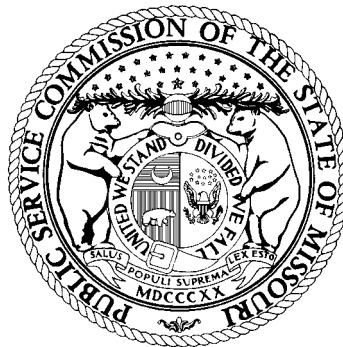


# MISSOURI PUBLIC SERVICE COMMISSION

## STAFF REPORT

### CLASS COST-OF-SERVICE AND RATE DESIGN



#### MISSOURI GAS ENERGY

A Division of Southern Union Company

CASE NO. GR-2009-0355

*Jefferson City, Missouri  
September 2009*

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

**NP**

**BEFORE THE PUBLIC SERVICE COMMISSION**  
**OF THE STATE OF MISSOURI**

In the Matter of Missouri Gas Energy and Its  
Tariff Filing to Implement a General Rate  
Increase for Natural Gas Service

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)  
)

Case No. GR-2009-0355

**AFFIDAVIT OF THOMAS A. SOLT**

**STATE OF MISSOURI**

)

) ss

**COUNTY OF COLE**

)

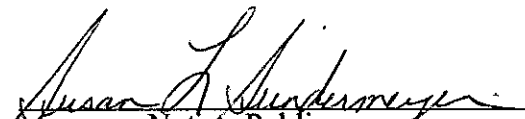
Thomas A. Solt, employee of the Staff of the Missouri Public Service Commission, being of lawful age and after being duly sworn, states that he has participated in the preparation of the accompanying Staff Report on pages 2-7, and the facts therein are true and correct to the best of his knowledge and belief..

  
Thomas A. Solt

Subscribed and sworn to before me this 3<sup>rd</sup> day of September, 2009.



SUSAN L. SUNDERMEYER  
My Commission Expires  
September 21, 2010  
Callaway County  
Commission #06942086

  
Notary Public

  
Notary Public

**BEFORE THE PUBLIC SERVICE COMMISSION  
OF THE STATE OF MISSOURI**

In the Matter of Missouri Gas Energy and Its  
Tariff Filing to Implement a General Rate  
Increase for Natural Gas Service

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Case No. GR-2009-0355

**AFFIDAVIT OF ANNE E. ROSS**

STATE OF MISSOURI

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) ss

COUNTY OF COLE

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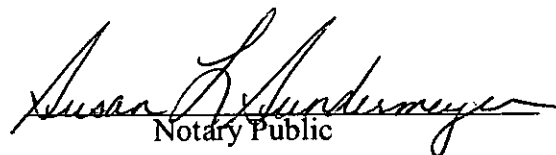
Anne E. Ross, employee of the Staff of the Missouri Public Service Commission, being of lawful age and after being duly sworn, states that she has participated in the preparation of the accompanying Staff Report on pages 9-15, and the facts therein are true and correct to the best of her knowledge and belief.

  
Anne E. Ross

Subscribed and sworn to before me this 3<sup>rd</sup> day of September, 2009.



SUSAN L. SUNDERMEYER  
My Commission Expires  
September 21, 2010  
Callaway County  
Commission #06942086

  
Notary Public

**BEFORE THE PUBLIC SERVICE COMMISSION  
OF THE STATE OF MISSOURI**

In the Matter of Missouri Gas Energy and Its  
Tariff Filing to Implement a General Rate  
Increase for Natural Gas Service

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)

Case No. GR-2009-0355

**AFFIDAVIT OF HENRY E. WARREN**

STATE OF MISSOURI


)

) ss

COUNTY OF COLE

)

Henry E. Warren, employee of the Staff of the Missouri Public Service Commission, being of lawful age and after being duly sworn, states that he has participated in the preparation of the accompanying Staff Report on pages 15-17, and the facts therein are true and correct to the best of his knowledge and belief.

  
Henry E. Warren

Subscribed and sworn to before me this 3<sup>rd</sup> day of September, 2009.



SUSAN L. SUNDERMEYER  
My Commission Expires  
September 21, 2010  
Callaway County  
Commission #06942086

  
Notary Public

**BEFORE THE PUBLIC SERVICE COMMISSION**  
**OF THE STATE OF MISSOURI**

In the Matter of Missouri Gas Energy and Its  
Tariff Filing to Implement a General Rate  
Increase for Natural Gas Service

)  
)  
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Case No. GR-2009-0355

**AFFIDAVIT OF MICHAEL J. ENSRUD**

STATE OF MISSOURI )

) ss

COUNTY OF COLE )

Michael J. Ensrud, employee of the Staff of the Missouri Public Service Commission, being of lawful age and after being duly sworn, states that he has participated in the preparation of the accompanying Staff Report on pages 17-31, and the facts therein are true and correct to the best of his knowledge and belief.

  
Michael J. Ensrud

Subscribed and sworn to before me this 3<sup>rd</sup> day of September, 2009.



SUSAN L. SUNDERMEYER  
My Commission Expires  
September 21, 2010  
Callaway County  
Commission #06842086

  
Notary Public

**BEFORE THE PUBLIC SERVICE COMMISSION  
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In the Matter of Missouri Gas Energy and Its  
Tariff Filing to Implement a General Rate  
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Case No. GR-2009-0355

**AFFIDAVIT OF ANNE M. ALLEE**

**STATE OF MISSOURI**

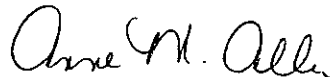
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) ss

**COUNTY OF COLE**

)

Anne M. Allee, employee of the Staff of the Missouri Public Service Commission, being of lawful age and after being duly sworn, states that she has participated in the preparation of the accompanying Staff Report on pages 31-33, and the facts therein are true and correct to the best of her knowledge and belief.



Anne M. Allee

Subscribed and sworn to before me this 3<sup>rd</sup> day of September, 2009.



SUSAN L. SUNDERMEYER  
My Commission Expires  
September 21, 2010  
Callaway County  
Commission #06942086

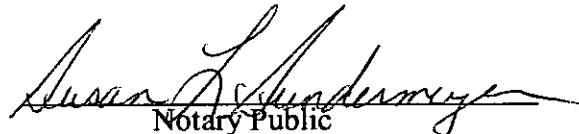
  
Notary Public

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# CLASS COST-OF-SERVICE REPORT

## I. Executive Summary

Staff has conducted a Class Cost-of-Service Study in this case and allocated costs to the customer rate classes of Missouri Gas Energy (MGE or Company). Staff recommends no shift of cost between the classes. Staff computed peaks as part of its computation of the Staff Class-Cost-of-Service calculation. Upon further investigation, Staff has determined that the Large Volume Service Customer's revenue included in the Staff's Accounting Schedules, was understated by approximately \$3 million. This has the effect of decreasing the Staff's overall revenue requirement by approximately \$3 million.

Staff's rate design proposal includes the continuance of the Straight Fixed Variable (SFV) rate for the Residential class and adding the Small General Service (SGS) Class to the SFV design. Staff's review of MGE's proposal relating to the SGS class indicates that the SFV rate design would send the proper price signal to this customer class and should be implemented. Staff recommends the Large General Service, Large Volume and Transportation customer classes continue to use the current rate design in place for these classes.

Staff supports MGE's proposed tariff changes. The first change eliminates the word "experimental" from the existing School Transportation Program (STP). The second tariff change eliminates the Experimental Low Income Rate (ELIR) tariff language. The third change involves major modifications to MGE's existing transport tariff. Staff is proposing a change to four miscellaneous tariff rates that include the collection and disconnection charge, transfer charge, reconnect charge and new connections charge.

Staff supports the continued energy efficiency programs MGE currently has in place and recommends the expansion of these to the SGS class. Staff is proposing to maintain the capacity release and off-system sales sharing percentages currently in effect, but is proposing to change the tiers within the sharing grid to reflect current activity.

## **II. Class Cost-of-Service**

### **A. Fundamental concepts of gas Class Cost-of-Service**

Cost-of-Service: total costs, prudently incurred by a utility in providing services to its customers in a particular jurisdiction.

Cost-of-Service Study: a study that analyzes total company costs, adjusts them in accordance with regulatory principles (annualizations and normalizations), allocates these costs to the relevant jurisdiction, and compares the allocated costs to the revenues the utility is generating from its retail rates, off-system sales, and other revenues. The results of a cost-of-service study are expressed in terms of additional revenue required for the utility to recover its cost-of-service.

Class Cost-of-Service (CCOS) Study: a quantitative analysis of the costs incurred by a utility to serve its various classes of customers. A Staff CCOS study consists of these steps: a) costs are categorized (functionalized) based upon the specific role they play in the operations of a local distribution company (LDC); b) costs are classified by whether they are customer related, demand related, or energy related; and, c) functionalized/classified costs are allocated to customer classes. The sum of all allocated costs to a customer class is called the cost-to-serve that class.

The cost-of-service of each customer class is compared to the annualized, normalized revenues the utility collects from each class through its rates during the test year, plus each

1 class' allocated share of revenues from off-system sales and other revenues. The results of a  
2 CCOS study are expressed in terms of additional revenue required from each class for the  
3 utility to recover its cost of serving that class.

4 Relationship between Cost-of-Service and CCOS: conceptually, class cost of service  
5 is a breakdown of the utility's jurisdictional cost-of-service. A cost-of-service study  
6 determines what portion of total company costs is attributable to the retail jurisdiction; a  
7 CCOS study determines what portion of retail costs is attributable to each customer class.

8 Cost Allocation: a procedure by which common or joint costs are apportioned among  
9 customers or classes of customers.

10 Cost Functionalization: the grouping of rate base and expense accounts according to  
11 the specific function they play in the operations of an LDC. The most aggregated functional  
12 categories are production, storage, transmission, distribution, customer accounting expenses,  
13 and other costs.

14 Customer Class: a group of customers with similar characteristics (usage patterns,  
15 conditions of service, usage levels, etc.) that are identified for the purpose of setting rates for  
16 gas service.

17 Rate Design: (1) a process used to determine the rates for a gas utility once total cost-  
18 of-service is known; (2) characteristics such as rate structure, rate values and availability that  
19 define a rate schedule and provide the instructions necessary to calculate a customer's gas bill.

20 Rate Design Study: while a CCOS study focuses on the revenue responsibility of  
21 customer classes, a rate design study focuses on the equitable pricing of the utility service  
22 provided to individual customers within each class. The rate design process attempts to  
23 recover costs in each time period (e.g., summer/winter or on-peak/off-peak) from each rate

1 component for each customer in a way that equates the cost of providing service with the  
2 amount the customer is billed in accordance with the rate schedule.

3 Rate Schedule: one or more tariff sheets that describe the availability requirements  
4 and prices applicable to a particular type of retail gas service. A customer class used in a  
5 CCOS study may consist of one or more rate schedules.

6 Rate Structure: rate structure is composed of the various types of monthly prices  
7 charged for the utility's products. At the most basic level there are: a) customer charges, a  
8 fixed dollar amount to be paid each month irrespective of the amount of the product taken; b)  
9 usage (energy) charges, a price per unit charged on the total units of the product consumed  
10 over the month; c) purchased gas adjustment (PGA) charges, which is a price per unit "pass-  
11 through" of gas costs; and, d) demand charges, a price per unit charge for gas consumed over  
12 a 24-hour period of time. One criterion for determining the appropriate rate structures is the  
13 accuracy with which the structure tracks costs. Another criterion deals with the ease or  
14 difficulty in administering the rate, as well as the customer's understanding of how the rate  
15 structure works, i.e., what causes the customer to incur a higher or lower monthly bill.

16 Rate Values (Rates): the per-unit prices the utility charges to provide service to its  
17 customers. Rates are expressed as dollars per unit of volume (Ccf, Mcf) or per unit of energy  
18 (MMBtu, therm), etc.

19 Tariff: a document filed by a regulated entity with either a federal or state  
20 commission; it lists the rates (prices) the regulated entity will charge to provide service to its  
21 customers as well as the terms and conditions that it will follow in providing service.

Units of Measurement:

Btu: British thermal unit.

MMBtu: one million Btus. One MMBtu is approximately the amount of energy contained in 1,000 Cf (or 1 Mcf) of natural gas, 83.3 pounds of coal, 10.917 gallons of propane, 8 gallons of gasoline, or 293.083 kWh or electricity.

Cf: a unit of volume of one cubic foot of natural gas, which contains approximately 1,000 Btus of energy.

Therm: 100,000 Btus of energy, approximately equal to the energy contained in 100 Cf of natural gas.

## **B. General Description of the CCOS study filed in GR-2009-0355**

The purpose of the Staff's CCOS study is to provide the Commission with a measure of relative class cost responsibility for the overall revenue requirements of MGE. For individual items of cost, the responsibility of a certain class of customers to pay that cost can be either directly assigned to a class or classes or allocated between the classes using reasonable methods for estimating the class responsibility for that item of cost. The results are then summarized so that they can be compared to revenues being collected from each class on current rates. The difference between a particular customer class' costs responsibility and the revenues generated by that customer class is the amount that class is either paying in excess of its costs (revenues greater than costs) or less than its costs (revenues are less than costs).

The annualized usage levels and customer bill counts for the Residential Service (RES), Small General Service (SGS), and Large General Service (LGS) classes were provided by Staff witness Amanda C. McMellen, and those for the Large Volume Service (LVS) class were provided by Staff witness Anne E. Ross. The class peak demand levels for RES, SGS, LGS and LVS customers were provided by Staff witness Daniel I. Beck. All accounting

1 information was developed using costs and revenues produced by the Public Service  
2 Commission (PSC) Auditing Department, which are based upon a test year ending December  
3 31, 2008, updated for known and measurable changes through April 30, 2009, except for LVS  
4 revenues, which were developed by Staff witness Anne E. Ross, and differ from LVS  
5 revenues in the Staff's previously filed EMS run by an additional \$3,140,296.

### 6 **C. Customer Classes**

7 The Staff analyzed the costs and revenues of the following customer classes:  
8

9 Residential Service (RES)  
10 Small General Service (SGS)  
11 Large General Service (LGS)  
12 Large Volume Service (LVS)  
13

14 These classes correspond to MGE's current customer classes. The RES class is  
15 available to residential customers for non-business, non-commercial or non-industrial use at a  
16 single point of delivery. The SGS class is comprised of those small non-residential customers  
17 with usage through a single point of delivery consisting of not more than 10,000 Ccf per  
18 month. LGS customers are those non-residential customers with a single point of delivery  
19 whose usage is greater than 10,000, but not greater than 30,000 Ccf per month, and those who  
20 exceed 30,000 Ccf in any one month in a twelve-month billing period. LVS customers are  
21 those whose usage at a single address or location the Company expects will exceed 15,000  
22 Ccf in any one month of a 12-month billing period.

23 The Company's costs were first categorized into functional areas that are to be  
24 allocated in the same way. This is referred to as cost functionalization. The rate base and  
25 expense accounts are assigned to one of the following functional categories: Storage,  
26 Distribution Mains, Distribution Measuring and Regulating, Purchased Gas Related,  
27 Distribution Meters, Distribution Regulators, Distribution Services, Customer Related,

1 Billing, Meter Reading, Assigned RES, SGS, and LGS, Assigned LGS and LVS, and  
2 Revenue Related.

3 Those costs which cannot be directly assigned into any of these specific functional  
4 categories are divided among several functions based upon some relational factor. For  
5 example, it is reasonable to assume that property taxes are related to gross plant costs and can  
6 therefore be functionalized in the same manner as gross plant costs.

7 The allocation factor for Distribution Mains, as well as those for Distribution Meters,  
8 Distribution Regulators, and Distribution Service Lines were determined by using the  
9 allocation factors developed by Staff witness Daniel I. Beck. Meter Reading costs were  
10 allocated using weighted customer numbers. Revenue Related costs were allocated based  
11 upon the Staff's annualized margin revenues.

12 The results of the Staff's CCOS study for MGE is shown on Schedule TAS 1-1. The  
13 CCOS study is presented in terms of class revenue requirements before any increase in the  
14 Company's respective revenue requirements. These results show that RES class revenues are  
15 slightly insufficient to cover their costs, while the SGS is overpaying the cost to serve them,  
16 and LGS and LVS are underpaying. Staff's recommendation, based on the CCOS study is to  
17 not make any revenue shifts among classes at this time.

18 *Staff Expert: Thomas A. Solt*  
19

### 20 **III. Allocations**

21 The allocation factor for Distribution Mains that was developed by the Staff is Stand  
22 Alone/Integrated System factor. To determine the split between the Stand Alone and  
23 Integrated System components, the Staff analyzed data from a random sample of customers  
24 for the four customer classes to estimate the length of main required to extend the system to

1 that customer and used cost data provided by the Company. The Stand Alone cost component  
2 was then allocated to the classes using the same length and cost data. The Integrated System  
3 component was allocated using a Capacity Utilization factor. This Capacity Utilization factor  
4 uses estimated monthly peak day loads for each month of the year to estimate each class's  
5 year round use of the system. The month with the lowest system peak would be  
6 proportionally assigned to each class that used natural gas on that peak day and would reflect  
7 that this peak usage is needed for all months of the year. For all other months, the  
8 incremental system load (the difference from the previous month to the next month) is  
9 assigned proportionally to each class that used natural gas on that peak day and would reflect  
10 that this peak usage is needed for one to eleven months of the year. The resulting allocation  
11 factor is a value that is between the percent of volumes used by each class and the percent of  
12 peak usage on the peak day of the year by each class.

13 For the allocation of Distribution Meters, Distribution Regulators, Distribution Service  
14 Lines, Billing and Meter Reading, a weighted customer allocator was used. Data from the  
15 Company was used to develop the weights. For all allocators, the Residential Class is  
16 assumed to have a weight of 1 and the other classes typically had values greater than or equal  
17 to 1. For example, the Small General Service Class was given a weight of 2.57 based on data  
18 obtained from the sample to reflect the fact that its meters typically cost more than a  
19 residential meter.

20 *Staff Expert: Daniel I. Beck*  
21

## **IV. Rate Design**

### **A. Large Volume Transportation and Sales Service Peak Demand**

The LVS customers' peak day demand was estimated, and this was provided to Staff witness Daniel I. Beck.

The LVS customer class contains commercial and industrial customers, whose 2008 usage ranged from around 16,000 Ccf to over 17,000,000 Ccf in the test year. There are several schools and large retail operations in this class that appear to be weather sensitive. Other customers, such as large industrial customers, or concrete plants, are not. The first step in calculating a peak day demand was to separate customers into two groups – one group containing the customers who appeared to be weather sensitive, and a second group that contained the remainder of the LVS customers.

The test year usage of customers who appeared to be weather sensitive was weather-normalized as described in the staff cost-of-service report filed on August 21, 2009, in this case. A product of the Staff's weather normalization analysis is an estimate of peak day usage; this number was used to represent the weather-sensitive customers' usage contribution to the LVS class peak demand.

The remaining customers' January and December monthly usage was added together and divided by 2 to determine an average month's usage, then divided by 22 to reflect the fact that some of these customers do not operate on weekends and/or holidays that occur in December and January. The result of this calculation was added to the estimate of the LVS weather-sensitive usage, and given to Staff witness Daniel I Beck to use in the calculation of a Distribution Mains allocator for the Staff class cost-of-service.

## **B. MGE's Proposed Residential Rate Design**

MGE proposes that the current Straight Fixed Variable (SFV) Residential rate structure be continued. This rate design recovers non-gas costs through a monthly fixed charge. The customers' gas costs are recovered through the per-unit PGA charge. Staff supported this rate design in the previous rate case, and continues to do so.

*Collection of the Residential customers' cost-of-service in a fixed monthly Delivery Charge is an equitable and reasonable way to recover costs from the customers in this class.* This rate design reflects the fact that a difference in the cost of serving two Residential customers is not driven by the size of the customer's load; in fact, the difference between individual Residential customers' annual volumes is miniscule when you consider the fact that the largest customer on the MGE system used over 17 million Ccf in the test year, while the average Residential usage is 885 Ccf per year.

While Staff is aware that any LDC is going to have a few mansions in its Residential customer class, huge Residential customers are the exception, rather than the rule, and it muddies the waters to point to those few, when trying to design fair rates for the majority of the customers in this class. The majority of customers in the Residential class fall within a relatively small band of usage, and Staff has not seen any evidence that a difference of a few hundred Ccf per year creates a difference in the costs incurred to serve two customers. Any difference in the cost to serve two Residential customers is more likely driven by factors other than customer size, such as distance from the transmission pipeline, customer density in the area, the terrain in the customer's geographical area, or the exact age and depreciated cost of the equipment serving the customer. Traditionally, we do not charge Residential customers

1 different amounts to reflect these factors, and Staff does not propose that we begin doing so  
2 now.

3 *The SFV rate design more closely aligns the Company's and customers' interests*  
4 *regarding conservation, and enables MGE to actively promote conservation without harming*  
5 *their shareholders because revenues from Residential customers no longer depends on*  
6 *Residential customers' usage.* Before this rate design went into effect in the last MGE rate  
7 case, cost recovery and profits were directly tied to the amount of natural gas MGE's  
8 customers used, so MGE had no incentive to educate or assist its customers regarding  
9 conservation measures; in fact, by doing so, the Company was actually harming its  
10 shareholders by lowering its ability to recover its cost of service.

11 Concurrent with the SFV rate design's adoption, MGE began researching and  
12 implementing energy efficiency programs for its Residential customers. These energy  
13 efficiency programs are available to all Residential customers as the result of a fund of  
14 \$750,000 that was authorized by Commission Order for this purpose in the previous rate case.  
15 These programs were developed with the assistance of the Energy Efficiency Collaborative  
16 (EEC) established for this purpose by Commission Order in Case No. GT-2008-0005, filed  
17 subsequent to the previous rate case. The programs developed by the EEC have been  
18 coordinated with the City of Kansas City's Metropolitan Energy Center, the Kansas City  
19 Power & Light Company, The Empire District Electric Company and other agencies and  
20 organizations in the MGE service area. Thus the SFV rate design has resulted in the  
21 establishment of energy efficiency programs and the promotion of energy efficiency in the  
22 MGE service area. Consequently, Staff is of the opinion that the SFV rate design should be  
23 continued along with the \$750,000 of funding for energy efficiency programs. The

1 *Unanimous Stipulation and Agreement* (Agreement) in Case No. GT-2008-0005 established  
2 the EEC. Section II.3 of the Agreement contains a sunset provision for the EEC so that it will  
3 discontinue when the rates become effective as a result of this rate case. Staff concurs with  
4 this provision of the Agreement that the EEC has served its purpose and does not need to  
5 continue.

6 *The SFV rate design provides an appropriate price signal to prospective customers,*  
7 *thus protecting current customers.* When a new customer hooks up to the MGE system, there  
8 are costs involved – both immediate and long-term. As discussed above, these costs are not  
9 driven by the amount of gas the individual Residential customer will use.

10 For example, the utility must run pipe to connect the customer to its distribution main,  
11 provide metering equipment, etc, for these customers; and this cost investment does not vary  
12 based on whether the customer plans to use gas only to barbecue a steak or heat their home.  
13 The smallest diameter service line and meter is sufficient to serve the load generated by  
14 existing Residential end-uses, such as space- or water-heating, gas fireplaces or barbecues,  
15 dryers, and stoves.

16 When making long-term investment decisions, the utility must take into account the  
17 ability of Residential customers to change their end-use gas consumption at any time, making  
18 it impossible to predict exactly what each individual household is going to ‘need’ from the  
19 local distribution system in the future. Furthermore, the consequences of missing the mark in  
20 sizing equipment are expensive – for example, even if it was possible to exactly size a main to  
21 meet expected future demand, it would be very expensive to dig up and install a new main if  
22 any Residential customer’s usage increased or decreased in the future. Thus, even in the long-  
23 term, the investments that MGE makes to serve its Residential customers will not exactly

1 reflect the amount of gas each customer uses. Many of the capital investments have an  
2 expected life of over 40 years

3 When a very small user pays a volumetric rate, they underpay their share of these  
4 costs, and Residential customers using more than the average pay more than their share.

5 A fixed charge which accurately reflects the nature of the cost MGE incurs to serve a  
6 Residential customer sends a clear price signal to a customer who is making their energy  
7 decisions as to costs and benefits of that decision. It is illogical to hook up a customer who  
8 clearly will not pay their cost of service, and it is unfair to allow one customer to take service  
9 while expecting another Residential customer to pay for that service.

### 10 **C. MGE's Proposed SGS and LGS Class Restructuring**

11 MGE proposes that the Company's existing Small General Service and Large General  
12 Service rate classes be restructured.

13 Currently, a customer is served in the Small General Service rate class if their usage  
14 does not exceed 10,000 Ccf in any one month. Under the Company's proposal, a customer  
15 will be classified as Small General Service if their usage is less than 10,000 Ccf on an annual  
16 basis.

17 A customer is currently served in the LGS rate class if their usage exceeds 10,000 Ccf  
18 in at least one month, but does not exceed 30,000 Ccf in any month. Under the Company's  
19 proposal regarding usage requirements for the Large General Service rate, an LGS customer  
20 will be one whose annual usage exceeds 10,000 Ccf, but whose usage does not exceed 30,000  
21 Ccf in any one month.

1 Staff has reviewed the Company's analysis of the current and proposed customer  
2 classes, and believes that the proposed parameters for the SGS and LGS customer classes are  
3 reasonable because they provide for a more homogenous customer class.

#### 4 **D. MGE's Proposed Rate Design for the 'New' SGS Class**

5 MGE has proposed recovering the non-gas costs from its newly defined SGS class via  
6 a flat monthly charge. Staff agrees that this is an appropriate and fair method to use for this  
7 class. SGS customers have more end-use options than Residential customers, such as large  
8 fryers, dishwashers, or water heating for restaurants and laundries, but many of these are  
9 small business customers that only use natural gas for space heating. The customer loads are  
10 small, and the difference between two customers' loads even smaller. If there is any real  
11 difference in the cost to serve any two customers, it is likely driven by factors other than  
12 customer size, such as distance from the transmission pipeline, customer density in the area,  
13 the terrain in the geographical area surrounding the customer, or the exact age and depreciated  
14 cost of the equipment serving the customer. Traditionally, we do not charge different rates to  
15 reflect these factors, and Staff does not propose that we do so now.

#### 16 **E. MGE's Proposed Rate Design for the 'New' LGS Class**

17 MGE has proposed that the customers in the restructured LGS class pay an increased  
18 share of their costs in the form of a fixed charge, with the remainder of these customers' cost-  
19 of-service collected in a two-block volumetric rate. Staff has reviewed the Company's  
20 proposal, and concurs.

#### 21 **F. MGE's Proposed Rate Design for the LVS Class**

22 MGE has proposed an equal percentage increase to the non-gas rate components for  
23 the LVS customers. Staff believes that this proposal is reasonable, but asks that MGE commit

1 to performing costs studies in the next rate case that can be used to determine whether this  
2 class should be further separated on the basis of size or load factor.

### 3 **G. Elimination of the Winter/Non-Winter Difference in the SGS, LGS, and** 4 **LVS Non-Gas Rates**

5 Staff believes that it is appropriate to eliminate the seasonal differential in MGE's  
6 non-gas rates.

7  
8 *Staff Expert: Anne E. Ross*

## 9 **V. Peak Calculation & Energy Efficiency**

### 10 **A. Weather-Normalized Coincident Peak Day Demand**

11 Staff determines weather-normalized coincident peak day demand by customer class.  
12 Staff calculates the estimated usage per firm customer by customer class based on Staff  
13 witness Manisha Lakhanpal's computed normally occurring monthly or winter season  
14 (December – February) coldest days. The estimated use per customer per day is based on the  
15 regression of monthly use per customer per day and monthly heating degree days (HDD).  
16 The daily peak is the highest daily load or draw of natural gas on a system and the demand is  
17 the rate or amount of natural gas used on that day. My estimates of each class customers'  
18 natural gas peak usage -- residential (Schedules 4.1 – 4.3), small general service (Schedules  
19 4.4 – 4.6) and large general service (Schedules 4.7 – 4.9) -- are at the time (coincident) of a  
20 utility's system daily peak.

21 Staff estimates weather-normalized coincident peak day class demands because these  
22 estimates determine the relative responsibility of the residential, small general service, and  
23 large general service customers for that estimated single-day system peak. For cost-of-service  
24 studies, it is important to determine each class' contribution to the peak day responsibility.

1 Schedules 4.1 – 4.9, attached to this testimony, contains the estimated  
2 weather-normalized coincident peak day natural gas usage in Ccf per customer by billing  
3 month and customer class for MGE’s Joplin, Kansas City, and St. Joseph geographic regions.  
4 This information was provided to Staff witness Daniel I. Beck of the Commission’s Energy  
5 Department, Engineering Analysis Section for his calculation of total peak day demand across  
6 MGE’s firm customer classes.

### 7 **B. Energy Efficiency Programs and Collaborative**

8 As a result of the Commission’s Report and Order (Order) in Case No.  
9 GR-2006-0422, Natural Gas Conservation Programs were funded through rates at \$705,000  
10 annually. Subsequently, MGE filed tariff sheets to establish Residential Natural Gas  
11 Conservation Initiatives. The Office of the Public Counsel filed a *Motion to Suspend Tariff*  
12 *and Motion to take Administrative Notice*. This resulted in the Commission’s *Order*  
13 *Approving Unanimous Stipulation and Agreement* (Agreement) in Case No. GT-2008-0005,  
14 which established an Energy Efficiency Collaborative (EEC) to oversee the design and  
15 implementation of MGE’s energy efficiency programs. The charter members of the EEC are  
16 MGE, Commission Staff, Public Counsel, and Department of Natural Resources. In the  
17 Unanimous Stipulation and Agreement in Case No. GT-2008-0005, Provision II.3 provides,  
18 “The provisions of this Stipulation and Agreement will no longer be effective as of the date  
19 that new rates become effective for MGE as a result of a future general rate proceeding.”  
20 Staff concurs with this provision that the EEC established as a result of Case No. GT-2008-  
21 0005 should no longer be in effect as of the date when new rates from this case become  
22 effective. Staff does support the continued funding of \$705,000 for energy conservation  
23 programs and \$45,000 for education on energy conservation. As a result of the EEC, Applied

1 Energy Group (AEG) produced a study to develop, implement, and evaluate a High  
2 Efficiency Natural Gas Water Heating and Space Heating Incentive Program, a Home  
3 Performance with Energy Star<sup>®</sup> Program, and an Outreach and Education Program. MGE has  
4 subsequently filed tariff sheets and received Commission approval for these programs. As a  
5 result of these actions, it is appropriate for the EEC to cease as provided in Section II.3 of the  
6 Agreement. The funding for Conservation and Education as provided in the Order should  
7 continue, and additional programs should be developed for the residential customers and the  
8 other customer classes. Similarly, the Weatherization Program in the MGE tariff has been  
9 effective in improving the energy efficiency of the homes of income eligible customers, and  
10 the funding of \$750,000 annually for the program should be continued.

11 *Staff Expert: Henry E. Warren*

## 12 **VI. Miscellaneous Tariff Issues**

### 13 **A. School Transportation Program / Eliminates the Experimental Low** 14 **Income Rate / Transport Tariff**

- 15  
16 1. Elimination of “Experimental” From the Title of the Existing School  
17 Transportation Program (STP)

18  
19 Staff agrees with MGE’s proposal to eliminate the word “experimental” from  
20 the existing STP. The program is no longer experimental as it has been in place for  
21 approximately six years and the Legislature has extended the program “until terminated by  
22 the commission.” (§ 393.310.7)

- 23 2. Elimination of the Experimental Low Income Rate (ELIR) tariff language

24  
25 In its September 21, 2004 Report & Order (in Case GR-2004-0209), the  
26 Commission concluded the ELIR was not working as intended and permitted it to expire:

27 The ELIR is an interesting attempt to make natural gas bills more affordable  
28 for low income customers while ultimately saving money for MGE and its

1 other ratepayers by reducing expenses that result from bad debts. **However, it**  
2 **is only an experimental program and it has had problems.** For example,  
3 nearly half of the participants that initially entered the program dropped out by  
4 January 2004.<sup>144</sup> The Commission is not willing to pour more ratepayers  
5 funds into this program, particularly without the agreement of MGE. **The**  
6 **Commission will allow the program to continue in its current form**  
7 **through July 2006, or until funding runs out, which ever occurs first.**  
8 (emphasis added)  
9

10 The program has ended and Staff concurs with MGE's proposal to eliminate  
11 the ELIR tariff language.

### 12 3. Proposed Changes to MGE's Commercial Transport Cash-Out Provisions 13

14 While there are a number of language changes spread throughout the  
15 "Transportation Provisions" (TRPR) section of the tariff (pages 59 through 67), the most  
16 significant changes in the transportation tariff are:

- 17 • MGE proposes to reduce the "Tolerance Levels" for imbalances used to  
18 determine the price a transport customer receives when selling excess gas to  
19 MGE, or pays when buying needed gas from MGE. (Proposed Tariff Sheet  
20 Nos. 61.1 & 61.2)
- 21 • MGE proposes to eliminate the existing tariff clause requiring MGE to pay the  
22 transport customer "the firm transportation charges included in the current  
23 PGA rate to bring the gas to the Company's system". (Current Tariff Sheet No.  
24 61.2)
- 25 • MGE proposes to change the mathematical formula used to calculate the  
26 imbalance percentage used in the Cash-Out mechanism. (Proposed Tariff Sheet  
27 No. 61.1 & 61.2)
- 28 • MGE proposes to change the existing language addressing the under-  
29 nominated price for gas purchased from MGE by transport customers to "the

1 higher of the index price for the business month or the index price of the month  
2 immediately following the business month”. (Proposed tariff Sheet No. 61.2)

- 3 • MGE also proposes to change the existing language addressing the over-  
4 nominated price” for gas sold to MGE by transport customers to “the lower of  
5 the index price for the business month or the index price of the month  
6 immediately following the business month.” (Proposed tariff Sheet No. 61.2)

7 **Each of these proposed changes is discussed below.**

### 8 ***Transport Tariff Background and Application***

9 The transport tariff is applicable to those customers (usually large industrial or  
10 institutional customers) who buy their gas from a party other than MGE – referred to as “the  
11 supplier.” Transport customers continue to use MGE’s pipeline system to deliver the gas to  
12 their premises.

13 The charge for delivery is reflected in the transportation tariff rates of MGE. A  
14 customer is said to over-nominate or under-nominate when the transport customer’s actual  
15 consumption of gas either exceeds, or is less than, the volume of gas delivered to MGE’s  
16 system. While over-nominations/under-nominations are not totally avoidable, the transport  
17 customer, or its agent, has control over the amount of gas it orders for delivery to MGE’s  
18 system. In its response to Staff DR 129, MGE states: “The party making the nominations is  
19 responsible for balancing the requirements of usage, nominations and transportation.” Staff  
20 agrees with MGE that the party responsible for imbalances should be accountable.

21 When transport customers either under-nominate or over-nominate, MGE needs a  
22 method to correct the imbalances. MGE uses “cash out” to bring imbalances to zero at the  
23 close of the month. Although the term for “settling up” under-nominations or over-

1 nominations is “cash out”, cash “flows in” to MGE when MGE sells gas and “flows out”  
2 when MGE buys gas.

3 This financial settlement of imbalances takes place at the end of each month based on  
4 the net imbalances occurring during the month. This monthly method of basing compensation  
5 on net imbalances allows transport customers an opportunity to eliminate any cumulative  
6 imbalances occurring during the month.

7 MGE uses an index price to determine the price of the gas when it pays a customer for  
8 excess gas, or when it charges a transport customer for gas MGE supplies. Currently, the  
9 same index price is used when the transport customer buys or sells gas to correct an  
10 imbalance.

11 The current tariff describes the “index price” as follows:

12 (a) Index Price: The index price shall be determined as the arithmetic  
13 average of the first-of-the-month index prices published in Inside  
14 F.E.R.C.’s Gas Market Report for the month immediately following  
15 the month in which the imbalance occurred, for

16  
17 Southern Star Central Gas Pipeline, Inc. f/k/a Williams Gas  
18 Pipeline Central Inc. (Texas, Kansas, Oklahoma) (If Inside  
19 FERC’s Gas Market Report does not publish an index price for  
20 Southern Star, then the alternate index price approved by FERC  
21 for use by Southern Star Central will be substituted.)  
22 And Panhandle Eastern Pipe Line Company (Texas and  
23 Oklahoma) (Sheet No. 61.3)  
24

25 Generally, when MGE sells more gas than nominated to a transport customer, MGE is  
26 diverting gas intended for its “firm” customers. Likewise, when MGE purchases excess gas  
27 from transport customers, that gas will, likely, be resold to “firm” customers. Even when this  
28 scenario is not physically true, the financial impact occurs when the dollars of the transaction  
29 are “flowed through” the PGA pricing mechanism.

1           ***Staff Conclusions and Recommendations on the Proposed Transport Tariff***  
2 ***Changes***

3           The ability of transport customers to buy and sell gas from MGE is far more beneficial  
4 to the transport customer than to MGE or its “firm” customers. Therefore, it is reasonable to  
5 protect the interests of the “firm” customer by requiring transport customers to be responsible  
6 for correcting imbalances. Staff recommends the Commission adopt MGE’s proposed  
7 changes to the “cash-out” tariff provisions to insulate the “firm” customers from the activities  
8 of the transport customers.

9           ***Detailed Discussion of the Proposed Transport Tariff Changes***

10          Provided below is a detailed discussion of Staff’s analysis of the major transportation  
11 tariff changes for over-nominations or under-nominations of gas.

12          While it is inevitable that a transport customer’s daily shipments of gas on MGE’s  
13 system, will not exactly match the transport customer’s actual, daily usage, careful planning  
14 should, under normal circumstances, keep the amount of variance small. Even if  
15 uncontrollable events take place on a specific day that affect the daily imbalance, MGE’s  
16 methodology allows the transport customer to take corrective action in subsequent days. The  
17 only exception is if the negative event occurs at the end of the month. The point is, careful  
18 planning can generally avoid imbalances and, in many cases, the opportunity for correction is  
19 readily available, while continuous, significant variances (either way) are more attributable to  
20 the actions or inactions of the transport customer or its agent.

21          Under normal circumstances, MGE plays little or no role in the amount of variance  
22 between what the transport customer nominates, and what the transport customer actually  
23 uses. Further, MGE lacks the ability to “fix” a transport customer’s imbalance. When over-

1 nominations or under-nominations occur, these errors in estimates are the responsibility of the  
2 transport customer, not MGE.

### 3 ***Reduced Tolerance Levels***

4 It is typical in designing imbalance compensation mechanisms to incorporate a  
5 provision that correlates increasing “penalties” with increasing imbalances (measured as the  
6 difference between the transport customers nominated amounts and actual usage amounts).  
7 MGE and its “firm” customers typically have no control over a transport customer’s  
8 imbalances. The higher a transport customer’s imbalance, the greater the obligation imposed  
9 on MGE and MGE’s “firm” customers to offset the imbalance. Correlating increasing  
10 “penalties” with increasing imbalances is theoretically sound because a system of increasing  
11 penalties acts as a deterrent to high imbalances. It is appropriate to have transport customers  
12 incur a larger percentage of discounts, if MGE is forced to absorb a larger percentage of  
13 excessive (unwanted) gas shipped from a shipper. If MGE is forced to sell a larger percentage  
14 of gas initially purchased for the firm customer, then the transport customer who receives that  
15 diverted gas, should pay higher premiums.

### 16 ***Under -Nomination***

17 In under-nomination situations, the transport customer purchases gas from MGE.  
18 The proposed “Tolerance Levels” set forth in the tariff, are being reduced as follows:

#### 19 (i) (Under-nominated Receipts)

20 If Company’s retainage-adjusted receipts (nomination) for the customer  
21 are less than deliveries (usage) to the customer (Under-nominated), the  
22 customer or the customer’s agent shall pay:

23  
24 1.00 times the index Under-nominated Cash Out Price for each MMbtu  
25 of imbalance up to and including ~~10%~~ 5% of usage nominations, plus

26  
27 1.20 times the index Under-nominated Cash Out Price for each MMbtu  
28 of imbalance which is greater than ~~10%~~ 5%, up to and including ~~15%~~  
29 10% of usage nominations, plus

1  
2 1.40 times the index Under-nominated Cash Out Price for each MMBtu  
3 of imbalance which is greater than ~~15%~~ 10% of usage nominations,  
4 plus  
5

6 The “strike-through” percentage currently represents the tariffed Tolerance Level while the  
7 “blue” percentage represents MGE’s proposed Tolerance Level.

8 ***Over-Nomination***

9 In over nominated situations, the transport customer sells gas to MGE.

10 The proposed “Tolerance Levels” set forth in the tariff, are being reduced as follows:

11  
12 (ii) (Over-nominated receipts)

13  
14 If Company's retainage-adjusted receipts (nomination) for the customer  
15 exceed deliveries (usage) to the customer (Over-nominated), the  
16 customer or the customer’s agent shall receive:

17  
18 1.0 times the index Over-nominated Cash Out Price for each MMBtu  
19 of imbalance up to and including ~~10%~~ 5%, of usage nominations, plus

20  
21 0.8 times the index Over-nominated Cash Out Price for each MMBtu  
22 of imbalance which is greater than ~~10%~~ 5%, of usage nominations, up  
23 to and including ~~15%~~ 10%, plus

24  
25 0.6 times the index Over-nominated Cash Out Price for each MMBtu of  
26 imbalance which is greater than ~~15%~~ 10%, of usage nominations, plus

27  
28 The “strike-through” percentage currently represents the tariffed Tolerance Level  
29 while the “blue” percentage represents MGE’s proposed Tolerance Level.

30 The following tables summarize MGE’s proposal to “shrink the tolerance levels”  
31 (reduce the thresholds for “penalties”) from existing levels as part of this filing:  
32

***Proposed Changes in Over-Nomination***

(In over nominated situations, the transport customer sells gas to MGE.)

| <b>Proposed Tolerance</b> | <b>Current Tolerance</b> | <b>Difference</b> | <b>Percentage of the<br/>Price Index Paid</b> |
|---------------------------|--------------------------|-------------------|---|
| 0% up to 5%               | 0% up to 10%             | 5% less           | 100%  |
| 5% up to 10%              | 10% up to 15%            | 5% less           | 80%   |
| 10% or more               | 15% or more              | 5% less           | 60%   |

***Proposed Changes in Under-Nomination***

In under nominated situations, the transport customer purchases gas from MGE.

| <b>Proposed Tolerance</b> | <b>Current Tolerance</b> | <b>Difference</b> | <b>Percentage of the<br/>Price Index Charged</b> |
|---------------------------|--------------------------|-------------------|--|
| 0% to 5%                  | 0% to 10%                | 5% less           | 100%   |
| Above 5% to 10%           | Above 10% to 15%         | 5% less           | 120%   |
| Above 10%                 | Above 15%                | 5% less           | 140%   |

Staff supports the change in tolerance levels proposed by MGE.

***Changing the Formula of Calculating the Imbalance Percentage***

MGE proposes to change the calculation that determines the imbalances percentage.

MGE's proposed change affects only the denominator of the imbalance percentage formula.

MGE proposes that actual usage replace nominations in the denominator of the formula.

Under the existing tariff, the numerator of the calculation for the imbalance percentage is the

1 difference between nominations and actual usage while, the denominator of the formula is a  
2 customer's actual nominations.

3 The significance of the proposed change is that the formula, once changed, would  
4 measure imbalances relative to actual usage, rather than imbalances relative to nominations.

5 While not in opposition to the proposed change in calculation, Staff notes what MGE  
6 is proposing is unique. Currently AmerenUE, Empire and Atmos utilize nominations as the  
7 denominator in their calculations for cash-out premiums, consistent with MGE's current tariff.  
8 MGE would be the first to use an alternative to the nominated amount of gas as the  
9 denominator in these calculations, when determining the degree of penalty to impose, and  
10 replace the customer's "actual usage" in the denominator when calculating the percentage that  
11 determines the magnitude of penalty.

12 Staff's analysis is that this change has little overall impact on transport customers and  
13 the PGA. MGE claims that from January to May 2009, if the proposed method of calculation  
14 (actual usage replacing nomination in calculating percentage) had been in place, such "a  
15 change would result in MGE billing the transport customer **\$5,655.04 less in cash out fees.**"  
16 (Emphasis added). (See MGE's Response to DR 0183) This supports Staff's contention that  
17 this change has little overall impact.

18 Staff can detect no dramatic impact from allowing MGE to convert to using "actual  
19 usage", from "nominations", in the denominator of the imbalances formula. Staff  
20 recommends MGE be allowed to revise its initially-proposed method of calculation.

### 21 ***Elimination of Transportation Charge for Over Nominations***

22 MGE's justification for stopping the practice of paying transport customers the PGA  
23 transport charge is as follows:

1 MGE has also removed the PGA transportation component when purchasing  
2 monthly cash out supply. MGE has already incurred this cost in the PGA and  
3 does not require this additional cost to purchase incremental supplies for the  
4 commodity customer. These provision changes will reduce the impact of cash  
5 out to MGE commodity customers.

6  
7 (Direct Testimony –Michael R. Noack / Page 25 Lines 15-19)  
8

9 Staff concurs in this position. MGE has sufficient capacity on the pipeline to meet its  
10 needs. If MGE has purchased the capacity to meet its long-term needs, there is no need to  
11 utilize the transport customer's capacity. MGE buys capacity based on its maximum demand  
12 calculation. Very seldom does MGE meet its maximum load. There is no avenue for MGE to  
13 "ratchet down" the capacity to meet short-term volumes being shipped. In short, MGE gains  
14 nothing by the transport customer using its own facilities to deliver the unwanted gas.

15 The current tariff language is as follows:

16 (ii) (Over-nominated receipts)  
17

18 If Company's retainage-adjusted receipts (nomination) for the customer  
19 exceed deliveries (usage) to the customer (Over-nominated), the  
20 customer or the customer's agent shall receive:  
21

22 **The firm transportation charges included in the current PGA rate**  
23 **to bring the gas to the Company's system** (Emphasis Added) (Sheet  
24 No. 61.2)  
25

26 MGE proposes to eliminate the **bold** language and to cease paying transport customers  
27 MGE's PGA transportation charge when the transport customer over nominates gas.

28 Elimination of the existing tariff clause requiring MGE to pay the transport customer  
29 the "firm" transportation charges included in the current PGA rate will likely have a  
30 significant effect. Staff's calculation shows that between July 2007 and May 2008, MGE paid  
31 transport customers (in composite) \*\* \_\_\_\_\_ \*\* in transport charges for over nominations.  
32 The biggest, single transport customer was paid \*\* \_\_\_\_\_ \*\* in transport charges during

1 that time period. This change in tariff language would have reduced the PGA gas costs of the  
2 firm customers by \*\* \_\_\_\_\_ \*\*, assuming this proposed policy had been in place for the  
3 period July 2007 to May 2008. In its response to DR 128, MGE states: “An estimate of the  
4 transportation charges paid for over nominations in 2008 is \*\* \_\_\_\_\_ \*\*”

### 5 ***Establishment of Dual Index Point***

6 Currently, the tariff contains:

7 (b) Index Price: The index price shall be determined as the arithmetic  
8 average of the first-of-the-month index prices published in Inside F.E.R.C.’s  
9 Gas Market Report **for the month immediately following the month in**  
10 **which the imbalance occurred, for (Emphasis Added)**  
11

12 If adopted, the proposed change would use dual index prices – one for over  
13 nominations and a different index price for under nominations.

14 The proposed tariff language is as follows:

15 (i)(a) Under-nominated Cash Out Price

16 The Cash Out Price for an under-nominated imbalance **shall be the**  
17 **higher of the index price for the business month or the index price**  
18 **of the month immediately following the business month (Emphasis**  
19 **Added)**  
20

21 (ii)(a) Over-nominated Cash Out Price

22 The Cash Out Price for an over-nominated imbalance **shall be the**  
23 **lower of the index price for the business month or the index price**  
24 **of the month immediately following the business month (Emphasis**  
25 **Added)**  
26

27 Under the proposed tariff, there are two points of time that could determine the index  
28 price. The price index could be either “index price for the business month or the index price  
29 of the month immediately following the business month.”

30 Staff concurs that this pricing change is reasonable. MGE wants to curtail over  
31 nominations and under nominations to the greatest degree possible and ensure that transport  
32 customers are held accountable for their actions. Another reason for dual pricing is that it

increases the likelihood that MGE and the “firm” customer are not economically harmed by “cash out” transactions. In short, the change helps safeguard the “firm” customer from any detriment.

Since the transport customer has more control over whether and when over nomination and under nominations take place, this dual-point pricing sends the proper message to those in control that they should take corrective action.

### **B. Miscellaneous Charges**

MGE has proposed to change some specific miscellaneous rates, but leave other miscellaneous rates at their present level. Staff will address the following MGE proposed miscellaneous rates:

|   | <b>Current<br/>Rate</b> | <b>MGE's<br/>Proposed<br/>Rate</b> | <b>Underlying<br/>Costs</b> |
|---|-------------------------|------------------------------------|-----------------------------|
| <b>Collection &amp;<br/>disconnection</b> | \$8.00                  | \$20.00                            | <b>\$41.35</b>              |
| <b>Transfer<br/>Charge</b>                | \$6.50                  | \$15.00                            | <b>\$16.47</b>              |
| <b>Reconnection<br/>Charge</b>            | \$45.00                 | \$65.00                            | <b>\$64.30</b>              |
| <b>Connection -<br/>New</b>               | \$45.00                 | N/A                                | <b>\$67.63</b>              |

Staff has concerns that three of the four major miscellaneous rates do not cover their underlying costs. Staff has historically proposed miscellaneous rates on the underlying cost to provide those services. These charges are based on a cost-causation, per-job basis. It is important that these miscellaneous charges reflect MGE’s cost of performing those services so the customer using the service pays for it.

1           Given the way rate of return regulation generally works, if the specific customer pays  
2 a rate less than underlying cost, a cross-subsidy is created and the remaining customers  
3 provide the extra contribution.

4           Not only has Staff had a history of recommending cost-based miscellaneous rates, this  
5 Commission has found merit in this position in past cases. For example, the Commission  
6 stated the following in its February 22, 2007 Report & Order in Case No. GR-2006-0387:

7           *In addition, the Commission finds that it is reasonable to align the chargers*  
8           *with the actual cost to provide the service. (Page 26)*

9           This reference is also in relation to the same type of miscellaneous charges as what  
10 Staff seeks in cost-based rates – “Connections, Reconnections and Transfer Charges” in  
11 MGE’ current rate case.

#### 12           1. The Reconnection Charges

13           Staff recommends a \$65.00 Reconnection Charge, consistent with MGE’s proposal.  
14 The Reconnection Charge is applicable after service has been disconnected – generally for  
15 non-payment. MGE’s cost data supports the requested \$65 rate per-occurrence. The change  
16 in rates will generate \$1,500,501 annually. My proposed Reconnection Charge will increase  
17 these revenues by approximately \$234,334 on an annual basis.

#### 18           2. Collection & Disconnection

19           Staff recommends a \$42.00 Collection & Disconnection Charge, as opposed to MGE’s  
20 proposed \$20.00 charge. MGE’s cost data supports a \$42 Collection & Disconnection Charge  
21 per-occurrence. Staff’s change in rates will generate \$1,713,261 annually. My proposed  
22 Collection or Disconnection Charge will increase these revenues by approximately  
23 \$1,090,327 on an annual basis.

1           3. New Connection & Transfer Charge

2           MGE has a dual charge methodology in place for a customer to initiate service.  
3       Some customers can initiate service via a “Succession” (gas is currently turned-on) for a  
4       proposed \$15.00 “Transfer” Charge. Other customers can initiate service via a “New  
5       Connection” (gas is not turned on) for a proposed \$45.00 “New Connection” Charge. The  
6       customer has no control over the type of initiation they receive. MGE’s prior action  
7       determines the type of service initiation a customer must pay to establish service. Staff  
8       proposes to blend these two charges together to produce one cost-based rate for the five  
9       different types of initiations.

10       Staff is proposing nothing new. Laclede already has a similar Service Initiation Fee.  
11       (See Laclede PSC MO No. 5 – 3<sup>rd</sup> Revised Sheet No 31-a) This was established in Laclede’s  
12       most recent rate case, Case No. GR-2007-0208. The Service Initiation Fee is described as  
13       follows:

14                       *(a) revise service initiation fees to provide for Laclede to charge a*  
15                       *lower (\$25) to all applicable customers, regardless of whether service*  
16                       *initiation required Laclede to visit the premises... (Page 5)*

17       Staff is proposing a \$32.00 per Service Initiation Fee connection for each customer that  
18       establishes service. Staff’s change in rates will generate \$3,691,424 annually. My proposed  
19       Initial Installation Charge will increase these revenues by approximately \$1,334,863 on an  
20       annual basis.

## Summary of Staff's Position concerning Miscellaneous Charges

Staff's proposal concerning miscellaneous charges can be summarized as follows:

|   | <b>Proposed<br/>Rate</b> | <b>Underlying<br/>Costs</b> |
|---|--------------------------|-----------------------------|
| <b>Collection &amp;<br/>disconnection</b> | \$42.00                  | <b>\$41.35</b>              |
| <b>Initial<br/>Connection<br/>Charge*</b> | \$32.00                  | <b>\$31.19</b>              |
| <b>Reconnection<br/>Charge</b>            | \$65.00                  | <b>\$64.30</b>              |

Staff's position is that these costs are essentially a cost of doing business and should be paid by the cost-causer and the party benefitting from these services.

*Staff Expert: Michael J. Ensrud*

## **VII. Capacity Release & Off-system Sales**

An LDC contracts for the capacity it needs to meet its customers' demand on very cold days and, since customers' actual usage sometimes varies significantly from contract demand depending upon the weather, MGE does not need all of its capacity at all times. MGE uses its contracted capacity or space on interstate pipelines to transport gas supply to its distribution system. In order to reserve space, MGE pays capacity reservation fees, which are passed through to its customers via the Purchased Gas Adjustment (PGA) clause.

When MGE does not need all of its transportation capacity, it can "release" (sell) its unneeded capacity to other parties. MGE receives credits on its pipeline bills for the amount of capacity released to other parties. This credit reduces gas costs for its customers. These capacity release transactions are subject to Federal Energy Regulatory Commission (FERC) rules.

1 An off-system sale occurs when MGE sells natural gas to a customer outside of its  
2 service area. The sales of gas may be made at the wellhead or may require MGE to transport  
3 the gas to a different location to be sold. MGE makes a margin or profit from off-system  
4 sales, which is calculated by subtracting the cost of the gas supply, transportation, and fuel,  
5 associated with the sale, from the gross revenues received from the sale. Like capacity  
6 release, the off-system sales profit may also reduce the overall cost of gas to MGE's  
7 customers.

8 MGE's customers pay for all contracted capacity and all natural gas, however, as an  
9 incentive for MGE to work to maximize its capacity release and off-system sales, the  
10 Commission authorized MGE to keep a percentage, or share, of the profits from off-system  
11 sales and capacity release credits. MGE's current sharing percentages are shown below:

12

| Annual Capacity Release Credits<br>and Off-System Sales Margins | MGE Retention<br>Percentage | Firm Sales Customer<br>Percentage |
|---|-----------------------------|-----------------------------------|
| First \$300,000   | 15 %                        | 85 %                              |
| Next \$300,000  | 20 %                        | 80 %                              |
| Next \$300,000  | 25 %                        | 75 %                              |
| Amounts Over \$900,000  | 30 %                        | 70 %                              |

13

14 This means MGE is permitted to keep increasing amounts of profit up to a maximum  
15 of 30% of the off-system sales margins and capacity release credits, with higher sales  
16 resulting in greater profits for the company. Any portion MGE does not retain goes back to  
17 customers via the PGA process.

18 MGE's current sharing grid was approved by the Commission in Case No.GR-2004-  
19 0209. At that time, when the \$300,000 tiers were proposed and granted by the Commission,  
20 MGE was achieving roughly \*\* \_\_\_\_\_ \*\* in annual capacity release credits and very  
21 little, if any, off-system sales margins. Since 2004, there has been a substantial increase, as

1 shown in the chart below. The off-system sales and capacity release levels for the most recent  
2 four Actual Cost Adjustment (ACA) periods are:

3 \*\*

|  |  |  |  |
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5 \*\*

6  
7 Staff reviewed MGE's transportation contracts along with the historical levels of off-  
8 system sales and capacity release and proposes to maintain the sharing percentages but update  
9 the tiers to reflect the more recent level of activity. Staff proposes replacing the current  
10 sharing grid on MGE tariff Sheet No. 24.2 with the following:

| Annual Capacity Release Credits<br>and Off-System Sales Margins | MGE Retention<br>Percentage | Firm Sales Customer<br>Percentage |
|---|-----------------------------|-----------------------------------|
| First \$2,000,000   | 15 %                        | 85 %                              |
| Next \$2,000,000  | 20 %                        | 80 %                              |
| Next \$2,000,000  | 25 %                        | 75 %                              |
| Amounts Over \$6,000,000  | 30 %                        | 70 %                              |

11  
12 *Staff Expert: Anne M. Allee*

**CLASS COST-OF-SERVICE**

**AND**

**RATE DESIGN**

**CREDENTIALS**

## **Thomas A. Solt**

### **Present Position:**

I am an auditor in the Gas Rates and Tariffs Section of the Energy Department, Operations Division of the Missouri Public Service Commission.

### **Educational Background and Work Experience:**

I have a Bachelor of Science degree in Business Administration from the University of Missouri—St. Louis, and a Master's degree in Public Administration from the University of Missouri--Columbia. I am a licensed certified public accountant, hold other professional certifications, and have been employed by the Missouri Public Service Commission since May, 1992, except for approximately four months in late 1997 and early 1998.

**Daniel I. Beck, P.E.**

Supervisor of the Engineering Analysis Section of the Energy Department  
Utility Operations Division

Missouri Public Service Commission  
P.O. Box 360  
Jefferson City, MO 65102

I graduated with a Bachelor of Science Degree in Industrial Engineering from the University of Missouri at Columbia. Upon graduation, I was employed by the Navy Plant Representative Office in St. Louis, Missouri as an Industrial Engineer. I began my employment at the Commission in November, 1987, in the Research and Planning Department of the Utility Division (later renamed the Economic Analysis Department of the Policy and Planning Division) where my duties consisted of weather normalization, load forecasting, integrated resource planning, cost-of-service and rate design. In December, 1997, I was transferred to the Tariffs/Rate Design Section of the Commission's Gas Department where my duties include weather normalization, annualization, tariff review, cost-of-service and rate design. Since June 2001, I have been in the Engineering Analysis Section of the Energy Department, which was created by combining the Gas and Electric Departments. I became the Supervisor of the Engineering Analysis Section, Energy Department, Utility Operations Division in November 2005.

I am a Registered Professional Engineer in the State of Missouri. My registration number is E-26953.

Anne Allee

**Educational and Employment Background**

I am employed as a Regulatory Auditor with the Missouri Public Service Commission. I graduated from the University of Missouri in Columbia with a Bachelor of Science degree in Accounting in 1989. I am currently a licensed Certified Public Accountant in the state of Missouri.

During college and after graduation, I worked for Capital Bank as a Teller, New Accounts Representative, and temporary Branch Manager. I began employment with the Commission in 1990 as a Regulatory Auditor in the Accounting Department (now known as the Auditing Department). My duties included assisting with audits and examinations of the books and records of utility companies operating within the state of Missouri.

In October 1993, I obtained by current position as a Regulatory Auditor in the Procurement Analysis Department. Since that time, my responsibilities include reviewing and analyzing amounts charged by natural gas local distribution companies (LDCs) through the Purchased Gas Adjustment (PGA)/Actual Cost Adjustment (ACA) mechanism. Since my time in the Procurement Analysis Department, I have performed and/or assisted in performing numerous ACA reviews which include a review of LDC's capacity release and off-system sales transactions. Please see the attached table for a list of cases and issues in which I have filed testimony.

**CLASS COST-OF-SERVICE**

**AND**

**RATE DESIGN**

**SCHEDULES**

MISSOURI GAS ENERGY  
CASE NO. GR-2009-0355  
TEST YEAR ENDED DECEMBER 31, 2008, Updated Through 4/30/09

|                                       | TOTAL         | RESIDENTIAL   | SMALL<br>GENERAL<br>SERVICE | LARGE<br>GENERAL<br>SERVICE | LARGE<br>VOLUME |
|---------------------------------------|---------------|---------------|-----------------------------|-----------------------------|-----------------|
| RATE BASE                             | \$599,727,395 | \$429,236,161 | \$109,398,462               | \$7,288,280                 | \$53,804,492    |
| REQUESTED RETURN                      | 7.3220%       | 7.3220%       | 7.3220%                     | 7.3220%                     | 7.3220%         |
| RETURN ON RATE BASE                   | \$43,912,040  | \$31,428,672  | \$8,010,155                 | \$533,648                   | \$3,939,565     |
| O & M EXPENSES                        | \$96,815,889  | \$70,575,003  | \$16,942,874                | \$1,112,363                 | \$8,185,649     |
| DEPRECIATION EXPENSE                  | \$29,276,082  | \$21,861,411  | \$4,949,488                 | \$296,610                   | \$2,168,572     |
| TAXES OTHER THAN INCOME               | \$9,884,438   | \$7,117,710   | \$1,776,840                 | \$117,339                   | \$872,550       |
| INCOME TAXES                          | \$18,508,362  | \$13,246,782  | \$3,376,178                 | \$224,926                   | \$1,660,476     |
| TOTAL EXPENSES                        | \$154,484,771 | \$112,800,906 | \$27,045,380                | \$1,751,237                 | \$12,887,247    |
| TOTAL C-O-S                           | \$198,396,811 | \$144,229,578 | \$35,055,536                | \$2,284,885                 | \$16,826,812    |
| OTHER REVENUES                        | \$4,789,682   | \$4,470,049   | \$319,633                   | \$0                         | \$0             |
| REQUIRED MARGIN REVENUE               | \$193,607,129 | \$139,759,529 | \$34,735,903                | \$2,284,885                 | \$16,826,812    |
| CURRENT MARGIN REVENUES               | \$183,013,018 | \$131,062,756 | \$35,889,208                | \$2,122,170                 | \$13,938,884    |
| ZERO REVENUE INCREASE PLUG            | \$10,594,111  | \$7,647,590   | \$1,900,736                 | \$125,028                   | \$920,757       |
| C-O-S MARGIN REVENUES @ 0%            | \$183,013,018 | \$132,111,939 | \$32,835,167                | \$2,159,857                 | \$15,906,055    |
| REVENUE ABOVE (BELOW) COS             | \$0           | (\$1,049,183) | \$3,054,041                 | (\$37,687)                  | (\$1,967,171)   |
| % INCREASE WITHOUT GAS COSTS          | 0.00%         | 0.80%         | -8.51%                      | 1.78%                       | 14.11%          |
| CLASS' SHARE OF TOTAL MARGIN REVENUES | 100.00%       | 72.19%        | 17.94%                      | 1.18%                       | 8.69%           |
| AVERAGE GAS COSTS                     | \$0           |               |                             |                             |                 |
| % INCREASE WITH GAS COSTS             | 0.00%         | 0.80%         | -8.51%                      | 1.78%                       | 14.11%          |
| CLASS' SHARE OF TOTAL REVENUES        | 100.00%       | 72.19%        | 17.94%                      | 1.18%                       | 8.69%           |

**MISSOURI GAS ENERGY**  
**Case No. GR-2009-0355**  
**REGRESSION ANALYSIS OF BILLING MONTH USAGE**

**DISTRICT:** JOPLIN

**CLASS:** Residential (RSM)

| Billing Month | Customer Numbers | Total Ccf  | Observed (U/D) | Actual (C*HDD/D) | Observed (U/C/D) | Actual (HDD/D) | Predicted (U/C/D) |
|---------------|------------------|------------|----------------|------------------|------------------|----------------|-------------------|
| Jan           | 67,377           | 9,867,606  | 305,564        | 2,035,155        | 4,5351           | 30,2055        | 4,4606            |
| Feb           | 67,632           | 10,105,887 | 328,547        | 2,109,443        | 4,8579           | 31,1900        | 4,5972            |
| Mar           | 67,489           | 7,791,534  | 264,448        | 1,679,845        | 3,9184           | 24,8907        | 3,7236            |
| Apr           | 66,677           | 4,606,998  | 155,803        | 1,000,492        | 2,3367           | 15,0051        | 2,3527            |
| May           | 65,574           | 2,439,285  | 78,299         | 485,650          | 1,1941           | 7,4061         | 1,2989            |
| Jun           | 64,709           | 1,026,836  | 33,596         | 62,836           | 0,5192           | 0,9710         | 0,4065            |
| Jul           | 64,306           | 833,561    | 27,056         | 260              | 0,4207           | 0,0040         | 0,2724            |
| Aug           | 64,159           | 744,479    | 25,005         | 0                | 0,3897           | 0,0000         | 0,2718            |
| Sep           | 64,301           | 880,175    | 27,517         | 36,303           | 0,4279           | 0,5646         | 0,3501            |
| Oct           | 64,814           | 1,164,043  | 39,520         | 246,318          | 0,6098           | 3,8004         | 0,7988            |
| Nov           | 66,195           | 3,690,095  | 124,433        | 960,548          | 1,8798           | 14,5109        | 2,2841            |
| Dec           | 67,248           | 8,565,321  | 266,125        | 1,919,432        | 3,9574           | 28,5426        | 4,2300            |
| Annual        | 65,873           | 51,715,819 |                |                  |                  |                |                   |

**Regression Output:**

|                     |             |
|---------------------|-------------|
| Constant            | 0.2718005   |
| Std Err of Y Est    | 0.212364268 |
| R Squared           | 0.986918801 |
| No. of Observations | 12          |
| Degrees of Freedom  | 10          |
| X Coefficient(s)    | 0.138878    |
| Std Err of Coef.    | 0.005048822 |
| "t" Statistic(s)    | 27.4673610  |

| MONTH  | MAX HDD | Ccf/C/D | CUSTOMERS | Ccf/DAY |
|--------|---------|---------|-----------|---------|
| Jan    | 62.51   | 8.9404  | 67,377    | 602,379 |
| Feb    | 57.51   | 8.2474  | 67,632    | 557,785 |
| Mar    | 43.73   | 6.3359  | 67,489    | 427,601 |
| Apr    | 28.78   | 4.2623  | 66,677    | 284,194 |
| May    | 16.30   | 2.5320  | 65,574    | 166,035 |
| Jun    | 5.55    | 1.0420  | 64,709    | 67,427  |
| Jul    | 0.65    | 0.3613  | 64,306    | 23,234  |
| Aug    | 1.19    | 0.4364  | 64,159    | 28,002  |
| Sep    | 15.58   | 2.4319  | 64,301    | 156,376 |
| Oct    | 26.25   | 3.9122  | 64,814    | 253,562 |
| Nov    | 41.45   | 6.0205  | 66,195    | 398,524 |
| Dec    | 59.70   | 8.5507  | 67,248    | 575,016 |
| WINTER | 62.51   | 8.9404  | 67,419    | 602,755 |

**MISSOURI GAS ENERGY**  
**Case No. GR-2009-0355**  
**REGRESSION ANALYSIS OF BILLING MONTH USAGE**

**DISTRICT:**

**KANSAS CITY**

**CLASS: Residential (RSM)**

| Billing Month | Customer Numbers | Total Ccf   | Observed (U/D) | Actual (C*HDD/D) | Observed (U/C/D) | Actual (HDD/D) | Predicted (U/C/D) |
|---------------|------------------|-------------|----------------|------------------|------------------|----------------|-------------------|
| Jan           | 352,908          | 60,465,801  | 1,858,433      | 12,680,899       | 5,2661           | 35,9326        | 5.2722            |
| Feb           | 354,154          | 63,515,164  | 2,061,156      | 13,531,200       | 5,8199           | 38,2071        | 5.5852            |
| Mar           | 354,687          | 49,435,090  | 1,687,143      | 11,025,656       | 4,7567           | 31,0856        | 4.6051            |
| Apr           | 351,715          | 28,917,373  | 980,060        | 6,426,239        | 2,7865           | 18,2712        | 2.8414            |
| May           | 346,989          | 14,695,101  | 473,899        | 2,929,759        | 1,3657           | 8,4434         | 1.4888            |
| Jun           | 343,184          | 6,722,847   | 220,592        | 416,600          | 0.6428           | 1,2139         | 0.4938            |
| Jul           | 340,294          | 5,565,549   | 180,144        | 0                | 0.5294           | 0.0000         | 0.3267            |
| Aug           | 338,850          | 4,941,745   | 167,540        | 0                | 0.4944           | 0.0000         | 0.3267            |
| Sep           | 339,034          | 5,678,235   | 176,767        | 381,754          | 0.5214           | 1,1260         | 0.4817            |
| Oct           | 341,593          | 6,892,503   | 234,330        | 1,418,665        | 0.6860           | 4,1531         | 0.8983            |
| Nov           | 346,442          | 19,964,109  | 673,512        | 5,014,472        | 1.9441           | 14,4742        | 2.3188            |
| Dec           | 351,094          | 48,999,738  | 1,535,107      | 10,764,697       | 4.3724           | 30,6604        | 4.5466            |
| Annual        | 346,745          | 315,793,255 |                |                  |                  |                |                   |

**Coincident Peak Day Demand Estimate**

| MONTH  | MAX HDD | Ccf/C/D | CUSTOMERS | Ccf/DAY   |
|--------|---------|---------|-----------|-----------|
| Jan    | 65.99   | 9.4089  | 352,908   | 3,320,459 |
| Feb    | 62.57   | 8.9377  | 354,154   | 3,165,312 |
| Mar    | 48.08   | 6.9445  | 354,687   | 2,463,109 |
| Apr    | 31.17   | 4.6160  | 351,715   | 1,623,514 |
| May    | 16.98   | 2.6643  | 346,989   | 924,490   |
| Jun    | 5.66    | 1.1060  | 343,184   | 379,557   |
| Jul    | 0.82    | 0.4402  | 340,294   | 149,800   |
| Aug    | 1.73    | 0.5651  | 338,850   | 191,491   |
| Sep    | 16.83   | 2.6424  | 339,034   | 895,872   |
| Oct    | 28.57   | 4.2594  | 341,593   | 1,454,977 |
| Nov    | 45.86   | 6.6380  | 346,442   | 2,299,686 |
| Dec    | 66.63   | 9.4973  | 351,094   | 3,334,436 |
| WINTER | 66.63   | 9.4973  | 352,719   | 3,349,866 |

**Regression Output:**

|                     |             |
|---------------------|-------------|
| Constant            | 0.32674414  |
| Std Err of Y Est    | 0.201273856 |
| R Squared           | 0.991463127 |
| No. of Observations | 12          |
| Degrees of Freedom  | 10          |
| X Coefficient(s)    | 0.137630    |
| Std Err of Coef.    | 0.004038548 |
| "t" Statistic(s)    | 34.0791597  |

**MISSOURI GAS ENERGY**  
**Case No. GR-2009-0355**  
**REGRESSION ANALYSIS OF BILLING MONTH USAGE**

**DISTRICT:** ST. JOSEPH

**CLASS:** Residential (RSM)

| Billing Month | Customer Numbers | Total Ccf  | Observed (U/D) | Actual (C*HDD/D) | Observed (U/C/D) | Actual (HDD/D) | Predicted (U/C/D) |
|---------------|------------------|------------|----------------|------------------|------------------|----------------|-------------------|
| Jan           | 25,217           | 4,576,082  | 140,699        | 916,371          | 5,5795           | 36,3394        | 5.5698            |
| Feb           | 25,303           | 4,858,579  | 155,847        | 959,109          | 6.1592           | 37,9049        | 5.7955            |
| Mar           | 25,240           | 3,702,835  | 124,858        | 831,072          | 4.9468           | 32,9268        | 5.0778            |
| Apr           | 24,869           | 2,185,678  | 74,605         | 472,144          | 2.9999           | 18,9852        | 3.0676            |
| May           | 24,560           | 1,116,565  | 36,184         | 223,525          | 1.4733           | 9,1012         | 1.6425            |
| Jun           | 24,246           | 478,844    | 15,423         | 36,865           | 0.6361           | 1,5204         | 0.5495            |
| Jul           | 24,090           | 386,694    | 12,973         | 0                | 0.5385           | 0.0000         | 0.3303            |
| Aug           | 23,963           | 353,875    | 11,808         | 0                | 0.4928           | 0.0000         | 0.3303            |
| Sep           | 24,055           | 409,820    | 12,689         | 24,417           | 0.5275           | 1,0151         | 0.4767            |
| Oct           | 24,204           | 490,959    | 16,930         | 90,492           | 0.6995           | 3,7387         | 0.8694            |
| Nov           | 24,544           | 1,478,064  | 49,818         | 327,316          | 2.0297           | 13,3359        | 2.2531            |
| Dec           | 24,945           | 3,597,869  | 112,030        | 740,659          | 4.4911           | 29,6917        | 4.6113            |
| Annual        | 24,603           | 23,635,864 |                |                  |                  |                |                   |

| MONTH  | MAX HDD | Ccf/C/D | CUSTOMERS | Ccf/DAY |
|--------|---------|---------|-----------|---------|
| Jan    | 65.99   | 9.8448  | 25,217    | 248,255 |
| Feb    | 62.57   | 9.3512  | 25,303    | 236,612 |
| Mar    | 48.08   | 7.2631  | 25,240    | 183,320 |
| Apr    | 31.17   | 4.8238  | 24,869    | 119,962 |
| May    | 16.98   | 2.7792  | 24,560    | 68,257  |
| Jun    | 5.66    | 1.1467  | 24,246    | 27,802  |
| Jul    | 0.82    | 0.4492  | 24,090    | 10,821  |
| Aug    | 1.73    | 0.5800  | 23,963    | 13,900  |
| Sep    | 16.83   | 2.7562  | 24,055    | 66,301  |
| Oct    | 28.57   | 4.4502  | 24,204    | 107,712 |
| Nov    | 45.86   | 6.9420  | 24,544    | 170,385 |
| Dec    | 66.63   | 9.9374  | 24,945    | 247,888 |
| WINTER | 66.63   | 9.9374  | 25,155    | 249,975 |

|                     |             |
|---------------------|-------------|
| Constant            | 0.3303207   |
| Std Err of Y Est    | 0.188627014 |
| R Squared           | 0.993262056 |
| No. of Observations | 12          |
| Degrees of Freedom  | 10          |
| X Coefficient(s)    | 0.144182    |
| Std Err of Coef.    | 0.003755283 |
| t-Statistic(s)      | 38.3944304  |

Regression Output:

**MISSOURI GAS ENERGY**  
**Case No. GR-2009-0355**  
**REGRESSION ANALYSIS OF BILLING MONTH USAGE**

**DISTRICT:**

**JOPLIN**

**CLASS: SGSM**

| Billing Month | Customer Numbers | Total Ccf  | Observed (U/D) | Actual (C*HDD/D) | Observed (U/C/D) | Actual (HDD/D) | Predicted (U/C/D) |
|---------------|------------------|------------|----------------|------------------|------------------|----------------|-------------------|
| Jan           | 12,658           | 4,976,646  | 153,941        | 378,684          | 12,1615          | 29,9166        | 11,8176           |
| Feb           | 12,604           | 5,086,966  | 164,760        | 393,235          | 13,0720          | 31,1993        | 12,2612           |
| Mar           | 12,477           | 3,980,577  | 135,361        | 313,743          | 10,8489          | 25,1457        | 10,1676           |
| Apr           | 12,164           | 2,255,010  | 76,766         | 184,540          | 6,3109           | 15,1710        | 6,7179            |
| May           | 11,857           | 1,357,872  | 44,089         | 91,058           | 3,7184           | 7,6797         | 4,1270            |
| Jun           | 11,664           | 774,362    | 25,262         | 10,673           | 2,1658           | 0,9150         | 1,7875            |
| Jul           | 11,501           | 646,545    | 21,356         | 38               | 1,8569           | 0,0033         | 1,4722            |
| Aug           | 11,403           | 645,820    | 21,783         | 0                | 1,9103           | 0,0000         | 1,4710            |
| Sep           | 11,374           | 729,420    | 22,806         | 5,925            | 2,0051           | 0,5210         | 1,6512            |
| Oct           | 11,442           | 799,017    | 27,231         | 43,089           | 2,3799           | 3,7659         | 2,7734            |
| Nov           | 11,827           | 1,765,144  | 59,302         | 188,697          | 5,0141           | 14,2637        | 6,4041            |
| Dec           | 12,223           | 4,144,346  | 128,888        | 348,716          | 10,5447          | 28,5295        | 11,3379           |
| Annual        | 11,933           | 27,161,725 |                |                  |                  |                |                   |

**MISSOURI GAS ENERGY**

**Case No. GR-2009-0355**

**JOPLIN**

**SGSM**

Coincident Peak Day Demand Estimate

| MONTH  | MAX HDD | Ccf/C/D        | CUSTOMERS | Ccf/DAY |
|--------|---------|----------------|-----------|---------|
| Jan    | 62.51   | 23.0896        | 12,658    | 292,269 |
| Feb    | 57.51   | 21.3612        | 12,604    | 269,236 |
| Mar    | 43.73   | 16.5941        | 12,477    | 207,045 |
| Apr    | 28.78   | 11.4228        | 12,164    | 138,947 |
| May    | 16.30   | 7.1078         | 11,857    | 84,277  |
| Jun    | 5.55    | 3.3918         | 11,664    | 39,562  |
| Jul    | 0.65    | 1.6942         | 11,501    | 19,485  |
| Aug    | 1.19    | 1.8816         | 11,403    | 21,456  |
| Sep    | 15.58   | 6.8582         | 11,374    | 78,005  |
| Oct    | 26.25   | 10.5497        | 11,442    | 120,709 |
| Nov    | 41.45   | 15.8075        | 11,827    | 186,956 |
| Dec    | 59.70   | 22.1176        | 12,223    | 270,344 |
| WINTER | 62.51   | <b>23.0896</b> | 12,495    | 288,505 |

Regression Output:

|                     |             |
|---------------------|-------------|
| Constant            | 1.4710279   |
| Std Err of Y Est    | 0.699842822 |
| R Squared           | 0.977332810 |
| No. of Observations | 12          |
| Degrees of Freedom  | 10          |
| X Coefficient(s)    | 0.345847    |
| Std Err of Coef.    | 0.016655664 |
| "t" Statistic(s)    | 20.7645439  |

# MISSOURI GAS ENERGY

Case No. GR-2009-0355

## REGRESSION ANALYSIS OF BILLING MONTH USAGE

**DISTRICT:**

**KANSAS CITY**

**CLASS: SGSM**

| Billing Month | Customer Numbers | Total Ccf   | Observed (U/D) | Actual (C*HDD/D) | Observed (U/C/D) | Actual (HDD/D) | Predicted (U/C/D) |
|---------------|------------------|-------------|----------------|------------------|------------------|----------------|-------------------|
| Jan           | 49,628           | 23,117,740  | 712,023        | 1,806,075        | 14,3472          | 36,3923        | 14,4188           |
| Feb           | 49,643           | 24,118,114  | 788,215        | 1,882,520        | 15,8777          | 37,9212        | 14,9599           |
| Mar           | 49,268           | 18,972,004  | 640,710        | 1,538,170        | 13,0046          | 31,2205        | 12,5883           |
| Apr           | 48,317           | 11,005,372  | 374,487        | 886,281          | 7,7506           | 18,3430        | 8,0304            |
| May           | 47,004           | 6,009,699   | 194,165        | 402,146          | 4,1308           | 8,5556         | 4,5663            |
| Jun           | 45,994           | 3,315,174   | 107,845        | 47,953           | 2,3448           | 1,0426         | 1,9071            |
| Jul           | 45,276           | 2,858,270   | 93,410         | 0                | 2,0631           | 0,0000         | 1,5381            |
| Aug           | 44,703           | 2,661,641   | 89,380         | 0                | 1,9984           | 0,0000         | 1,5381            |
| Sep           | 44,613           | 3,082,572   | 97,198         | 49,730           | 2,1787           | 1,1147         | 1,9327            |
| Oct           | 44,829           | 3,464,946   | 116,767        | 190,677          | 2,6047           | 4,2534         | 3,0436            |
| Nov           | 45,909           | 7,600,458   | 256,282        | 681,944          | 5,5824           | 14,8543        | 6,7956            |
| Dec           | 47,494           | 17,956,013  | 557,269        | 1,443,909        | 11,7335          | 30,4019        | 12,2986           |
| Annual        | 46,890           | 124,162,003 |                |                  |                  |                |                   |

# MISSOURI GAS ENERGY

Case No. GR-2009-0355

**KANSAS CITY**

**SGSM**

| MONTH  | MAX HDD | Ccf/C/D | CUSTOMERS | Ccf/DAY   |
|--------|---------|---------|-----------|-----------|
| Jan    | 65.99   | 24.8943 | 49,628    | 1,235,453 |
| Feb    | 62.57   | 23.6825 | 49,643    | 1,175,673 |
| Mar    | 48.08   | 18.5567 | 49,268    | 914,250   |
| Apr    | 31.17   | 12.5686 | 48,317    | 607,279   |
| May    | 16.98   | 7.5496  | 47,004    | 354,861   |
| Jun    | 5.66    | 3.5421  | 45,994    | 162,914   |
| Jul    | 0.82    | 1.8299  | 45,276    | 82,851    |
| Aug    | 1.73    | 2.1511  | 44,703    | 96,163    |
| Sep    | 16.83   | 7.4933  | 44,613    | 334,298   |
| Oct    | 28.57   | 11.6516 | 44,829    | 522,328   |
| Nov    | 45.86   | 17.7686 | 45,909    | 815,738   |
| Dec    | 66.63   | 25.1217 | 47,494    | 1,193,128 |
| WINTER | 66.63   | 25.1217 | 48,922    | 1,228,993 |

## Regression Output:

|                     |             |
|---------------------|-------------|
| Constant            | 1.5381234   |
| Std Err of Y Est    | 0.633482440 |
| R Squared           | 0.987287022 |
| No. of Observations | 12          |
| Degrees of Freedom  | 10          |
| X Coefficient(s)    | 0.353939    |
| Std Err of Coef.    | 0.012700784 |
| "t" Statistic(s)    | 27.8675034  |

**MISSOURI GAS ENERGY**  
**Case No. GR-2009-0355**  
**REGRESSION ANALYSIS OF BILLING MONTH USAGE**

**DISTRICT:**

**ST. JOSEPH**

**CLASS: SGSM**

| Billing Month | Customer Numbers | Total Ccf  | Observed (U/D) | Actual (C*HDD/D) | Observed (U/C/D) | Actual (HDD/D) | Predicted (U/C/D) |
|---------------|------------------|------------|----------------|------------------|------------------|----------------|-------------------|
| Jan           | 3,551            | 2,048,716  | 63,465         | 130,874          | 17,8724          | 36,8556        | 17,8648           |
| Feb           | 3,550            | 2,171,168  | 69,928         | 135,319          | 19,6979          | 38,1181        | 18,4299           |
| Mar           | 3,547            | 1,575,837  | 53,481         | 108,973          | 15,0778          | 30,7226        | 15,1197           |
| Apr           | 3,454            | 906,383    | 30,782         | 59,612           | 8,9120           | 17,2587        | 9,0933            |
| May           | 3,389            | 445,258    | 14,382         | 25,415           | 4,2436           | 7,4993         | 4,7250            |
| Jun           | 3,390            | 241,387    | 7,951          | 1,703            | 2,3455           | 0,5025         | 1,5933            |
| Jul           | 3,356            | 211,916    | 6,899          | 0                | 2,0556           | 0,0000         | 1,3684            |
| Aug           | 3,327            | 197,667    | 6,556          | 0                | 1,9705           | 0,0000         | 1,3684            |
| Sep           | 3,302            | 222,700    | 6,916          | 3,332            | 2,0945           | 1,0091         | 1,8200            |
| Oct           | 3,310            | 260,282    | 8,975          | 15,175           | 2,7116           | 4,5846         | 3,4204            |
| Nov           | 3,372            | 656,847    | 22,157         | 53,871           | 6,5708           | 15,9759        | 8,5191            |
| Dec           | 3,449            | 1,619,726  | 50,047         | 103,039          | 14,5106          | 29,8750        | 14,7403           |
| Annual        | 3,416            | 10,557,887 |                |                  |                  |                |                   |

**MISSOURI GAS ENERGY**

**Case No. GR-2009-0355**

**ST. JOSEPH SGSM**

Coincident Peak Day Demand Estimate

| MONTH  | MAX   | HDD | Ccf/C/D | CUSTOMERS | Ccf/DAY |
|--------|-------|-----|---------|-----------|---------|
| Jan    | 65.99 |     | 30.9049 | 3,551     | 109,743 |
| Feb    | 62.57 |     | 29.3725 | 3,550     | 104,272 |
| Mar    | 48.08 |     | 22.8903 | 3,547     | 81,192  |
| Apr    | 31.17 |     | 15.3177 | 3,454     | 52,907  |
| May    | 16.98 |     | 8.9706  | 3,389     | 30,401  |
| Jun    | 5.66  |     | 3.9026  | 3,390     | 13,230  |
| Jul    | 0.82  |     | 1.7374  | 3,356     | 5,831   |
| Aug    | 1.73  |     | 2.1436  | 3,327     | 7,132   |
| Sep    | 16.83 |     | 8.8994  | 3,302     | 29,386  |
| Oct    | 28.57 |     | 14.1580 | 3,310     | 46,863  |
| Nov    | 45.86 |     | 21.8937 | 3,372     | 73,825  |
| Dec    | 66.63 |     | 31.1925 | 3,449     | 107,583 |
| WINTER | 66.63 |     | 31.1925 | 3,517     | 109,693 |

**Regression Output:**

|                     |             |
|---------------------|-------------|
| Constant            | 1.36838273  |
| Std Err of Y Est    | 0.877583103 |
| R Squared           | 0.984896735 |
| No. of Observations | 12          |
| Degrees of Freedom  | 10          |
| X Coefficient(s)    | 0.447596    |
| Std Err of Coef.    | 0.017527770 |
| "t" Statistic(s)    | 25.5364154  |

# MISSOURI GAS ENERGY

Case No. GR-2009-0355

## REGRESSION ANALYSIS OF BILLING MONTH USAGE

DISTRICT:

JOPLIN

CLASS: LGSM

| Billing Month | Customer Numbers | Total Ccf | Observed (U/D) | Actual (C'HDD/D) | Observed (U/C/D) | Actual (HDD/D) | Predicted (U/C/D) |
|---------------|------------------|-----------|----------------|------------------|------------------|----------------|-------------------|
| Jan           | 31               | 430,162   | 13,337         | 906              | 430,2365         | 29,2339        | 380,0921          |
| Feb           | 32               | 492,558   | 16,026         | 1,015            | 500,8184         | 31,7138        | 406,1604          |
| Mar           | 30               | 273,736   | 9,306          | 789              | 310,2163         | 26,3031        | 349,2844          |
| Apr           | 32               | 177,751   | 6,094          | 498              | 190,4523         | 15,5493        | 236,2436          |
| May           | 32               | 150,110   | 4,869          | 264              | 152,1475         | 8,2537         | 159,5539          |
| Jun           | 32               | 96,169    | 3,096          | 37               | 96,7591          | 1,1653         | 85,0421           |
| Jul           | 31               | 88,064    | 2,895          | 0                | 93,3775          | 0,0017         | 72,8099           |
| Aug           | 31               | 82,742    | 2,798          | 0                | 90,2627          | 0,0000         | 72,7924           |
| Sep           | 31               | 94,216    | 2,923          | 15               | 94,3059          | 0,4763         | 77,7989           |
| Oct           | 31               | 95,358    | 3,246          | 84               | 104,7153         | 2,7024         | 101,1999          |
| Nov           | 30               | 140,771   | 4,778          | 384              | 159,2784         | 12,7840        | 207,1747          |
| Dec           | 31               | 290,674   | 9,083          | 869              | 293,0096         | 28,0290        | 367,4272          |
| Annual        | 31               | 2,412,311 |                |                  |                  |                |                   |

Regression Output:

|                     |              |
|---------------------|--------------|
| Constant            | 72.792399647 |
| Std Err of Y Est    | 49.127381623 |
| R Squared           | 0.891060333  |
| No. of Observations | 12           |
| Degrees of Freedom  | 10           |
| X Coefficient(s)    | 10.511775    |
| Std Err of Coef.    | 1.162292723  |
| "t" Statistic(s)    | 9.0439996    |

| MONTH  | MAX HDD | Ccf/C/D  | CUSTOMERS | Ccf/DAY |
|--------|---------|----------|-----------|---------|
| Jan    | 62.51   | 729.8744 | 31        | 22,626  |
| Feb    | 57.51   | 677.3392 | 32        | 21,675  |
| Mar    | 43.73   | 532.4486 | 30        | 15,973  |
| Apr    | 28.78   | 375.2687 | 32        | 12,009  |
| May    | 16.30   | 244.1174 | 32        | 7,812   |
| Jun    | 5.55    | 131.1736 | 32        | 4,198   |
| Jul    | 0.65    | 79.5765  | 31        | 2,467   |
| Aug    | 1.19    | 85.2720  | 31        | 2,643   |
| Sep    | 15.58   | 236.5308 | 31        | 7,332   |
| Oct    | 26.25   | 348.7310 | 31        | 10,811  |
| Nov    | 41.45   | 508.5405 | 30        | 15,256  |
| Dec    | 59.70   | 700.3307 | 31        | 21,710  |
| WINTER | 62.51   | 729.8744 | 31        | 22,869  |

# MISSOURI GAS ENERGY

Case No. GR-2009-0355  
REGRESSION ANALYSIS OF BILLING MONTH USAGE

DISTRICT:

KANSAS CITY

CLASS: LGSM

| Billing Month | Customer Numbers | Total Ccf  | Observed (U/D) | Actual (C*HDD/D) | Observed (U/C/D) | Actual (HDD/D) | Predicted (U/C/D) |
|---------------|------------------|------------|----------------|------------------|------------------|----------------|-------------------|
| Jan           | 248              | 2,040,670  | 64,416         | 9,033            | 259,7414         | 36,4220        | 256,3245          |
| Feb           | 246              | 2,030,385  | 66,789         | 9,456            | 271,5011         | 38,4391        | 268,7084          |
| Mar           | 247              | 1,632,798  | 55,222         | 7,576            | 223,5714         | 30,6736        | 221,0338          |
| Apr           | 243              | 1,058,040  | 36,170         | 4,404            | 148,8468         | 18,1217        | 143,9747          |
| May           | 242              | 584,025    | 18,904         | 1,933            | 78,1169          | 7,9883         | 81,7633           |
| Jun           | 244              | 334,868    | 10,868         | 173              | 44,5424          | 0,7077         | 37,0659           |
| Jul           | 244              | 284,063    | 9,386          | 0                | 38,4655          | 0,0000         | 32,7213           |
| Aug           | 245              | 260,726    | 8,722          | 0                | 35,6018          | 0,0000         | 32,7213           |
| Sep           | 245              | 315,924    | 9,805          | 289              | 40,0224          | 1,1785         | 39,9567           |
| Oct           | 243              | 404,363    | 13,763         | 1,266            | 56,6378          | 5,2085         | 64,6976           |
| Nov           | 244              | 857,856    | 28,707         | 3,999            | 117,6531         | 16,3902        | 133,3448          |
| Dec           | 245              | 1,742,352  | 54,662         | 7,693            | 223,1089         | 31,4006        | 225,4973          |
| Annual        | 245              | 11,546,070 |                |                  |                  |                |                   |

| MONTH  | MAX HDD | Ccf/C/D  | CUSTOMERS | Ccf/DAY |
|--------|---------|----------|-----------|---------|
| Jan    | 65.99   | 437.8446 | 248       | 108,585 |
| Feb    | 62.57   | 416.8268 | 246       | 102,539 |
| Mar    | 48.08   | 327.9161 | 247       | 80,995  |
| Apr    | 31.17   | 224.0508 | 243       | 54,444  |
| May    | 16.98   | 136.9930 | 242       | 33,152  |
| Jun    | 5.66    | 67.4808  | 244       | 16,465  |
| Jul    | 0.82    | 37.7825  | 244       | 9,219   |
| Aug    | 1.73    | 43.3545  | 245       | 10,622  |
| Sep    | 16.83   | 136.0163 | 245       | 33,324  |
| Oct    | 28.57   | 208.1438 | 243       | 50,579  |
| Nov    | 45.86   | 314.2465 | 244       | 76,676  |
| Dec    | 66.63   | 441.7889 | 245       | 108,238 |
| WINTER |         |          | 246       | 108,827 |

Regression Output:

|                     |              |
|---------------------|--------------|
| Constant            | 32.721294293 |
| Std Err of Y Est    | 6.906810523  |
| R Squared           | 0.995005301  |
| No. of Observations | 12           |
| Degrees of Freedom  | 10           |
| X Coefficient(s)    | 6.139242     |
| Std Err of Coef.    | 0.137548778  |
| "t" Statistic(s)    | 44.6332001   |

**MISSOURI GAS ENERGY**  
**Case No. GR-2009-0355**  
**REGRESSION ANALYSIS OF BILLING MONTH USAGE**

**DISTRICT:** ST. JOSEPH

**CLASS:** LGSM

| Billing Month | Customer Numbers | Total Ccf | Observed (U/D) | Actual (C*HDD/D) | Observed (U/C/D) | Actual (HDD/D) | Predicted (U/C/D) |
|---------------|------------------|-----------|----------------|------------------|------------------|----------------|-------------------|
| Jan           | 27               | 240,020   | 7,430          | 981              | 275.1835         | 36.3286        | 285.7176          |
| Feb           | 26               | 255,484   | 8,342          | 1,001            | 320.8499         | 38.4972        | 300.9171          |
| Mar           | 27               | 233,036   | 7,737          | 923              | 286.5653         | 34.1916        | 270.7393          |
| Apr           | 27               | 120,509   | 4,106          | 489              | 152.0769         | 18.1164        | 158.0701          |
| May           | 27               | 83,782    | 2,713          | 258              | 100.4773         | 9.5480         | 98.0151           |
| Jun           | 27               | 30,321    | 998            | 50               | 36.9708          | 1.8581         | 44.1172           |
| Jul           | 26               | 36,590    | 1,193          | 0                | 45.8765          | 0.0000         | 31.0940           |
| Aug           | 26               | 31,811    | 1,057          | 0                | 40.6366          | 0.0000         | 31.0940           |
| Sep           | 26               | 37,143    | 1,155          | 37               | 44.4385          | 1.4091         | 40.9703           |
| Oct           | 26               | 40,936    | 1,412          | 95               | 54.2918          | 3.6399         | 56.6058           |
| Nov           | 26               | 75,304    | 2,528          | 318              | 97.2374          | 12.2263        | 116.7871          |
| Dec           | 26               | 178,023   | 5,481          | 743              | 210.8119         | 28.5630        | 231.2888          |
| Annual        | 26               | 1,362,959 |                |                  |                  |                |                   |

| MONTH  | MAX HDD | Ccf/C/D  | CUSTOMERS | Ccf/DAY |
|--------|---------|----------|-----------|---------|
| Jan    | 65.99   | 493.6050 | 27        | 13,327  |
| Feb    | 62.57   | 489.6100 | 26        | 12,210  |
| Mar    | 48.08   | 368.1046 | 27        | 9,939   |
| Apr    | 31.17   | 249.5262 | 27        | 6,737   |
| May    | 16.98   | 150.1363 | 27        | 4,054   |
| Jun    | 5.66    | 70.7773  | 27        | 1,911   |
| Jul    | 0.82    | 36.8722  | 26        | 859     |
| Aug    | 1.73    | 43.2334  | 26        | 1,124   |
| Sep    | 16.83   | 149.0212 | 26        | 3,875   |
| Oct    | 28.57   | 231.3659 | 26        | 6,016   |
| Nov    | 45.86   | 352.4986 | 26        | 9,165   |
| Dec    | 66.63   | 498.1080 | 26        | 12,951  |
| WINTER | 66.63   | 498.1080 | 26        | 13,117  |

**Regression Output:**

|                     |              |
|---------------------|--------------|
| Constant            | 31.093962342 |
| Std Err of Y Est    | 14.072197852 |
| R Squared           | 0.984385338  |
| No. of Observations | 12           |
| Degrees of Freedom  | 10           |
| X Coefficient(s)    | 7.008896     |
| Std Err of Coef.    | 0.279147253  |
| "t" Statistic(s)    | 25.1082405   |

Testimony Issues  
THOMAS A. SOLT

| <u>Company</u>   | <u>Case Number</u>           |
|--|------------------------------|
| St. Joseph Light and Power Company<br>Payroll, Payroll Taxes, Management Incentive Plan, 401(k) Plan, Advertising  | ER-93-41 & GR-93-42          |
| Western Resources, Inc.<br>Plant in Service, Depreciation Reserve, Depreciation Expense, Materials & Supplies, Prepayments, customer advances, customer deposits, property taxes, and property insurance | GR-93-240                    |
| The Empire District Electric Company<br>Tariff Changes   | ER-94-174                    |
| Missouri Gas Energy<br>Recovery Mechanism for FERC Transition Costs  | GR-95-33                     |
| Missouri Gas Energy<br>Tariff Issues (delayed payment rate)  | GR-98-140                    |
| Missouri Universal Service Fund<br>USF Surcharge   | TO-98-329                    |
| Southwestern Bell Telephone Company<br>Local Plus availability, ordering, and tariff approval  | TT-2000-258                  |
| Southwestern Bell Telephone Company<br>Local Plus  | TO-2000-667                  |
| Ozark Telephone Company  | TT-2001-117 &<br>TC-2001-402 |

Rate Design

Relay Missouri Proceeding

TO-2003-0171

Relay Surcharge

Fidelity Telephone Company

IR-2004-0272

Rate Design

Missouri Gas Energy

GR-2006-0422

Class Cost of Service

Union Electric Company d/b/a AmerenUE

GR-2007-0003

Class Cost of Service

Laclede Gas Company

GT-2009-0026

Bad Debts through PGA

KCPL Steam

HR-2009-0092

Revenues

**List of Cases in which prepared testimony was presented by:  
DANIEL I. BECK**

| <b><u>Company Name</u></b>                           | <b><u>Case No.</u></b>    |
|--|---------------------------|
| Union Electric Company                               | EO-87-175                 |
| The Empire District Electric Company                 | EO-91-74                  |
| Missouri Public Service                              | ER-93-37                  |
| St. Joseph Power & Light Company                     | ER-93-41                  |
| The Empire District Electric Company                 | ER-94-174                 |
| Union Electric Company                               | EM-96-149                 |
| Laclede Gas Company                                  | GR-96-193                 |
| Missouri Gas Energy                                  | GR-96-285                 |
| Kansas City Power & Light Company                    | ET-97-113                 |
| Associated Natural Gas Company                       | GR-97-272                 |
| Union Electric Company                               | GR-97-393                 |
| Missouri Gas Energy                                  | GR-98-140                 |
| Missouri Gas Energy                                  | GT-98-237                 |
| Ozark Natural Gas Company, Inc.                      | GA-98-227                 |
| Laclede Gas Company                                  | GR-98-374                 |
| St. Joseph Power & Light Company                     | GR-99-246                 |
| Laclede Gas Company                                  | GR-99-315                 |
| Utilicorp United Inc. & St. Joseph Light & Power Co. | EM-2000-292               |
| Union Electric Company d/b/a AmerenUE                | GR-2000-512               |
| Missouri Gas Energy                                  | GR-2001-292               |
| Laclede Gas Company                                  | GR-2001-629               |
| Union Electric Company d/b/a AmerenUE                | GT-2002-70                |
| Laclede Gas Company                                  | GR-2001-629               |
| Laclede Gas Company                                  | GR-2002-356               |
| Union Electric Company d/b/a AmerenUE                | GR-2003-0517              |
| Missouri Gas Energy                                  | GR-2004-0209              |
| Atmos Energy Corporation                             | GR-2006-0387              |
| Missouri Gas Energy                                  | GR-2006-0422              |
| Union Electric Company d/b/a AmerenUE                | GR-2007-0003              |
| The Empire District Electric Company                 | EO-2007-0029/EE-2007-0030 |
| Laclede Gas Company                                  | GR-2007-0208              |
| The Empire District Electric Company                 | EO-2008-0043              |
| Missouri Gas Utility, Inc.                           | GR-2008-0060              |

|   |              |
|---|--------------|
| The Empire District Electric Company      | ER-2008-0093 |
| Union Electric Company d/b/a AmerenUE     | ER-2008-0318 |
| Kansas City Power & Light Company         | ER-2009-0089 |
| KCP&L Greater Missouri Operations Company | ER-2009-0090 |

**SUMMARY OF TESTIMONY**  
**ANNE M. ALLEE**

| <b>Company Name</b>  | <b>Case Number</b>   | <b>Issues</b>  |
|--|--|--|
| Choctaw Telephone Company                                    | TR-91-336  | Payroll; Payroll Taxes; Employee Pensions/Benefits; Voucher Analysis; Other Misc. Expenses                             |
| Laclede Gas Company  | GR-92-165  | Payroll; Payroll Taxes; Employee Pensions and Benefits   |
| United Cities Gas Company                                    | GR-93-47   | Rate Base; CWC; Dues & Donations; Misc. Expenses   |
| St. Louis County Water Company                               | WR-93-204  | Rate Base; CWC; Dues & Donations; Misc. Expenses   |
| Ozark Natural Gas Company                                    | GA-96-264  | Cost of Gas per Dth; Reliability of Transportation   |
| Missouri Gas Energy Company                                  | GR-96-285  | Natural Gas Storage Inventory Prices   |
| St. Joseph Light and Power Company                           | GR-96-47   | Gas Purchasing Practices   |
| Union Electric Company                                       | GR-97-393  | Natural Gas Storage Inventory Prices   |
| Missouri Public Service                                      | GR-96-192  | Winter Storage Allocation; Overrun Penalties   |
| Missouri Gas Energy  | GR-98-140  | Natural Gas Storage Inventory Prices   |
| Ozark Natural Gas Company                                    | GA-98-227  | Cost of Gas per Dth; Reliability of Supply and Transportation  |
| St. Joseph Light and Power Company                           | GR-99-246  | Natural Gas Inventory Prices   |
| UtiliCorp United Inc. and St. Joseph Light and Power Company | EM-2000-292  | Conditions to be Made Part of Approved Merger  |
| Atmos Energy Corporation and United Cities Gas Company       | GR-2001-396<br>&<br>GR-2001-397<br>(Consolidated)                          | Purchasing Practices – Neelyville; Purchasing Practices-Consolidated District; Deferred Carrying Cost Balance; Propane |
| Missouri Gas Energy  | GR-2001-382,<br>GR-2000-425,<br>GR-99-304 &<br>GR-98-167<br>(Consolidated) | Purchasing Practices; Refunds  |

| <b>Company Name</b>    | <b>Case Number</b> | <b>Issues</b>   |
|------------------------|--------------------|---|
| Union Electric Company | GR-2003-0517       | Gas Inventories   |
| Missouri Gas Energy    | GR-2004-0209       | Gas Inventory, Capacity, Release and Gas Purchasing Practices |
| Missouri Gas Energy    | GR-2006-0422       | Gas Inventory, Uncollectible Expense and ACA documentation    |
| Union Electric Company | GR-2007-0003       | Gas Inventory, ACA documentation                              |