	\$11	\$0	\$59	\$4	\$7	\$18	\$0		\$28
2007	\$49	\$11	\$0	\$60	\$3	\$7	\$18	\$0		\$29
2008	\$51	\$11	\$0	\$62	\$3	\$7	\$19	\$0		\$30
2009	\$52	\$12	\$0	\$64	\$3	\$8	\$19	\$0		\$30
2010	\$54	\$12	\$0	\$66	\$3	\$8	\$20	\$0		\$31
2011	\$55	\$12	\$0	\$67	\$3	\$8	\$21	\$0		\$31
2012	\$57	\$13	\$0	\$70	\$3	\$8	\$21	\$0		\$32
2013	\$59	\$13	\$0	\$72	\$2	\$9	\$22	\$0		\$33
2014	\$61	\$14	\$0	\$75	\$2	\$9	\$22	\$0		\$34
2015	\$62	\$14	\$0	\$76	\$2	\$9	\$23	\$0		\$34
2016	\$64	\$14	\$0	\$78	\$2	\$9	\$24	\$0		\$35
2017	\$66	\$15	\$0	\$81	\$2	\$10	\$25	\$0		\$36

Present Value
of Benefits \$537

Present Value
Of Costs \$360

Benefit/Cost Ratio 1.49

Rate Impact Measure Test Data

All Costs in 1998 Dollars Analysis Start Year 1998 Number of Years 20

Gas Program 1 Residential Appliance Replacement Gas Rate Number
 Program
 Gas Measure: Range Electric Range Electric Range Number

Allowance: \$80

Gas Utility: Chattanooga Utilities Corporation

	\$
1 Avoided Water Removal Cost	\$0
2 Avoided CUI & Cap Cost	0
Total Costs	\$0

II. Operating Data
 1 Energy Factor

Therms Consumed	Winter	Summer	Total
2 Standard Rate	16.0	16.0	32.0
3 Seasonal Rate			0.0
Total	16.0	16.0	32.0

Gas Rates	Rate
6 Base, Winter	\$0.43126
7 Base, Summer	\$0.43126
8 Seasonal, Winter	
9 Seasonal, Summer	
10 PCA, Winter	0.38977
11 PCA, Summer	0.38977
12 Taxes & Fees	13.67%
13 Customer Chg	\$6.50
14 Ratio of Therms Consumed to Total	7.57%
15 Average Life	19
III Common Gas & Electric Data	
1 Discount Rate	6.55%

Alabama System: Range Electric
 Gas Fuel Type: Electric
 Electric Utility: Tampa Electric
 IV New Customer Installation Costs

	\$
1 Supply Main	0
2 Development Main	0
3 Service	364
4 Meter	205
Total Cost	\$569
5 Utility Allowance	\$50
6 Program Cost	\$56
7 New Customer Admin Cost (known)	\$4
8 Main O&M (Percent)	2.04%

V Gas Supply Cost	Gas Supply Cost \$/Therm
1 Load Profile Type	
2 Commodity (Annual)	\$0.2250
3 Winter Multiplier	1.33
4 Summer Multiplier	1.00
5 Transportation, Capacity, Peaking and Balancing Cost	0.04175

System Savings

VI Therms Conserved	New	Existing
1 Energy Factor	0.90	86
2 Annual Gas Therms	0.0	0.0
VII Therms Dispatched		1.00
1 Energy Factor		

Therms Dispatched	Winter	Summer	Total
2 Standard Rate	0.00	0.00	0.00
Total	0.00	0.00	0.00

VIII Therms Per Hour @ Utility Receipt Point	Winter	Summer	Total
1 Consumed	0.06	0.06	0.12
2 Consumed New			
3 Consumed Existing			
4 Dispatched			

Rate Impact Measure Test Data

Range

	Consumed Conserved Displaced Gas Therms Table 1	Gas Customer Charge Table 2	Meter & Service Line Removal Table 3	Total Columns 2 thru 4	Carrying Chg. On Main, Svc. & Meter Table 3	New Customer Admin. & Main O&M Table 4	Gas Supply Cost Table 5	Other Cost	Program & Allowance Cost	Total Columns 6 thru 10	
	1	2	3	4	5	6	7	8	9	10	11
1998	\$26	\$6	\$0	\$32	\$3	\$4	\$10	\$0	\$106	\$123	
1999	\$27	\$6	\$0	\$33	\$3	\$4	\$10	\$0		\$17	
2000	\$28	\$6	\$0	\$34	\$3	\$4	\$10	\$0		\$18	
2001	\$29	\$6	\$0	\$35	\$3	\$4	\$11	\$0		\$18	
2002	\$30	\$7	\$0	\$37	\$3	\$4	\$11	\$0		\$18	
2003	\$30	\$7	\$0	\$37	\$3	\$4	\$11	\$0		\$19	
2004	\$31	\$7	\$0	\$38	\$3	\$5	\$12	\$0		\$19	
2005	\$32	\$7	\$0	\$39	\$3	\$5	\$12	\$0		\$19	
2006	\$33	\$7	\$0	\$40	\$2	\$5	\$12	\$0		\$20	
2007	\$34	\$8	\$0	\$42	\$2	\$5	\$13	\$0		\$20	
2008	\$35	\$8	\$0	\$43	\$2	\$5	\$13	\$0		\$21	
2009	\$36	\$8	\$0	\$44	\$2	\$5	\$13	\$0		\$21	
2010	\$37	\$8	\$0	\$45	\$2	\$6	\$14	\$0		\$21	
2011	\$39	\$9	\$0	\$48	\$2	\$6	\$14	\$0		\$22	
2012	\$40	\$9	\$0	\$49	\$2	\$6	\$15	\$0		\$22	
2013	\$41	\$9	\$0	\$50	\$2	\$6	\$15	\$0		\$23	
2014	\$42	\$9	\$0	\$51	\$2	\$6	\$16	\$0		\$23	
2015	\$43	\$10	\$0	\$53	\$1	\$6	\$16	\$0		\$24	
2016	\$45	\$10	\$0	\$55	\$1	\$7	\$17	\$0		\$24	
2017	\$46	\$10	\$0	\$56	\$1	\$7	\$17	\$0		\$25	

Present Value
Of Benefits \$360Present Value
Of Costs \$274Benefit/Cost
Ratio

1.32

Table 1

Year	Thruway	Route Miles	ADL Miles	Total Miles	Thruway %
1988	12	62,537.8	62,537.7	62,537.3	100%
1989	12	62,442.0	62,441.9	62,441.8	100%
1990	12	62,471.2	62,471.1	62,471.0	100%
1991	12	62,465.0	62,464.9	62,464.8	100%
1992	12	62,468.0	62,467.9	62,467.8	100%
1993	12	62,461.0	62,460.9	62,460.8	100%
1994	12	62,448.0	62,447.9	62,447.8	100%
1995	12	62,430.0	62,429.9	62,429.8	100%
1996	12	62,440.0	62,439.9	62,439.8	100%
1997	12	62,427.0	62,426.9	62,426.8	100%
1998	12	62,418.0	62,417.9	62,417.8	100%
1999	12	62,408.0	62,407.9	62,407.8	100%
2000	12	62,400.0	62,399.9	62,399.8	100%
2001	12	62,392.0	62,391.9	62,391.8	100%
2002	12	62,384.0	62,383.9	62,383.8	100%
2003	12	62,376.0	62,375.9	62,375.8	100%
2004	12	62,368.0	62,367.9	62,367.8	100%
2005	12	62,360.0	62,359.9	62,359.8	100%
2006	12	62,352.0	62,351.9	62,351.8	100%
2007	12	62,344.0	62,343.9	62,343.8	100%
2008	12	62,336.0	62,335.9	62,335.8	100%
2009	12	62,328.0	62,327.9	62,327.8	100%
2010	12	62,320.0	62,319.9	62,319.8	100%
2011	12	62,312.0	62,311.9	62,311.8	100%
2012	12	62,304.0	62,303.9	62,303.8	100%
2013	12	62,296.0	62,295.9	62,295.8	100%
2014	12	62,288.0	62,287.9	62,287.8	100%
2015	12	62,280.0	62,279.9	62,279.8	100%
2016	12	62,272.0	62,271.9	62,271.8	100%
2017	12	62,264.0	62,263.9	62,263.8	100%

Range

Table 3

Year	Thruway	Volume	ADL	Total	Thruway %	New Customers	Any Card	Customer	Carrying Chg
1988	12	16	16	16	100%	16	16	16	16
1989	12	16	16	16	100%	16	16	16	16
1990	12	16	16	16	100%	16	16	16	16
1991	12	16	16	16	100%	16	16	16	16
1992	12	16	16	16	100%	16	16	16	16
1993	12	16	16	16	100%	16	16	16	16
1994	12	16	16	16	100%	16	16	16	16
1995	12	16	16	16	100%	16	16	16	16
1996	12	16	16	16	100%	16	16	16	16
1997	12	16	16	16	100%	16	16	16	16
1998	12	16	16	16	100%	16	16	16	16
1999	12	16	16	16	100%	16	16	16	16
2000	12	16	16	16	100%	16	16	16	16
2001	12	16	16	16	100%	16	16	16	16
2002	12	16	16	16	100%	16	16	16	16
2003	12	16	16	16	100%	16	16	16	16
2004	12	16	16	16	100%	16	16	16	16
2005	12	16	16	16	100%	16	16	16	16
2006	12	16	16	16	100%	16	16	16	16
2007	12	16	16	16	100%	16	16	16	16
2008	12	16	16	16	100%	16	16	16	16
2009	12	16	16	16	100%	16	16	16	16
2010	12	16	16	16	100%	16	16	16	16
2011	12	16	16	16	100%	16	16	16	16
2012	12	16	16	16	100%	16	16	16	16
2013	12	16	16	16	100%	16	16	16	16
2014	12	16	16	16	100%	16	16	16	16
2015	12	16	16	16	100%	16	16	16	16
2016	12	16	16	16	100%	16	16	16	16
2017	12	16	16	16	100%	16	16	16	16

Range

Table 2

Year	Customer	Annual	Ratio of Thruway	% of Annual
1988	6.50	6.50	7.57%	64
1989	6.80	6.80	7.57%	64
1990	7.10	7.10	7.57%	64
1991	7.40	7.40	7.57%	64
1992	7.70	7.70	7.57%	64
1993	8.00	8.00	7.57%	64
1994	8.30	8.30	7.57%	64
1995	8.60	8.60	7.57%	64
1996	8.90	8.90	7.57%	64
1997	9.20	9.20	7.57%	64
1998	9.50	9.50	7.57%	64
1999	9.80	9.80	7.57%	64
2000	10.10	10.10	7.57%	64
2001	10.40	10.40	7.57%	64
2002	10.70	10.70	7.57%	64
2003	11.00	11.00	7.57%	64
2004	11.30	11.30	7.57%	64
2005	11.60	11.60	7.57%	64
2006	11.90	11.90	7.57%	64
2007	12.20	12.20	7.57%	64
2008	12.50	12.50	7.57%	64
2009	12.80	12.80	7.57%	64
2010	13.10	13.10	7.57%	64
2011	13.40	13.40	7.57%	64
2012	13.70	13.70	7.57%	64
2013	14.00	14.00	7.57%	64
2014	14.30	14.30	7.57%	64
2015	14.60	14.60	7.57%	64
2016	14.90	14.90	7.57%	64
2017	15.20	15.20	7.57%	64

Range

Table 4

Year	Card	Adm. Cost	Annual	Ratio of Thruway	% of Annual
1988	54	54	7.57%	54	
1989	54	54	7.57%	54	
1990	54	54	7.57%	54	
1991	54	54	7.57%	54	
1992	54	54	7.57%	54	
1993	54	54	7.57%	54	
1994	54	54	7.57%	54	
1995	54	54	7.57%	54	
1996	54	54	7.57%	54	
1997	54	54	7.57%	54	
1998	54	54	7.57%	54	
1999	54	54	7.57%	54	
2000	54	54	7.57%	54	
2001	54	54	7.57%	54	
2002	54	54	7.57%	54	
2003	54	54	7.57%	54	
2004	54	54	7.57%	54	
2005	54	54	7.57%	54	
2006	54	54	7.57%	54	
2007	54	54	7.57%	54	
2008	54	54	7.57%	54	
2009	54	54	7.57%	54	
2010	54	54	7.57%	54	
2011	54	54	7.57%	54	
2012	54	54	7.57%	54	
2013	54	54	7.57%	54	
2014	54	54	7.57%	54	
2015	54	54	7.57%	54	
2016	54	54	7.57%	54	
2017	54	54	7.57%	54	

Range

Table 5

Year	Thruway	Volume	Customer	Community Fee	Thruway Capacity	Volume	Cost	Carrying Chg
1988	12	16	16	0.1250	0.2418	1.33	1.33	1.33
1989	12	16	16	0.1250	0.2418	1.33	1.33	1.33
1990	12	16	16	0.1250	0.2418	1.33	1.33	1.33
1991	12	16	16	0.1250	0.2418	1.33	1.33	1.33
1992	12	16	16	0.1250	0.2418	1.33	1.33	1.33
1993	12	16	16	0.1250	0.2418	1.33	1.33	1.33
1994	12	16	16	0.1250	0.2418	1.33	1.33	1.33
1995	12	16	16	0.1250	0.2418	1.33	1.33	1.33
1996	12	16	16	0.1250	0.2418	1.33	1.33	1.33
1997	12	16	16	0.1250	0.2418	1.33	1.33	1.33
1998	12	16	16	0.1250	0.2418	1.33	1.33	1.33
1999	12	16	16	0.1250	0.2418	1.33	1.33	1.33
2000	12	16	16	0.1250	0.2418	1.33	1.33	1.33
2001	12	16	16	0.1250	0.2418	1.33	1.33	1.33
2002	12	16	16	0.1250	0.2418	1.33	1.33	1.33
2003	12	16	16	0.1250	0.2418	1.33	1.33	1.33
2004	12	16	16	0.1250	0.2418	1.33	1.33	1.33
2005	12	16	16	0.1250	0.2418	1.33	1.33	1.33
2006	12	16	16	0.1250	0.2418	1.33	1.33	1.33
2007	12	16	16	0.1250	0.2418	1.33	1.33	1.33
2008	12	16	16	0.1250	0.2418	1.33	1.33	1.33
2009	12	16	16	0.1250	0.2418	1.33	1.33	1.33
2010	12	16	16	0.1250	0.2418	1.33	1.33	1.33
2011	12	16	16	0.1250	0.2418	1.33	1.33	1.33
2012	12	16	16	0.1250	0.2418	1.33	1.33	1.33
2013	12	16	16	0.1250	0.2418	1.33	1.33	1.33
2014	12	16	16	0.1250	0.2418	1.33	1.33	1.33
2015	12	16	16	0.1250	0.2418	1.33	1.33	1.33
2016	12	16	16	0.1250	0.2418	1.33	1.33	1.33
2017	12	16	16	0.1250	0.2418	1.33	1.33	1.33

Range

Rate Impact Measure Test Data

AI Code n: 1998 gblms Analysis Start Year: 1998 Number of Years: 20 Electric Rate Number

Gas Program: Residential Program Gas Rate Number: Gas Utility: Chesapeake Utilities Corporation

Gas Meters: Water Meter: 48 gblms Abatement System: Electric Resistance Water Heater 68 gblms

Abatement: \$278 Distribution Program: Gas Fuel Type: Electric New Customer Installation Costs

Gas Utility: Chesapeake Utilities Corporation Electric Utility: Tampa Electric Co.

1	Avoided Water Removal Cost	\$0
2	Avoided O&M & Cap Cost	0
	Total Costs	\$0

II	Operating Data	
1	Energy Factor	0.56

Therms Consumed	Winter	Summer	Total	
2	Standard Rate	101.0	67.0	168.0
3	Seasonal Rate			0.0
	Total	101.0	67.0	168.0

Gas Rates		Rate
6	Base, Winter	\$0.43126
7	Base, Summer	\$0.43126
8	Seasonal, Winter	
9	Seasonal, Summer	
10	PGA, Winter	0.36877
11	PGA, Summer	0.36877

13	Customer Chg	\$6.50
14	Ratio of Therms Consumed to Total	39.72%

15	Average Life	12
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III	Common Gas & Electric Data	
1	Discount Rate	8.00%

I	Supply Main	25
2	Development Main	114
3	Service	384
4	Water	205
	Total Cost	\$728
5	Utility Allowance	\$275
6	Program Cost	\$56
7	New Customer Admin Cost \$4/month	\$4
8	Main O&M (Percent)	2.04%

IX	Gas Supply Cost	
1	Load Profile Type	
2	Commodity (Ayrms)	\$0.2250
3	Winter Multiplier	1.33
4	Summer Multiplier	1.00
5	Transportation, Capacity, Peaking and Balancing Cost	0.04175

System Straggles			
VI Therms Consumed			
1	Energy Factor	New	Existing
2	Annual Gas Therms	0.68	68
		0.0	0.0

VII Therms Dispatched		Winter	Summer	Total
1	Energy Factor	0.00	0.00	0.00
2	Standard Rate	0.00	0.00	0.00

VIII Therms Per Hour @ Utility Receipt Point				
	Winter	Summer	Total	
1	Consumed	0.07671	0.07671	0.15342
2	Consumed New			
3	Consumed Existing			
4	Dispatched			

Rate Impact Measure Test Data

	Consumed Conserved Displaced Gas Therms	Gas Customer Charge	Total Columns 2 thru 3	Carrying Chg. On Main, Svc. & Meter	New Customer Admin. & Facilities O&M	Gas Supply Cost	Program & Allowance Cost	Water Total Columns 5 thru 8
	Table 1	Table 2		Table 3	Table 4	Table 5		
1	2	3	4	5	6	7	8	9
	\$	\$	\$	\$	\$	\$	\$	\$
1	138	31	169	22	21	52	331	427
2	142	32	174	21	22	54		97
3	146	33	179	20	23	56		99
4	151	34	185	20	23	57		100
5	155	35	190	19	24	59		102
6	160	36	196	18	25	61		103
7	165	37	202	17	25	62		105
8	170	38	208	16	26	64		107
9	175	39	214	16	27	66		109
10	180	40	220	15	27	68		111
11	185	42	227	14	28	70		113
12	191	43	234	13	29	72		115
13	197	44	241	13	30	75		117
14	203	45	248	12	31	77		119
15	209	47	256	11	32	79		122
16	215	48	263	10	32	82		124
17	221	50	271	9	33	84		127
18	228	51	279	9	34	87		129
19	235	53	288	8	35	89		132
20	242	54	296	7	36	92		135

Present Value
of Benefits \$1,963

Present Value
of Costs \$1,313

Benefit/Cost
Ratio

1.50

Rate Impact Measure Test Data

All Costs in 1998 dollars Analysis Start Year: 1998 Number of Years: 20

Gas Program: Residential Program Gas Rate Number

Gas Blower: Furnace Distribution Program

Allowance: \$275

Gas Utility: Chesapeake Utilities Corporation

Electric Utility: Tampa Electric

Electric Utility: Tampa Electric

1. Avoided Meter Removal Cost \$0

2. Avoided O&M & Cap Cost 0

Total Costs \$0

Operating Data

1. Energy Factor

Therms Consumed	Winter	Summer	Total
2. Standard Rate	177.0	0.0	177.0
3. Seasonal Rate			0.0
Total	177.0	0.0	177.0

Gas Rates

	Rate
5. Base, Winter	\$0.43126
7. Base, Summer	\$0.43126
8. Seasonal, Winter	
9. Seasonal, Summer	
10. POA, Winter	0.28977
11. POA, Summer	0.28977

13. Customer Chg \$6.50

14. Ratio of Therms Consumed to Total 41.84%

15. Average Life 19

B. Common Gas & Electric Data

1. Discount Rate 8.65%

Electric Rate Number

Electric Resistance Furnace

Alt FuelType: Electric

Electric Utility: Tampa Electric

Y. New Customer Installation Costs

1. Supply Main	35
2. Development Main	114
3. Service	284
4. Meter	205
Total Cost	\$728

5. Utility Allowance

6. Program Cost

7. New Customer Admin. Cost \$/month

8. Main O&M (Percent)

9. Gas Supply Cost

1. Load Profile Type

	Gas Supply Cost \$/Therm
2. Commodity (Annual)	\$0.2250
3. Winter Multiplier	1.33
4. Summer Multiplier	1.00
5. Transportation, Capacity, Peaking and Balancing Cost	0.04175

System Shortage

W. Therms Consumed

	Winter	Summer	Total
1. Energy Factor	1.00	1	
2. Annual Gas Therms	0.0	0.0	

VII. Therms Displaced

1. Energy Factor

Therms Displaced	Winter	Summer	Total
2. Standard Rate	0.00	0.00	0.00
Total	0.00	0.00	0.00

VII. Therms Per Hour @ Utility Receipt Point

Therms per hour	Winter	Summer	Total
1. Consumed	0.07671	0.07671	0.15342
2. Consumed New			
3. Consumed Existing			
4. Displaced			

Rate Impact Measure Test Data

Heating

	Consumed Conserved Displaced Gas Therms	Gas Customer Charge	Total Columns 2 thru 3	Carrying Chg. On Main, Svc. & Meter	New Customer Admin. & Facilities O&M	Gas Supply Cost	Program & Allowance Cost	Total Columns 6 thru 9
	Table 1	Table 2		Table 3	Table 4	Table 5		
1	2	3	4	5	6	7	8	9
	\$	\$	\$	\$	\$	\$	\$	\$
1	145	33	178	23	23	60	331	437
2	150	34	184	22	23	62		108
3	154	35	189	21	24	64		109
4	159	36	195	21	24	66		111
5	164	37	201	20	25	68		113
6	168	38	206	19	26	70		115
7	174	39	213	18	26	72		117
8	179	40	219	17	27	74		119
9	184	41	225	16	28	77		121
10	190	43	233	16	29	79		123
11	195	44	239	15	30	81		125
12	201	45	246	14	30	84		128
13	207	47	254	13	31	86		130
14	213	48	261	12	32	89		133
15	220	49	269	12	33	91		136
16	226	51	277	11	33	94		138
17	233	52	285	10	35	97		142
18	240	54	294	9	36	100		145
19	247	56	303	8	37	103		148
20	255	57	312	7	38	106		151

Present Value
of Benefits \$2,067Present Value
of Costs \$1,426Benefit/Cost
Ratio 1.45

Table 1

Year	Thruway	Home Value	PGA Value	Year Value	Thruway %
1	177	81,171.28	81,282.77	162,454.05	100
2	177	81,427.42	81,473.84	162,901.26	100
3	177	81,683.56	81,729.98	163,413.54	100
4	177	81,939.70	81,986.12	163,925.82	100
5	177	82,195.84	82,242.26	164,438.10	100
6	177	82,451.98	82,498.40	164,950.38	100
7	177	82,708.12	82,754.54	165,462.66	100
8	177	82,964.26	83,010.68	165,974.94	100
9	177	83,220.40	83,266.82	166,487.22	100
10	177	83,476.54	83,522.96	167,000.50	100
11	177	83,732.68	83,779.10	167,513.78	100
12	177	83,988.82	84,035.24	168,027.06	100
13	177	84,244.96	84,291.38	168,540.34	100
14	177	84,501.10	84,547.52	169,053.62	100
15	177	84,757.24	84,803.66	169,566.90	100
16	177	85,013.38	85,059.80	170,080.18	100
17	177	85,269.52	85,315.94	170,593.46	100
18	177	85,525.66	85,572.08	171,106.74	100
19	177	85,781.80	85,828.22	171,620.02	100
20	177	86,037.94	86,084.36	172,133.30	100

Table 2

Year	Customer	Cost Chg	Rate of Return	Rate of Return
1	8.75	81.34	41.50%	534
2	8.80	82.70	41.50%	530
3	7.10	82.23	41.50%	528
4	7.32	87.79	41.50%	527
5	7.54	82.42	41.50%	528
6	7.76	83.14	41.50%	528
7	7.98	83.83	41.50%	528
8	8.23	88.37	41.50%	528
9	8.48	107.77	41.50%	528
10	8.74	108.83	41.50%	528
11	8.99	111.27	41.50%	527
12	9.24	114.80	41.50%	527
13	9.49	117.88	41.50%	527
14	9.74	121.82	41.50%	527
15	10.00	125.17	41.50%	527
16	10.25	128.82	41.50%	527
17	10.50	132.79	41.50%	527
18	10.75	137.17	41.50%	527
19	11.00	141.97	41.50%	527
20	11.25	147.17	41.50%	527

Table 3

Year	Rate of Return	Development	Revenue	Rate of Return	Rate of Return	Rate of Return	Rate of Return	Rate of Return	Rate of Return
1	20	114	304	41.50%	527	7.57%	752	41.50%	527
2	24	149	371	41.50%	487	7.57%	678	41.50%	527
3	23	142	358	41.50%	488	7.57%	679	41.50%	527
4	22	137	345	41.50%	489	7.57%	680	41.50%	527
5	21	132	332	41.50%	490	7.57%	681	41.50%	527
6	20	127	319	41.50%	491	7.57%	682	41.50%	527
7	19	122	306	41.50%	492	7.57%	683	41.50%	527
8	18	117	293	41.50%	493	7.57%	684	41.50%	527
9	17	112	280	41.50%	494	7.57%	685	41.50%	527
10	16	107	267	41.50%	495	7.57%	686	41.50%	527
11	15	102	254	41.50%	496	7.57%	687	41.50%	527
12	14	97	241	41.50%	497	7.57%	688	41.50%	527
13	13	92	228	41.50%	498	7.57%	689	41.50%	527
14	12	87	215	41.50%	499	7.57%	690	41.50%	527
15	11	82	202	41.50%	500	7.57%	691	41.50%	527
16	10	77	189	41.50%	501	7.57%	692	41.50%	527
17	9	72	176	41.50%	502	7.57%	693	41.50%	527
18	8	67	163	41.50%	503	7.57%	694	41.50%	527
19	7	62	150	41.50%	504	7.57%	695	41.50%	527
20	6	57	137	41.50%	505	7.57%	696	41.50%	527

Table 4

Year	Cost	Rate of Return	Development	Revenue	Rate of Return	Rate of Return	Rate of Return	Rate of Return	Rate of Return
1	81	114	114	24	114	2.50%	41.50%	2.50%	23
2	83	116	116	24	116	2.50%	41.50%	2.50%	23
3	85	118	118	24	118	2.50%	41.50%	2.50%	23
4	87	120	120	24	120	2.50%	41.50%	2.50%	23
5	89	122	122	24	122	2.50%	41.50%	2.50%	23
6	91	124	124	24	124	2.50%	41.50%	2.50%	23
7	93	126	126	24	126	2.50%	41.50%	2.50%	23
8	95	128	128	24	128	2.50%	41.50%	2.50%	23
9	97	130	130	24	130	2.50%	41.50%	2.50%	23
10	99	132	132	24	132	2.50%	41.50%	2.50%	23
11	101	134	134	24	134	2.50%	41.50%	2.50%	23
12	103	136	136	24	136	2.50%	41.50%	2.50%	23
13	105	138	138	24	138	2.50%	41.50%	2.50%	23
14	107	140	140	24	140	2.50%	41.50%	2.50%	23
15	109	142	142	24	142	2.50%	41.50%	2.50%	23
16	111	144	144	24	144	2.50%	41.50%	2.50%	23
17	113	146	146	24	146	2.50%	41.50%	2.50%	23
18	115	148	148	24	148	2.50%	41.50%	2.50%	23
19	117	150	150	24	150	2.50%	41.50%	2.50%	23
20	119	152	152	24	152	2.50%	41.50%	2.50%	23

Table 5

Year	Thruway	Rate of Return	Development	Revenue	Rate of Return	Rate of Return	Rate of Return	Rate of Return	Rate of Return
1	177	177	8	8,208	8,208	8,208	1.33	82	82
2	177	177	8	8,208	8,208	8,208	1.33	82	82
3	177	177	8	8,208	8,208	8,208	1.33	82	82
4	177	177	8	8,208	8,208	8,208	1.33	82	82
5	177	177	8	8,208	8,208	8,208	1.33	82	82
6	177	177	8	8,208	8,208	8,208	1.33	82	82
7	177	177	8	8,208	8,208	8,208	1.33	82	82
8	177	177	8	8,208	8,208	8,208	1.33	82	82
9	177	177	8	8,208	8,208	8,208	1.33	82	82
10	177	177	8	8,208	8,208	8,208	1.33	82	82
11	177	177	8	8,208	8,208	8,208	1.33	82	82
12	177	177	8	8,208	8,208	8,208	1.33	82	82
13	177	177	8	8,208	8,208	8,208	1.33	82	82
14	177	177	8	8,208	8,208	8,208	1.33	82	82
15	177	177	8	8,208	8,208	8,208	1.33	82	82
16	177	177	8	8,208	8,208	8,208	1.33	82	82
17	177	177	8	8,208	8,208	8,208	1.33	82	82
18	177	177	8	8,208	8,208	8,208	1.33	82	82
19	177	177	8	8,208	8,208	8,208	1.33	82	82
20	177	177	8	8,208	8,208	8,208	1.33	82	82

Rate Impact Measure Test Data

All Costs in 1998 dollars Analysis Start Year 1998 Number of Years 20

Gas Program: Residential Program Gas Rate Number

Gas Measure: Dryer

Electric Rate Number

Alternate Option: Dryer Electric

Alt Fuel Type:

Attendance: \$75
 Gas Utility: Chesapeake Utilities Corporation

- 1. Avoided Water Removal Cost \$0
- 2. Avoided Ctl & Cap Cost 0

Total Costs \$0

Operating Data

- 1. Energy Factor

Therms Consumed	Winter	Summer	Total
2. Standard Rate	23.0	23.0	46.0
3. Seasonal Rate			0.0
Total	23.0	23.0	46.0

Gas Rates	Rate
6. Base, Winter	\$0.43126
7. Base, Summer	\$0.43126
8. Seasonal, Winter	
9. Seasonal, Summer	
10. PGA, Winter	0.36977
11. PGA, Summer	0.36977

13. Customer Chg \$6.50

14. Ratio of Therms Consumed to Total 10.87%

15. Average Life 13

II. Common Gas & Electric Data

1. Discount Rate 8.65%

Electric Utility: Tampa Electric
 IV. New Customer Installation Costs

- 1. Supply Main 25
- 2. Development Main 114
- 3. Service 384
- 4. Meter 205
- Total Cost Cost \$728

- 5. Utility Allowance \$75
- 6. Program Cost \$56
- 7. New Customer Adm. Cost \$4
- 8. Main O&M (Percent) 2.04%

V. Gas Supply Cost

- 1. Load Profile Type Gas Supply Cost \$/Therm
- 2. Commodity (Normal) \$0.2250
- 3. Winter Multiplier 1.33
- 4. Summer Multiplier 1.00
- 5. Transportation, Capacity, Peaking and Stacking Cost 0.04175

System Shortage

VI. Therms Conserved

	Winter	Summer	Total
1. Energy Factor	1.00	1.00	
2. Annual Gas Therms	0.0	0.0	
VI. Therms Displaced			1.00
1. Energy Factor			1.00

Therms Displaced	Winter	Summer	Total
2. Standard Rate	0.00	0.00	0.00
Total	0.00	0.00	0.00

VII. Therms Per Hour Utility Receipt Point

Therms per Hour	Winter	Summer	Total
1. Consumed	0.07671	0.07671	0.15342
2. Consumed New			
3. Consumed Existing			
4. Displaced			

Rate Impact Measure Test Data

Dryer

	Consumed Conserved Displaced Gas Therms	Gas Customer Charge	Total Columns 2 thru 3	Carrying Chg. On Main, Svc. & Meter	New Customer Admin. & Facilities O&M	Gas Supply Cost	Program & Allowance Cost	Total Columns 6 thru 9
	Table 1	Table 2		Table 3	Table 4	Table 5		
1	2	3	4	5	6	7	8	9
	\$	\$	\$	\$	\$	\$	\$	\$
1	38	8	46	6	6	14	131	157
2	39	9	48	6	6	14		26
3	40	9	49	6	6	15		27
4	41	9	50	5	6	15		27
5	43	10	53	5	7	16		27
6	44	10	54	5	7	16		28
7	45	10	55	5	7	17		28
8	46	10	56	4	7	17		29
9	48	11	59	4	7	18		29
10	49	11	60	4	7	18		30
11	51	11	62	4	8	19		30
12	52	12	64	4	8	19		31
13	54	12	66	3	8	20		31
14	55	12	67	3	8	21		32
15	57	13	70	3	9	21		33
16	59	13	72	3	9	22		33
17	61	14	75	3	9	22		34
18	62	14	76	2	9	23		35
19	64	14	78	2	10	24		36
20	66	15	81	2	10	25		36

Present Value
of Benefits \$537

Present Value
of Costs \$393

Benefit/Cost
Ratio

1.37

Rate Impact Measure Test Data

All Costs in 1998 dollars

Analysis Start Year 1998

Number of Years 20

Gas Program: Residential Program

Electric Rate Number

Gas Measure: Range

Electric Rate Number

Admission: \$75

Gas Utility: Chesapeake Utilities Corporation

Electric Utility: Tampa Electric

1. Avoided Water Removal Cost \$0

2. Avoided Cut & Cap Cost 0

Total Costs \$0

Operating Data

1. Energy Factor

Therms Consumed	Winter	Summer	Total
2. Standard Rate	18.0	18.0	36.0
3. Seasonal Rate	18.0	18.0	36.0
Total	18.0	18.0	36.0

Gas Rates

	Rate
6. Base, Winter	\$0.43128
7. Base, Summer	\$0.43128
8. Seasonal, Winter	
9. Seasonal, Summer	0.28877
10. PGA, Winter	0.28877
11. PGA, Summer	

13. Customer Ctg \$6.50

14. Ratio of Therms Consumed to Total 7.57%

15. Average Life 19

III. Common Gas & Electric Data

1. Discount Rate 8.65%

IV. New Customer Installation Costs

	\$
1. Supply Main	25
2. Development Main	114
3. Service	364
4. Meter	205
Total Cost Cost	\$728

V. Utility Allowance

6. Program Cost	\$59
7. New Customer Admin. Cost \$month	\$4
8. Main O&M (Percent)	2.04%

VI. Gas Supply Cost

	Gas Supply Cost \$/Therm
1. Load Profile Type	
2. Commodity (Annual)	\$0.2250
3. Winter Multiplier	1.23
4. Summer Multiplier	1.00
5. Transportation, Capacity, Peaking and Balancing Cost	0.04175

System Shortage

VII. Therms Conserved

	New	Existing
1. Energy Factor	1.00	1.00
2. Annual Gas Therms	0.0	0.0

VIII. Therms Displaced

	Winter	Summer	Total
1. Energy Factor	1.00	1.00	
2. Standard Rate	0.00	0.00	0.00
Total	0.00	0.00	0.00

VIII. Therms Per Hour @ Utility Receipt Point

Therms per Hour	Winter	Summer	Total
1. Consumed	0.07671	0.07671	0.15342
2. Consumed New			
3. Consumed Existing			
4. Displaced			

Rate Impact Measure Test Data

Range

	Consumed Conserved Displaced Gas Therms Table 1	Gas Customer Charge Table 2	Total Columns 2 thru 3 4	Carrying Chg. On Main, Svc. & Meter Table 3	New Customer Admin. & Facilities O&M Table 4	Gas Supply Cost Table 5	Program & Allowance Cost 8	Total Columns 6 thru 9 9
1	2	3	4	5	6	7	8	9
	\$	\$	\$	\$	\$	\$	\$	\$
1	26	6	32	\$4	4	10	131	149
2	27	6	33	\$4	4	10		18
3	28	6	34	\$4	4	10		19
4	29	6	35	\$4	4	11		19
5	30	7	37	\$4	5	11		20
6	30	7	37	\$3	5	11		19
7	31	7	38	\$3	5	12		19
8	32	7	39	\$3	5	12		20
9	33	7	40	\$3	5	12		20
10	34	8	42	\$3	5	13		21
11	35	8	43	\$3	5	13		21
12	36	8	44	\$3	5	13		22
13	37	8	45	\$2	6	14		22
14	39	9	48	\$2	6	14		22
15	40	9	49	\$2	6	15		23
16	41	9	50	\$2	6	15		23
17	42	9	51	\$2	6	16		24
18	43	10	53	\$2	7	16		25
19	45	10	55	\$1	7	17		24
20	46	10	56	\$1	7	17		25

Present Value
of Benefits \$372Present Value
of Costs \$310Benefit/Cost
Ratio 1.20

Table 1

Year	Thinning	Mean Value	PdA Ratio	100% Ratio	Thinning %
1	32	80 42128	80 30877	80 27151	828
2	32	80 64428	80 49146	80 50458	827
3	32	80 50752	80 41230	80 41230	828
4	32	80 47728	80 42381	80 42381	829
5	32	80 46238	80 42381	80 42381	829
6	32	80 49880	80 49146	80 49146	829
7	32	80 51490	80 49146	80 49146	829
8	32	80 52040	80 49146	80 49146	828
9	32	80 54670	80 52040	80 52040	828
10	32	80 52040	80 52040	80 52040	828
11	32	80 57958	80 50988	80 50988	828
12	32	80 61427	80 52040	80 52040	827
13	32	80 60332	80 50988	80 50988	828
14	32	80 61427	80 50988	80 50988	828
15	32	80 61427	80 50988	80 50988	828
16	32	80 67188	80 67188	80 67188	841
17	32	80 68200	80 68200	80 68200	842
18	32	80 72418	80 72418	80 72418	843
19	32	80 72418	80 72418	80 72418	843
20	32	80 79422	80 88248	81 02888	848

Range

Table 2

Year	Customer	Account	Rate of Thinning	Rate of Annual
1	6.50	81.50	7.57%	473
2	6.50	81.50	7.57%	48
3	6.50	81.50	7.57%	48
4	6.50	81.50	7.57%	48
5	7.22	81.72	7.57%	47
6	7.54	82.42	7.57%	47
7	7.54	82.42	7.57%	47
8	7.54	82.42	7.57%	47
9	8.23	83.11	7.57%	47
10	8.46	83.34	7.57%	48
11	8.46	83.34	7.57%	48
12	8.00	81.21	7.57%	48
13	8.23	81.21	7.57%	48
14	8.55	81.21	7.57%	48
15	8.55	81.21	7.57%	48
16	8.23	81.21	7.57%	48
17	8.23	81.21	7.57%	48
18	8.23	81.21	7.57%	48
19	8.23	81.21	7.57%	48
20	11.49	128.72	7.57%	419

Range

Table 4

Year	Ado	Annual	Thinning	Steady	Customer	Rate Thinning %	Year Customer
1	4	51	114	35	139	7.57%	84
2	4	52	120	35	139	7.57%	84
3	4	52	120	35	139	7.57%	84
4	4	52	120	35	139	7.57%	84
5	4	52	120	35	139	7.57%	84
6	4	52	120	35	139	7.57%	84
7	4	52	120	35	139	7.57%	84
8	4	52	120	35	139	7.57%	84
9	4	52	120	35	139	7.57%	84
10	4	52	120	35	139	7.57%	84
11	4	52	120	35	139	7.57%	84
12	4	52	120	35	139	7.57%	84
13	4	52	120	35	139	7.57%	84
14	4	52	120	35	139	7.57%	84
15	4	52	120	35	139	7.57%	84
16	4	52	120	35	139	7.57%	84
17	4	52	120	35	139	7.57%	84
18	4	52	120	35	139	7.57%	84
19	4	52	120	35	139	7.57%	84
20	4	52	120	35	139	7.57%	84

Range

Table 5

Year	Volume	Volume	Volume	Community	Thinning	County	Volume
1	32	16	16	0.2256	0.4713	1.33	816
2	32	16	16	0.2214	0.4628	1.33	816
3	32	16	16	0.2287	0.4683	1.33	816
4	32	16	16	0.2458	0.4908	1.33	811
5	32	16	16	0.2533	0.4679	1.33	811
6	32	16	16	0.2689	0.4688	1.33	811
7	32	16	16	0.2786	0.4679	1.33	812
8	32	16	16	0.2841	0.4629	1.33	813
9	32	16	16	0.2924	0.4646	1.33	813
10	32	16	16	0.3024	0.4679	1.33	813
11	32	16	16	0.3115	0.4683	1.33	813
12	32	16	16	0.3209	0.4683	1.33	814
13	32	16	16	0.3404	0.4683	1.33	814
14	32	16	16	0.3508	0.4683	1.33	815
15	32	16	16	0.3611	0.4683	1.33	815
16	32	16	16	0.3717	0.4683	1.33	815
17	32	16	16	0.3824	0.4683	1.33	815
18	32	16	16	0.3931	0.4683	1.33	815
19	32	16	16	0.4038	0.4683	1.33	815
20	32	16	16	0.4145	0.4683	1.33	817

Range

Table 3

Year	Family	Development	Services	Water	Avg Cost	Customer	Rate	Carrying Chg
1	24	114	354	205	7.57%	728	7.57%	84
2	24	114	354	205	7.57%	728	7.57%	84
3	23	108	348	188	7.57%	679	7.57%	84
4	22	102	342	181	7.57%	630	7.57%	84
5	21	96	336	173	7.57%	581	7.57%	84
6	20	90	330	165	7.57%	532	7.57%	84
7	18	80	308	157	7.57%	508	7.57%	83
8	18	80	290	148	7.57%	472	7.57%	83
9	17	82	280	141	7.57%	436	7.57%	83
10	16	78	270	133	7.57%	400	7.57%	83
11	14	74	264	125	7.57%	364	7.57%	83
12	14	70	258	117	7.57%	328	7.57%	83
13	13	66	252	109	7.57%	292	7.57%	82
14	12	62	246	101	7.57%	256	7.57%	82
15	11	58	240	93	7.57%	220	7.57%	82
16	10	54	234	85	7.57%	184	7.57%	82
17	9	50	228	77	7.57%	148	7.57%	82
18	8	46	222	69	7.57%	112	7.57%	82
19	7	42	216	61	7.57%	76	7.57%	81
20	8	38	210	53	7.57%	40	7.57%	81

Range

Rate Impact Measure Test Data

All Costs in 1998 dollars Analysis Start Year: 1998 Number of Years: 20

Gas Program: Residential Water Heater
 Gas Meter: Water Heater 40 gallon
 Gas Rate Number: 60 gallon
 System Option: Electric Resistance Water Heats
 Fuel Type: Electric

Absorbance: \$150

Gas Utility: Chesapeake Utilities Corporation

1. Avoided Meter Removal Cost	5	
2. Avoided Cal & Cap Cost	35	
Total Costs	40	

Operating Data
 1. Energy Factor 0.56

Therms Consumed	Winter	Summer	Total
2. Standard Rate	101.0	87.0	188.0
3. Seasonal Rate			0.0
Total	101.0	87.0	188.0

Gas Rates

6. Base, Winter	\$0.43126
7. Base, Summer	\$0.43126
8. Seasonal, Winter	
9. Seasonal, Summer	0.28877
10. PQA, Winter	0.28877
11. PQA, Summer	

13. Customer Chg \$6.50
 14. Ratio of Therms Consumed to Total 26.72%

15. Average Life 12

III. Common Gas & Electric Data

1. Discount Rate 8.65%

IV. New Customer Installation Costs		
1. Supply Main	0	
2. Development Main	0	
3. Service	0	
4. Meter	0	
Total Cost Cost	\$0	

V. Utility Absorbance		
6. Program Cost	\$150	
7. New Customer Admin. Cost \$/month	\$19	
8. Main O&M (Percent)	\$0	
9. Main O&M (Percent)	2.04%	

VI. Gas Supply Cost		
1. Load Profile Type		
2. Commodity (Annual)	Gas Supply Cost \$/Therm	\$0.2250
3. Winter Multiplier		1.33
4. Summer Multiplier		1.00
5. Transportation, Capacity, Peaking and Balancing Cost		0.04175

VII. Therms Consumed	New	Existing
1. Energy Factor	0.56	0.8
2. Annual Gas Therms	0.0	0.0

VIII. Therms Displaced (out in VI.2)		
1. Energy Factor		1.00

Therms Displaced	Winter	Summer	Total
2. Standard Rate	0.00	0.00	0.00
Total	0.00	0.00	0.00

VIII. Therms Per Hour @ Utility Receipt Point

Therms per Hour	Winter	Summer	Total
1. Consumed	0.07871	0.07871	0.15742
2. Consumed New			
3. Consumed Existing			
4. Displaced			

Rate Impact Measure Test Data

1	Consumed Conserved Displaced Gas Therms Table 1	Gas Customer Charge Table 2	Avoid Meter Service Line Removal 4	Total Columns 2 thru 4 5	Carrying Chg. On Ma'n, Svc. & Meter Table 3	New Customer Admin. & Main O&M Table 4	Gas Supply Cost Table 5	Other Cost Table 6	Program & Allowance Cost Table 7	Total Columns 6 thru 10 10
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
1998	138	31	40	209	0	0	52	0	169	221
1999	142	32		174	0	0	54	0		54
2000	146	33		179	0	0	56	0		56
2001	151	34		185	0	0	57	0		57
2002	155	35		190	0	0	59	0		59
2003	160	36		196	0	0	61	0		61
2004	165	37		202	0	0	62	0		62
2005	170	38		208	0	0	64	0		64
2006	175	39		214	0	0	66	0		66
2007	180	40		220	0	0	68	0		68
2008	185	42		227	0	0	70	0		70
2009	191	43		234	0	0	72	0		72
2010	197	44		241	0	0	75	0		75
2011	203	45		248	0	0	77	0		77
2012	209	47		256	0	0	79	0		79
2013	215	48		263	0	0	82	0		82
2014	221	50		271	0	0	84	0		84
2015	228	51		279	0	0	87	0		87
2016	235	53		288	0	0	89	0		89
2017	242	54		296	0	0	92	0		92

Present Value
of Benefits \$2,000

Present Value
of Costs \$763

Benefit/Cost Ratio	2.62
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Rate Impact Measure Test Data

All Costs in 1996 dollars
Analysis Start Year: 1996
Number of Years: 20

Gas Program: Natural Gas Space Conditioning for Residential Homes
Gas Rate Number: 1996
Gas Metering: Triphasen/Equivalent Unit
Electric Rate Number: 1.5 Ton Heat Pump Electric

Absence: \$1200
Gas Utility: Chesapeake Utilities Corporation

Electric Utility: Tampa Electric
IV. New Customer Installation Costs

1. Avoided Meter Removal Cost		\$	25
2. Avoided Cut & Cap Cost			114
Total Costs			205
II. Operating Data			278
1. Energy Factor			1200
			56
			4
			2.04%

Therms Consumed	Winter	Summer	Total
2. Standard Rate	112	210	322
3. Seasonal Rate		579	579
Total	112	789	901

1. Supply Main		\$	25
2. Development Main			114
3. Service			205
4. Meter			278
Total Cost Cost			278
5. Utility Absence			1200
6. Program Cost			56
7. New Customer Admin. Cost \$/month			4
8. Main O&M (Percent)			2.04%

V. Gas Supply Cost			
1. Lead Pitches Type			
2. Commodity (Annual)		Gas Supply Cost \$/Therm	0.225041
3. Winter Multiplier			1.33
4. Summer Multiplier			1
5. Transportation, Capacity, Peaking and Balancing Cost			0.04175

VI. Therms Consumed				
1. Energy Factor		New	Existing	
2. Annual Gas Therms		0.9	.88	
VI. Therms Displaced				
1. Energy Factor			1	
Therms Displaced		Winter	Summer	Total
2. Standard Rate		0	0	0
Total		0	0	0

VII. Therms Per Hour @ Utility Receipt Point				
Therms per Hour		Winter	Summer	Total
1. Consumed		0.07671	0.07671	0.15342
2. Consumed New				

- Gas Rates
- 6. Base, Winter 0.43128
 - 7. Base, Summer 0.43128
 - 8. Seasonal, Winter 0.21563
 - 9. Seasonal, Summer 0.38877
 - 10. PQA, Winter 0.38877
 - 11. PQA, Summer 13.87%
 - 12. Taxes & Fees 13.87%
 - 13. Customer Chg \$8.50
 - 14. Ratio of Therms Consumed to Total 1
 - 15. Average Life
 - III. Common Gas & Electric Data
 - 1. Discount Rate 8.65%

Rate Impact Measure Test Data

	Consumed Conserved Displaced Gas Therms Table 1	Gas Customer Charge Table 2	Total Columns 2 thru 3	Carrying Chg. On Main, Svc. & Meter Table 3	New Customer Admin. & Facilities O&M Table 4	Gas Supply Cost Table 5	Program & Allowance Cost	Cooling Total Columns 6 thru 9
1	2	3	4	5	6	7	8	9
\$	\$	\$	\$	\$	\$	\$	\$	\$
1998	614	78	692	55	54	249	1256	1559
1999	633	80	713	53	56	256		312
2000	652	83	735	51	57	264		321
2001	671	85	756	49	59	272		330
2002	692	88	780	47	60	280		340
2003	712	90	802	45	62	288		350
2004	734	93	827	43	64	297		360
2005	756	96	852	41	65	306		371
2006	778	99	877	39	67	315		382
2007	802	102	904	37	69	324		393
2008	826	105	931	35	71	334		405
2009	851	108	959	33	73	344		417
2010	876	111	987	31	75	354		429
2011	902	115	1017	30	77	365		442
2012	929	118	1047	28	79	376		455
2013	957	122	1079	26	82	387		469
2014	986	125	1111	24	84	399		483
2015	1016	129	1145	22	86	411		497
2016	1046	133	1179	20	89	423		512
2017	1077	137	1214	18	91	436		527

Present Value
of Benefits

\$8,044

Present Value
of Costs

\$4,662

Benefit/Cost
Ratio

1.73

Table 1

Year	Therms	Steam Hours	POA Hours	375 Hours	411.3 Hours	474.2 Hours
1988	221,507.9	431,260,21560	1,230,877	1,820,027	1,844,088	612
1989	221,507.9	431,260,21560	1,461,248	1,820,027	1,844,088	612
2000	221,507.9	431,260,21560	1,412,296	1,820,027	1,844,088	612
2001	221,507.9	431,260,21560	1,420,809	1,820,027	1,844,088	612
2002	221,507.9	431,260,21560	1,420,809	1,820,027	1,844,088	612
2003	221,507.9	431,260,21560	1,420,809	1,820,027	1,844,088	612
2004	221,507.9	431,260,21560	1,420,809	1,820,027	1,844,088	612
2005	221,507.9	431,260,21560	1,420,809	1,820,027	1,844,088	612
2006	221,507.9	431,260,21560	1,420,809	1,820,027	1,844,088	612
2007	221,507.9	431,260,21560	1,420,809	1,820,027	1,844,088	612
2008	221,507.9	431,260,21560	1,420,809	1,820,027	1,844,088	612
2009	221,507.9	431,260,21560	1,420,809	1,820,027	1,844,088	612
2010	221,507.9	431,260,21560	1,420,809	1,820,027	1,844,088	612
2011	221,507.9	431,260,21560	1,420,809	1,820,027	1,844,088	612
2012	221,507.9	431,260,21560	1,420,809	1,820,027	1,844,088	612
2013	221,507.9	431,260,21560	1,420,809	1,820,027	1,844,088	612
2014	221,507.9	431,260,21560	1,420,809	1,820,027	1,844,088	612
2015	221,507.9	431,260,21560	1,420,809	1,820,027	1,844,088	612
2016	221,507.9	431,260,21560	1,420,809	1,820,027	1,844,088	612
2017	221,507.9	431,260,21560	1,420,809	1,820,027	1,844,088	612

Coaling

Table 2

Year	Customer Chargeable	Cost Chg	Rate of Return	Cost Chg
1988	6.79	66.24	1	60
2000	6.80	62.75	1	63
2001	7.19	65.23	1	60
2002	7.22	67.79	1	66
2003	7.54	66.42	1	66
2004	7.78	63.14	1	62
2005	8.23	65.83	1	62
2006	8.48	69.77	1	69
2007	8.24	104.83	1	102
2008	8.09	107.87	1	108
2009	8.27	111.21	1	118
2010	8.53	114.26	1	118
2011	8.83	117.86	1	128
2012	8.83	121.52	1	128
2013	10.43	128.82	1	128
2014	10.54	128.82	1	128
2015	11.67	128.82	1	132
2016	11.68	128.77	1	132
2017	11.68	128.77	1	132

Coaling

Table 4

Year	Admin Cost	Admin Cost	Development	Supply	Admin Cost	O & M	Steam	Therms	Rate of Return	Admin Cost
1988	4	53	110	24	133	2.83	2.84	1	1	51
1989	4	53	108	23	129	2.84	2.84	1	1	51
2000	4	56	107	23	129	2.84	2.84	1	1	51
2001	5	56	107	22	129	2.84	2.84	1	1	51
2002	5	56	106	22	129	2.84	2.84	1	1	51
2003	5	60	104	21	130	2.84	2.84	1	1	51
2004	5	63	103	20	130	2.84	2.84	1	1	51
2005	5	63	102	20	130	2.84	2.84	1	1	51
2006	5	63	102	20	130	2.84	2.84	1	1	51
2007	6	68	102	19	130	2.84	2.84	1	1	51
2008	6	68	102	19	130	2.84	2.84	1	1	51
2009	6	71	101	18	130	2.84	2.84	1	1	51
2010	6	71	101	18	130	2.84	2.84	1	1	51
2011	6	78	102	18	130	2.84	2.84	1	1	51
2012	6	80	102	18	130	2.84	2.84	1	1	51
2013	7	80	102	18	130	2.84	2.84	1	1	51
2014	7	80	102	18	130	2.84	2.84	1	1	51
2015	7	88	102	18	130	2.84	2.84	1	1	51
2016	7	88	102	18	130	2.84	2.84	1	1	51
2017	8	88	102	18	130	2.84	2.84	1	1	51

Coaling

Table 5

Year	Therms	Water	Superior	Capacity Cost	Therms	Capacity	Water	Superior	Capacity Cost	Therms	Capacity	Water	Superior	Capacity Cost	Therms	Capacity	Water	Superior	Capacity Cost	Therms	Capacity	Water	Superior	Capacity Cost		
1988	601	112	788	0.2116	601	0.6432	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204
2000	601	112	788	0.2247	601	0.6405	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204
2001	601	112	788	0.2449	601	0.6405	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204
2002	601	112	788	0.2632	601	0.6405	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204
2003	601	112	788	0.2887	601	0.6405	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204
2004	601	112	788	0.3087	601	0.6405	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204
2005	601	112	788	0.3294	601	0.6405	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204
2006	601	112	788	0.3504	601	0.6405	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204
2007	601	112	788	0.3716	601	0.6405	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204
2008	601	112	788	0.3934	601	0.6405	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204
2009	601	112	788	0.4159	601	0.6405	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204
2010	601	112	788	0.4392	601	0.6405	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204
2011	601	112	788	0.4634	601	0.6405	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204
2012	601	112	788	0.4885	601	0.6405	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204
2013	601	112	788	0.5146	601	0.6405	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204
2014	601	112	788	0.5417	601	0.6405	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204
2015	601	112	788	0.5698	601	0.6405	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204
2016	601	112	788	0.5981	601	0.6405	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204
2017	601	112	788	0.6266	601	0.6405	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204	601	1.33	204

Coaling

Table 3

Year	Admin	Development	Expense	Water	Avg Cost	Customer	Rate of Return	Admin & Dev
1988	24	118	271	187	7.57%	782	1	53
1989	23	108	268	188	7.57%	676	1	51
2000	22	102	245	181	7.57%	680	1	48
2001	21	88	232	172	7.57%	624	1	47
2002	20	84	219	163	7.57%	598	1	46
2003	19	80	206	157	7.57%	572	1	45
2004	18	68	205	148	7.57%	548	1	43
2005	17	62	207	141	7.57%	520	1	39
2006	16	42	207	133	7.57%	484	1	37
2007	15	74	241	125	7.57%	442	1	35
2008	14	70	224	117	7.57%	418	1	31
2009	13	66	219	108	7.57%	390	1	30
2010	12	62	215	101	7.57%	364	1	28
2011	11	58	202	93	7.57%	338	1	26
2012	11	54	188	87	7.57%	312	1	24
2013	8	46	183	80	7.57%	286	1	22
2014	8	42	163	74	7.57%	260	1	20
2015	8	42	143	67	7.57%	234	1	18
2016	7	38	127	61	7.57%	208	1	16
2017	7	38	107	54	7.57%	182	1	14

Coaling

Rate Impact Measure Test Data

DOCKET NO

EXHIBIT F
PAGE 2 of 7

All Costs in 1998 dollars

Analysis Start Year: 1998

Number of Years: 20

Electric Rate Number

Gas Program: Natural Gas Specie

Conditioning

Gas Measure: Gasoline Driven Chiller

800 Tons

Substrate Option: Electric Driven Chiller

Electric

Allowance: \$50/TON

Gas Utility: Chesapeake Utilities Corporation

Electric Utility: Tampa Electric

IV. New Customer Installation Costs

1. Avoided Meter Removal Cost \$ 0

2. Avoided Cut & Cap Cost 0

Total Costs 0

II. Operating Data

1. Energy Factor

Therms Consumed	Winter	Summer	Total
2. Standard Rate	62850	62850	125700
3. Seasonal Rate			0
Total	62850	62850	125700

1. Supply Main	25
2. Development Main	0
3. Service	785
4. Meter	4230
Total Cost Cost	5820

5. Utility Allowance	25000
6. Program Cost	56
7. New Customer Admin. Cost \$/month	4
8. Main O&M (Percent)	0.0204

V. Gas Supply Cost

1. Load Profile Type		
2. Commodity (Annual)	0.2250	Gas Supply Cost \$/Therm
3. Winter Multiplier	1.33	
4. Summer Multiplier	1	
5. Transportation, Capacity, Peaking and Balancing Cost	0.04175	

System Straddle

VI. Therms Consumed

	New	Existing
1. Energy Factor	5.1	
2. Annual Gas Therms	0	0

VII. Therms Dispatched

	Winter	Summer	Total
1. Energy Factor		1	
Therms Dispatched	0	0	0
2. Standard Rate	0	0	0
Total	0	0	0

VIII. Therms Per Hour @ Utility Receipt Point

	Winter	Summer	Total
1. Consumed			
2. Consumed New			

Gas Rates

7. Base, Winter 0.07348

8. Seasonal, Winter 0.07348

9. Seasonal, Summer

10. PQA, Winter 0.38977

11. PQA, Summer 0.38977

12. Taxes & Fees 13.67%

13. Customer Chg 40

14. Ratio of Therms Consumed to Total 1

15. Average Life 20

IX. Common Gas & Electric Data

1. Discount Rate 8.65%

Rate Impact Measure Test Data

1	Consumed Conserved Displaced Gas Therms Table 1	Gas Customer Charge Table 2	Total Columns 2 thru 3	Carrying Chg. On Main, Svc. & Meter Table 3	New Customer Admin. & Facilities O&M Table 4	Gas Supply Cost Table 5	Program & Allowance Cost	Total Columns 6 thru 9
\$	\$	\$	\$	\$	\$	\$	\$	\$
1998	58230	480	58710	380	52	38212	25056	63701
1999	59977	494	60471	364	54	39359		39776
2000	61776	509	62286	349	55	40540		40944
2001	63630	525	64154	334	57	41756		42147
2002	65539	540	66079	320	58	43009		43387
2003	67505	556	68061	307	60	44299		44666
2004	69530	573	70103	294	62	45628		45983
2005	71616	590	72206	282	64	46997		47342
2006	73764	608	74372	270	66	48406		48742
2007	75977	626	76603	258	67	49859		50184
2008	78256	645	78901	247	69	51354		51671
2009	80604	664	81269	237	72	52895		53204
2010	83022	684	83707	227	74	54482		54782
2011	85513	705	86218	217	76	56116		56409
2012	88078	726	88804	208	78	57800		58086
2013	90721	748	91468	199	80	59534		59813
2014	93442	770	94212	191	83	61320		61593
2015	96245	793	97039	183	85	63159		63427
2016	99133	817	99950	175	88	65054		65317
2017	102107	842	102949	167	90	67006		67263

Present Value of Benefits \$681,997

Present Value of Costs \$470,271

Benefit/Cost Ratio	1.45
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