Exhibit No.:

Issues: Atmos Energy Corporation:

Purchasing Practices-General; Purchasing Practices-Southeast Missouri Integrated System;

Reliability Analysis

United Cities Gas Company: Purchasing Practices-General; Purchasing Practices-Neelyville District; Purchasing Practices-Consolidated District; Reliability

Analysis

Witness: Lesa A. Jenkins Sponsoring Party: MoPSC Staff

Type of Exhibit: Revised Direct Testimony
Case Nos.: GR-2001-396 & GR-2001-397

(Consolidated)

Date Testimony Prepared: January 31, 2003

# MISSOURI PUBLIC SERVICE COMMISSION UTILITY SERVICES DIVISION

#### REVISED DIRECT TESTIMONY

**OF** 

LESA A. JENKINS

ATMOS ENERGY CORPORATION CASE NO. GR-2001-396

**AND** 

UNITED CITIES GAS COMPANY CASE NO. GR-2001-397

(Consolidated)

Jefferson City, Missouri January 2003

\*\*Denotes Highly Confidential Information\*\*

NP

#### **BEFORE THE PUBLIC SERVICE COMMISSION**

#### **OF THE STATE OF MISSOURI**

In the Matter of Atmos Energy Corporation's Purchased Gas Adjustment Factors to be Reviewed in its 2000-2001 Actual Cost Adjustment				Case No. GR-2001-396
In the Matter of United Cities Gas Company's Purchased Gas Adjustment Tariff Revisions to be Reviewed in its 2000-2001 Actual Cost Adjustment			) ) t)	Case No. GR-2001-397
	AFFIDA	AVIT OF LESA	A. JEN	IKINS
STATE OF MISSOURI	)			
COUNTY OF COLE	)	SS.		

Lesa A. Jenkins, being of lawful age, on her oath states: that she has participated in the preparation of the following Revised Direct Testimony in question and answer form, consisting of 46 pages to be presented in the above case; that the answers in the following Revised Direct Testimony were given by her; that she has knowledge of the matters set forth in such answers; and that such matters are true and correct to the best of her knowledge and belief.

Alsa a. Jonhung Lesa A. Jenkins

Subscribed and sworn to before me this 2 day of January 2003.

TONI M, CHARLTON NOTARY PUBLIC STATE OF MISSOURI COUNTY OF COLE My Commission Expires December 28, 2004

1	TABLE OF CONTENTS OF	
2	REVISED DIRECT TESTIMONY	
3	LESA A. JENKINS	
4 5 6 7 8 9	ATMOS ENERGY CORPORATION CASE NO. GR-2001-396 AND UNITED CITIES GAS COMPANY CASE NO. GR-2001-397 (CONSOLIDATED)	
10	ATMOS ENERGY CORPORATION, CASE NO. GR-2001-396	4
11	PURCHASING PRACTICES – GENERAL	5
12 13	PURCHASING PRACTICES-SOUTHEAST MISSOURI INTEGRATED SYSTEM	7
14	RELIABILITY ANALYSIS	24
15	UNITED CITIES GAS COMPANY, CASE NO. GR-2001-397	25
16	PURCHASING PRACTICES – GENERAL	26
17	PURCHASING PRACTICES-NEELYVILLE DISTRICT	28
18	PURCHASING PRACTICES-CONSOLIDATED DISTRICT	33
19	RELIABILITY ANALYSIS	45
20		

1		LIST OF SCHEDULES OF
2		REVISED DIRECT TESTIMONY
3		LESA A. JENKINS
4 5 6 7		ATMOS ENERGY CORPORATION CASE NO. GR-2001-396 AND UNITED CITIES GAS COMPANY
8 9		CASE NO. GR-2001-397 (CONSOLIDATED)
10		
11	Schedule 1	Summary of Testimony
12	Schedule 2	Company Response, GR-2001-396, Data Request No. 48
13 14	Schedule 3	Atmos Energy Corporation, Southeast Missouri Integrated System Estimated Usage
15	Schedule 4	Company Response, GR-2001-396, Data Request No. 85
16 17	Schedule 5	Atmos Energy Corporation, Southeast Missouri Integrated System, Heating Degree Days
18 19	Schedule 6	Atmos, Southeast Missouri Integrated System, Estimated Usage & Short Term Gas Supply Plan
20 21	Schedule 7	Atmos, Southeast Missouri Integrated System, Planned and Actual Storage Withdrawals
22	Schedule 8	Atmos, Southeast Missouri Integrated System, Planned and Actual Supplies
23 24	Schedule 9	Atmos Energy Corporation, Southeast Missouri Integrated System Storage Net Withdrawals
25 26	Schedule 10	Storage Limitations, November 6, 2000 Letter from Duke Energy Gas Transmission
27 28	Schedule 11	Atmos Proposed Purchasing Practices Adjustment, Revised Base Load and Swing Volumes
29 30	Schedule 12	Atmos Proposed Purchasing Practices Adjustment, Revised Base Load and Swing Volumes and Using Max Withdrawal from TETCO Plan

2	Schedule 13	Atmos Energy Corporation, Excess Supply, Proposed Adjustments for Demand Charges – Butler and Piedmont
3	Schedule 14	United Cities, Neelyville District Estimated Usage
4	Schedule 15	United Cities, Heating Degree Days for Neelyville District
5	Schedule 16	Company Response, GR-2001-397, Data Request No. 48
6	Schedule 17	Company Response, GR-2001-397, Data Request No. 85
7	Schedule 18	United Cities, Neelyville District, Proposed Purchasing Practices Adjustment
8	Schedule 19	United Cities, Consolidated District Estimated Usage
9	Schedule 20	United Cities, Heating Degree Days for Consolidated District
10 11	Schedule 21	United Cities, Consolidated District, Proposed Purchasing Practices Adjustment
12 13	Schedule 22	United Cities, Consolidated District Estimated Usage & Company Gas Supply Plan
14	Schedule 23	United Cities, Consolidated District Estimated Usage & Actual Supplies
15 16 17	Schedule 24	United Cities, Consolidated District, Comparison of Planned Base Load Purchases and Storage to Actual Base Load Purchases (Including Fixed) and Storage
18 19	Schedule 25	United Cities, Consolidated District, Comparison of Planned Storage Withdrawals
20 21	Schedule 26	United Cities, Consolidated District, Purchasing Practices - Other Scenario Considered

1		REVISED DIRECT TESTIMONY
2		OF
3		LESA A. JENKINS
4		ATMOS ENERGY CORPORATION
5		CASE NO. GR-2001-396 AND
6		UNITED CITIES GAS COMPANY
7		CASE NO. GR-2001-397
8		(CONSOLIDATED)
9	Q.	Please state your name and business address.
10	A.	Lesa A. Jenkins, P.O. Box 360, Jefferson City, MO 65102.
11	Q.	By whom are you employed and in what capacity?
12	A.	I am a Regulatory Engineer in the Procurement Analysis Department with the
13	Missouri Publ	ic Service Commission (Commission).
14	Q.	Please describe your educational and professional background.
15	A.	I received a Bachelor of Science degree, with honors, in Industrial
16	Engineering	(BSIE) from University of Missouri - Columbia. I received a Master of
17	Business Adn	ninistration (MBA) from William Woods University. Since March 1993, I have
18	been registere	ed as a professional engineer in the state of Missouri. I am currently a member
19	of the Societ	y of Women Engineers, National Society of Professional Engineers and the
20	Missouri Soci	ety of Professional Engineers.
21	Q.	Please describe your work background.
22	A.	Prior to joining the Commission, I was employed by the Missouri Department
23	of Natural Re	esources (DNR). While employed with DNR I held various engineering and

I was employed as an environmental engineer with the Division of Environmental Quality

then management positions with the Division of Energy from February 1992 - October 1999.

from January 1988 - January 1992. Prior to that I was employed by Procter & Gamble in

various production and quality control/quality assurance team manager positions in Cape

Girardeau, Missouri and then in Cincinnati, Ohio. I began employment in my current

position with the Commission in November 1999.

- Q. Please describe your duties while employed by the Commission?
- A. The nature of my duties at the Commission has been to investigate and review natural gas reliability/peak day plans of the ten natural gas local distribution companies in order to determine the reasonableness of the assumptions for estimating demand requirements, analyze the companies' estimating tools, review and analysis of transportation capacity/storage/peaking/supply resources utilized by the companies, review and analyze company base load requirements and other requirements and review and analyze the rationale for the companies' reserve margins—capacity in excess of the requirements estimated to be needed for peak day requirements. I also assist in matters involving analysis of economic dispatch models, gas supply plans, incentive plans, hedging plans and service area expansions.
  - Q. Have you previously filed testimony before this Commission?
- A. Yes, I have. See Schedule 1 attached to this direct testimony for a list of cases and issues. Additionally, I have prepared 29 reliability reviews as part of the filed Staff Actual Cost Adjustment (ACA) recommendations since November 1999.
- Q. Did you make an analysis of the books and records of the Company in regards to matters relevant to this case?

A. Yes, I did. For each service area in each case, I conducted a reliability and natural gas purchasing practices analysis for the reasonableness of the assumptions for estimating demand requirements, analysis of the Company's estimating methods, review and analysis of transportation capacity/storage/peaking/supply resources planned and utilized by the Company and review and analysis of the rationale for the Company's reserve margin.

- Q. What matters will you address in your testimony?
- A. I will address issues filed in the Staff recommendation for Atmos Energy Corporation, Case No. GR-2001-396, related to "Purchasing Practices-General," "Purchasing Practices Southeast Missouri Integrated System" and "Reliability Analysis." I will also address issues filed in the Staff recommendation for United Cities Gas Company, Case No. GR-2001-397, related to Purchasing Practices General," "Purchasing Practices Neelyville district," "Purchasing Practices Consolidated district," and "Reliability Analysis."
  - Q. Please explain why you are filing revised direct testimony.
- A. Direct testimony was filed on December 23, 2002. However, additional information received from the Company prompted Staff recently to re-examine the data that was used to calculate the proposed Purchasing Practices adjustment for the Atmos Southeast Missouri Integrated System. The re-examination revealed that there was a misunderstanding about some of the data, which caused the data to be incorrectly used in Staff's worksheets. As a consequence, a re-evaluation of the subject Purchasing Practices adjustment was conducted. In this re-evaluation, two schedules were added. Thus some of the subsequent schedules were renumbered. To assist in locating information in the schedules, a list of schedules was also added. All substantial changes from the original filed direct testimony are indicated by shaded text.

these matters?

4

3

5

6 7

8

9 10

11

12

13

14

15 16

17

18 19

20

21

22

23

What knowledge, skills, experience, training or education do you have in O.

A. Both my MBA and BSIE degrees provided formalized coursework that gave me knowledge and skills that I used in these reviews. My 20 years of engineering/management work experience provided me with experience from project reviews and provided additional knowledge from training courses and review of technical information. Eleven of these years of work experience related specifically to energy issues. The projects that I worked on over my 20 years of engineering/management work in private industry and government allowed me to look at issues from various vantage points, such as consumer wants and needs, business goals and limitations and requirements and limitations presented by rules and regulations.

# ATMOS ENERGY CORPORATION, CASE NO. GR-2001-396

- Q. What is the purpose of your direct testimony for Atmos Energy Corporation, Case No. GR-2001-396?
- I address the Staff recommendation regarding the documentation issues A. related to Purchasing Practices – General. The direct testimony of Staff witness Phil S. Lock provides a summary of the purchasing practices adjustment related to the Southeast Missouri Integrated district identified in Staff's ACA recommendation for Case No. GR-2001-396 filed on September 30, 2002. My testimony provides support for the proposed purchasing practices adjustment for the Southeast Missouri Integrated district related to use of storage. In addition, I address the Staff recommendation regarding the proposed reliability disallowances for the Butler district and Piedmont district as well as documentation issues related to the reliability analysis.

 Q. Please describe the Missouri service territories served by Atmos Energy Corporation (Atmos or Company) in Case No. GR-2001-396.

A. Atmos separates its Missouri gas operations into the following three districts: Southeast Missouri (SEMO), Kirksville and Butler. The SEMO, Kirksville and Butler districts serve approximately 37,200 customers, 6,200 customers, and 4,000 customers, respectively. For purposes of the reliability review, Atmos separates its Missouri gas operations into the following five service areas: Butler/Panhandle Eastern Pipe Line (PEPL), Kirksville/ANR Pipeline, Jackson/Natural Gas Pipeline (NGPL), Piedmont/Mississippi River Transmission (MRT), and the Southeast Missouri Integrated system consisting of Texas Eastern Pipeline (TETC), Ozark Gas Transmission and Arkansas Western Pipeline.

### <u>PURCHASING PRACTICES – GENERAL</u>

- Q. Please explain the Staff recommendation for Purchasing Practices General.
- A. The Staff recommendation in Case No. GR-2001-396, filed on September 30, 2002, contained a recommendation No. 2 that the Company submit on January 1, 2003, documentation of its policies and procedures for those responsible for nominating natural gas. The submittal was to include the information identified in the section "Purchasing Practices General" of the Staff recommendation as follows:

The Staff believes that a fully documented nomination process, the process for determining and ordering required natural gas, is critical for a reasonable gas procurement plan. The nomination process includes, but may not be limited to, the interaction between short-term weather forecasts, pricing information, nomination deadlines, demand forecasts, end-user analysis, required storage targets, actual storage balances, storage telemetry information, existing gas supply contracts and constraints, and first-of-the-month flowing gas prices versus daily gas market prices. These variables should be considered, at least implicitly, in spreadsheet summaries containing the various inputs that eventually result in the determination of the amount of flowing supply to

nominate. The Staff recommends that the nomination process be fully documented.

Q. What is the disagreement?

A. In its Response to Staff Memorandum and Recommendation, filed October 30, 2002, the Company states that Staff recently concluded a management audit that included a review of the Company's policies and procedures for nominating natural gas. The Company believes that it would be duplicative to resubmit these policies for a second review by the Commission Staff within a few months of the completion of the management audit.

Q. Do you agree that this is duplicative?

A. No. The scope of the Engineering and Management Services Department (EMSD) gas supply process and operations study, to which the Company refers, included "a review of the management controls in place and the use of technology within the gas supply function," (Review of Atmos Energy Corporation Customer Service and Gas Supply Operations, Prepared by Missouri Public Service Commission Engineering and Management Services Department, July 2001, page 78). The Staff recommendation regarding Purchasing Practices – General is in response to a more specific review of the 2000-2001 ACA filing, and requests more specific information such as the interaction between short-term weather forecasts, pricing information [first-of-month (FOM) flowing gas prices, expected daily gas market prices], nomination deadlines, demand forecasts, end-user analysis, required storage targets, actual storage balances, storage telemetry information and existing gas supply contracts and constraints.

#### PURCHASING PRACTICES-SOUTHEAST MISSOURI INTEGRATED SYSTEM

- Q. Please explain the Staff adjustment for the Southeast Missouri Integrated System.
- A. Staff shows that Atmos did not properly plan for storage withdrawals for the months of November and December 2000, that Atmos relied too heavily on flowing supplies rather than planned storage withdrawals in January 2001, and that these decisions exposed customers to the higher flowing gas costs in January 2001. In arriving at this conclusion, Staff evaluated the Company's actual use of flowing supply, storage gas, and liquefied natural gas (LNG) to meet actual requirements compared to the Company's short-term plan for meeting natural gas requirements for the winter months of November 2000 to March 2001. Staff's review shows that Atmos' decisions for flowing gas and storage withdrawals had an unfavorable economic impact to customers on purchased gas costs of \$1,119,105 to \$1,146,076 and the Staff proposes to reduce gas costs by \$1,119,105.
  - Q. Is this different from Staff's original recommendation?
- A. Yes. Staff's ACA recommendation included a proposed purchasing practices adjustment of \$1,309,540. Further review of Company information indicated that changes to the original adjustment were required. In addition, supplementary information was obtained regarding pipeline constraints for storage withdrawals that impacted the assumptions used in Staff's analysis of the Company's purchasing practices. This resulted in a reduction of Staff's proposed adjustment from \$1,309,540 to \$1,119,105. This information has been provided to the Company and the corrections are included in this testimony.
- Q. Does Staff believe that the Company plan for flowing supplies and storage withdrawals was unreasonable?

	Revised Direct Testimony of Lesa A. Jenkins
1	A. Yes. ** <u>HC</u>
2	<u>HC</u>
3	<u>HC</u>
4	<u>HC</u>
5	<u>HC</u>
6	<u>HC</u>
7	<u>HC</u>
8	<u>HC</u>
9	<u>HC</u>
10	<u>HC</u>
11	<u>HC</u>
12	<u>HC</u>
13	<u>HC</u>
14	<u>HC</u>
15	<u>HC</u>
16	HC **
17	Q. Do you have problems with the information provided by the Company?
18	A. Yes. The information provided to the Staff in different data request responses
19	was inconsistent. The information needed to be evaluated by Staff before it could be used for
20	purposes of evaluating Company performance. Amounts reported for the same variable were
21	unreasonably different in Company responses to data requests. For example, an important
22	variable for planning and managing operations is normal usage for each heating season



month. Yet, values for this variable for the same month were unreasonably different in

23

various DR responses as described below. In other words, a reasonable person would not know without some evaluation which of the normal volumes reported should be used. This may explain, in part, why the Atmos customers paid \$1,119,105 more for gas (Staff's recommended disallowance) than they would have paid if reasonable and prudent practices had been followed. Poor choices were made in managing operations during the heating season, and one of the reasons for this may be the inconsistent and confusing information available. Costs may have been avoided if the Company had one reasonable plan supported by consistent related schedules instead of a variety of unreasonably different and confusing schedules. Staff uses such a reasonable schedule here to compute the disallowance.

Staff would expect that the Company's estimated requirements for normal weather would be consistent with other Company estimates of usage for normal weather. However, as shown in Schedule 3 attached to this testimony, the Company estimate of normal usage is different in the responses to DR No. 48 and DR No. 85, attached as Schedule 4, and these are different from the estimated usage for normal weather obtained from the Company's reliability review using a regression analysis.

- Q. How was usage estimated from the regression analysis?
- A. In the Company's reliability review, natural gas usage was evaluated to obtain an estimate of base load usage and heat load usage of the Company's firm customers. Base load usage refers to customer usage that is not expected to vary with the outside temperature such as usage for cooking, some commercial and industrial processes and most water heating. Heat load usage refers to customer usage that does vary based on outside temperature, such as space heating. The heat load for a particular temperature is estimated by multiplying the heating degree days (HDD), a measure of how cold a location is relative

.

to a base temperature of 65 degrees Fahrenheit, by a heat load factor. Using the Company's estimate of base load usage and heat load factor from the Company's reliability review, the Company's estimated number of customers and normal temperatures for the winter months of November through March, Staff estimated normal usage for each of these winter months of November 2000 to March 2001.

Usage in the winter months of November through March is expected to be higher than just the base load usage because each month has daily average temperatures below 65 degrees Fahrenheit, and thus each of these months also has heat load usage. Staff determined what could be expected as the minimum and maximum usage for each month of November 2000 through March 2001 by using the Company's estimate of base load usage; heat load factor and warmest and coldest month temperatures, respectively for these months; and the Company's estimate for number of customers. Staff believes that it is necessary for the Company to consider the minimum and maximum monthly usage information in order to properly plan for the variations in volumes of natural gas demanded by customers and thus, the types of contracts (base load, swing, storage, etc.) necessary to meet customer requirements. See Schedule 5 attached to this testimony for a summary of warmest month, coldest month, normal month and actual month heating degree day information.

- Q. Which estimate of normal usage does Staff support?
- A. Staff compared these three estimates of normal usage (one from the Company reliability review, one from the DR No. 85 response and one from the DR No. 48 response). The comparison shown on the chart on the following page and in the attached Schedule 3 shows how these estimates of normal usage compare to estimates of warmest month and

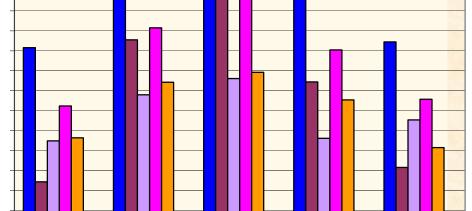
3

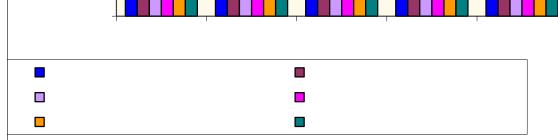
coldest month usage. The Staff believes the regression analysis from the Company's

Reliability Report is the most reasonable based upon the discussion that follows.

\*:

HC HC





4

5

6

\*\*

Q. Do any of the Company's responses seem particularly unreasonable?

# Revised Direct Testimony of Lesa A. Jenkins

A. Yes, the Company's estimate of normal usage (usage for normal weather) in
the response to DR No. 48 does not seem reasonable to Staff because the Company's
response shows its estimate of normal weather usage for each of the months of November
2000 through February 2001 as being lower than that estimated for even the warmest weather
for each of the months of November through February.

The Company's estimate of normal usage in the response to DR No. 85 also does not seem reasonable to Staff for the following reasons:

a)	The DR85 response shows normal we	eather	November	2000	usage	to
	be considerably lower, ** HC					
	НС		**			

b) The response to DR No. 85 shows normal weather January 2001 usage to be nearly the same, and actually \*\* HC

HC

HC

As a check, Staff's review shows that January 2001 weather was near normal and actual usage was near the estimate for normal weather from the regression model, and thus not near the estimate from the response to DR No. 85. (The actual usage estimate was \*\* HC \*\* MMBtu; the regression analysis normal usage estimate was \*\* HC \*\* MMBtu; and the DR No. 85 normal usage estimate was \*\* HC \*\* MMBtu.

	Lesa A. Jenkins
1	c) The response to DR No. 85 shows normal weather March 2001 usage
2	to be ** HC ** MMBtu lower than that estimated for even the
3	warmest March ** HC **
4	Because the Company provided detailed supporting information for the estimates
5	obtained from the reliability review, and none for the two DR responses, and because of the
6	concerns noted previously regarding the DR No. 48 and DR No. 85 estimates of normal
7	usage, Staff uses the Company's regression analysis to estimate usage.
8	Q. Are there other reasons why Staff believes that the Company plan for flowing
9	supplies and storage withdrawals was unreasonable?
10	A. Yes. ** <u>HC</u>
11	<u>HC</u>
12	<u>HC</u>
13	<u>HC</u>
14	<u>HC</u>
15	<u>HC</u>
16	HC ** Staff compared the Company's planned sources of supply (from DR No. 48) to
17	the estimates of usage from the regression analysis, (Schedule 6 attached to this testimony),
18	and notes the following concerns with the Company's Short Term Plan.
19	a) ** <u>HC</u>
20	HC
21	HC HC
22	HC
23	НС



	Revised Direct Testimony of Lesa A. Jenkins	
1	HC	
2	HC	
3	HC	
4	HC	
5	HC	
6	HC	
7	HC	
8	HC	
9	HC ** it is not clear that the Company has properly evaluated	and
10	planned how it will react when cold weather occurs in this service a	area.
11	("Swing gas" and "peaking gas" are defined in the Company's response to	DR
12	No. 48. "Swing gas" can be requested as needed throughout the month at	any
13	level up to the maximum daily contractual quantity. "Peaking gas" can	n be
14	called upon as needed, but only up to a maximum number of days during	g the
15	contracted period.)	
16	b) ** <u>HC</u>	
17	HC	
18	HC	
19	HC	
20	<u>HC</u> **	So
21	again, it is not clear that the Company has properly evaluated and plan	nned
22	how it will react when cold weather occurs in this service area.	

Q. Please continue with the explanation of why Staff believes that the Company's plan for flowing supplies and storage withdrawals was unreasonable.

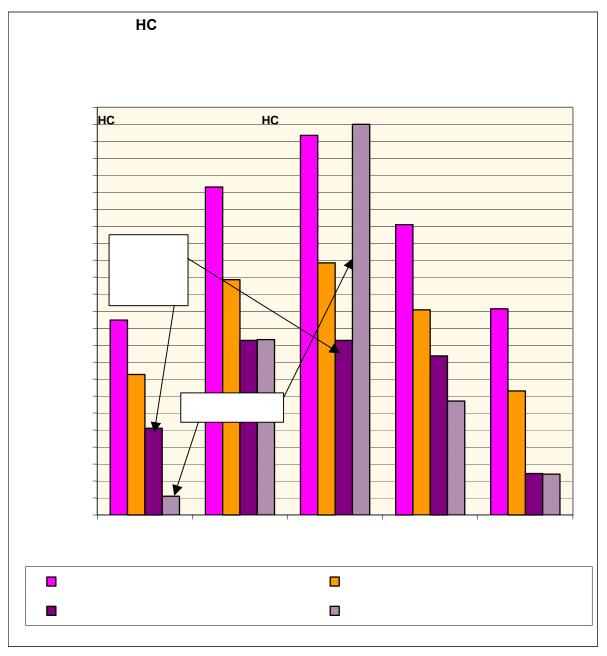
The Company's plan for normal weather for the heating season months of November 2000 through March 2001 calls for withdrawal of \*\* HC \*\* of the maximum storage quantity (MSQ), but the storage was only filled to \*\* HC \*\* of the MSQ. Thus, the Company's planned use of storage withdrawals for the heating season of November 2000 through March 2001, as shown in the Company's response to DR No. 48, exceeds the volume of storage in inventory at the beginning of the heating season. This is a problem because the Company obviously cannot withdraw more natural gas than it has in inventory. Therefore, the Company should have modified its plan for base load supplies and storage

withdrawal to adjust for the lower storage inventory.

Additionally, the Company's planned storage withdrawals exceed Texas Eastern Transmission Corporation's maximum storage withdrawal parameters for November 16 through December 31, 2000, for January 1 - 31, 2001, and for February 1 - 28, 2001. The Company plan for normal weather in November and December 2000, was to withdraw \*\* HC \*\* MMBtu and this would have been 166% of the Texas Eastern Transmission Corporation's storage withdrawal limitation of \*\* HC \*\* MMBtu. Thus, even for normal weather, the Company would have greatly exceeded the withdrawal limitation for November and December 2000. Charts of the planned and actual storage withdrawals are shown in Schedule 7 attached to this testimony. A customer-specific operation flow order (OFO) can be issued by Texas Eastern Transmission Corporation when an individual customer exceeds the maximum storage performance levels provided in their winter storage withdrawal plan. The customer-specific OFO places restrictions on utilization of natural gas

	Revised Direct Testimony of Lesa A. Jenkins
1	in storage. Texas Eastern Transmission Corporation will assess charges of \$25 per
2	dekatherm for unauthorized quantities withdrawn from storage.
3	Q. The above discussion addresses some shortcomings of the Company's Supply
4	Plan. Does Staff have any concerns regarding the execution of the Company's Supply Plan?
5	A. Yes. The Company did not follow its plan for base load purchases. Although
6	the Company plan for November 2000 was to have base load purchases of ** HC
7	HC ** the actual base load, including fixed volumes, was ** HC
8	HC ** ("Fixed" is a term used in DR No. 85
9	and refers to volumes of natural gas purchased under fixed price contracts. Staff considered
10	these fixed price contracts to be base load volumes of natural gas.) Because less FOM
11	flowing supplies were nominated than planned by the Company (or expected by Staff) for
12	November 2000, the Company relied more on swing supplies and storage withdrawals, which
13	were not planned for normal weather. When the weather actually turned out to be colder
14	than normal, the Company had to rely on even more higher priced swing supplies and storage
15	withdrawals - withdrawals that were planned for later winter months.
16	The Company plan for January 2001 was to have base load purchases of ** HC
17	HC ** but the actual base load, including fixed volumes, was ** HC
18	HC ** Charts comparing the planned to actual
19	base load purchases and storage withdrawals are shown in Schedule 8. The chart comparing
20	the planned and actual base load purchases is also shown below.





3

4

5

2

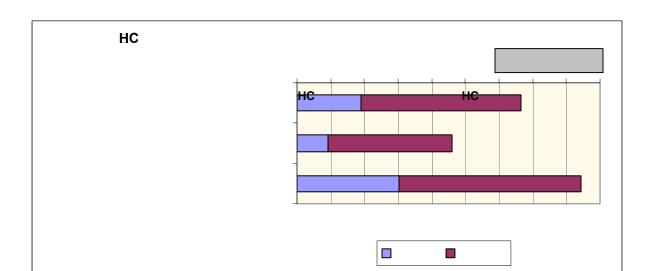
Q. How should the Company have utilized storage and flowing supplies to meet customer needs?



HC

23

	Revised Direct Testimony of Lesa A. Jenkins
1	<u>HC</u>
2	<u>HC</u>
3	HC
4	<u>HC</u>
5	HC ** Based on the Company's plan for storage,
6	Staff believes that if the weather had been warmer than normal in a particular month, then
7	there would be a net injection in that month; this would put storage inventory at a higher
8	level than planned, but then the Company could use this excess in following months as part
9	of the plan for cold weather, or storage withdrawals could be used to reduce FOM base load
10	nominations.
11	In fact, the Company did withdraw more natural gas from storage than planned in
12	November and December 2000, ** HC
13	HC ** of the MSQ. This difference of 3.2% would not
14	normally be a major concern to Staff, but as noted previously, the Company plan for storage
15	withdrawals did not appropriately consider the Texas Eastern Transmission Corporation's
16	limitations on storage withdrawals. The Company's plan for normal weather in November
17	and December 2000, included withdrawals of ** HC ** MMBtu and this would have
18	been 166% of the Texas Eastern Transmission Corporation's storage withdrawal limitation of
19	** HC ** MMBtu. Thus, even for normal weather, the Company would have greatly
20	exceeded the withdrawal limitation for November and December 2000, as shown on the
21	following chart.



4

56

7

8

10

1112

13

14 15

16

\*\*

Q. Does Staff have any additional concerns with the Company's natural gas purchasing decisions?

A. Yes. Staff is also concerned about the Company's natural gas purchasing decisions for January 2001. Even though the month of January 2001 had near normal temperatures, the Company actually had a net \*\* HC \*\* for that month.

Q. Did the \*\* HC \*\* in January 2001 surprise you?

A. Yes. January is typically colder than the other winter months. Based on the Company plan, it would be standard practice to withdraw natural gas from storage during the month of January. It is reasonable to expect occasional injections when the weather is warmer than normal in January, for balancing purposes, but it is surprising to observe \*\* HC \*\* in January 2001 when the weather was near normal. Thus, Staff believed it was

	Revised Direct Testimony of Lesa A. Jenkins		
1	appropriate to look more closely at the Company's decisions regarding planned storage		
2	withdrawals and actual storage withdrawals for the winter of 2000/2001.		
3	As illustrated by the storage plots for the Southeast Missouri Integrated System in		
4	Schedule 9 attached to this testimony, the ** HC		
5	<u>HC</u>		
6	HC		
7	HC ** by itself is not viewed as unreasonable and the Company still could		
8	have withdrawn natural gas from storage in January 2001 and maintained the Company's		
9	planned level of storage for the remaining winter months at either level. When reviewing the		
10	actual Company storage inventory levels, Staff also found that storage ** HC		
11	<u>HC</u>		
12	HC ** the Company still could have		
13	withdrawn natural gas from storage in January 2001 and maintained the Company's planned		
14	level of storage for the remaining winter months. This is illustrated in the chart in		
15	Schedule 9-2. If the Company had adjusted the planned monthly storage withdrawals for		
16	each month of November 2000 through March 2001 to be in compliance with the Texas		
17	Eastern Transmission Corporation's limitation on storage withdrawals, as noted in the		
18	November 6, 2000 letter from Duke Energy Gas Transmission, attached as Schedule 10, the		
19	Company still could have withdrawn natural gas from storage in January 2001 and		
20	maintained storage inventory levels expected for the Texas Eastern Transmission		
21	Corporation storage. This is illustrated in the chart in Schedule 9-3.		
22	** HC		
23	HC		



	Revised Direct Testimony of Lesa A. Jenkins
1	<u>HC</u>
2	<u>HC</u>
3	<u>HC</u>
4	<u>HC</u>
5	<u>HC</u>
6	<u>HC</u>
7	<u>HC</u>
8	<u>HC</u>
9	<u>HC</u>
10	HC
11	HC ** Staff also considered the storage withdrawal limits of Texas
12	Eastern Transmission Corporation, but these limitations should have been taken into
13	consideration by the Company beginning in November 2000, not in late December 2000
14	when decisions were being made for January 2001 FOM nominations.
15	Finally, Staff would have expected planned withdrawals for February and March
16	2001 to be adjusted based on what was known about the storage inventory compared to the
17	plan at the end of January and February 2001.
18	Q. How did Staff use this information in the proposed adjustment for the
19	Southeast Missouri Integrated System?
20	A. Using the parameters described above, Staff calculated the adjusted base load
21	FOM nominations. For normal weather, the Company plans to withdraw ** HC
22	<u>HC</u>
23	HC ** Therefore, Staff calculated



Revised Direct Testimony of Lesa A. Jenkins

base load FOM nominations using the Company's planned storage withdrawals, but adjusted for the lower beginning inventory. Staff also calculated base load FOM nominations given the Texas Eastern Transmission Corporation's storage withdrawal limitations. The storage withdrawals expected by Staff were compared to the actual storage withdrawals. A summary of the FOM nominations and the storage withdrawals from Staff's review is shown below.

\*\*

НС	

НС		
110		

\*\*

Adjustments were calculated based on these comparisons. An explanation of the dollar amount of the adjustment for these revised storage volumes is included in the direct testimony of Staff witness Phil Lock. Staff's review shows Atmos' decisions for flowing gas and storage withdrawals had an unfavorable economic impact on customers' purchased gas costs amounting to \$1,119,105 to \$1,146,076 as shown in the attached Schedules 11 and 12. If FOM nominations and withdrawals of natural gas from storage had followed either of

hindsight review. Is this true?

No.

2

O.

A.

Staff proposes to reduce gas costs by the lower amount of \$1,119,105.

these reasonable approaches. Staff would not be proposing an adjustment.

In the Company Response To Staff Memorandum And Recommendation, the

The Staff adjustment reflects its analysis of decisions made by the

Company states that the Staff recommendation improperly seeks disallowance based on

Company for FOM flowing supplies, including the effect of these decisions on the planned

and actual utilization of storage. The Staff's analysis was based on information known at the

time the Company made the decisions. In fact, the disallowance is a direct consequence of

the Company not following its plan for FOM nominations. Thus, storage was over-utilized

in November and December 2000 and under-utilized in January 2001 and as a consequence

Does that conclude your testimony on the Southeast Missouri Integrated

the cost burden on regulated customers was considerably larger than it would have been.

Therefore, the

3

4

5

6 7

8

9

10

11

12

13

14

15

16 17

18

19

20

21

22

23

**RELIABILITY ANALYSIS** 

Q.

A.

Q. Please explain the reliability issues.

Yes, it does.

System proposed purchasing practices adjustment?

The Staff Recommendation in Case No. GR-2001-396 filed on September 30, A. 2002, also contained a recommendation No. 1 pertaining to adjusting the ACA account balances, which include an adjustment for reliability for the Butler district and the Piedmont district. The details of the proposed adjustment are contained in the Reliability Analysis section of the Staff Recommendation and in point No. 1 of the Summary section of the Staff Recommendation. The adjustment in the recommendation is for demand charges on natural

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

gas deliverability that exceeds peak day requirements. The dollar amounts of the proposed adjustments are \$12,296 for the Butler district and \$20,824 for the Piedmont district and these are shown in the attached Schedule 13. In the Response To Staff Memorandum And Recommendation filed October 25, 2002, the Company does not state whether Atmos agrees or disagrees with the recommended adjustment. Therefore, the Staff views this as an unresolved issue at this time.

- Do you have any other issues? O.
- The Staff Recommendation in Case No. GR-2001-396 filed on A. Yes. September 30, 2002, also contained recommendation Nos. 3a through 3h related to actions to be taken by the Company by February 3, 2003, regarding the Company's reliability analysis. In the Response To Staff Memorandum And Recommendation filed October 25, 2002, the Company states that the Company will accept Staff's recommendation that additional documentation regarding the reliability information be submitted by February 3, 2003. Therefore, this issue appears to be resolved.
- Q. Does this conclude your revised direct testimony for Atmos Energy Corporation, Case No. GR-2001-396?
  - A. Yes, it does.

## UNITED CITIES GAS COMPANY, CASE NO. GR-2001-397

- Q. What is the purpose of your revised direct testimony for United Cities Gas Company, Case No. GR-2001-397?
- I address the Staff recommendation regarding the documentation issues A. related to Purchasing Practices – General. The direct testimony of Staff witness Anne Allee provides a summary of the purchasing practices adjustment related to the Neelyville district

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

- Q. Are there any differences in this revised direct testimony from that which was filed for United Cities on December 23, 2002?
- A. There are only minor editorial changes. Since some schedules were added for the Atmos portion of the revised direct testimony, the numbers of the schedules for United Cities were changed.
- Q. Please describe the Missouri service territories served by United Cities Gas Company (United Cities or Company) in Case No. GR-2001-397.
- A. United Cities separates its Missouri gas operations into the following two districts: Neelyville district and Consolidated district. The Consolidated district is comprised of the historical districts of Hannibal/Canton, Palmyra and Bowling Green and serves approximately 15,200 customers in the northeastern part of Missouri. The Neelyville district serves approximately 600 customers in the southeastern part of the state.

#### **PURCHASING PRACTICES – GENERAL**

Q. Please explain the Staff Recommendation for Purchasing Practices – General.

A. The Staff Recommendation in Case No. GR-2001-397, filed on August 29, 2002, contained a recommendation No. 2 that the Company submit by December 1, 2002, documentation of its policies and procedures for those responsible for nominating natural gas. The submittal was to include the information identified in the section "Purchasing Practices – General" of the Staff Recommendation as follows:

The Staff believes that a fully documented nomination process, the process for determining and ordering required natural gas, is critical for a reasonable gas procurement plan. The nomination process includes, but may not be limited to, the interaction between short-term weather forecasts, pricing information, nomination deadlines, demand forecasts, end-user analysis, required storage targets, actual storage balances, storage telemetry information, existing gas supply contracts and constraints, and first-of-the-month flowing gas prices versus daily gas market prices. These variables should be considered, at least implicitly, in spreadsheet summaries containing the various inputs that eventually result in the determination of the amount of flowing supply to nominate. The Staff recommends that the nomination process be fully documented.

This recommendation for additional documentation is the same as that made in the Atmos Energy Corporation case, Case No. GR-2001-396, described earlier.

- Q. What is the disagreement?
- A. In its Response To Staff Memorandum And Recommendation, Case No. GR-2001-397, filed October 25, 2002, the Company states that Staff recently concluded a management audit that included a review of the Company's policies and procedures for nominating natural gas. The Company believes that it would be duplicative to resubmit these policies for a second review by the Commission Staff within a few months of the completion of the management audit.
  - Q. Do you agree that this is duplicative?
- A. No. The scope of the Engineering and Management Services Department (EMSD) gas supply process and operations study, to which the Company refers, included "a

review of the management controls in place and the use of technology within the gas supply function," (Review of Atmos Energy Corporation Customer Service and Gas Supply Operations, Prepared by Missouri Public Service Commission Engineering and Management Services Department, July 2001, page 78). The Staff Recommendation regarding Purchasing Practices – General is in response to a more specific review of the 2000-2001 ACA filing, and requests more specific information such as the interaction between short-term weather forecasts, pricing information [first-of-month (FOM) flowing gas prices, expected daily gas market prices], nomination deadlines, demand forecasts, end-user analysis, required storage targets, actual storage balances, storage telemetry information and existing gas supply contracts and constraints.

#### PURCHASING PRACTICES-NEELYVILLE DISTRICT

- Q. Please explain why Staff believes there should be a minimum level of hedging for each month of November 2000 through March 2001.
- A. Because of price volatility in the natural gas market, Staff believes that it is reasonable to expect that United Cities would have engaged in a minimal level of hedging for the winter months of the 2000-2001 ACA review period, so that the customers are at least partially protected from the potential for rising prices.

Staff believes that the Company should have considered several scenarios when determining an appropriate hedging level for its customers. Staff believes that it is necessary for the Company to consider the minimum, normal and maximum monthly usage information in order to properly plan for the variations in volumes of natural gas demanded by customers and thus, the types of contracts (base load, swing, storage, pricing provisions, etc.) necessary to meet customer requirements.

Q. Did the Company provide estimates of usage?

A. Yes. In the Company's reliability review, natural gas usage was evaluated to obtain an estimate of base load usage and heat load usage for the Company's firm customers. As noted earlier, base load usage represents customer usage that is not expected to vary with the outside temperature such as usage for cooking, some commercial and industrial processes and most water heating. Heat load usage represents customer usage that does vary based on outside temperature, such as space heating. The heat load for a particular temperature is estimated by taking the heating degree days (HDD), a measure of how cold a location is relative to a base temperature of 65 degrees Fahrenheit, times a heat load factor.

Usage in the winter months of November through March is expected to be higher than just the base load usage because each month has daily average temperatures below 65 degrees Fahrenheit, and thus each of these months also has heat load usage. Using the Company's estimate of base load usage and heat load factor from its reliability review, the Company's estimated number of customers and normal temperatures for the winter months of November through March, Staff estimated normal usage for each of these winter months of November 2000 to March 2001.

Staff also determined what could be expected as the minimum and maximum usage for each month of November 2000 through March 2001 by using the Company's estimate of base load usage; heat load factor with warmest month and coldest month temperatures for these months; and the Company's estimated number of customers. See Schedule 14 attached to this direct testimony, for a summary of estimated winter month usage for base load, 30% of normal, warmest month, normal month and coldest month. See Schedule 15 for a



this is 18% higher than that estimated for even the coldest December.

c)

1
1

estimated January usage.

Because the Company provided detailed supporting information for the estimates obtained from the reliability review, and none for the other two DR responses, and because of the concerns noted previously regarding the DR No. 48 and DR No. JH85 estimates of normal usage, Staff used the Company's regression analysis to estimate usage.

The response to DR No. JH85 shows normal weather January 2001

- Q. Please explain why Staff believes that 30% of normal requirements, as a minimum level of hedging for each month of November 2000 through March 2001, is reasonable.
- A. It could be argued that to mitigate price risk to customers, 100% of warm month requirements should be hedged because these demands represent the lowest expected demand for that month; even if the warmest temperature were encountered, customer demand would be at the warmest month usage shown in Schedule 14. A review of the Neelyville district information reveals that if the Company hedged volumes required for a warmest winter month, then for a cold winter, 55% of volumes would be hedged, and thus customers would be exposed to price risk for 45% of volumes required. Thus, under a coldest winter month scenario, 45% of a customer's expected requirements would still have been exposed to price risk. Some companies that have flexibility in their operations and in their contracts might want to reduce this exposure further by hedging more than 100% of warmest winter requirements.

However, Staff is not proposing that 100% of the warmest month volumes should have been hedged for the 2000-2001 ACA period. Staff is proposing that for the winter of 2000-2001, a minimum reasonable hedge would have been 30% of normal for each month of the winter season. If 30% of normal requirements had been hedged for the Neelyville district, this would mean that when a warmest month was encountered, 40% of the estimated volumes required would have been hedged. This also means that when a coldest month was encountered, only 22% of the estimated volumes required would have been hedged. Therefore, for a coldest month, 78% would not have been hedged and customers would have been exposed to price risk for these volumes. Staff could not reasonably justify hedging less than 30% of normal requirements, because this implies that for a cold winter, more than 78% of customer natural gas requirements would have been exposed to price risk.

- Q. Since the Neelyville district is a small district, could this have prevented the Company from engaging in hedging to address customer exposure to rising prices?
- A. No. Although the Neelyville district is a small district with approximately 600 customers, it is part of a larger company United Cities Gas Company. The interstate pipelines serving this area are the Natural Gas Pipeline Company of America (NGPL) and Texas Eastern Transmission Corporation (TETCO). In Missouri, United Cities has approximately 15,200 customers in the Consolidated district. As a larger Company, United Cities also has other service areas in Missouri and has more options for hedging.
- Q. What is the Staff's proposed adjustment for the Neelyville district for failure to hedge 30% of estimated normal usage?
- A. The Company's hedged volumes of natural gas for the Neelyville district for the winter of 2000-2001 included storage and fixed price purchases. Staff's review revealed

reliability review, the Company's estimated number of customers and normal temperatures

22

for the winter months of November through March, Staff estimated normal usage for each of these winter months of November 2000 to March 2001.

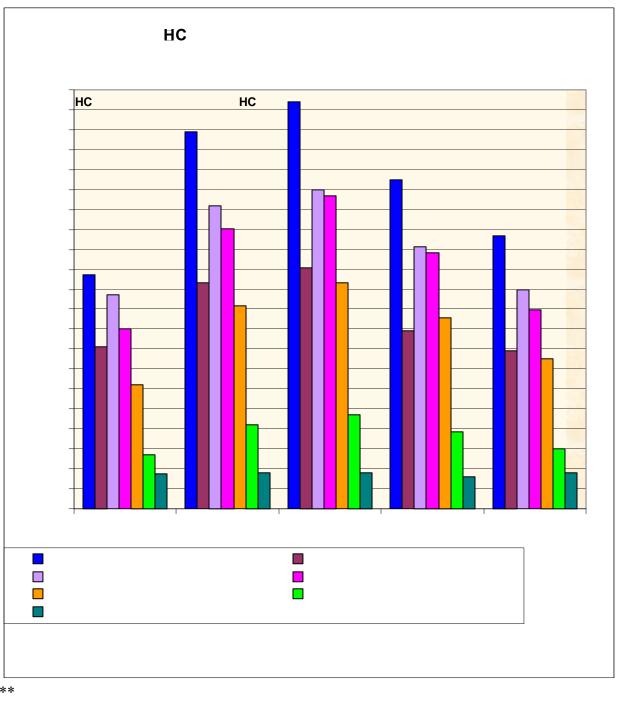
Staff also evaluated what could be expected as the minimum and maximum usage for each month of November 2000 through March 2001 by using the Company's estimate of base load usage; heat load factor with warmest month and coldest month temperatures for these months; and the Company's estimated number of customers. Staff believes that it is necessary for the Company to consider the estimated minimum and maximum monthly usage in order to properly plan for the variations in volumes of natural gas demanded by customers and thus, the types of contracts (base load, swing, storage, pricing provisions, etc.) necessary to meet customer requirements. See Schedule 19 attached to this direct testimony, for a summary of estimated winter month usage for base load, 30% of normal, warmest month, normal month and coldest month. See Schedule 20 attached to this testimony for a summary of warmest, coldest, normal and actual heating degree day information for this district.

- Q. Did the Company provide other estimates of usage?
- A. Yes. In addition to the estimates of base load and heat load factors discussed above, the Company provided estimates of normal usage in its responses to DR No. 48, attached as Schedule 16, and DR No. JH85, attached as Schedule 17. Staff compared these three estimates of normal usage for the Consolidated district (one from the Company reliability review, one from the DR No. 48 response, and one from the DR No. JH85 response).
  - Q. Do you have problems with the information provided by the Company?
- A. Yes. The information provided to the Staff in different data request responses was inconsistent. The information needed to be evaluated by Staff before it could be used for

Revised Direct Testimony of Lesa A. Jenkins 1 purposes of evaluating Company performance. Amounts reported for the same variable were 2 unreasonably different in Company responses to data requests. For example, an important 3 variable for planning and managing operations is normal usage for each heating season 4 month. Yet, values for this variable for the same month were unreasonably different in 5 various DR responses. In other words, a reasonable person would not know without some 6 evaluation which of the normal volumes reported should be used. 7 Staff would expect that the Company's estimate of requirements for normal weather 8 would be consistent with other Company estimates of usage for normal weather. However, 9 as shown in the chart on the next page and in Schedule 19 attached to this testimony, the 10 Company estimate of normal usage is different in its responses to DR No. 48 and DR No. 11 JH85, and these are different from the estimated usage for normal weather obtained from the 12 Company's reliability review using a regression analysis. 13 14

15

Remainder of this page intentionally left blank.



3

4

5

6

- Q. Do any of the Company's responses seem particularly unreasonable?
- A. Yes. The Company's estimate of normal usage in the response to DR No. 48 seems unreasonable because it is 2% to 18% higher than the regression equation for base

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

2 March 2001. Additionally, the Company's estimate of normal usage in the response to DR

No. JH85 does not seem reasonable to Staff because it is 9% to 30% lower than the

load and heat load usage for normal estimated usage for the months of November 2000 -

regression equation for base load and heat load usage for normal estimated usage for the

months of November 2000 - March 2001.

Because the Company provided detailed supporting information for the estimates obtained from the reliability review, and none for its other two DR responses, and because of the concerns noted previously regarding the DR No. 48 and DR No. JH85 estimates of normal usage, Staff used the Company's regression analysis to estimate usage.

- Q. Please explain why Staff believes that 30% of normal requirements, as a minimum level of hedging for each month of November 2000 through March 2001, is reasonable.
- As stated for the Neelyville district, it could be argued that to mitigate price A. risk to customers, 100% of warm month requirements should be hedged because these demands represent the lowest expected demand for that month; even if the warmest temperature were encountered, customer demand would be at the warmest month usage as shown in Schedule 19. A review of the Consolidated district information reveals that if the Company hedged volumes required for a warmest winter month, then for a cold winter, 55% of volumes would be hedged, and thus customers would be exposed to price risk for 45% of volumes required. Thus, under a coldest winter month scenario, 45% of a customer's expected requirements would still have been exposed to price risk. Some companies that have flexibility in their operations and in their contracts might want to reduce this exposure further by hedging more than 100% of warmest winter requirements.

However, Staff is not proposing that 100% of the warmest month volumes should have been hedged for the 2000-2001 ACA period. Staff is proposing that for the winter of 2000-2001, a minimum reasonable hedge would have been 30% of normal for each month of the winter season. If 30% of normal requirements had been hedged for the Consolidated district, this would mean that when a warmest month was encountered, 41% of the estimated volumes required would have been hedged. This also means that when a coldest month was encountered, only 23% of the estimated volumes required would have been hedged. Therefore, for a coldest month, 77% would not have been hedged and customers would have been exposed to price risk for these volumes. Staff could not reasonably justify hedging less than 30% of normal requirements, because this implies that for a cold winter, more than 77% of customer natural gas requirements would have been exposed to price risk.

- Q. What is Staff's proposed adjustment for the Consolidated district for failure to hedge 30% of estimated normal usage?
- A. The Company's hedged volumes of natural gas for the Consolidated district for the winter of 2000-2001 included storage and fixed price purchases. Staff's review revealed that the Company's planned hedged volumes met the 30% threshold for November 2000 through January 2001, but the planned hedged volumes for February and March 2001 were only 14.1% and 23.2% of normal requirements. The proposed adjustment is \$105,326, which is approximately \$6.92 per customer. The proposed adjustment is shown in column M, Line 15 of the attached Schedule 21.
- Q. Please explain the Staff's proposed purchasing practices adjustment related to the Company's plan for flowing supplies and storage for the Consolidated district.

# Revised Direct Testimony of Lesa A. Jenkins

A. Staff believes that United Cities relied too heavily on flowing supplies rather
than planned and available storage withdrawals in January and February 2001, and that these
decisions exposed customers to the higher flowing gas costs in these months. In arriving at
this conclusion, Staff evaluated the Company's actual use of flowing supply and storage gas
to meet actual requirements compared to the Company's plan for meeting natural gas
requirements for the winter months of November 2000 to March 2001. This evaluation
shows that United Cities' decisions for flowing gas and storage withdrawals had an
unfavorable economic impact to customers on purchased gas costs of \$454,763 and,
therefore, the Staff proposes to reduce gas costs by that amount.

Q. Does Staff believe that the Company plan for flowing supplies and storage withdrawals was unreasonable?

	Α.	Yes. ** HC			
<u>HC</u>					
<u>HC</u>					
<u>HC</u>					
HC					
HC					
HC					
<u>HC</u>					
НС					

	Revised Direct Testimony of Lesa A. Jenkins		
1	<u>HC</u>		
2	<u>HC</u>		
3	HC		
4	<u>HC</u> **		
5	Q. Do you have problems with the information provided by the Company?		
6	A. Yes. As noted previously, the information provided to the Staff in different		
7	data request responses was inconsistent. Staff would expect that the Company's estimated		
8	requirements for normal weather would be consistent with other Company estimates of usage		
9	for normal weather. However, as shown in the chart on page 32 and in Schedule 19 attached		
10	to this testimony, the Company estimate of normal usage is different in its responses to DR		
11	No. 48 and DR No. JH85, and these are different from the estimated usage for normal		
12	weather obtained from the Company's reliability review using a regression analysis.		
13	For the reasons stated earlier, Staff does not believe that the estimates of normal		
14	usage provided in its DR No. 48 and DR No. JH85 responses are reasonable. However, for		
15	purposes of determining whether an adjustment was appropriate, Staff evaluated the		
16	Company supply plan from the DR No. 48 response compared to both the DR No. 48		
17	estimates of normal and the estimates of normal from the regression analysis. Charts of the		
18	estimated usage and the Company gas supply plan are shown in Schedule 22 attached.		
19	Q. Are there other reasons why Staff believes that the Company plan for flowing		
20	supplies and storage withdrawals was unreasonable?		
21	A. Yes. The Company's plan in DR No. 48 and the information in DR No. JH85		
22	show that ** HC		



	Revised Direct Testimony of Lesa A. Jenkins
1	<u>HC</u>
2	<u>HC</u>
3	<u>HC</u>
4	HC ** However, the planned distribution of the withdrawals
5	in each of the winter months was not consistent with the distribution of HDD in these
6	months. Staff therefore revised the planned withdrawals to be consistent with the distribution
7	of normal HDD. Additionally, the Company plan did not explain how the ** HC
8	HC ** Since one of the benefits of an
9	** <u>HC</u>
10	HC ** Staff assumed that there would be injections on some days and withdrawals on
11	other days, but that during the winter months, it would be reasonable to expect the Company
12	to withdraw net volumes of at least 50% of the ** HC ** throughout the
13	winter season. This seemed to be reasonable since the Company also makes transfers from
14	** <u>HC</u> **
15	Staff reviewed United Cities' actual natural gas purchases to see that the Company
16	had sufficient volumes of FOM flowing supplies and planned storage withdrawals to cover
17	warm weather requirements for November 2000 through January 2001. Charts of the actual
18	gas supply volumes versus estimated usage are shown in Schedule 23 attached to this
19	testimony. The review of the actual natural gas purchases shows that the Company used base
20	load, including fixed volumes of flowing supplies, swing flowing supplies, and storage to
21	meet actual customer requirements during these months. The review also revealed that the
22	Company did not follow its plan for base load purchases. Although the Company plan for
23	November 2000 to March 2001 was to have base load purchases of ** HC **

# Revised Direct Testimony of Lesa A. Jenkins

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

the planned total base load purchases. When examining each winter month separately, Staff found that actual base load as a percentage of planned base load purchases was 74% for November 2000, 95% for December 2000 and January 2001, 93% for February 2001 and 80% for March 2001. ("Fixed" is a term used in DR No. JH85 and refers to volumes of natural gas purchased under fixed price contracts. Staff considered these fixed price contracts to be base load volumes of natural gas.) Because less base load flowing supplies were procured than planned by the Company for each of the winter months, the Company relied more on swing supplies and storage withdrawals, which were not planned for normal weather. When the weather actually turned out to be colder than normal in November and December 2000, the Company had to rely on even more higher priced swing supplies and on storage withdrawals. A chart comparing the planned gas supply volumes (base load purchases and storage withdrawals) to the actual gas supply volumes (base load, including fixed purchases, and storage withdrawals) is shown in Schedule 24 attached to this testimony.

In fact, the Company did withdraw more storage than planned in November and December 2000, but this difference is not the major Staff concern. The major concern is for decisions made for January and February 2001.

- Q. What is Staff's concern for January 2001?
- A. Even though the month of January 2001 had near normal temperatures, and the Company plan for normal weather is to withdraw \*\* HC

  HC\*\* storage in January, the Company actually had a \*\* HC

	Lesa A. Jenkins			
1	HC ** for that month, and when combined with ** HC			
2	<u>HC</u> **			
3	Q. Did the storage activity in January 2001 surprise you?			
4	A. Yes. January is typically colder than the other winter months. Based on the			
5	Company plan, it would be standard practice to withdraw natural gas from storage during the			
6	month of January. It is reasonable to expect occasional injections when the weather is			
7	warmer than normal in January, for balancing purposes, but it is surprising to observe			
8	** HC ** in January 2001 when			
9	the weather was near normal. Thus, Staff believed it appropriate to look more closely at the			
10	Company's decisions regarding planned storage withdrawals and actual storage withdrawals			
11	for the winter of 2000/2001. As noted previously, the Company only plans to withdraw			
12	** <u>HC</u>			
13	<u>HC</u>			
14	<u>HC</u>			
15	<u>HC</u>			
16	HC			
17	<u>HC</u>			
18	HC			
19	<u>HC</u>			
20	<u>HC</u>			
21	<u>HC</u>			
22	<u>HC</u>			
23	НС			



	Revised Direct Testimony of Lesa A. Jenkins
1	<u>HC</u>
2	<u>HC</u>
3	HC ** This was unreasonable and
4	could have been corrected by relying more on storage withdrawals for January 2001 rather
5	than flowing supply.
6	Q. What is Staff's concern for February 2001?
7	A. The main difference between the Company plan and the Staff plan is that the
8	Company plans to withdraw a ** HC
9	<u>HC</u>
10	<u>HC</u> ** The comparison of the distribution of HDD and the planned storage
11	withdrawals is shown in the attached Schedule 25. Staff would expect that by the end of
12	January the Company will have more information about the past winter months and the
13	approximate volumes of storage utilized, so the Company can revise planned flowing
14	supplies based on its knowledge of the remaining storage inventory levels.
15	Q. How did Staff use this information in the proposed adjustment for the
16	Consolidated district?
17	A. Using the parameters described above, Staff calculated the adjusted base load
18	FOM nominations and adjusted storage withdrawals, as shown in column R, row 15 of
19	Schedule 21 attached to this direct testimony. Staff also calculated the adjusted base load
20	FOM nominations and adjusted storage withdrawals using the estimate of normal usage from
21	the regression analysis and the actual base load volumes. This second calculation is shown in
22	column R, row 15 of Schedule 26 attached to this testimony. An explanation of the dollar
23	amount of the adjustment for these revised storage volumes is included in the direct

4

testimony of Staff witness Allee. Staff's review shows United Cities' decisions for flowing

gas and storage withdrawals had an unfavorable economic impact on customers' purchased

gas costs amounting to \$454,763 (approximately \$29.86 per customer) as shown in the

attached Schedule 21. Therefore, the Staff proposes to reduce gas costs by this amount.

5

Q. In the Company Response To Staff Memorandum And Recommendation, the Company states that the Staff recommendation improperly seeks disallowance based on

67

hindsight review. Is this true?

8

A. No. The Staff adjustment reflects its analysis of decisions made by the

9

Company for planned and actual utilization of storage, and thus the use of swing supplies.

10

The Staff's analysis was based on information that was known or should have been known at

11

the time the Company made the decisions. Thus, storage was over-utilized early in the

12

winter and under-utilized in January and February 2001 and as a consequence the cost burden

13

on regulated customers was larger than it would have been.

14

Q. Does this conclude your testimony for the Consolidated district purchasing

15

practices adjustment?

16

A. Yes, it does.

#### **RELIABILITY ANALYSIS**

Q. Please explain the reliability issues.

19

17

18

A. The Staff Recommendation in Case No. GR-2001-397 filed on August 29,

20

2002, contained recommendation Nos. 3a through 3d related to actions to be taken by the

21

Company by February 3, 2003, regarding the Company's reliability analysis. In the

22

Response To Staff Memorandum And Recommendation filed October 25, 2002, the

23

Company states that it will accept Staff's recommendation that additional documentation

Revised Direct Testimony of
Lesa A. Jenkins

regarding the reliability information be submitted by February 3, 2003. Therefore, this issue

appears to be resolved.

Q. Does this conclude your revised direct testimony for United Cities Gas

Company, Case No. GR-2001-397?

A. Yes, it does.

## **SUMMARY OF TESTIMONY**

## LESA A. JENKINS

<b>Company Name</b>	Case Number	Issues
Aquila, Inc. d/b/a	GR-2000-520 and	Purchasing Practices-Eastern System;
Aquila Networks – MPS	GR-2001-461	Purchasing Practices-Southern System;
	Consolidated	Reliability Analysis
Missouri Gas Energy	GR-2001-382,	Purchasing Practices;
	GR-2000-425,	Reliability Analysis
	GR-99-304, and	
	GR-98-167	
	Consolidated	