

ATTORNEYS AT LAW

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Jennifer L. Brundige jbrundige@farmerluna.com

May 12, 2009

filed electronically in docket office 5/12/2009

Timothy Phillips, Esq.
Mary L. White, Esq.
T. Jay Warner, Esq.
Consumer Advocate and Protection Division
Office of the Attorney General & Reporter
2<sup>nd</sup> Floor, 425 5<sup>th</sup> Avenue North
Nashville, TN 37243-0491

Re: Docket 07-00224

Dear Tim, Mary, and T. Jay:

Enclosed please find Chattanooga Gas Company's ("CGC") updated responses to certain discovery requests from the CAPD's First Set of Discovery Requests. Please note that the CD attachments for Nos. 17 and 24 and the paper attachment for Nos. 27 and 35 contain confidential information and are being filed under seal pursuant to the Agreed Protective Order entered on March 4, 2008 in this docket.

Sincerely yours,

Jennifer L. Brundige

**Enclosures** 

cc: Kelly Cashman-Grams (responses w/o attachments)

TRA Docket Room Shannon Pierce, Esq.

### **Question 1:**

Please identify each person whom you expect to call as an expert witness at the hearing on the merits in this docket, and for each such expert:

(a) Identify the field in which the witness is to be offered as an expert;

### **Response:**

Each witness expected to present expert testimony in this matter on behalf of Chattanooga Gas Company, Inc. has as part of the submitted pre-filed testimony in this matter.

(b) Provide complete background information, including the witness's current employer, as well as his or her educational, professional and employment history, and qualifications within the field in which the witness is expected to testify;

### Response:

See pre-filed testimony and exhibits filed in this matter on July 30, 2008 and April 1, 2009.

(c) Identify all publications written or presentations presented in whole or in part by the witness, including either a copy of all such publications and presentations or a reference to where such publications and presentations may be publicly obtained;

### Response:

See pre-filed testimony and exhibits filed in this matter on July 30, 2008 and April 1, 2009, and see also Attachment 1(c) for the referenced materials that Mr. Sherwood still has in his possession. To the best of his knowledge, he is unaware whether other referenced materials can be obtained publicly.

(d) Provide the grounds (including without limitation any factual bases) for the opinions to which the witness is expected to testify, and provide a summary of the grounds for each such opinion;

### Response:

See pre-filed testimony and exhibits filed in this matter on July 30, 2008 and April 1, 2009.

(e) Identify any matter in which the expert has testified (through deposition or otherwise) by specifying the name, docket number, and forum of each case, the dates of the prior testimony and the subject of the prior testimony, and identify the transcripts of any such testimony;

### **Response:**

See pre-filed testimony and exhibits filed in this matter on July 30, 2008 and April 1, 2009. To the best of Mr. Sherwood's recollection, he has provided testimony in the following dockets or before the following authorities.

District of Columbia Public Service Commission – Docket 874 (Continuing Docket on Capacity Planning and Gas Supply) 2001, 2002, 2003, 2004

Georgia Public Service Commission - Docket No. 24960 (AGLC Capacity Supply Plan) 2007

Maryland Public Service Commission – Docket No. 8509 (Continuing Docket on Capacity Planning and Gas Supply) 1998, 1999, 2001, 2004

Maryland Public Service Commission – Docket No. 8951 (Capacity Planning Case) 2004

Maryland Public Service Commission – Docket No. 8981 (Third Party Transport Case) 2004

Tennessee Regulatory Authority – Docket No. 07-00224 (Chattanooga Gas Company's Gas Purchases and Related Sharing Incentives) 2007 - present

Tennessee Regulatory Authority – Docket No 08-00012 (Approval of Chattanooga Gas Company's Asset Management Agreement) 2008

Virginia State Corporation Commission – Docket No. PUE-2003-00131 (2003)

Virginia State Corporation Commission – Docket No. PUE-2003-00354 (2003)

Illinois Commerce Commission (while employed with Illinois Power Company) generally regarding gas supply matters

(f) Identify the terms of the retention or engagement of each expert including but not limited to the terms of any retention or engagement letters or agreements relating to his/her engagement, testimony, and opinions as well as the compensation to be paid for the testimony and opinions;

### **Response:**

Mr. Sherwood who has pre-filed testimony in this matter is an internal employee of the AGL Services Company.

(g) Identify any exhibits to be used as a summary of or support for the testimony or opinions provided by the expert; and

### Response:

See exhibits filed with the Company's pre-filed testimony on July 30, 2008 and April 1, 2009. The Company reserves the right to use any demonstrative exhibits and will provide them to the CAPD at the hearing prior to using them.

(h) Please produce copies of all documents, summaries, charts, trade articles, journals, treatises, publications, workpapers, file notes, chart notes, tests results, interview notes, and consultation notes provided to, reviewed by, utilized by, relied upon, created by, or produced by and proposed expert witness in

evaluating, reaching conclusions or formulating an opinion in this matter.

Response:

As agreed to by the parties, this request has been modified to require CGC to

produce the documents "relied upon or produced by any witness" that are related

to the testimony. CGC has modified this request accordingly.

To the best of its knowledge, the Company has already produced all such

documents in its pre-filed testimony and exhibits filed on July 30, 2008 and April

1, 2009, and in its responses to the CAPD's discovery requests. To the extent,

CGC identifies additional documents or additional issues arise, CGC will

supplement the appropriate filing or response prior to the hearing on the merits.

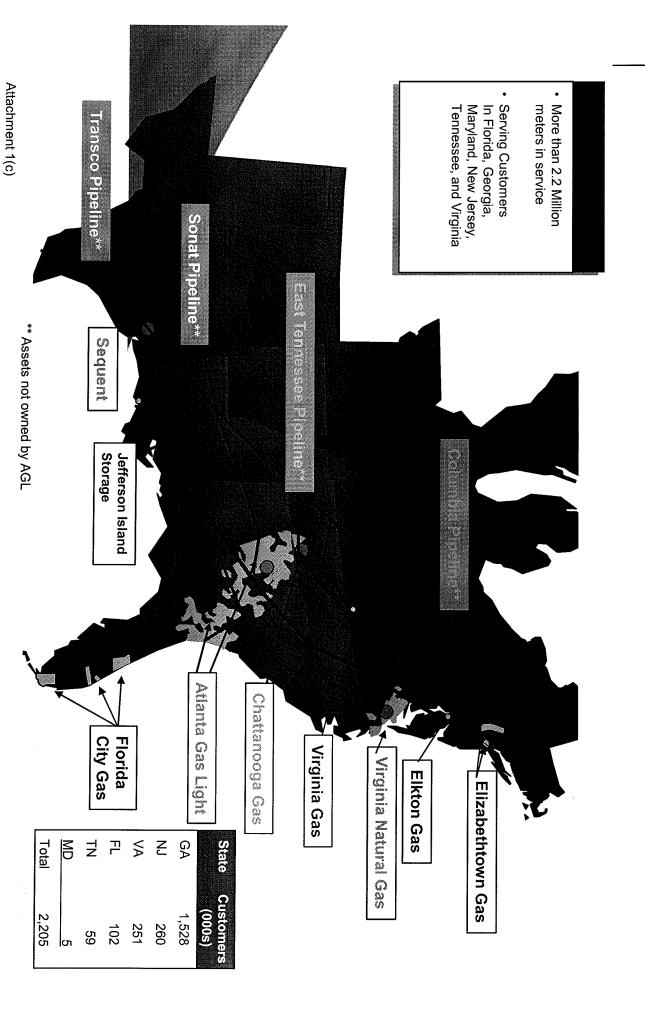
### Local Distribution Company Perspective Gas Storage Valuation

**AGL** Resources Supply and Capacity Planning Tim Sherwood, Managing Director - Gas



AGL Resources

### **AGL Resources Gas Operations**



### Value of Storage in Utility Portfolios

- enhance transport efficiency Storage as a portfolio shaping capacity resource to
- Storage as a load balancing tool on a day ahead or intraday basis
- Storage as a commodity source during supply disruptions (well freeze off or hurricane)
- Storage as a gas cost management tool to capture seasonal cost advantages and avoid high Gas Daily purchases

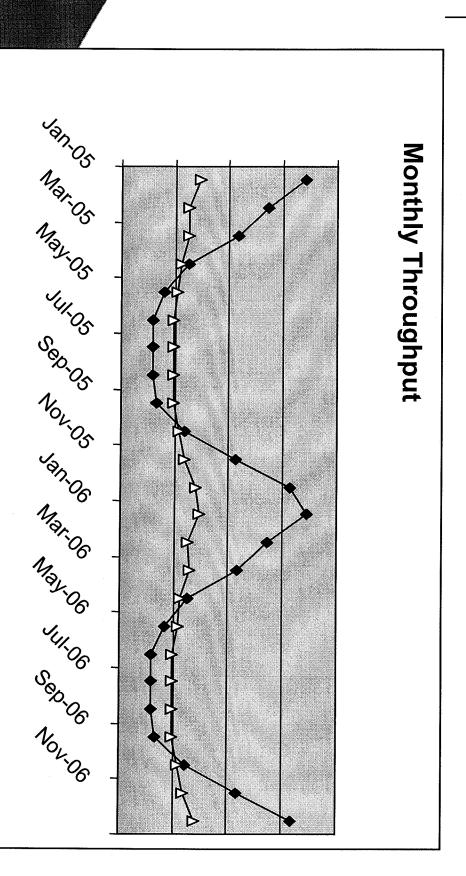


# Storage as a Portfolio Shaping Capacity Resource

- significant winter versus summer load differential Seasonal space heat usage typically results in
- Firm Transportation can be used to fill storage in summer and serve load in winter, thus improving resource utilization
- Short haul storage transportation from market area storage may be lower cost than traditional long haul transport.

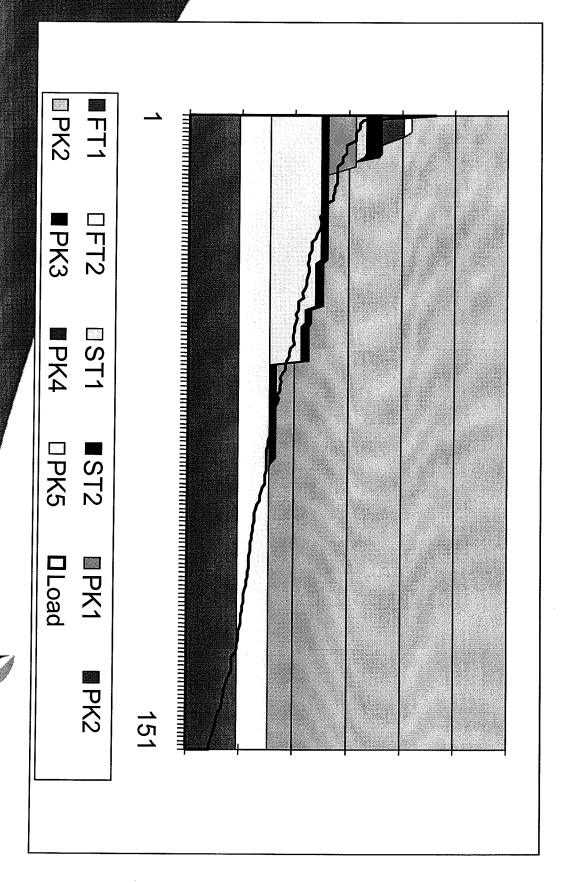


# Customer Mix and Weather Impacts on Seasonal Usage





### Storage and Load Duration



AGL Resources

## Limitations on Seasonal Storage Flexibility

- summer withdrawals Seasonal based rights may limit winter injections or
- Injection right typically 50% of withdrawal rights
- physical inventory levels Daily withdrawal rights dependent upon minimum
- Reduced withdrawal at 30% to 35% inventory level
- Many storage service tariffs establish maximum winter season amount of gas that can be left in storage at the end of



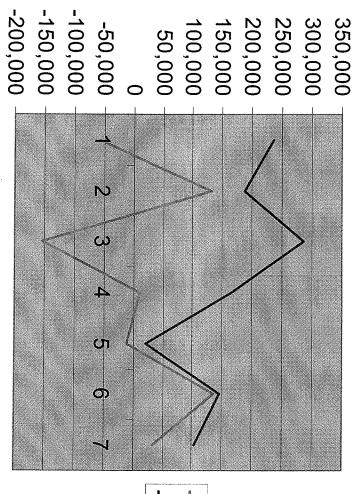
### Storage as a load balancing tool

- variation dramatically from day to day, due to temperature In space heat saturated utilities load may change
- Weather forecast error can cause load to vary significantly from forecast during the day
- Some pipelines require gate station operator to be in balance each day through no notice storage activity
- advantage tolerance levels which may be used for economic Transportation customers are generally given



### Day to Day Load Change

### **Daily Load Change**



**System Load Difference** 

Day to Day DifferenceDaily Change

Day

AGL Resources

### Weather Forecast Error

Day	Forecasted HDD	Actual HDD	Difference	Percentage
_	28	27		3.57%
2	23	24		4.35%
ω	30	21	9	30.00%
4	26	23	ω	11.54%
<b>5</b> 1	23	19	4	17.39%
6	27	24	ω	11.11%
7	30	29		3.33%



## Limitations on Daily Storage Flexibility

- requirements on daily balanced pipelines Some storage "held back" to manage swing
- On most valuable days market area storage dispatched to meet load requirements
- Ratable payback of borrowed gas may not fit real need of utility
- Some customer transportation programs provide transporters that limits LDC's ability to commit storage nomination deadlines and delivery flexibility to



## Storage to mitigate supply disruptions

- demand, loss of production impacts operational Given the tight balance between flowing supply and reliability
- Extreme cold in the production region can result in short duration "freeze offs" of flowing supply
- Tropical storms and hurricanes in the Gulf of Mexico can create prolonged production loss
- some regions Damage to pipeline facilities can impact supply in



## Record Low Temperatures in Gulf Coast

There have been several extreme cold outbreaks in the natural gas production region of the United States.

Houston January 1979

1<sup>st</sup> .... 25 F

2<sup>nd</sup> .... 16 F

New Orleans January 1977

17<sup>th</sup> .... 25 F

18<sup>th</sup> .... 16 F 19<sup>th</sup> .... 19 F

Sunday Forecast

Tallahassee

January 1984 21<sup>st</sup> .... 21 F

22<sup>nd</sup> .... 24 F 23<sup>rd</sup> .... 28 F

Corpus Christi January 1962 10<sup>th</sup> .... 18 F 11<sup>th</sup> .... 20 F 12<sup>th</sup> .... 14 F

Tutsa

Tutsa

Mashville

Raisigh

Mashville

Birmingham

Atlanta

Charlotta

Austlin

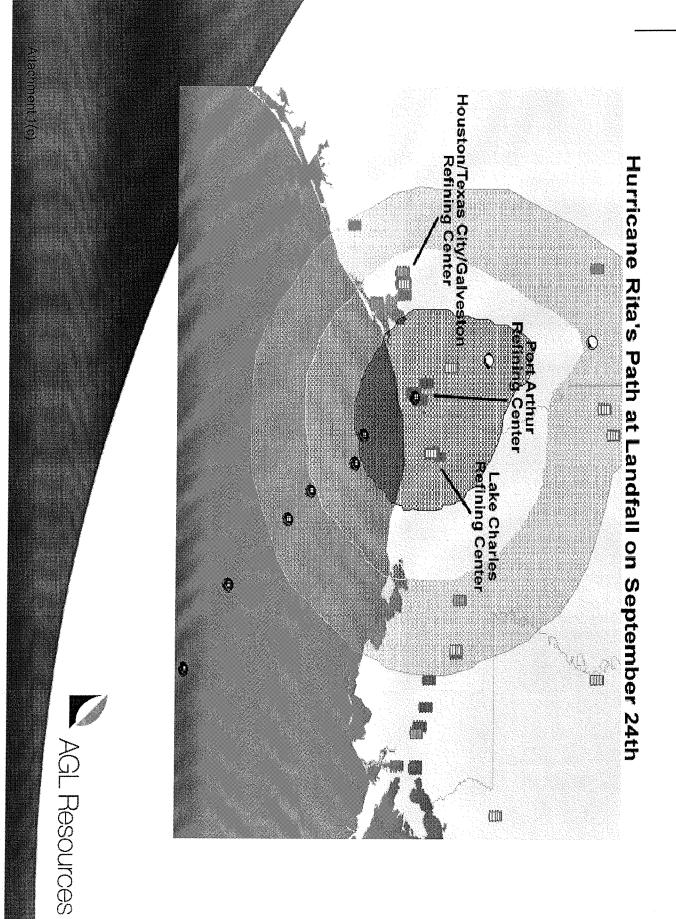
Tampa January 1985

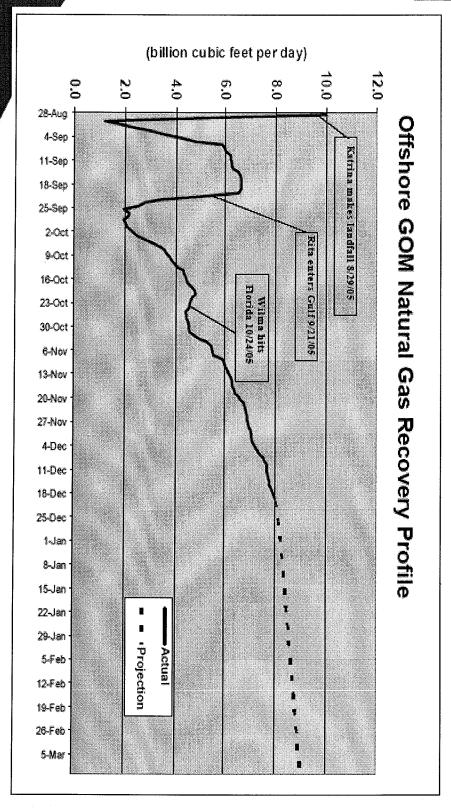
21<sup>st</sup> .... 21 F 22<sup>nd</sup> .... 25 F

Source: Weather Channel



# Gulf of Mexico Production Vulnerable to Tropical Weather



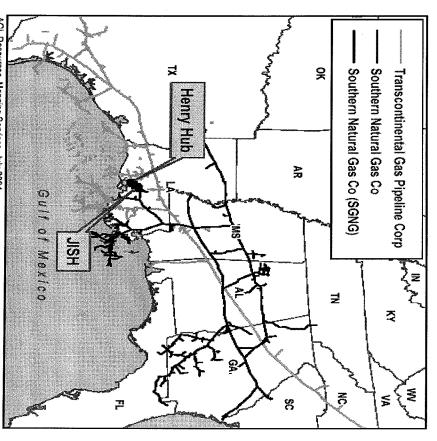




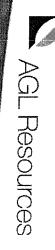


# Production Area Salt Storage a Good Option

- Facilities handle dryer gas than wells or striping plants and are designed to operate in severe cold
- High deliverability to inventory ratio allows significant supply replacement options for long or short term disruptions as well as balancing daily supply and demand
- Typically interconnected to several pipelines, which provides flexibility
- Jefferson Island Storage Hub (JISH)
- Connected to Columbia Gulf, Gulf South, LIG, NGPL, Sabine, Tennessee, and Transco



AGL Resources, Mapping Services, July 2004

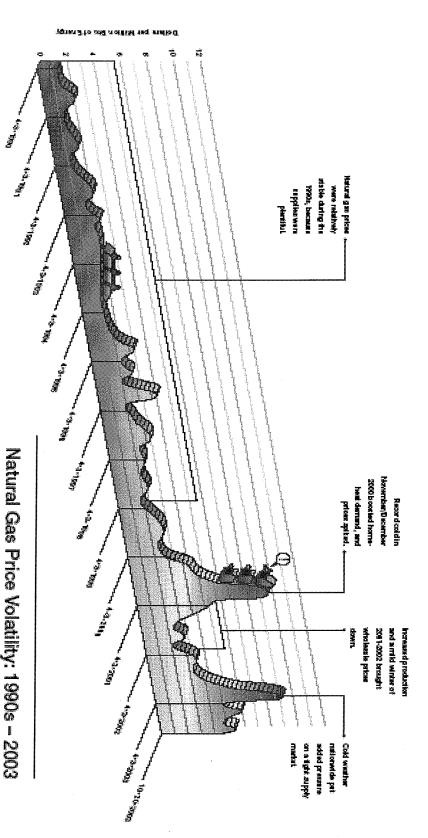


# Storage as a Commodity Cost Management Tool

- Seasonal space heat usage typically provides advantage opportunity to lock in a summer / winter price
- Seasonal, base load storage withdrawals can limit exposure to higher winter base load supplies
- increases driven by weather Daily price swings are often compounded by demand
- Daily storage injection and withdrawal activity can capture downward swings and mitigate upward price spikes



## Price Volatility has increased in recent years

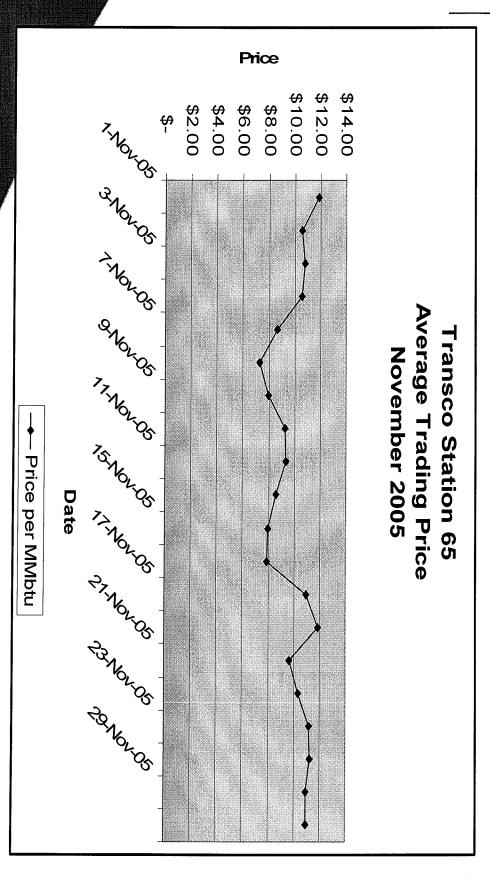




(NYMEX Henry Hub Futures Daily Settlement Prices)



### Daily Price Swings Can Be Significant





## Summary of Storage in Utility Portfolios

- Utilities are generally driven to lower the cost to customers
- Storage can be used to shape portfolio and reduce fixed costs
- Storage injections and withdrawals can be used to balance supply and demand
- Storage coupled with firm transportation can mitigate impacts of supply disruptions
- Storage inventory management can be used to reduce gas acquisition costs

Operational and tariff requirements may limit the ability to capture full economic potential



### Thank You

Tim Sherwood, AGL Resources tsherwoo@aglresources.com



Docket No. 07-00224 CAPD: First Set dated March 18, 2008 UPDATED May 12, 2009

### **Question 2:**

Please identify the name and location of all persons having knowledge of discoverable matters in this case.

### Response:

In accordance with the parties' past practicies for answering this question, see prefiled testimony and exhibits filed in this matter on July 30, 2008 and April 1, 2009.

**Question 3:** 

Please produce copies of all documents referred to or relied upon in responding to

these discovery requests.

**Response:** 

To the best of its knowledge, the Company has already produced all such documents

in its pre-filed testimony and exhibits filed July 30, 2008 and April 1, 2009, and in its

responses to these discovery requests. To the extent, CGC identifies additional

documents that are responsive or additional issues arise, CGC will supplement the

appropriate response prior to the hearing on the merits.

### **Question 4:**

Please produce copies of all hearing exhibits that you plan to introduce, use, or reference at the hearing on the merits in this docket.

### Response:

See exhibits filed with the Company's pre-filed testimony on July 30, 2008 and April 1, 2009. Additionally, the Company reserves the right to use, as an exhibit for cross examination or re-direct, any documents that have been produced in this matter. The Company reserves the right to use any demonstrative exhibit and will exchange any such exhibit with the CAPD at the hearing before its use.

### **Question 5:**

Please produce copies of all documents – including, without limitation, workpapers, spreadsheets, summaries, charts, notes, exhibits, articles, journals, treatises, periodicals, publications, reports, records, statements, Internet web pages, or financial information – that you contend support the factual assertions, conclusions, or opinions of any of your witnesses in this matter and also all documents that contradict the factual assertions, conclusions, or opinions of any of your witnesses in this matter.

### **Response:**

As agreed to by the parties and consistent with how the CAPD has responded to this same question in CGC's first set of discovery request propounded on the CAPD (see Discovery Request No. 5 (dated June 6, 2008)), this request has been modified to require production of documents "relied upon" by the witnesses as related to their testimony, and CGC responds accordingly.

To the best of its knowledge, the Company has already produced all such documents in its pre-filed testimony and exhibits filed on July 30, 2008 and April 1, 2009, and in its responses to the CAPD's discovery requests. To the extent, CGC identifies additional documents or additional issues arise, CGC will supplement the appropriate filing or response prior to the hearing on the merits.

**Question 6:** 

Please produce copies of all documents – including, without limitation, workpapers,

spreadsheets, summaries, charts, notes, exhibits, articles, journals, treatises, periodicals, publications, reports, records, statements, Internet web pages, or financial

information - relied upon by any of your witnesses in evaluating, reaching

conclusions, or formulating an opinion in this matter.

Response:

As agreed to by the parties and consistent with how the CAPD has responded to this

same question in CGC's first set of discovery request propounded on the CAPD (see

Discovery Request No. 6 (dated June 6, 2008)), this request has been modified to

require production of documents "relied upon" by the witnesses as related to their

testimony, and CGC responds accordingly.

To the best of its knowledge, the Company has already produced all such documents

in its pre-filed testimony and exhibits filed on July 30, 2008 and April 1, 2009, and in

its responses to the CAPD's discovery requests. To the extent, CGC identifies

additional documents or additional issues arise, CGC will supplement the appropriate

filing or response prior to the hearing on the merits.

**Question 7:** 

Please produce copies of all documents – including, without limitation, workpapers,

spreadsheets, summaries, charts, notes, and exhibits – created by or for or prepared by or for any of your witnesses in evaluating, reaching conclusions, or formulating an

opinion in this matter.

Response:

As agreed to by the parties, this request has been modified to require CGC to produce

the documents "relied upon or produced by any witness" that are related to the

testimony in this matter.

To the best of its knowledge, the Company has already produced all such documents

in its pre-filed testimony and exhibits filed on July 30, 2008 and April 1, 2009, and in

its responses to the CAPD's discovery requests. To the extent, CGC identifies

additional documents or additional issues arise, CGC will supplement the appropriate

filing or response prior to the hearing on the merits.

Docket No. 07-00224 CAPD: First Set dated March 18, 2008 UPDATED May 12, 2009

### **Question 8:**

Identify all information, documents and things filed in the present docket records, including all responses to discovery of the parties and data request from the TRA Staff, which CGC produced in this docket and does not agree to stipulate to the authenticity of such information, documents and things in this proceeding. For each separate piece of information, documents, and things which CGC produced in this docket and CGC contends is not admissible as evidence describe in specific detail any objection(s) CGC claims as to admissibility into the evidentiary record in this docket.

### Response:

CGC objects to this request because it seeks the mental impressions of CGC's attorneys regarding Tennessee Rules of Civil Procedure and Evidence. This request does not seek factual information from CGC that is designed to lead to the discovery of admissible evidence.

Docket No. 07-00224 CAPD: First Set dated March 18, 2008 UPDATED May 12, 2009

### **Question 9:**

Please provide all Excel files (or other data files) containing the information provided in response to these requested items.

### Response:

To the best of its knowledge, all data that has been maintained in Excel files and requested in such format has been provided in response to these discovery requests.

### **Question 17:**

Please provide a complete copy of each ACA filing, including all supporting documentation and workpapers, submitted to the Tennessee Regulatory Authority during the last four fiscal years ended December 31, 2007.

### Response:

See the attached.

The Company has also provided a copy of CGC's confidential ACA filing for years ended June 2004, June 2005, June 2006, and June 2007 in electronic format on CD. The CD is labeled Docket No. 07-00224 CAPD Data Request Question #17 Response.

CONFIDENTIAL – The attached information is provided under seal and is to be protected as required by the Agreed Protective Order dated March 4, 2008 in TRA Docket 07-00224.

CGC is supplementing this response by providing the attached paper copy of CGC's ACA filing for the 12 months ending June 30, 2008, and a copy of the CONFIDENTIAL supporting data in electronic format on CD. The CD is labeled Docket No. 07-00224 CAPD Data Request # 17 UPDATED CONFIDENTIAL Response, and is provided under seal subject to the Agreed Protective Order dated March 4, 2008 in TRA Docket 07-00224

### Attachment 17

**AGL Resources** Atlanta Gas Light Chattanooga Gas Elizabethtown Gas Eikton Gas Florida City Gas Virginia Natural Gas **AGL Networks** Sequent Energy Management 800 477 5463 phone www.chattanoogagas.com 2207 Olan Mills Drive Chattanooga TN 3742

2008 OCT 31 PN 3: 30

T.R.A. DECKET ROOM

October 30, 2008

Chairman Hargett Tennessee Regulatory Authority Attention Sharla Dillon 460 James Robertson Parkway Nashville, TN 37243-0505

08-00206

Re:

Chattanooga Gas Company Report of Transactions in the Deferred Gas Cost Account in compliance with Tennessee Regulatory Authority Administrative Rule 1220-4-7-.03(2).

### Dear Chairman Hargett,

Attached is an original and thirteen copies of the Summary of the Transactions in Chattanooga Gas Company's Deferred Gas Cost Account for the twelve months ended June 30, 2008 and the computation of ACA factor effective December 1, 2008 (Attachment A) as required by Tennessee Regulatory Authority Administrative Rule 1220-4-7-.03(2).

### The resulting ACA factors are:

Rate Schedule		ACA Commodity Factor
R-1/R-4		\$0.0149/Therm
C-1		\$0.0149/Therm
A/C		(\$0.0321/Therm)
I-1		(\$0.3212/Dth)
Services	with two part (Demand and	Commodity Rates
	ACA Demand	ACA Commodity
	Factor	Factor
C-2	\$1.6908/Dth	(\$0.3212/Dth)
F-1	\$1.6908/Dth	(\$0.3212/Dth)

\$1.6908/Dth



Chattanooga Gas

T-2/T-3

Copies of the underlying accounting documents needed for the audit are being provided the Staff.

Also enclosed are an original and thirteen copies of Chattanooga Gas Company Tariff No. 1 Eighty -Fourth Revised Sheet No. 55.

If you or the TRA Staff have any questions please call me at 757 616 7510.

Sincerely,

Archie R. Hickerson

Director-Regulatory Affairs

C: Ms. Amanda Hwang Mrs. Pat Murphy

439,822.22 212,151.00 (276,396.00) 18,476.14

Cummany of Transactions Deferred Gas Account
Attachment A

3.599.317.24 3.000.063.77 2 37.041.20 3.000.063.77 2 37.041.20 3.000.063.77 2 38.722.41 169.447.39 28.722.41 169.447.39 28.722.41 169.623.10 (2.16.36.36.10 1.1.36.627.11 1.1.36.627.11 1.1.36.627.11 1.1.36.627.11 1.1.36.627.10 (2.5.36.36.10 1.7.2.36.30 1.1.36.36.11 1.1.36.627.10 (2.5.36.36.10 1.1.36.36.11 1.1.36.627.11 1.1.36.627.10 (2.5.36.36.10 1.1.36.36.11 1.1.36.627.10 (2.5.36.36.10 1.1.36.36.11 1.1.36.627.10 (2.5.36.36.10 1.1.36.36.11 1.1.36.627.10 (2.5.36.36.10 1.1.36.36.11 1.1.36.627.10 (2.5.36.36.11 1.1.36.627.10 (2.5.36.36.11 1.1.36.36.11 1.1.36.627.10 (2.5.36.36.11 1.1.36.36.11 1.1.36.627.10 (2.5.36.36.11 1.1.36.11 1.1.36.627.10 (2.5.36.36.11 1.1.36	(4,073,967,UT)	(6,189,728.10)	(6,104,928.69)	(6,431,613.20)	(6,318,974,87)	(6,433,447,66)	(6,079,188.80)		JUNE
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286,722.41 168,447.38  4,124,60.01 2,305,577.71  (2,50,505.47) (2,168,557.71  (3,50,522.77 1,136,577.71  (3,50,577.01 1,136,577.11  (3,50,777.01 1,136,577.71  (3,50,777.01 1,136,577.71  (3,50,777.01 1,136,577.71  (3,50,777.01 1,136,577.71  (3,50,777.01 1,722,477.71  (3,50,777.01 1,722,477.71  (3,50,777.81 1,722,477.71  (3,50,777.81 1,722,477.71  (3,50,777.81 1,722,477.71  (3,50,777.81 1,722,477.71  (3,50,777.81 1,722,477.71  (3,50,777.81 1,722,477.71  (3,50,777.81 1,722,477.71  (3,50,777.81 1,722,477.71  (3,50,777.81 1,722,477.71  (3,50,777.81 1,722,477.71  (3,50,777.81 1,722,477.71  (3,50,777.81 1,722,477.71  (3,50,777.81 1,722,477.71  (3,50,777.81 1,722,477.71  (3,50,777.81 1,722,477.71  (3,50,777.81 1,722,477.71  (4,50,777.81 1,722,477  (4,50,777.81 1,722,477  (4,50,777.81 1,722,477  (4,50,777	719,871.39 703,956,97	1538 898 84	3 602 600 60	14.400,000	3,308,53	60,872,26	(8,740,21)	(67,876,07)	45,084.34
(350,955,47) (2,165,931,10) (2,50,955,47) (2,165,931,10) (3,50,955,47) (1,135,632,10) (3,50,77,2			90,080,100,0	2,367,377,85	5,189,765,43	3,573,295.50	105,332,82	720,491.71	1,316,605.47
(1,50,858.47) (2,168.587.19) (2,50,858.47) (2,168.587.19) (3,50,858.47) (2,168.587.10) (3,50,577.00) (3,50,577.00) (3,50,577.00) (3,50,577.00) (3,50,577.00) (3,50,577.00) (3,50,577.00) (3,50,577.00) (3,50,577.00) (3,50,577.00) (3,50,577.00) (4,50,577.00)	(2,115.34)		14%,082,80	166,312.55	151,875.60	206,569.74	131,024.39	214,984.88	361,381.06
(2,509,658,47) (2,168,595,10) (3,532,225,15) (3,532		- 1							
1282.29.54    1282.72.51    1282.72.51    1282.72.50	(2,416,125.85)	6,069,428,39 . (85,395,46)	(473 400 77)	14,256,231.13	11,189,104.27	9,176,706.25	10,006,040.02	11,157,621,59	6,669,933,34
1,252,722,17 1,138,952,11  2,52,952,00  9,52,953,00  178,124,00  1			( continue	(81,818,78)	(49,397.12)	(50,350.65)	(3,353,853,69)	(5,239,433.08)	(7,435,295.79)
772,625.00 772,625.00 772,625.00 772,625.00 773,735.00	,048.84 2,007,388.47	5,984,032,93	7,503,780.21	14,218,911.34	11,119,707,15	9 126 355 80	8 669 106 23	(1,110,265.35)	(4,407,062,67)
(79,124.00) (74,176.00) (74,176.00) (74,176.00) (74,176.00) (75,176.40) (76,176.00) (76,17	.472.00 1,839,513.00 (101.00 1,677,311.00 (717.00) (886,101.00)	3,860,138.22 3,845,182.00	7,405,568.46 5,588,100.00	10,767,968,49 8,417,051,00	13,206,372.65	11,094,571.38 5,343,920.00	7,889,891,23 4,188,845,00		4,615,423.05
13.15 14.16  1.789.461.15 1.725.405.16  2.84.61.45 1.328.61  (47.589.33) 1.328.61  (47.589.33) 1.328.61  (47.589.33) 1.328.61  (47.589.33) 1.328.61  (47.589.33) 1.328.77.20  (47.759.27) 1.328.77.20  (47.759.27) 1.328.77.20  (47.759.27) 1.328.77.20			(9,049,102,00)	(00:001,386,6)	(8,417,051.00)	(7,111,472.00)	(5,343,920.00)		(3,206,338.00)
13.15 14.16  13.15 14.16  13.96.481.15 17.25.465.19  14.75.465.19	, or a, out ( ee, rau, uu)	(164,097.72)	(341,785.35)	(513,101.94)	(648,843.18)	(546,723.00)	(384,095.18)	(226,215,85)	(188,608.82)
1315   1416									
178-481.15   178-481.16   178-481.16   178-481.16   18.3	7.08 26.63	26.63	218.22	280.28	738.73	241.24	260.87	124 85	35
2.9.46.07 13.338.61 (47.398.33) 23.027.24 83.881.46 83.027.24 (32.47.39.83) (450.347.20) (356.72.81.83) (450.72.40) (356.72.81.83) (450.72.40) (24.47.80) (27.73.80) (24.47.80) (450.72.40) (27.73.80) (28.33.84.41.80) (27.73.80)		5 823 536 49	000101000					200	8
(480.347.28) (100.2411.45) (480.347.20) (13.74.788.20) (430.247.04) (13.54.78.80) (430.27.04) (13.54.78.80) (27.588.00) (27.588.00) (27.588.00) (27.588.00) (27.588.00)			18,427.34	13,086,097.83 18,450.68	11,252,689,20 28,421.52	8,780,537.62 31,116.64	8,359,181.91 32,484.18	36,909.46	3,579,827.89 33,070.17
(4) 241,450 (480,347,20) (4) 247,392,391 (4,300,240,08) (2,447,181,00) (4,000,730,48) (2,447,181,00) (4,000,730,48) (2,441,180) (4,000,730,48) (3,441,180,74) (4,000,74)	27,551,53	(8,546,20)	(4,461.83)	1,190.14	22,690,85	11,184.13	25,486.68	36,557,88	69,360.25
13.47.380.58.08 (43.02.38.08) (43.02.38.08) (43.02.38.08) (43.64.18.09) (27.4313.09		130.098.51	- 1	ļ					
12.4.48.00 (27.4.32.00 (36.4.32.00) (36.3.38.41 841,186.11	471.01) (5,156,244.10) 839.04) (4,870,105,56)	(5,069,827,59) (5,134,876,85)	(6,392,092,20) (5,748,510,40)	(5,279,158.87)	(5,398,844.55) (5,398,844.55)	(5,045,328.80)	350,885,28 (4,728,281,52)	(3,957,211.12)	(2,612,711.71)
388,398.41 841,186.11 .	496.00) (33,482.00)	(35,301.00)			(34 011 00)			(4,339,576.62)	5,297,250.42)
388,398.41 841,196,11	84次(4) 主公(16/18)(12.85(10))	ekilonoksasonekispetalah		(8)316,97A(87),000	(643,447.65)	(94,838,00)	(27,665.00)	(24,678,00) (18,602,00)	(18,602.00) Sext(Max.73)
	129.81 1,876,013.61	2,637,829.43	2,781,112.30	2.541.355.65	1 884 578 1	400			
ED - DEMAND 928 648 33 976 646 33					1,021,4100,4	7,481,485.22	1,424,088.82	1,742,068.08	2,265,848.28
TOTAL GAS PURCHASED 528,646,33 928,646,33 928,646,33 Company Use	646.33 926,646.31	928,646,33	911.884.36	926,646.33	926,646,33	926,646,33	926,646,33	926,646,33	926,646,33

### Attachment 17

Chattanooga Gas Company Summary of Transactions Deferred Gas Account Twelve Months Ended June 30, 2008 Attachment A Page 2 of 3

CHATTANOOGA GAS COMPANY COMPUTATION OF ACA FACTOR EFFECTIVE DECEMBER 1, 2008

### ALLOCATION OF ACA REFUND/SURHCARGE TO RATE CALSSIFICATION BASED ON VOLUMES 12 MONTHS ENDED JUNE 30, 2008

RATE SCHEDULE	Contract Demand	Annual Commodity DT Sales	Demand	Commodity	TOTAL	mand Per Jnit DT	Demand Per Commodity Unit DT	ommodity Per Unit DT	Co	TAL Per mmodity Init DT
Firm Indsutrial (F-1&T-2) Interruptible Industrial (I-1)	12,588	1,290,330 81,578	\$ 255,417	\$ (422,285) \$ (26,698)	(166,868) (26,698)	\$ 1.6908		\$ (0.3273) (0.3273)		
Med Com & Ind (C-2)	30,284	2,587,236	614,452	(846,722)	(20,000)	\$ 1.6908		\$ (0.3273)		
T-3 ALL OTHER (R-1, R-4, C-1) V-1	1,460 94,586	4,081,072	29,632 1,919,143	(1,335,608)	583,534	\$ 1.6908	\$ 0.4703	\$ (0.3273)	\$	0.1430
TOTAL	138,918	8,040,216	\$ 2.818.643	\$ (2.631.314) \$	187 330	 		 		

Chattanooga Gas Company Summary of Transactions Deferred Gas Account Twelve Months Ended June 30, 2008 Page 3 of 3

MCF SALES BY RATE CLASS AND OFF-SYSTEM REVENUE CREDIT ESTIMATE TWELVE MONTHS ENDED:

August 31, 2008

																Demand	Determinates	45.601	45,098	45 642	43,562	40,002	45,733	42.919	42 544	42,044	44,530	44 592	45.306	531,987	
		16.8%	18.9%	16.0%	89.6	6.3%	5.3%	2.7%	2.5%	2.7%	2.9%	5.8%	10.6%	100%			- C-5	30,965	30,299	31 109:	28 544	29,757	29.757	30,120	29 687	29 151	31.498	31,477	31,038	363,402	30,284
		1,349,215	1,522,079	1,287,720	771,604	503,253	424,867	215,636	199,392	216,264	232,709	463,934	853,543	8,040,216			T.3	2,067	2.091	2.042	2 257	2 2 1 5	2.185	411	469	511	618	712	1.947	17,525	1,460
	WINTER	1,349,215	1,522,079	1,287,720	771,604							463,934	853,543	6,248,095	DEMAI		F - 1/T-2	12,569	12,706	12.761	12.761	12.761	13,146	12,388	12,388	12.428	12,428	12,403	12,321	151,060	12,588
	SUMMER					503,253	424,867	215,636	199,392	216,264	232,709			1,792,121			T-3	37,883	33,036	26,680	22,964	18,732	17,478	6,656	7,830	9,124	11,178	15,890	24,148	231,599	
	•												1			!	T-2	199,169	189,860	194,386	161,970	164,709	164,305	148,547	148,494	154,104	160,729	173,183	159,789	2,019,245	
TOTAL	1017	2,102,197	2,296,800	4,005,737	1,401,459	1,141,971	1,033,449	859,879	861,410	097,440	938,205	1,207,629	1,557,834	16,424,010	7.3%	;	<u>*</u> -	515,930	551,825	556,951	504,921	455,277	426,799	489,040	505,694	517,948	533,589	554,622	520,354	6,132,950	
T-1, T-2 & T-3	762 087	774 774	778 047	690 055	636,340	91./'980	608,582	044,243	002,010	205,178	740,000	704.000	104,231	8,383,794	637525.88																
TOTAL	1.349.215	1.522.079	1.287.720	771 604	503 253	424 067	744,00 <i>1</i>	100 302	216.264	232 709	463 034	853 543	0 040 040	0,040,216	8,677,742	0		382,35/	426,064	370,280	226,714	147,493	116,816	105,423	108,825	104,961	123,868	178,683	295,752	2,587,236	
All Other	1,166,453	1,319,799	1,038,518	566.993	299.837	211 092	198 528	182,656	194.023	211.108	441 597	837 704	8 889 200	906,900,0		0-1	010	129,671	1/6,4/4	114,635	59,961	24,803	16,116	24,690	12,076	22,524	14,092	27,145	76,866	699,254	
<u>.</u>	25,572	6,226	6,633	6,426	5,814	5,630	4,859	4,062	4,718	4,450	4.091	3,097	81 578	5		R-4	1 272	1,010	904,	1,170	617	536	400	406	401	356	304	593	1,056	8,621	
7.	157,190	196,054	242,569	198,185	197,602	208,145	12,249	12,674	17,523	17,151	18,246	12,742	1.290.330			R-1	652 851	745 050	700,017	552,433	279,701	127,005	77,760	600'89	61,354	66,182	72,844	235,176	464,030	3,3/3,197	
Month	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	TOTAL			Month	90-uel	Eah-08	Mar	Mar-08	Apr-us	May-08	30-un-	/0-lnc	Aug-07	Sep-07	Oct-07	Nov-07		OIAL	

\* SS-1 and Discounted Volumes are included in T-1 Transportation and L-1 Sales. September 2007 T-3 Demand used for each month September-December 2007.

Chattanooga Gas Company
Summary of Transactions Deferred Gas Account
Twelve Months Ended June 30, 2008
Attachment A
Page 3 of 3

MCF SALES BY RATE CLASS AND OFF-SYSTEM REVENUE CREDIT ESTIMATE TWELVE MONTHS ENDED:
August 31, 2008

		Demand	45,601	45,096	45,912	43,562	44,733	45,088	42,919	42,044	44 544	44.592	45.306	531,987	
16.8% 18.9% 16.0% 9.6% 6.3% 5.3% 2.7% 2.5% 2.5% 5.8%	100%	ç	3965	30,299	31,109	28,544	29,757	29,757	29,120	29 151	31.498	31 477	31,038	363,402	30,284
1,349,215 1,522,079 1,287,720 771,604 503,253 424,867 215,636 199,392 216,264 232,709 463,934 863,543	8,040,216	T-3	2,067	2,091	2,042	2,257	2,215	2,185	469	511	618	712	1,947	17,525	1,460
WINTER 1,349,215 1,522,079 1,287,720 771,604 463,934 863,543	6,248,095 DEMAI	F - 1/T-2	12,569	12,706	12,761	12,761	12,761	12,140	12.388	12.428	12,428	12.403	12,321	151,060	12,588
SUMMER 503,253 424,867 215,636 199,392 216,264 232,709	1,792,121	T-3	37,883	33,036	26,680	22,964	18,/32	6.656	7,830	9,124	11,178	15,890	24,148	231,599	
		T-2	199,169	189,860	194,386	161,970	164,709	148,547	148,494	154,104	160,729	173,183	159,789	2,019,245	
2,102,197 2,296,800 2,065,737 1,461,459 1,141,971 1,033,449 859,879 861,410 897,440 938,205 1,207,629 1,557,834	16,424,010 7.3%	T-1*	515,930	551,825	555,951	504,921	455,277	489.040	505,694	517,948	533,589	554,622	520,354	6,132,950	
752,982 774,721 774,721 778,017 689,855 638,718 608,582 644,243 662,018 681,176 705,496 743,695 705,496	637525.88														
1,349,215 1,522,079 1,287,720 771,604 503,253 424,867 215,636 199,392 216,264 232,709 463,934 853,543	8,677,742		382,357	370 280	226 744	147 493	116.816	105,423	108,825	104,961	123,868	178,683	295,752	2,587,236	
All Other 1,166,453 1,319,799 1,038,518 566,993 299,837 211,092 198,528 182,656 194,023 211,108 441,597 837,704 6,668,308		C-1 C-2	129,872	114.635	59.961	24.803	16,116	24,690	12,076	22,524	14,092	27,145	76,866	699,254	
1-1 25,572 6,226 6,633 6,426 5,814 5,630 4,859 4,062 4,718 4,450 4,091 3,097		R-4	1,373	1.170	617	536	. 400	406	401	356	304	. 593	1,056	8,621	
F-1 157,190 196,054 242,569 198,185 197,602 208,145 12,249 12,674 17,523 17,151 18,246 12,742 1,290,330		R-1	652,851	552,433	279,701	127,005	77,760	68,009	61,354	66,182	72,844	235,176	464,030	5,575,197	
Month Jan-08 Feb-08 Mar-08 Apr-08 May-08 Jul-07 Aug-07 Sep-07 Dec-07 TOTAL		Month	Jan-08 Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	4	

<sup>\*</sup> SS-1 and Discounted Volumes are included in T-1 Transportation and L-1 Sales. September 2007 T-3 Demand used for each month September-December 2007.

CHATTANOOGA GAS COMPANY GAS TARIFF TRA NO.

Eighty Fourth Revised Sheet No. 55

### CURRENT LEVEL OF SURCHARGES AND REFUND CREDITS

### AMOUNTS INDICATED BELOW APPLY TO THE BILLING DETERMINANTS OF EACH INDIVIDUAL TARIFF

	F-1	F-1	1-1	T-2	T-3	R-1	R-4	C-1	C-2	C-2	A/C	V-1
RATES	Commercial and industrial Large Volume Firm Sales Service Demand	Commercial and Industrial Large Volume Firm Sales Service Commodity	Commercial and Industrial Interruptible Sales Service Commodity	interruptible Transportation Service With Firm Gas Supply Backup Demand	Low Volume Transport Demand	Residential	Aulti-Fami	Small Commercial and Industrial	Medium Commercial and Industrial Demand	Medium Commercial and Industrial Commodity	Residential and Commercial Air Conditioning	Natural Gas Vehicle Service
Billing Unit	DT	DT	DT	TO	DT	Therm	Therm	Therm	DΥ	Therm	Therm	Therm
IMCR Refuni ACA 12-08*	(1.3159) 1.6908	0.0000	0.0000	(1.3159) 1.6908	(1.3159) 1.6908	(0.0383) 0.0143	(0.0383) 0.0143	(0.0383) 0.0143	(1.3159) 1.6908	0.0000 (0.0327)	0.0000	0.0000
TOTAL	0.3749	(0.3273)	(0.3273)	0.3749	0.3749	(0.0240)	(0.0240)	(0,0240)	0,3749	(0.0327)	(0.0327)	0.0000
	-				**********	********						

<sup>\*</sup>IMCR refund made effective July 1, 2007 terminated Effective June 30,2008.

EFFECTIVE:

December 1, 2008.

<sup>\*\*</sup> Effective December 1, 2008. ACA01-08 Effective January 1, 2008 terminated November 30, 2008.

### **Question 23:**

Please state the amount of the annual gas asset management services payment shared with CGC's Tennessee ratepayers for the last four fiscal years ended December 31, 2007.

### Response:

In accordance with the Company's tariff, the gains from non-jurisdictional transactions the related sharing were reported on a calendar year basis for years ended December 31, 2004 and 2005. In 2007 the tariff was modified to provide that the reporting period that coincides with the Company's Fiscal Year, or if the Company has an asset management agreement, the accounting/recovery period that coincides with the contract year of the agreement. As a result, the most recent report was for the fifteen months ended March 31, 2007. The next report and determination of the amount to be shared will be for the twelve months ending March 31, 2008. The amounts shared with CGC's Tennessee ratepayers are as follows:

	Amount Credited to Customer
Calendar Year ended 12/31/2004	\$ 1,808,649
Calendar Year ended 12/31/2005	\$ 4,386,330
15 Months Ended 3/31/2007	\$ 1,763,341
12 Months Ended 3/31/2008	\$ 2,242,861 a/

A copy of the report for the twelve months ending March 31, 2008 will be provided when filed.

### a/ Updated data provided 5/12/2009

The data for the twelve months ended March 31, 2008 was provided to the CAPD when the report for that period was filed with the TRA. The cover letter of that transmittal to the CAPD was dated May 30, 2008, and noted that portions of the report are marked as Confidential. These Confidential pages must be maintained under seal and protected pursuant to the Agreed Protective Order dated March 4, 2008 in TRA Docket 07-00224.

### **Question 24:**

Please provide a complete copy of Sequent's book of profits and losses for Tennessee for the time period from January 1, 2004 through the present by calendar year, or copies of the documents whether or not they are kept in the form of a book.

### **Revised Response:**

See attached for the IMCR filings and the Chattanooga book from October 2004-present.

CONFIDENTIAL - Please note the attachments to this response are confidential and subject to the Agreed Protective Order dated March 4, 2008 in TRA Docket 07-00224.

CGC is supplementing this response to update the Chattanooga Book to present. This information is provided in electronic format on the enclosed CD labeled Docket No. 07-00224 Updated #24 Response CONFIDENTIAL Chatt. Book, which is Confidential and subject to the Agreed Protective Order dated March 4, 2008 in TRA Docket 07-00224. The IMCR filing for the twelve months ended March 31, 2008 was provided to the CAPD when the report for that period was filed with the TRA. The cover letter of that transmittal to the CAPD was dated May 30, 2008, and noted that portions of the report are marked as Confidential. These Confidential pages must be maintained under seal and protected pursuant to the Agreed Protective Order dated March 4, 2008 in TRA Docket 07-00224.

### **Question 27:**

Produce copies of all of Sequent's Tennessee franchise and excise tax returns for the years ended December 31, 2004, December 31, 2005, December 31, 2006, and December 31, 2007.

### Response

Please see attached for Sequent's Tennessee franchise and excise tax returns for the year ending December 31, 2006. Sequent was not required to file for the years 2004 and 2005. Sequent has filed for an extension for the 2007 return, which will be due on October 15, 2008.

Please note this attachment to this response is Confidential, provided under seal and is to be protected as required by the Agreed Protective Order dated March 4, 2008 in TRA Docket 07-00224.

CGC is supplementing this response by providing a copy of the 2007 return, which is CONFIDENTIAL and subject to the Agreed Protective Order dated March 4, 2008 in TRA Docket 07-00224.

### Question 30:

Please provide Sequent's total dollar amount and volume of sales related to the asset management contracts between Sequent and CGC for the fiscal years ended December 31, 2004, December 31, 2005, December 31, 2006, and December 31, 2007.

### Response:

In accordance with the Company's tariff, the gains from non-jurisdictional transactions the related sharing were reported on a calendar year basis for years ended December 31, 2004 and 2005. In 2007 the tariff was modified to provide that the reporting period that coincides with the Company's Fiscal Year, or if the Company has an asset management agreement, the accounting/recovery period that coincides with the contract year of the agreement. As a result, the most recent report was for the fifteen months ended March 31, 2007. The next report and determination of the amount to be shared will be for the twelve months ending March 31, 2008. The Sales volumes and Revenue are provided consistent with the sharing reporting periods. The data for the twelve months ended March 31, 2008 will be provided when the report for that period is completed.

	Sales Volume Dth	Value	
12 Months Ended 12/31/2004	32,055,627	\$ 193,083,818	a/
12 Months Ended 12/31/2005	33,421,172	\$ 296,050,297	
15 Months Ended 3/31/2007	30,851,338	\$ 219,646,711	
12 Months Ended 3/31/2008	22,345,514	\$ 166,343,803	b/

a/ Includes 1,000 Dth Capacity Release and \$11,000 Capacity Release Revenue

b/Updated data provided 5-12-2009

The data for the twelve months ended March 31, 2008 was provided to the CAPD when the report for that period was filed with the TRA. The cover letter of that transmittal to the CAPD was dated May 30, 2008, and noted that portions of the report are marked as Confidential. These Confidential pages must be maintained under seal and protected pursuant to the Agreed Protective Order dated March 4, 2008 in TRA Docket 07-00224.

Please provide copies of all asset management contracts between Sequent and

entities other than CGC for the time period from January 1, 2004 through the present.

**Question 35**:

Please provide copies of all asset management contracts between AGL affiliates

and their asset managers for the time period from January 1, 2004 through the present.

**Revised Response:** 

Attached are the asset managements between Sequent and AGL affiliates.

CONFIDENTIAL - Please note the supplemental attachments to this response are

confidential and subject to the Agreed Protective Order dated March 4, 2008 in TRA

Docket 07-00224.

CGC is supplementing this response to include the attached CONFIDENTIAL

Asset Management and Agency Agreement between Virginia Natural Gas, Inc. and

Sequent Energy Management, L.P., that became effective April 1, 2009, after approval

by the State Corporation Commission of the Commonwealth of Virginia. The

supplemental attachment to this response is Confidential and subject to the Protective

Order dated March 4, 2008 in TRA Docket 07-00224.