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April 5, 2010

VIA HAND DELIVERY

Chairman Sara Kyle c/o Sharla Dillon Tennessee Regulatory Authority 460 James Robertson Parkway Nashville, Tennessee 37243-00505

electronically filed 4/5/10 at 3:50pm

Re: Doc

Docket No. 09-00183

Dear Chairman Kyle:

Enclosed please find a copy of Chattanooga Gas Company's ("Company") responses to the CAPD's Revised Second Set of Discovery Requests. The Company has objected to request nos. 14-26. The Company is also filing a revised response to discovery request no. 46 from the CAPD's First Set of Discovery Requests.

Please do not hesitate to contact me if you have any questions or concerns.

Sincerely,

knnifer L. Brundige

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Enclosures

cc:

Counsel of Record

Gary Hotvedt, Esq.

Pat Murphy

Elizabeth Wade, Esq. Archie Hickerson

Chattanooga Gas Company Docket Number 09-00183 CAPD-2 Question 1 4/5/2010

DISCOVERY REQUEST NO. 1:

For the purposes of this request please refer to the Exhibit DJN-2. Please provide all of the source documents and analyses undertaken by the Company in developing the cost to the participant for each program. Provide the workpapers in electronic spreadsheet form, with all links and formulas intact, source data used, all supporting documents, and explain all assumptions and calculations used. To the extent the data does not exist in the exact format requested, please provide it in the format in which it is available and explain why it is not available in the format requested.

Response:

The costs to customers were based upon an informal phone survey of 2 to 3 natural gas appliance dealers in the Company's Chattanooga service territory for each measure conducted by the Company's marketing department. As such, electronic workpapers are not available. The costs are based upon the vendor's opinion of the incremental appliance costs. Each of the vendors spoken to as well as Company personnel, expressed that actual cost may vary depending upon such factors as asbestos remediation, appliance location, additional piping requirements, and venting requirements.

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DISCOVERY REQUEST NO. 2:

For the purposes of this request please refer to the Exhibit DJN-2. Please provide all of the source documents and analyses undertaken by the Company in developing the therm savings to the participant for each program. Provide the workpapers in electronic spreadsheet form, with all links and formulas in tact, source data used, all supporting documents, and explain all assumptions and calculations used. To the extent the data does not exist in the exact format requested, please provide it in the format in which it is available and explain why it is not available in the format requested.

Response:

This information was already provided in the electronic format in the response to CAPD data requests 151 and 173.

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DISCOVERY REQUEST NO. 3:

For the purposes of this request please refer to the Exhibit DJN-2. Please explain what type of food service equipment is assumed for the "food service equipment" program and explain how all assumptions were developed for this program. Provide the workpapers in electronic spreadsheet form, with all links and formulas in tact, source data used, all supporting documents, and explain all assumptions and calculations used. To the extent the data does not exist in the exact format requested, please provide it in the format in which it is available and explain why it is not available in the format requested.

Response:

The program is design to provide incentives to promote the use of more efficient cooking equipment by Chattanooga Gas' commercial food service customers. Four types of equipment are being initially targeted, Combi-Ovens, gas griddles, fryers and convection ovens. Attachment 2-3.1 presents the development of the energy savings for these appliances.

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Attachment CAPD 2-3.1
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Annual Base Load Commercial Food Appliances

	Energy Savings -17 -18 -9 -4
Annual Base Load Fast Food Chain in BTUs 416,350 550,000 330,000 165,000	High Efficiency Annual Base Load Fast Food Chain in Therms 24 37 24 13
Annual Base Load Full Service Restaurant 302,800 400,000 240,000 120,000	High Efficiency Cooking Energy Efficiency (%) 51% 52% 42%
Hours/Day Fast Food Chain 5.5 5.5 5.5	Standard Cooking Energy Efficiency (%) 30% 35% 32%
Hours/Day Full Service Restaurant 4 4 4	Standard Annual Base Load Fast Food Chain in Therms 42 55 33
BTU's/Hr 75,700 100,000 60,000 30,000	
Combi Oven Fryer Convection Oven Gas Griddle	Combi Oven Fryer Convection Oven Gas Griddle Total

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DISCOVERY REQUEST NO. 4:

Please provide the rationale for the "Primary Fuel Initial Demand Cost" used in response to CAPD Data Request 151, explain what it is supposed to represent in terms of avoided costs, i.e. (is this avoided transport costs), explain why it is escalated, and provide all documents supporting the contention that transport demand charges have escalated over the last 10, 15, and 20 years.

Response:

The "Primary Fuel Initial Demand Cost" represents system storage and capacity costs that might be avoided on a design day if customers enact the savings measures proposed in the energySMART program. This amount is escalated because cost/benefit analysis looks out over a long time horizon based on equipment effective lives of which exceed 20 years in some cases. In fact over the long term the Company's use of a 2.5% inflation rate may be low based upon data provided by Dr. Dismukes in response to Company's data request number 35. As can be seen in attachment 2-4.1, the annual long term increase in the delivered price of natural gas to residential gas customers has been 5.4% per year over the past 10 years, and 8% per year over the past 40 years, with the non-gas portion of the price as computed by taking the well head difference from the delivered price, has risen 6.3% per year over the past 10 years, and 5.6% per year over the past 40 years. This coupled with the recent increase in the C-2 demand rate that went into effect October 1, 2009 (a rate based upon the average interstate demand and capacity cost per

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Dth of design day requirement) strongly suggest that accounting for a long term modest escalation in capacity costs would be appropriate.

Chattanooga Gas Company U.S. Residential Natural Gas Use Estimated DNG Revenue per Customer And Annual percentage Rate of Increase

based upon Exhibit DED-17 from Direct Testimony of Dr. Dismukes

	U.S. Nati Gas Resid Consump (MMcf)	ential otion (Tcf)		S. Natural Wellhead Price (\$/Mcf)	Price Delivered to Residential (\$/Mcf)	Non-Gas Price 40	Residential Customers	Per Customer Consumption	Es	stimated DNG
	Gros	s Precentage		2082.4%	999.1%	798.9%				
	0103	_	ercentage	8.0%	6.2%	5.6%				
		741110011	or oor nago	0.070	0.270	0.070				
		Years (19	999-2009)	10	10	10				
	Gros	s Precentage	e Increase	69.4%	79.1%	83.8%				
		Annual P	ercentage	5.4%	6.0%	6.3%				
4070	4 007 400	4.04	1970	0.17	1.09	0.92	38,604,000	125.31	\$	115.28
1970	4,837,432	4.84 4.97	1970	0.17	1.09	0.92	39,267,000	126.61		122.81
1971 1972	4,971,690	5.13	1972	0.18	1.13	1.02	39,881,000	128.53		131.10
1972	5,125,982	4.88	1973	0.19	1.29	1.02	40,645,000	120.05		128.45
1973	4,879,387	4.79	1974	0.22	1.43	1.13	41,509,000	115.30		130.29
1974	4,786,128	4.79	1975	0.44	1.71	1.13	41,516,000	118.61		150.63
1975	4,924,124	5.05	1976	0.58	1.98	1.4	41,238,000	122.49		171.49
1977	5,051,360 4,821,485	4.82	1977	0.79	2.35	1.56	41,366,000	116.56		181.83
1978		4.90	1978	0.79	2.56	1.65	41,845,000	117.17		193.33
	4,903,006	4.90 4.97	1979	1.18	2.98	1.8	43,358,000	114.52	•	206.14
1979	4,965,365 4,752,082	4.75	1980	1.59	3.68	2.09	44,114,000	107.72		225.14
1980		4.75 4.55	1980	1.98	4.29	2.31	44,924,000	101.20		233.78
1981	4,546,450				5.17	2.71	44,667,000	103.72		281.09
1982	4,633,035	4.63	1982	2.46 2.59	6.06	3.47	45,153,000	97.02		336.65
1983	4,380,599	4.38	1983 1984	2.66	6.12	3.46	45,670,000	99.75		345.13
1984	4,555,465	4.56		2.51	6.12	3.40	46,331,000	95.69		345.44
1985	4,433,377	4.43	1985	1.94	5.83	3.89	46,877,000	92.03		357.99
1986	4,313,969	4.31	1986	1.67	5.54	3.87	47,710,444	90.44		349.99
1987	4,314,833	4.31 4.63	1987 1988	1.69	5.47	3.78	48,474,449	95.52		361.07
1988 1989	4,630,330	4.03 4.78	1989	1.69	5.64	3.95	49,309,593	96.95		382.96
	4,780,638	4.76	1999	1.71	5.8	4.09	50,187,178	87.50		357.87
1990 1991	4,391,324	4.56	1990	1.64	5.82	4.18	51,593,206	88.30		369.09
1991	4,555,659 4,690,065	4.69	1992	1.74	5.89	4.15	52,331,397	89.62		371.93
1992		4.96	1993	2.04	6.16	4.12	52,535,411	94.34		388.70
1993	4,956,445 4,847,702	4.85	1994	1.85	6.41	4.56	53,392,557	90.79		414.02
1995	4,850,318	4.85	1995	1.55	6.06	4.51	54,322,179	89.29		402.69
1996		5.24	1996	2.17	6.34	4.17	55,263,673	94.84		395.50
1997	5,241,414 4,983,772	4.98	1997	2.32	6.94	4.62	56,186,958	88.70		409.79
1998	4,520,276	4.52	1998	1.96	6.82	4.86	57,321,746	78.86		383.25
1999	4,725,672	4.73	1999	2.19	6.69	4.5	58,223,229	81.16	\$	365.24
2000	4,996,179	5.00	2000	3.68	7.76	4.08	59,252,728	84.32		344.02
2000	4,771,340	4.77	2001	4	9.63	5.63	60,286,364	79.14		445.58
2001	4,888,818	4.89	2001	2.95	7.89	4.94	61,107,254	80.00		395.22
2002	5,079,351	5.08	2002	4.88	9.63	4.75	61,871,450	82.10		389.95
2003	4,868,797	4.87	2003	5.46	10.75	5.29	62,496,134	77.91		412.12
2004	4,826,775	4.83	2005	7.33	12.7	5.37	63,616,827	75.87		407.44
2005	4,368,466	4.83 4.37	2005	6.39	13.73	7.34	64,166,280	68.08		499.71
2006	4,722,358	4.37 4.72	2007	6.25	13.73	6.83	64,964,769	72.69		496.48
2007	4,722,356	4.72 4.87	2007	7.96	13.89	5.93	65,253,954	74.66		442.76
2008		4.76	2009	3.71	11.98	8.27	00,200,007	77.00	*	
2009	4,763,528	4.70	2009	3.71	11.90	0.21				

Source: Energy Information Administration, U.S. Department of Energy. Total Consumption: http://tonto.eia.doe.gov/dnav/ng/ng_cons_sum_dcu_nus_m.htm

U.S. Wellhead Price: http://tonto.eia.doe.gov/dnav/ng/hist/n9190us3a.htm
Delivered Gas Price: http://tonto.eia.doe.gov/dnav/ng/hist/n3010us3A.htm
Number of Customers: http://tonto.eia.doe.gov/dnav/ng/hist/na1501_nus_8a.htm

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DISCOVERY REQUEST NO. 5:

Please explain the rationale for the development of the lost revenue amount developed and shown under the rate impact measure test provided in Response CAPD Data Request 151.

Response:

Projected annual purchased gas adjustment revenues for consumption, demand and capacity were included in lost revenues. Lost Company margin revenues were excluded based upon the assumption the Company's proposed Alignment and Usage Adjustment presented in Mr. Yardley's testimony would be adopted, thereby resulting in no lost base rate margin revenue to the Company.

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DISCOVERY REQUEST NO. 6:

Please provide a copy of the Baseline Consumption from RECS 2005.

Response:

The RECS 2005 data is publicly available from the U.S. Department of Energy at the hyperlink listed below.

http://www.eia.doe.gov/emeu/recs/recs2005/c&e/detailed tables2005c&e.html

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Question 7
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DISCOVERY REQUEST NO. 7:

Please provide a complete and detailed reconciliation between the prices included in the cost benefit analysis (DJN-2) and the attrition analysis presented in MHS-5. Provide an explanation of all the differences between the data utilized in the two exhibits and provide the source for all underlying source data used in each exhibit.

Response:

The source data for MHS-5 and DJN-2 was presented with the electronic format of Minimum Filing Guideline number 25. The attached schedule Discovery Request 2-7.1 presents the reconciliation showing no differences.

Company	cal NYMEX and PGA Assumptions	O IAI Clair boots opping
Chattanooga Gas Company	Historical NYMEX	

	Prices used in DJN-2	Prices used in DJN-2	Prices used	Prices used in MFG-25	Differences	
	NYMEX	CGC PGA	NYMEX	CGC PGA	NYMEX CGC PGA	
_60-InC	3.851	0.7262	3.851	0.7262		lo
Aug-09	3.506	0.7262	3.506	0.7262	0	_
Sep-09	2.878	0.6990	2.878	0.6990	0	0
Oct-09	3.89	0.6618	3.89	0.6618	0	_
Nov-09	5.7	0.6821	5.1	0.6821	0	0
Dec-09	5.793	0.7239	5.793	0.7239	0	0
Jan-10	6.078	0.7595	6.078	0.7595	0	0
Feb-10	6.14	0.7843	6.14	0.7843	0	0
Mar-10	6.067	0.8001	6.067	0.8001	0	0
Apr-10	6.037	0.8081	6.037	0.8081	0	0
May-10	6.073	0.8141	6.073	0.8141	0	0
Jun-10	6.133	0.8205	6.133	0.8205	0	0
Jul-10	6.213	0.8267	6.213	0.8267	0	0
Aug-10	6.286	0.8333	6.286	0.8333	0	0
Sep-10	6.337	0.8394	6.337	0.8394	0	0
Oct-10	6.492	0.8446	6.492	0.8446	0	0
Nov-10	6.847	0.8532	6.847	0.8532	0	0
Dec-10	7.192	0.8700	7.192	0.8700	0	0
Jan-11	7.412	0.8889	7.412	0.8889	0	0
Feb-11	7.392	0.9050	7.392	0.9050	0	0
Mar-11	7.197	0.9124	7.197	0.9124	0	۵,
Apr-11	6.622	0.9111	6.622	0.9111	0	0
May-11	6.577	0.8925	6.577	0.8925	0	0 (
L1-un-	0.037	0.8870	0.037	0.8870	- C	
Jul-11	0.707	0.0000	6.70	0.0000	.	.
Sop 11	6 802	0.0000	6 803	0.8883		
Sep-17	0.002	0.0002	0.002	70007		
Nov.	7 197	0.0034	7 197	0.8894		
Dec-11	7 467	0.9057	7 467	0.9057		
Jan-12	7.672	0.9194	7.672	0.9194		
Feb-12	7.652	0.9324	7.652	0.9324	0	0
Mar-12	7.442	0.9378	7.442	0.9378	0	0
Apr-12	6.812	0.9344	6.812	0.9344	0	0
May-12	6.757	0.9125	6.757	0.9125	0	0
Jun-12	6.822	0.9051	6.822	0.9051	0	0
Jul-12	6.897	0.9030	6.897	0.9030	0	0
Ang-12	6.957	0.9030	6.957	0.9030	0	0
Sep-12	6.987	0.9039	6.987	0.9039	0	0
Oct-12	7.077	0.9046	7.077	0.9046	0	0
Nov-12	7.327	0.9080	7.327	0.9080	0	0
Dec-12	7.592	0.9180	7.592	0.9180	0	0
Jan-13	7.802	0.9309	7.802	0.9309	0	0
Feb-13	7.792	0.9435	7.792	0.9435	0	0
Mar-13	7.562	0.9489	7.562	0.9489	0	0

	Assumptions	CNIC
Chattanooga Gas Company	Historical NYMEX and PGA Assumptions	C INI O ai boon accid

Prices us		ed in DJN-2	2	Prices used in MFG-25	in MFG-25	Ω	Differences
		Residential & C1	ភ	_	Residential & C1		Residential & C1
•	NYMEX	CGC PGA		NYMEX	CGC PGA	NYMEX	CGC PGA
Apr-13	6.922	3.0	0.9447	6.922	0.9447	0	0
May-13	6.872	3.0	0.9221	6.872	0.9221	0	0
Jun-13	6.942	3.0	0.9145	6.942	0.9145	0	0
Jul-13	7.022	0.6	0.9123	7.022	0.9123	0	0
Aug-13	7.087	3.0	0.9124	7.087	0.9124	0	0
Sep-13	7.117	5.0	0.9135	7.117	0.9135	0	0
Oct-13	7.207	3.0	0.9143	7.207	0.9143	0	0
Nov-13	7.457	9.0	0.9176	7.457	0.9176	0	0
Dec-13	7.732	3.0	0.9277	7.732	0.9277	0	0
Jan-14	7.937	3.0	0.9409	7.937	0.9409	0	0
Feb-14	7.927	3.0	0.9535	7.927	0.9535	0	0
Mar-14	7.692	3.0	0.9589	7.692	0.9589	0	0
Apr-14	7.032	3.0	0.9545	7.032	0.9545	0	0
May-14	6.992	3.0	0.9312	6.992	0.9312	0	0
Jun-14	7.067	3.0	0.9238	7.067	0.9238	0	0
Jul-14	7.157	3:0	0.9217	7.157	0.9217	0	0
Ang-14	7.227	5. O	0.9222	7.227	0.9222	0	0
Sep-14	7.257	5.0	0.9235	7.257	0.9235	0	0
Oct-14	7.347	5:O	0.9244	7.347	0.9244	0	0
Nov-14	7.592	5. O	0.9279	7.592	0.9279	0	0
Dec-14	7.872	9:0	0.9378	7.872	0.9378	0	0
Jan-15	8.087	9.0	0.9512				
Feb-15	8.082	0.0	0.9642				
Mar-15	7.852	9.0	0.9700				
Apr-15	7.172	0.6	0.9659				
May-15	7.132	9:0	0.9420				
Jun-15	7.202	9.0	0.9345				
Jul-15	7.287	3:O	0.9322				
Aug-15	7.357	9:0	0.9324				
Sep-15	7.387	3:0 -	0.9336				
Oct-15	7.487	0.0	0.9344				
Nov-15	7.737	0.0	0.9382				
Dec-15	8.012	0.0	0.9484				
Jan-16	8.227	5.0	0.9617				
Feb-16	8.222	5.0	0.9747				
Mar-16	7.992	5.0	0.9804				
Apr-16	7.312	9.0	0.9764				
May-16	7.272	SO G	0.9524				
Jun-16	7.342		0.9450				
Jul-16	7.427	o o	0.9427				
Aug-16	1.497	5 6	0.3420				
Sep-16	7.027	5 0	0.044				
Nov. 16	7 872	; č	0.0415				
Dec-16	8.152	; ö	0.9586				

Differences Residential & C1 X CGC PGA

	Assumptions	
Company	and PGA	
Chattanooga Gas Company	Historical NYMEX and PGA Assumptions	

NYMEX CGC PGA 1721 1853 1911 1871 1625 1625 1625 1638 1639 163	Historical NYMEX and PGA Assumptions Prices used in DJN-2 Residential & C	A Assumptions I in DJN-2 Residential & C1	Prices used in MFG-25 Residential & C1	HIO W
8.372 8.357 7.437 7.437 7.557 7.652 7.652 7.652 7.757 8.522 8.522 8.522 8.522 8.522 8.522 8.527 7.777 7.777 7.777 7.777 7.747 7.747 7.547 7.747 7.747 8.682 8.682 8.682 8.682 8.682 8.682 8.682 8.683 8.684 8.683 8.883		CGC PGA	CGC PGA	
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7.652 7.737 8.002 8.302 8.527 8.522 8.522 7.587 7.717 7.717 7.717 7.717 7.717 7.887 8.682 8.682 8.682 8.683 8.687 8.683 8.687 7.717		0.9531		
7.737 8.002 8.302 8.522 8.522 8.522 7.587 7.777 7.777 7.777 7.777 7.777 7.777 7.747 8.682 8.682 8.682 8.687 8.682 8.682 8.682 8.682 8.682 8.682 7.912 7.912 7.937 7.937 7.937 7.937 7.937 7.937 8.612 7.937 8.612 7.937 8.612 7.937 8.612 8.612 7.937 8.612 8.847		0.9541		
8.002 8.302 8.527 8.522 8.522 8.523 7.547 7.777 7.777 7.887 8.687 8.687 8.687 8.687 7.717 7.717 7.717 7.717 7.717 7.717 7.877 7.912 7.937 8.612 8.612 8.612 7.937 8.612 7.937 7.937 8.612 7.937 7.937 8.612 7.937 8.612 7.937 8.612 7.937 8.612 7.937 8.612 7.937 8.612 8.612 8.612 7.937 8.612		0.9546		
8.302 8.527 8.522 8.522 8.292 7.587 7.547 7.777 7.777 7.802 8.687 8.687 8.687 8.687 8.687 8.687 7.747 7.747 7.747 7.747 7.847 7.937 8.612 8.612 8.612 8.612 7.842 8.612		0.9577		
8.527 8.522 8.292 7.587 7.547 7.777 7.777 7.802 7.887 8.687 8.687 8.687 8.687 8.687 8.687 8.687 7.747 7.747 7.747 7.912 7.937 8.022 8.612 8.612 8.612 7.842 8.612 8.612 8.612 7.843 8.612 8.612 8.612 8.612 8.612 8.612 8.612 8.613 8.613 8.614 8.614 8.615 8.615 8.617		0.9683		
8.522 8.292 7.587 7.587 7.627 7.777 7.777 7.802 8.857 8.687 8.687 8.687 8.687 8.687 8.687 7.912 7.912 7.912 7.912 7.912 7.912 7.912 7.912 7.912 7.912 7.912 7.912 7.912 7.912 7.912 7.912 7.913 8.617 8.617 8.617 7.852 7.852 7.867 8.617		0.9825		
8.292 7.587 7.547 7.627 7.717 7.717 7.802 7.887 8.457 8.687 8.687 8.687 8.687 8.687 7.717 7.717 7.717 7.912 7.912 7.937 8.022 8.612 8.612 8.612 7.852 7.852 7.877 7.877 8.627 8.647		0.9961		
7.587 7.547 7.547 7.777 7.777 7.802 7.802 8.457 8.682 8.682 8.683 8.683 8.684 7.947 7.947 7.947 7.947 7.947 7.947 7.947 7.947 7.947 8.612 8.612 8.612 7.852 7.852 7.867 8.642		1.0021		
7.547 7.627 7.717 7.802 7.887 8.157 8.457 8.682 8.682 8.683 8.683 8.683 7.717 7.747 7.937 8.022 8.302 8.612 8.612 7.852 7.852 7.852 7.852 7.852 7.873 8.612 8.612 7.852 7.852 7.873 8.612 8.612 8.612 8.612 7.852 7.873 8.612		0.9983		
7.627 7.717 7.717 7.802 7.887 8.457 8.687 8.682 8.457 7.717 7.747 7.947 7.937 8.022 8.302 8.612 7.937 7.937 7.937 7.937 7.937 7.937 8.612 7.852 7.852 7.852 7.852 7.852 8.612 8.612 7.852 8.612 8.612 8.612 7.852 7.852 8.612		0.9736		
7.717 7.777 7.802 7.802 7.887 8.157 8.687 8.687 8.682 8.682 7.717 7.757 7.747 7.912 7.937 8.022 8.302 8.612 7.937 7.937 7.937 7.937 7.937 7.937 7.937 7.937 7.937 7.937 7.937 7.937 7.937 8.612 7.937 7.937 8.612 7.937 8.612 7.852		0.9659		
7.777 7.802 7.887 8.157 8.687 8.682 8.457 7.717 7.757 7.757 7.757 7.912 7.937 8.022 8.022 8.612 7.852 7.852 7.852 7.852 7.852 7.852 7.852 7.852 7.852 7.852 7.852 7.852 8.612		0.9639		
7.802 7.887 8.157 8.687 8.682 8.457 7.717 7.757 7.757 7.912 7.937 8.022 8.302 8.302 8.412 8.612 7.852 7.852 7.852 7.852 7.852 7.852 7.852 7.852 7.852 8.612		0.9643		
7.887 8.157 8.457 8.682 8.682 8.457 7.717 7.757 7.912 7.937 8.022 8.302 8.302 8.302 8.302 8.302 7.937 7.852 7.852 7.852 7.852 7.852 7.852 7.852 7.852 7.852 8.612 7.852 8.612		0.9653		
8.157 8.457 8.687 8.682 8.457 7.717 7.757 7.912 7.912 7.937 8.022 8.302 8.302 8.847 8.842 8.612 7.852 7.852 7.812 7.852 7.812 7.853 7.812 7.812 7.813 8.027		0.9658		
8.457 8.682 8.682 8.457 7.717 7.677 7.947 7.912 7.937 8.022 8.302 8.617 8.842 8.612 7.852 7.812 7.852 7.812 7.852 7.812 7.812 7.812 7.812 7.812 8.027		0.9689		
8.687 8.682 8.457 7.717 7.677 7.977 7.912 7.937 8.022 8.302 8.847 8.841 8.612 7.852 7.812 7.852 7.812 7.853 8.027 8.027		0.9797		
8.682 8.457 7.717 7.777 7.757 7.947 7.942 7.937 8.022 8.617 8.842 8.612 7.852 7.852 7.852 7.852 7.852 8.612 8.612 8.612 8.612 8.612 7.852 7.852 8.027		0.9939		
8.457 7.717 7.717 7.757 7.847 7.937 8.022 8.302 8.617 8.847 8.842 8.612 7.852 7.852 7.887 7.977 8.027		1.0078		
7.717 7.677 7.757 7.847 7.912 7.937 8.022 8.302 8.617 8.847 8.842 8.612 7.852 7.812 7.887 8.027		1.0139		
7.677 7.757 7.847 7.912 7.937 8.022 8.302 8.847 8.847 8.842 7.852 7.812 7.857 7.977 8.047		1.0103		
7.757 7.847 7.912 7.937 8.022 8.617 8.847 8.612 7.852 7.812 7.852 7.877 7.977 8.027		0.9844		
7.847 7.912 7.937 8.022 8.302 8.617 8.642 7.852 7.842 7.842 7.877 7.977 8.027		0.9765		
7.912 7.937 8.022 8.302 8.617 8.847 7.852 7.852 7.812 7.812 7.877 7.977 8.027		0.9742		
7.937 8.022 8.302 8.847 8.847 8.612 7.852 7.842 7.842 7.877 7.977 8.027		0.9745		
8.022 8.302 8.617 8.847 8.842 7.852 7.812 7.812 7.977 8.027 8.027		0.9755		
8.302 8.617 8.847 8.842 7.812 7.812 7.977 8.027 8.027		0.9761		
8.617 8.847 8.842 8.612 7.852 7.812 7.887 7.977 8.027		0.9791		
8.847 8.842 8.612 7.852 7.812 7.887 7.977 8.027		0.9902		
8.842 8.612 7.852 7.812 7.87 7.977 8.027 8.047		1.0051		
8.612 7.852 7.812 7.887 7.977 8.027 8.047		1.0192		
7.852 7.812 7.887 7.977 8.027 8.047		1.0254		
7.812 7.887 7.977 8.027 8.047		1.0217		
7.887 7.977 8.027 8.047		0.9952		
7.977 8.027 8.047		0.9871		
8.027 8.047		0.9845		
8.047		0.9846		
		0.9850		

Chattanooga Gas Company
Historical NYMEX and PGA Assumptions

Differences	Residential & C1	CGC PGA	
Ճ		MEX	

rical NYM	rical NYMEX and PGA Assumptions	A Assum	ptions		
	Prices used in DJN-2	in DJN-2	3		Differen
	NVMEX	Vesidellial &	5 Y	NYMEY CO	Kesidi
	0 497	3	200.0		
Nov-20	8 447		0.303		
Dec-20	8.802		1,0002		
Jan-21	9.032		1.0168		
Feb-21	9.022		1.0314		
Mar-21	8.782		1.0379		
Apr-21	8.002		1.0341		
May-21	7.957		1.0069		
Jun-21	8.027		0.9985		
12-IDC	0.1.12 8.163		0.9930		
Sep-21	8 177		0.9956		
Oct-21	8.262		0.9954		
Nov-21	8.572		0.9982		
Dec-21	7.934336		1.0101		
Jan-22	8.112792		0.9902		
Feb-22	8.472263		0.9930		
Mar-22	8.870069		1.0052		
Apr-22	9.151093		1.0225		
May-22	9.145228		1.0388		
Jun-22	8.897672		1.0459		
Jul-22	8.087169		1.0421		
Aug-22	8.040827		1.0140		
Sep-22	8.113879		1.0054		
Oct-22	8.202419		1.0024		
Nov-22	8.254489		1.0023		
Dec-22	8.613774		1.0025		
Jan-23			1.0149		
Feb-23			1.0178		
Mar-23			1.0303		
Apr-23			1.0481		
May-23			1.0048		
. Lil. 23			1.0720		
A110-23			10303		
Sep-23			1.0305		
Oct-23			1 0275		
Nov-23			1.0273		
Dec-23			1.0276		
Jan-24			1.0403		
Feb-24			1.0433		
Mar-24			1.0560		
Apr-24			1.0743		
Jun-24			1.0988		

	Assumptions
Chattanooga Gas Company	Historical NYMEX and PGA

Prices used in MFG-25	Residential & C1	NYMEX CGC PGA	
es used in DJN-2	Residential & C1	MEX CGC PGA	

Differences Residential & C1 EX CGC PGA

NYMEX

	Prices used i	in DJN-2 Residential & C1	Price
•	NYMEX	CGC PGA	NYN
Jul-24		1.0949	
Aug-24		1.0653	
Sep-24		1.0563	
Nov-24		1.0532	
Dec-24		1.0533	
Jan-25		1.0663	
Feb-25		1.0693	
Mar-25		1.0824	
Apr-25		1.1011	
Jun-25		1 1263	
Jul-25		1.1223	
Aug-25		1.0919	
Sep-25		1.0827	
Oct-25		1.0795	
Nov-25		1.0793	
Dec-25		1.0796	
Jan-26		1.0930	
Mar-26		1.0901 1.1095	
Apr-26		1 1287	
May-26		1.1467	
Jun-26		1.1544	
Jul-26		1.1503	
Aug-26		1.1192	
Sep-26		1.1097	
Nov-26		1.1065	
Dec-26		1 1066	
Jan-27		1.1203	
Feb-27		1.1235	
Mar-27		1.1372	
Apr-27		1.1569	
Inay-21		1.1/53	
Jul-27		1.1791	
Aug-27		1.1472	
Sep-27		1.1375	
Oct-27		1.1342	
Nov-2/		1.1340	
Jan-28		1.1483	
Feb-28		1.1516	
Mar-28		1.1657	

	and PGA Assumptions	
Company	and PGA	
Chattanooga Gas Compa	listorical NYMEX a	
_	_	

	& C1
ed in MFG-25	Residential

	န	;
Differences	Residential	.000
Δ		

	Residential & C1	CGC PGA
2		NYMEX

~ ~	Prices used in DJN-2 Residenti NYMEX CGC	PGA	ت و	Prices used	Prices used in MFG-25 Residential & C1 NYMEX CGC PGA
		1.1	.1858		
		<u>.</u>	2047		
		7 .	1.2129		
		Ξ	759		
		_	629		
		= =	1.1625		
			.1626		
		\ \frac{1}{2}	1770		
		Ξ.	1.1804		
		-	240		
		7 (1.2155 1.2348		
		. 2	1.2432		
		7	1.2388		
		2	2053		
		: '	951		
		<u>.</u> .	1.1916		
		•	917		
		- 2	2065		
		Ť	500		
			2247		
			1.2458		
		<u> </u>	1 2743		
			1.2697		
		<u> </u>	1.2354		
		~	1.2249		
		7	1.2214		
			1.2212		
			2215		
			2300		
			2553		
			2770		
			1.2974		
			3061		
			1.3015		
			1.2556		
		~	1.2519		
			1.2517		
			72520		

Chattanooga Gas Company Historical NYMEX and PGA Assumptions

Differences	Residential & C1	CGC PGA	
ă	_	NYMEX	

rical NYM	EX and PGA Assum Prices used in DJN-2 Residenti	rical NYMEX and PGA Assumptions Prices used in DJN-2 Residential & C1	ed in M Resi	_
':	NYMEX	CGC PGA	NYMEX CGC PGA	NYMEX
Jan-32		1.26/5		
rep-32		1.2/11		
Mar-52		1.2007		
Mav-32		1.3298		
Jun-32		1.3388		
Jul-32		1.3340		
Aug-32		1.2980		
Sep-32		1.2869		
Nov.32		1.2632		
Dec-32		1.2833		
Jan-33		1.2992		
Feb-33		1.3029		
Mar-33		1.3188		
Apr-33		1.3416		
May-33		1.3630		
Jun-33		1.3723		
Jul-33		1.3674		
Aug-33		1.3304		
Sep-33		1.3191		
Oct-33		1.3153		
Nov-33		1.3151		
Dec-33		1.3154		
Jan-34		1.3317		
Feb-34		1.3355		
Mar-34		1.3518		
Apr-34		1.3752		
May-34		1.39/1		
40-mn		1.4000		
45-ID5		1.4015		
Sep-34		13521		
Oct-34		1.3482		
Nov-34		1.3479		
Dec-34		1.3483		
Jan-35		1.3650		
Feb-35		1.3689		
Mar-35		1.3856		
Apr-35		1.4096		
Jun-35		1.4320		
Jul-35		1.4366		
Aug-35		1.3978		
Sep-35		1.3859		

	Assumption	
Company	X and PGA As	
Chattanooga Gas C	Historical NYMEX	

Difference	Resider	NVMEY
MFG-25	sidential & C1	V 20 000

Differences	Residential & C1	A69 000
_		NYMEX

	2 1000 account		
	Res	Res	Res
1	NYMEX CGC PGA	NYMEX CGC PGA	NYMEX CO
Oct-35	1.3819		
Nov-35	1.3816		
Dec-35	1.3820		
Jan-36	1.3991		
Feb-36	1.4031		
Mar-36	1.4203		
Apr-36	1.4448		
May-36	1.4678		
Jun-36	1.4778		
Jul-36	1.4725		
Aug-36	1,4327		
Sep-36	1.4205		
Oct-36	1 4164		
Nov-36	14162		
Dec-36	1 4 4 6 5		
Jan-37	1 4341		
Feh-37	1 4382		
Mar-37	2001. 2001.		
Apr-37	0000		
May-37	1 5000 1 5004 1 5045		
May-57	0400.1		
78-unc	1.5147		
Jul-37	1.5093		
Aug-37	1.4685		
Sep-37	1.4561		
Oct-37	1.4518		
Nov-37	1.4516		
Dec-37	1.4519		
Jan-38	1.4699		
Feb-38	1.4741		
Mar-38	1.4922		
Apr-38	1.5179		
May-38	1.5422		
Jun-38	1.5526		
Jul-38	1.5470		
Aug-38	1.5052		
Sep-38	1.4925		
Oct-38	1.4881		
Nov-38	1.4879		
Dec-38	1.4882		
Jan-39	1.5067		
Feb-39	1.5110		
Mar-39	1.5295		
Apr-39	1.5559		
May-39	1.5807		
Jun-39	1.5914		

Chattanooga Gas Company Historical NYMEX and PGA Assumptions

Differences Residential & C1 EX CGC PGA

NYMEX

Prices used in MEG.25	Residential & C1																																			
ical NYMEX and PGA Assumptions Prices used in D.IN-2	Residential & C1		1.5429	1.5298	1.5251	1.5254	1.5444	1.5677	1.5948	1.6202	1,6254	1.5814	1.5680	1.5635	1.5632	1.5830	1.5875	1.6069	1.6347	1.6520	1.6660	1.6210	1.6072	1.6023	1.6027	1.6273	1.6471	1.6755	1.7138	1.7076	1.6615	1.6426	1.6423	1.6427	1.6678	1.6882
ical NYME	_	Jul-39	Aug-39	Sep-39 Oct-39	Nov-39	Dec-39	Jan 40	Mar 40	Apr-40	May-40	40	Aug-40	Sep-40	00:	Nov-40	Jan 41	Feb-41	Mar-41	Apr-41	Jun-41	Jul-41	Aug-41	Sep-41	Nov 4	Dec-41	Jan-42 Feb-42	Mar-42	Apr-42	Jun-42	Jul-42	Aug-42	Oct 42	Nov-42	Dec-42	Feb 43	Mar-43

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Differences Residential & C1 EX CGC PGA

NYMEX

Chattanooga Gas Company
Historical NYMEX and PGA Assumptions

Prices used in MEG25	Residential & C1	NYMEX CGC PGA																																								
Istorical NYMEX and PGA Assumptions Prices used in D.IN-2	Residential & C1	NYMEX CGC PGA	1.7174	1.7448	1.7566	1.7503	1.7030	1.6837	1.6834	1.6838	1.7047	1.7095	1.7304	1,7603	1.7884	1.8005	1,7341	1.7436	1.7258	1.7255	1.7259	1.7473	1.7522	1.7737	1.8044	1.6551	1.0430	1.7892	1.7741	1.7689	1.7686	7 7010	1.7961	1.8180	1.8495	1.8790	1.891/	1.0049	1.8184	1.8132	1.8128	220.1
IStoricai NYME. Pi	•	- I	Apr-43	May-43	Jun-43	State of the state	Sep-43	Oct-43	Nov-43	Dec-43	Jan-44	Feb-44	Mar-44	Apr-44	May-44	Jun-44	Aria 44	Sep 44	Oct-44	Nov-44	Dec-44	Jan-45	Feb-45	Mar 45	Apr.45	May 45	Jul 45	Aug-45	Sep-45	Oct-45	Nov-45	lan 46	Feb-46	Mar-46	Apr-46	May-46	Jun-46	Aug-46	Sep-46	Oct 46	Nov-46	24.75

	X and PGA Assumptions	
Company	and PGA	
Chattanooga Gas Compa	Historical NYMEX	

	1000 0000 0000	1			CZ-C IM IN DOCU COOL I	
		Residential & C1	al & C1		Residential & C1	Residential & C1
•	NYMEX	CGC PGA	PGA	NYMEX	CGC PGA	NYMEX CGC PGA
Jan-47			1.8358			
Feb-47			1.8410			
Mar-47			1.8635			
Apr-47			1.8957			
May-47			1.9259			
Jun-47			1.9390			
Jul 47			1.9320			
Aug-47			1.8798			
Sep-47			1.8639			
Oct-47			1.8585			
Nov-47			1.8582			
Dec-47			1.8586			
Jan-48			1.8817			
Feb-48			1.8870			
Mar-48			1.9101			
Apr-48			1.9431			
May-48			1.9741			
Jun-48			1.9875			
Jul-48			1.9803			
Aug-48			1.9268			
Sep-48			1.9105			
Oct-48			1.9049			
Nov-48			1.9046			
Dec-48			1.9051			
Jan 49			1.9287			
Feb-49			1.9342			
Mar-49			1.9578			
Apr-49			1.9917			
May-49			2.0234			
Jun-49			2.0371			
Jul-49			2.0299			
Aug-49			1.9750			
Sep-49			1.9582			
Oct 49			1.9526			
Nov-49			1.9522			
Dec 49			1 9527			

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DISCOVERY REQUEST NO. 8:

Please explain the purpose and relevance of each variable shown on Exhibit MHS-5, including how the RPGA variable relates to the PGA variable.

Response:

Basic summary descriptions of the variables used were presented in MHS-5, below are further detailed descriptions of the variables used.

Commercial Variables

<u>CGCTRD</u> – Trend variable used to capture the change that occurs overtime to base load usage. As base load appliances such as dryers, stoves, and hot water heaters are replaced with more efficient appliances, there is a natural decline in the use per customer.

<u>CONSTANT</u> – Base load usage. Usage by any customer regardless of temperature for base load appliances such as dryers, stoves, and hot water heaters.

<u>SDD55MRD</u> – Number of heating degree days per meter reading day with a base temperature of 55 degrees. Variable used to show increase in heat load usage that occurs below 55 degrees. Indicates the majority of commercial customers using heat would be on at this point.

<u>SDD72MRD</u> – Number of heating degree days per meter reading day with a base temperature of 72 degrees. Variable used to show increase in heat load usage that occurs below 72 degrees. Indicates that basic heat sensitivity begins at this point where smaller businesses would normally react to colder temperatures.

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TSDD – Trend variable used to capture the heating sensitivity that occurs over time below 55 degrees. As heat load appliances such as furnaces and space heaters are replaced with more efficient appliances, there is a natural decline in the use per customer. SDD72MRD[-1] – Number of heating degree days per meter reading day below 72 degrees lagged one month. Indicates the weather a month ago correlates with customer behavior and usage the following month. An example of this time of correlation would be after a warm period of weather, commercial customers are less likely to turn on their furnaces for a day or two of cold weather. Conversely, after a cold period of weather, commercial customers are less likely to turn off their furnaces for a day or two of warm weather.

Residential Variables

<u>SDD65MRD</u> – Number of heating degree days per meter reading day with a base temperature of 65 degrees. Variable used to show increase in heat load usage that occurs below 65 degrees.

KNOT5565 – Variable used to capture the increase in heating sensitivity as temperatures fall below 65 degrees. Shows as temperatures approach 65 degrees some customers begins to react to weather and continue to react while others do not react until temperatures approach closer to 55 degrees. Allows us to model customer usage and behavior more closely during shoulder months when these conditions typically occur.

PSDD – Heat sensitivity to price. Shows correlation between the price of natural gas and a customer's usage. In order to model this effect, we regressed against the cross product

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of the lagged inflation adjusted price (RPGA[-1]) and the heating degree days per meter reading day with a base temperature of 65 degrees.

<u>CGCTRD</u> – Trend variable used to capture the change that occurs overtime to base load usage. As base load appliances such as dryers, stoves, and hot water heaters are replaced with more efficient appliances, there is a natural decline in the use per customer.

<u>CONSTANT</u> – Base load usage. Usage by any customer regardless of temperature for base load appliances such as dryers, stoves, and hot water heaters.

<u>FEBMAY07</u> – A series of one-time prior period billing adjustments made between February 2007 and May 2007.

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DISCOVERY REQUEST NO. 9:

Please explain the criteria that were used to select the models presented in MHS-5 and the exact specifications of the models estimated. Please explain which estimation techniques are used in the regressions and what estimation technique is used by Forecast Pro to compute coefficients?

Response:

The models used to run the regressions presented in Exhibit MHS-5 was Least Squares Multi-Variate Linear Regression. First, scatter plots were established then general relationships were established to heat. Knots were then established and tested. Time series plots were next added as seen at the top of Exhibit MHS-5. From this visual inspection, it was suggested there may be a base load and heat load long term trend. Known economic effects effecting demand such as price were then included in the models.

The criteria used to verify the models presented in Exhibit MHS-5 was Adj. R-square. The next measure used after the Adj. R-square was Durbin Watson and Ljung Box. Also in establishing the model criteria, we measured the BIC and MAPE. Individual variables were evaluated based upon their t-Statistic and those with less than 95% significance were rejected. Final testing was to perform a holdout period or ex-ante for periods of 12-30 months. If the model performance would have declined significantly between the data

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period and holdout period, the model would have been rejected due to its inability to accurately project the future.

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DISCOVERY REQUEST NO. 10:

Define all variables used in Exhibit MHS-5, including but not limited to X₄ which is not explained for commercial customers, the prior billing adjustment dummy that is called FEBMAY07, but it is stated adjustment took place February and April. Provide the data for TSDD and PSDD used in regression models.

Response:

Please see Discovery Request No 8 for explanations of all variables used in Exhibit MHS-5. Price, X₄ was not used as a variable in the commercial regression. The variable defined at FEBMAY07 was used to adjust for prior period billing adjustments made between February 2007 and May 2007. As presented in MHS-5, the variable TSDD is the cross product of CGCTRD and SDD65MRD. Also as presented in MHS-5 and described in Discovery Request No 8, PSDD is the cross product of RPGA[-1] and SDD65MRD.

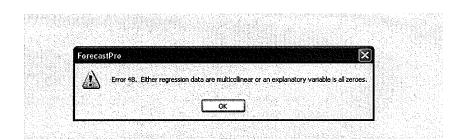
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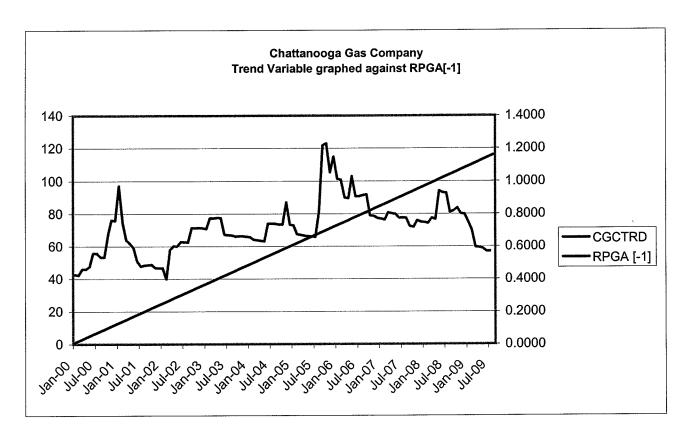
DISCOVERY REQUEST NO. 11:

Is collinearity an issue for residential customers, given definitions of PSDD and TSDD and specification of model? If not, explain why it is not a problem.

Response:

No, collinearity is not an issue for residential customers. As clearly shown in the attachment Discovery Request 2-11, the long term trend used does not directly correlate to the price of natural gas. If collinearity was an issue, an error message similar to the one seen below would have been reported and the model would have been rejected.





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DISCOVERY REQUEST NO. 12:

For the purposes of this request please refer to the response to data request 150-3 and Minimum Filing Guideline 25. Explain the differences in usage reported in the excel file CGC TRA FGItem 25-Revenue Model (tab UPC) and attachment to DR 150-3. Specifically, usage for residential customers in file CGC TRA FGItem 25-Revenue Model reaches values as high as 13; however, in attachment to DR 150-3, residential usage reported is no higher than 6.

Response: Presented in MFG 25 is average customer consumption in Dekatherms by month. Presented in DR 150-3 is average customer consumption per Meter Reading Day in Therms.

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DISCOVERY REQUEST NO. 13:

For the purposes of this request please refer to the response to Minimum Filing Guideline 25. Why is the base RPGA in CGC TRA FGItem 25-Revenue Model (tab UPC, cell C65) 164.1?

Response: The value represented in Cell C65 under the UPC tab of Minimum Filing Guideline 25 represents the monthly Consumer Price Index for the beginning month of our data set, January 2000. This value is used to adjust the PGA term for inflation.

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DISCOVERY REQUEST NO. 27:

Please provide the following data for each rate schedule the Company intends to apply its alignment and usage adjustment: the base load and heat sensitivity factor allowed in the Company's last rate case, by rate class; the normal degree days by month since the implementation of last rate case; the average number of customers by applicable rate class for each month since the implementation of last rate case; the actual usage by rate class for each month since the implementation of last rate case; the R factor as allowed in the last rate case.

Response:

Please refer to the table below for the R factor, base load and heat sensitivity factor allowed in the Company's last rate case, by rate class:

		HEAT	
	BASE	SENSITIVE	
	RATE	FACTOR -	BASE LOAD -
	(\$THERM)	HSF	BL
	HEAT	(THERM)	(THERM)
(R-1) RESIDENTIAL GENERAL SERVICE			
Winter (November – April)	0.18259	0.171325	12.133
(R-4) MULTI-FAMILY HOUSING SERVICE			
Winter (November - April)	0.217674	0.068798	17.033
(C-1) SMALL COMMERCIAL AND INDUSTRIA	L		
GENERAL SERVICE			
Winter (November - April)	0.18581	0.240546	9.433
(C-2) MEDIUM COMMERCIAL AND			
INDUSTRIAL GENERAL SERVICE			
Winter (November - April)	0.169998	2.66182	813.367

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Please refer to the table below for the normal heating degree days from the last rate case.

	Leap Year	Non- Leap Year
January	795	795
February	599	581
March	397	405
April	167	174
May	37	40
June	0	0
July	0	0
August	0	0
September	14	14
October	165	165
November	415	415
December	697	697
Total	3,286	3,286

Please refer to the table below that lists data responses where the following data has already been provided:

Residential R-1 Customers by Month-	CAPD 1 st set Discovery Request No. 3
Residential R-1 Consumption by Month-	CAPD 1 st set Discovery Request No. 4
Residential R-4 Customers by Month-	CAPD 1 st set Discovery Request No. 5
Residential R-4 Consumption by Month-	CAPD 1 st set Discovery Request No. 6
Commercial C-1 Customers by Month-	CAPD 1 st set Discovery Request No.7
Commercial C-1 Consumption by Month-	CAPD 1 st set Discovery Request No. 8
Commercial C-1 Customers by Month-	CAPD 1 st set Discovery Request No.9
Commercial C-1 Consumption by Month-	CAPD 1 st set Discovery Request No. 10
Commercial T-3 Customers by Month-	CAPD 1 st set Discovery Request No.24
Commercial T-3 Consumption by Month-	CAPD 1 st set Discovery Request No. 25

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DISCOVERY REQUEST NO. 46:

Provide the amount and account for any non-recurring charges, such as non-jurisdictional expenses, Outside Service Expenses, and outsourcing call center costs recorded in the twelve months ended 12/31/09.

Response:

Please see attachments 46-1 through 46-9.

Revised Response:

The Company is revising attachment 46-1, (the summary sheet of adjustments) to reflect the property tax adjustment as a direct expense adjustment. The original response had shown the adjustment as an allocated expense adjustment. As shown on originally filed attachment 46-7, the purpose of the adjustment is to adjust the actual amount for property tax for 2009 calendar year to the actual amounts incurred for 2009 for Chattanooga Gas Company and not AGL Services Company.

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CAPD Question 1-46
Attachment 46-1

Chattanooga Gas Company Elimination of non-jurisdictional expenses and other adjustments For the Year Ended December 31, 2009 (Revised 4-5-2010)

Civic Participation (Schedule 46-2)

Direct (15,000) Allocations (16,746)

To eliminate non-juristdictinal civic participation.

Promotional Advertising (Schedule 46-3)

Direct (32,076)
Allocations (3,880)

To eliminate promotional advertising.

Call Center (Schedule 46-4)

Direct

To adjust expenses to reflect in-sourcing of call center.

Allocations

274,975

Goodwill (Schedule 46-5)

Direct

(493)

To eliminate goodwill advertising.

Allocation

Total outside meter reading services (Schedule 46-6)

Direct (129,808)

Allocation

To elimate outside meter reading cost no longer incurred due to automation of meter reading.

Property Tax (Schedule 46-7)

Allocation

(165,163) Revised to show as direct-not allocated

To adjust property tax accrual for amounts per 2009 payments.

PUHCA tax allocation (Schedule 46-8)

Direct

Allocation 73,531

To eliminate effects of non-jurisdictional tax allocation amounts.