

**EXHIBIT**

**FILED<sup>3</sup>**

**NOV 9 2009**

**Missouri Public  
Service Commission**

Exhibit No.:

Issue(s):

Witness:

Type of Exhibit:

Sponsoring Party:

Case Number:

Date Testimony Prepared:

Cost of Service Rate Design

Barb Meisenheimer

Direct

Public Counsel

GR-2009-0355

September 3, 2009

**DIRECT TESTIMONY**

**OF**

**BARBARA A. MEISENHEIMER**

Submitted on Behalf of  
the Office of the Public Counsel

**MISSOURI GAS ENERGY**

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

September 3, 2009

OPC Exhibit No. 72  
Case No(s). GR-2009-0355  
Date 10-26-09 Rptr KF

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

In the Matter of Missouri Gas Energy's )  
Tariff Sheets Designed to Increase Rates )  
for Gas Service in the Company's )  
Missouri Service Area. )

Case No. GR-2009-0355

**AFFIDAVIT OF BARBARA A. MEISENHEIMER**

**STATE OF MISSOURI** )

) ss

**COUNTY OF COLE** )

Barbara A. Meisenheimer, of lawful age and being first duly sworn, deposes and states:

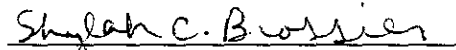
1. My name is Barbara A. Meisenheimer. I am Chief Utility Economist for the Office of the Public Counsel.
2. Attached hereto and made a part hereof for all purposes is my direct testimony.
3. I hereby swear and affirm that my statements contained in the attached testimony are true and correct to the best of my knowledge and belief.

  
**Barbara A. Meisenheimer**

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



**SHYLAH C. BROSSIER**  
My Commission Expires  
June 8, 2013  
Cole County  
Commission #09812742

  
**Shylah C. Brossier**  
Notary Public

My Commission expires June 8<sup>th</sup>, 2013.

**DIRECT TESTIMONY  
OF  
BARBARA A. MEISENHEIMER**

**MISSOURI GAS ENERGY  
(RATE DESIGN)**

**CASE NO. GR-2009-0355**

**Introduction and Summary**

**Q. PLEASE STATE YOUR NAME, TITLE, AND BUSINESS ADDRESS.**

**A.** Barbara A. Meisenheimer, Chief Utility Economist, Office of the Public Counsel (OPC or Public Counsel), P. O. Box 2230, Jefferson City, Missouri 65102. I am also employed as an adjunct Economics and Statistics Instructor for William Woods University.

**Q. HAVE YOU TESTIFIED PREVIOUSLY IN THIS CASE?**

**A.** No.

**Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

**A.** My testimony addresses Public Counsel's opposition to the Missouri Gas Energy's (MGE's or the Company's) existing rate design and offers a proposal to return to the traditional rate design. I will also describe the class cost of service study I prepared for this case and the results of the study.

1       **Q.     PLEASE SUMMARIZE YOUR EDUCATIONAL AND EMPLOYMENT BACKGROUND.**

2       A.     I hold a Bachelor of Science degree in Mathematics from the University of  
3             Missouri-Columbia and have completed the comprehensive exams for a Ph.D. in  
4             Economics from the same institution. My two fields of study are Quantitative  
5             Economics and Industrial Organization. My outside field of study is Statistics.

6                     I have been with the Office of the Public Counsel since January 1996. I  
7             have testified on economic issues and policy issues in the areas of  
8             telecommunications, gas, electric, water and sewer.

9                     Over the past 14 years I have also taught courses for the University of  
10            Missouri-Columbia, William Woods University, and Lincoln University. I  
11            currently teach undergraduate and graduate level economics courses and  
12            undergraduate statistics for William Woods University.

13       **Q.     DO YOU HAVE EXPERIENCE SPECIFIC TO MGE RATE CASES?**

14       A.     Yes. I testified in MGE's two most recent general rate cases; GR-2006-0422 and  
15             GR-2004-0209.

16       **Q.     WHAT INFORMATION HAVE YOU REVIEWED?**

17       A.     I reviewed the Company's proposed tariff sheets, direct testimony and  
18             workpapers on cost of service and rate design, portions of the Company's current  
19             tariff, the Missouri Public Service Commission Staff's (Staff's) workpapers,  
20             accounting schedules and cost of service report, materials from MGE's last  
21             general rate case No. GR-2006-0422, customer complaints and comments filed

1 with the Commission and data request responses provided to the Staff and Public  
2 Counsel by MGE.

3 **Q. PLEASE PROVIDE BACKGROUND ON MGE'S CURRENT RESIDENTIAL RATE DESIGN.**

4 A. Prior to Case No. GR-2006-0422, MGE recovered a portion of non-gas costs in a  
5 fixed customer charge and the remainder of costs through a volumetric rate. This  
6 traditional rate design had been in place for as long as MGE had tariffs on file  
7 with the Commission. Under the traditional rate design consumers had the ability  
8 to control the non-gas portion of their bill by reducing use, low use customers  
9 paid less than high use customers and the Company and customers shared the risk  
10 associated with weather.

11 In Case No. GR-2006-0422 the Commission approved MGE's request for  
12 an alternative rate design that recovers all non-gas costs through a flat fixed  
13 monthly charge called a Straight-Fixed Variable Charge (SFV). Staff and MGE  
14 argued that recovery of all non-gas costs through a flat fixed monthly charge  
15 would "decouple" usage and revenue removing disincentives for MGE to promote  
16 conservation. In exchange for obtaining the SFV rate design MGE committed to  
17 implement a water heater conservation program that was to be funded by  
18 customers. In contrast to the traditional rate design, the SFV rate design requires  
19 customers to pay the same rate regardless of the customer's usage, low use  
20 customers pay as much as high use customers and MGE's weather related risk is  
21 shifted to customers.

22 In this case, Public Counsel encourages the Commission to return to a  
23 traditional residential rate design that recovers a portion of costs through a fixed

1 customer charge and a portion through a volumetric rate similar to the rate design  
2 approved in Case No. GR-2004-0209. In that case, the Commission limited the  
3 collection of 55% of non-gas revenue through a fixed customer charge. The  
4 remaining 45% of costs were recovered through a uniform volumetric rate applied  
5 to all Ccf of consumption. Based on the class cost of service study described later  
6 in this testimony, I believe establishing a customer charge for the Residential  
7 class that recovers 55% of class cost will exceed the cost directly related to  
8 serving an individual customer. To the extent that the customer charge exceeds  
9 the cost directly related to serving an individual customer, the Company is  
10 allowed some protection against revenue volatility due to weather.  
11

12 **Traditional Rate Design Provides a Better Conservation Incentive than SFV**  
13

14 Q. DO YOU BELIEVE THAT A TRADITIONAL RATE DESIGN THAT RECOVERS A  
15 PORTION OF COSTS IN A CUSTOMER CHARGE AND A PORTION IN A VOLUMETRIC  
16 RATE PER UNIT PROVIDES A BETTER INCENTIVE FOR CONSERVATION THAN  
17 RECOVERING ALL COST IN A FIXED FLAT RATE?

18 A. Yes. The traditional rate design provides a better incentive for customer to  
19 conserve than does the SFV rate design because under the traditional rate design  
20 increasing consumption increases the non-gas charges a customer must pay.  
21 Under the SFV rate design a customer using little or no natural gas in a month  
22 pays just as much in non-gas cost recovery as a customer using limitless natural  
23 gas. Setting non-gas rates in a manner that recovers a portion of costs based on  
24 volumes creates a financial incentive for a customer to turn back the thermostat  
25 and to reduce the gas used for cooking and water heating.

1  
2 **Q. WASN'T THE SFV RATE DESIGN INTENDED TO ELIMINATE DISINCENTIVE FOR MGE**  
3 **TO PURSUE EFFICIENCY AND CONSERVATION PROGRAMS THAT WOULD BENEFIT**  
4 **CONSUMERS?**

5 **A.** Yes. However, until recently customers have received limited benefit from the  
6 program. For example, in the two year period April 2007, through March 2009,  
7 the Company spent \$80,575 on water heater and space heating rebates compared  
8 to the \$1,410,000 originally designated over the same period to fund the water  
9 heater rebate portion of the program. In terms of rate payer savings, Mr.  
10 Hendershot states that total water heater savings through December 2008, were  
11 16,154 Ccf per year. At volumetric rates of \$0.15443<sup>1</sup> per Ccf and a PGA rate of  
12 \$0.77358, the total Residential savings from April 2007 through December 2008  
13 is worth approximately \$26,234.<sup>2</sup> In contrast, the Residential class paid  
14 \$18,109,155 more during the same period under the SFV rate design than would  
15 have been paid under traditional rate design. In addition to Residential customers  
16 bearing this substantial increase due to the SFV rate design and losing the ability  
17 to control the non-gas related portion of the bill by controlling their gas usage, the

---

<sup>1</sup> In work papers, Company witness Feingold uses a \$13.64 Residential customer charge and \$0.15443 Residential volumetric rate to compare the SFV rate design approved in GR-2006-0422 to the previously approved rate design increased by the same percentage.

<sup>2</sup> There would also be a public benefit associated with the reduction of CO2 emissions.

\$1.41 million cost of the efficiency program was included in the revenue requirement and recovered in customer rates.

A. Public Counsel witness Ryan Kind proposed changes to the efficiency and conservation funding mechanism in his direct revenue requirement testimony filed in this case.

A. The Company's proposal for residential rates is to continue to collect all non-gas costs through a flat fixed fee approved in GR-2006-422. The Company proposes to increase the fee from \$24.62 to \$29.83. The Company proposes to split the existing Small General Service and Large General Service classes. Customers using less than or equal to 10,000 Ccf annually would be included in a new Small General Service class subject to a flat fixed fee of \$41.20. Customers using greater than 10,000 Ccf annually would be included in a new Large General Service class paying a portion of costs through a customer charge and a portion through volumetric rates;

### Large General Service Rates

### Proposed Rates

Direct Testimony of  
Barbara A. Meisenheimer  
Case No. GR-2009-0355

|                                          |           |                                      |           |
|------------------------------------------|-----------|--------------------------------------|-----------|
| Monthly charge                           | \$108.91  | Monthly charge                       | \$140     |
| Per ccf all gas delivered<br>(April-Oct) | \$0.14498 | Per Ccf <= 1,800 Ccf<br>(All Months) | \$0.11466 |
| Per ccf all gas delivered<br>(Nov-Mar)   | \$0.08892 | Per Ccf > 1,800 Ccf<br>(All Months)  | \$0.07808 |

The Company proposal for the Large Volume class retains a customer and volumetric rates for the winter months but eliminates the volumetric rates for the summer months;

**TABLE 2**

**Large Volume Service Rates**

| <u>Current Rates</u>            |           | <u>Proposed Rates</u>           |             |
|---------------------------------|-----------|---------------------------------|-------------|
| Monthly charge                  | \$860.95  | Monthly charge                  | \$929.57    |
| Per ccf <= 30k Ccf<br>(Nov-Mar) | \$0.05209 | Per ccf <= 30k Ccf<br>(Nov-Mar) | \$0.04361   |
| Per ccf > 30k Ccf<br>(Nov-Mar)  | \$0.04088 | Per ccf > 30k Ccf<br>(Nov-Mar)  | \$0.03261   |
| Per ccf <= 30k Ccf<br>(Apr-Oct) | \$0.03294 | Per ccf <= 30k Ccf<br>(Apr-Oct) | <b>Free</b> |
| Per ccf > 30k Ccf<br>(Apr-Oct)  | \$0.02174 | Per ccf > 30k Ccf<br>(Apr-Oct)  | <b>Free</b> |

**Q. IS MGE'S PROPOSED RATE DESIGN CONSISTENT WITH AN OBJECTIVE TO CONSERVE NATURAL GAS?**

**A.** No, to the contrary, the Company's proposal for non-gas rates provides no conservation incentive for Residential year round, Small General Service year round or Large Volume during the months of April through October. MGE's

1 declining block rate proposal for the Large General Service class would also  
2 discourage conservation.  
3

4 Q. WHAT ARE YOUR CONCLUSIONS REGARDING THE SFV RATE DESIGN COMPARED  
5 TO A TRADITIONAL RATE DESIGN AS A METHOD FOR PROMOTING  
6 CONSERVATION?

7 A. With respect to rate design, the efficiency and conservation programs have not  
8 benefited Residential customers to a level that justifies the SFV rate design.  
9 While touting the SFV as a method to promote conservation, the Company has  
10 proposed a rate design for Large Volume that promotes greater summer use.

11 It would be appropriate to reinstate a traditional rate design that contains  
12 price signals that encourage conservation and that allow residential customers  
13 some control over the non-gas portion of the bill. Similarly, I recommend that the  
14 rate structure for Small General Service should not be changed to a SFV rate  
15 design.

16  
17 **Traditional Rate Design Better Reflects Cost Causation**

18 Q. HOW IS COST CAUSATION INCORPORATED INTO SETTING THE PORTION OF COSTS  
19 TO BE RECOVERED THROUGH THE CUSTOMER CHARGE AND THE PORTION TO  
20 RECOVER THROUGH VOLUMETRIC RATES?

21 A. While an analysis uses judgment in allocating costs and designing rates it is  
22 common in regulated industries for companies to recover costs that are incurred  
23 independent of usage in a fixed fee and to recover costs that vary with usage

1 through a usage based fee. Recovering a usage based cost through a usage based  
2 fee insures that those who did not cause the cost are not required to pay for it.  
3 This objective can be met through establishing a fixed component and a variable  
4 component of rates. The cost of meters that tend to be sized the same for the  
5 majority of Residential customers can be described as being independent of use  
6 and therefore reasonably recovered through a uniform fixed fee. Other facilities  
7 and equipment such as measuring equipment at the entry point to the local  
8 distribution system are associated with the volumetric flow of gas to the system  
9 and are therefore reasonably recovered on a per unit basis through a volumetric  
10 rate.

11 **Q. DOES THE SFV RATE DESIGN MEET THE OBJECTIVE OF DESIGNING RATES BASED**  
12 **ON COST CAUSATION?**

13 **A.** No. The SFV rate design is inappropriate for recovering all non-gas costs because  
14 while the SFV is a fixed fee that recovers all non-gas costs, a portion of costs vary  
15 with use. Even the Company acknowledges that some portion of costs vary with  
16 use. The Company's cost of service studies identify a significant portion of cost  
17 as demand related. As illustrated below, the Company study shows over 20% of  
18 the cost of serving the Residential class is demand related. For SGS the  
19 proportion is even greater with over 34% classified as demand related;  
20  
21  
22

TABLE 3

Residential

| Customer<br>Related | Demand<br>Related | Commodity<br>Related | Total Cost of Service<br>Before Revenue Credits |
|---------------------|-------------------|----------------------|-------------------------------------------------|
| \$132,458,406       | \$34,193,277      | \$91,000             | \$166,742,683                                   |
| 79.44%              | 20.51%            | 0.05%                |                                                 |

Small General Service

| Customer<br>Related | Demand<br>Related | Commodity<br>Related | Total Cost of Service<br>Before Revenue Credits |
|---------------------|-------------------|----------------------|-------------------------------------------------|
| \$25,345,560        | \$13,257,636      | \$37,671             | \$38,640,867                                    |
| 65.59%              | 34.31%            | 0.10%                |                                                 |

MGE's Class Cost of Service witness F. Jay Cummings also describes a demand related component of costs in his direct testimony at page 9, line 21, through page 10, line 4;

...As a gas distribution utility builds its system of mains to reach its customers, its mains must be constructed simply to reach customers regardless of the amount of gas that they use, i.e., the customer-related component of the investment, **while the sizing of the mains depends on the expected usage of the customers during peak periods, i.e., the demand-related component of the investment.** Similarly, a "minimum" size meter, regulator, and service must be installed at each customer's location in order to make service available to the customer, i.e., the pure customer-related cost. The sizing of services, meters, and regulators may vary across customer classes to meet typical class load requirements...

MGE witness Cummings goes on to identify only 38.41% of Mains costs as customer related according to his zero-intercept method.

**Traditional Rate Design Ensures That Those Who Use More Pay More**

Q. DOES USAGE VARY SIGNIFICANTLY WITHIN THE RESIDENTIAL CUSTOMER CLASS?

Direct Testimony of  
Barbara A. Meisenheimer  
Case No. GR-2009-0355

1 A. Yes. While customers within the Residential customer class share some  
2 fundamental characteristics such as meter size and seasonal demand  
3 characteristics, there is a significant difference in the amount of gas consumed by  
4 customers within the Residential class. A study of customer bills for the years  
5 2006, 2007 and 2008 prepared by the Company and provided to Public Counsel in  
6 response to DR #19, indicates that customer use in a given month may range from  
7 "0" use to thousands of Ccfs. Based on information developed for my class cost  
8 of service study, the weather normalized average monthly use for the Residential  
9 Service class is just under 70 Ccf per month.

10 **Q. HAVE YOU PERFORMED AN ANALYSIS TO EVALUATE THE RANGE OF RESIDENTIAL**  
11 **NON-GAS BILL IMPACTS THAT COULD RESULT FROM THE TRADITIONAL AND SFV**  
12 **RATE DESIGN?**

13 A. Yes. A comparison of non-gas recovery under the SFV rate design and  
14 traditional rate structure is shown below;

**TABLE 4**

**Residential Bill Impacts**

| Customer<br>Use (Ccf) | SFV Rate<br>Design | Traditional<br>Rate Design | Difference<br>Per Bill |
|-----------------------|--------------------|----------------------------|------------------------|
| -                     | \$ 24.62           | \$ 13.64                   | \$ (10.98)             |
| 10                    | \$ 24.62           | \$ 15.19                   | \$ (9.43)              |
| 20                    | \$ 24.62           | \$ 16.73                   | \$ (7.89)              |
| 30                    | \$ 24.62           | \$ 18.28                   | \$ (6.34)              |
| 40                    | \$ 24.62           | \$ 19.82                   | \$ (4.80)              |
| 50                    | \$ 24.62           | \$ 21.36                   | \$ (3.26)              |
| Average → 60          | \$ 24.62           | \$ 22.91                   | \$ (1.71)              |
| 70                    | \$ 24.62           | \$ 24.45                   | \$ (0.17)              |
| 80                    | \$ 24.62           | \$ 26.00                   | \$ 1.38                |
| 90                    | \$ 24.62           | \$ 27.54                   | \$ 2.92                |
| 100                   | \$ 24.62           | \$ 29.09                   | \$ 4.47                |
| 200                   | \$ 24.62           | \$ 44.53                   | \$ 19.91               |
| 300                   | \$ 24.62           | \$ 59.97                   | \$ 35.35               |
| 400                   | \$ 24.62           | \$ 75.42                   | \$ 50.80               |
| 500                   | \$ 24.62           | \$ 90.86                   | \$ 66.24               |
| 600                   | \$ 24.62           | \$ 106.30                  | \$ 81.68               |
| 700                   | \$ 24.62           | \$ 121.75                  | \$ 97.13               |
| 800                   | \$ 24.62           | \$ 137.19                  | \$ 112.57              |
| 900                   | \$ 24.62           | \$ 152.63                  | \$ 128.01              |
| 1,000                 | \$ 24.62           | \$ 168.08                  | \$ 143.46              |
| 2,000                 | \$ 24.62           | \$ 322.51                  | \$ 297.89              |
| 3,000                 | \$ 24.62           | \$ 476.94                  | \$ 452.32              |
| 4,000                 | \$ 24.62           | \$ 631.38                  | \$ 606.76              |
| 5,000                 | \$ 24.62           | \$ 785.81                  | \$ 761.19              |
| 6,000                 | \$ 24.62           | \$ 940.24                  | \$ 915.62              |
| 7,000                 | \$ 24.62           | \$ 1,094.67                | \$ 1,070.05            |
| 8,000                 | \$ 24.62           | \$ 1,249.11                | \$ 1,224.49            |
| Traditional Charges   |                    |                            |                        |
|                       | SFV Charge         | Cust Charge                | Vol Charge             |
|                       | \$ 24.62           | \$ 13.64                   | \$ 0.15443             |

**Q. HOW WOULD RETURNING TO A TRADITIONAL RATE DESIGN IMPACT RESIDENTIAL CLASS?**

**A.** Customers with below average to average use would pay less under the traditional rate design. Customers with higher than average use would pay more under a

1           traditional rate design. Through all levels of use, as a customer uses more, they  
2           would pay more.

3           **Q.     DOES USAGE VARY SIGNIFICANTLY WITHIN THE SMALL GENERAL SERVICE**  
4           **CUSTOMER CLASS?**

5           A.    Yes. There is a significant difference in the amount of gas consumed by  
6           customers within the Small General Service class. A study of customer bills for  
7           the years 2006, 2007 and 2008 prepared by the Company and provided to Public  
8           Counsel in response to DR #20, indicates that customer use in a given month may  
9           range from "0" use to over ten thousand Ccfs. Based on information developed  
10          for my class cost of service study, the weather normalized average monthly use  
11          for the Small General Service class is just under 190 Ccf per month.

12          **Q.     HAVE YOU PERFORMED AN ANALYSIS TO EVALUATE THE RANGE OF SMALL**  
13          **GENERAL SERVICE NON-GAS BILL IMPACTS THAT COULD RESULT FROM THE**  
14          **TRADITIONAL AND SFV RATE DESIGN?**

15          A.    Yes. A comparison of non-gas recovery under the SFV rate design and  
16          traditional rate structure is shown below;

**TABLE 5**

**Small General Service Bill Impacts**

| Winter (Nov-Mar)      |                    |                            |                        | Summer (Apr-Oct)      |                    |                            |                        |
|-----------------------|--------------------|----------------------------|------------------------|-----------------------|--------------------|----------------------------|------------------------|
| Customer Use<br>(Ccf) | SFV Rate<br>Design | Traditional Rate<br>Design | Difference<br>Per Bill | Customer Use<br>(Ccf) | SFV Rate<br>Design | Traditional Rate<br>Design | Difference<br>Per Bill |
| -                     | \$ 53.00           | \$ 18.39                   | \$ (34.61)             | -                     | \$ 53.18           | \$ 18.39                   | \$ (34.79)             |
| 10                    | \$ 53.00           | \$ 20.19                   | \$ (32.82)             | 10                    | \$ 53.18           | \$ 19.62                   | \$ (33.56)             |
| 20                    | \$ 53.00           | \$ 21.98                   | \$ (31.02)             | 20                    | \$ 53.18           | \$ 20.85                   | \$ (32.33)             |
| 30                    | \$ 53.18           | \$ 23.78                   | \$ (29.41)             | 30                    | \$ 53.18           | \$ 22.08                   | \$ (31.10)             |
| 40                    | \$ 53.18           | \$ 25.57                   | \$ (27.61)             | 40                    | \$ 53.18           | \$ 23.31                   | \$ (29.87)             |
| 50                    | \$ 53.18           | \$ 27.37                   | \$ (25.82)             | 50                    | \$ 53.18           | \$ 24.54                   | \$ (28.64)             |
| 60                    | \$ 53.18           | \$ 29.16                   | \$ (24.02)             | 60                    | \$ 53.18           | \$ 25.77                   | \$ (27.41)             |
| 70                    | \$ 53.18           | \$ 30.96                   | \$ (22.23)             | 70                    | \$ 53.18           | \$ 27.00                   | \$ (26.18)             |
| 80                    | \$ 53.18           | \$ 32.75                   | \$ (20.43)             | 80                    | \$ 53.18           | \$ 28.23                   | \$ (24.95)             |
| 90                    | \$ 53.18           | \$ 34.55                   | \$ (18.64)             | 90                    | \$ 53.18           | \$ 29.46                   | \$ (23.72)             |
| 100                   | \$ 53.18           | \$ 36.34                   | \$ (16.84)             | 100                   | \$ 53.18           | \$ 30.69                   | \$ (22.49)             |
| 200                   | \$ 53.18           | \$ 54.29                   | \$ 1.11                | 200                   | \$ 53.18           | \$ 42.98                   | \$ (10.20)             |
| 300                   | \$ 53.18           | \$ 72.24                   | \$ 19.06               | 300                   | \$ 53.18           | \$ 55.28                   | \$ 2.10                |
| 400                   | \$ 53.18           | \$ 90.19                   | \$ 37.01               | 400                   | \$ 53.18           | \$ 67.58                   | \$ 14.40               |
| 500                   | \$ 53.18           | \$ 108.14                  | \$ 54.96               | 500                   | \$ 53.18           | \$ 79.88                   | \$ 26.69               |
| 600                   | \$ 53.18           | \$ 126.09                  | \$ 72.91               | 600                   | \$ 53.18           | \$ 92.17                   | \$ 38.99               |
| 700                   | \$ 53.18           | \$ 142.84                  | \$ 89.66               | 700                   | \$ 53.18           | \$ 103.28                  | \$ 50.09               |
| 800                   | \$ 53.18           | \$ 159.59                  | \$ 106.41              | 800                   | \$ 53.18           | \$ 114.38                  | \$ 61.20               |
| 900                   | \$ 53.18           | \$ 176.35                  | \$ 123.16              | 900                   | \$ 53.18           | \$ 125.48                  | \$ 72.30               |
| 1,000                 | \$ 53.18           | \$ 193.10                  | \$ 139.92              | 1,000                 | \$ 53.18           | \$ 136.58                  | \$ 83.40               |
| 2,000                 | \$ 53.18           | \$ 360.62                  | \$ 307.44              | 2,000                 | \$ 53.18           | \$ 247.61                  | \$ 194.43              |
| 3,000                 | \$ 53.18           | \$ 528.14                  | \$ 474.96              | 3,000                 | \$ 53.18           | \$ 358.64                  | \$ 305.46              |
| 4,000                 | \$ 53.18           | \$ 695.66                  | \$ 642.48              | 4,000                 | \$ 53.18           | \$ 469.67                  | \$ 416.49              |
| 5,000                 | \$ 53.18           | \$ 863.18                  | \$ 810.00              | 5,000                 | \$ 53.18           | \$ 580.70                  | \$ 527.52              |
| 6,000                 | \$ 53.18           | \$ 1,030.70                | \$ 977.52              | 6,000                 | \$ 53.18           | \$ 691.73                  | \$ 638.55              |
| 7,000                 | \$ 53.18           | \$ 1,198.22                | \$ 1,145.04            | 7,000                 | \$ 53.18           | \$ 802.76                  | \$ 749.58              |
| 8,000                 | \$ 53.18           | \$ 1,365.74                | \$ 1,312.56            | 8,000                 | \$ 53.18           | \$ 913.79                  | \$ 860.61              |
| 9,000                 | \$ 53.18           | \$ 1,533.26                | \$ 1,480.08            | 9,000                 | \$ 53.18           | \$ 1,024.82                | \$ 971.64              |
| 10,000                | \$ 53.18           | \$ 1,700.78                | \$ 1,647.60            | 10,000                | \$ 53.18           | \$ 1,135.85                | \$ 1,082.67            |
| SFV Charge            |                    |                            |                        | SFV Charge            |                    |                            |                        |
| \$ 53.18              |                    |                            |                        | \$ 53.18              |                    |                            |                        |
| Traditional Charges   |                    |                            |                        | Traditional Charges   |                    |                            |                        |
| Cust Charge           |                    |                            |                        | Cust Charge           |                    |                            |                        |
| \$ 18.39              |                    |                            |                        | \$ 18.39              |                    |                            |                        |
| Vol Charge            |                    |                            |                        | Vol Charge            |                    |                            |                        |
| First 600             |                    |                            |                        | First 600             |                    |                            |                        |
| \$ 0.17950            |                    |                            |                        | \$ 0.12297            |                    |                            |                        |
| Additional            |                    |                            |                        | Additional            |                    |                            |                        |
| \$ 0.16752            |                    |                            |                        | \$ 0.11103            |                    |                            |                        |

**Q. HOW WOULD RETURNING TO A TRADITIONAL RATE DESIGN IMPACT THE SMALL GENERAL SERVICE CLASS?**

**A.** As was also true for the Residential class, Small General Service customers with below average to average use would pay less under the traditional rate design. Customers with higher than average use would pay more under a traditional rate design. Through all levels of use, as a Small General Service customer uses more, they would pay more.

1       **Q.     HAS THE STAFF PREVIOUSLY REJECTED PROPOSALS TO RECOVER ALL NON-GAS**  
2       **COSTS THROUGH A FIXED CHARGE DUE TO CONCERNS REGARDING THE**  
3       **POTENTIAL DETRIMENT TO LOW USE CUSTOMERS?**

4       A.    Yes. The detrimental impact on low use customers of full non-gas recovery  
5       through a fixed flat rate was foreseen by Staff witness Dr. Michael Proctor in his  
6       Surrebuttal Testimony in Laclede Gas Case No. GR-2002-356. In testimony  
7       responding to Laclede's proposed weather mitigation rate design proposal, Dr.  
8       Proctor explained: "While the Staff favors using rate design as a weather  
9       mitigation measure, because of the detrimental impact on small users, the Staff  
10      **was not willing to recommend recovering all of the non-gas costs in either the**  
11      **customer charge, first block rate or a combination of these rate components...."**  
12      The SFV has exactly the effect that Dr. Proctor rejected because it is designed to  
13      collect all non-gas costs through a monthly customer charge.

14      **Traditional Rate Design Is Consistent With The Purpose Of Regulation**

15      **Q.     IS THE TRADITIONAL RATE DESIGN THAT CORRELATES HIGHER USE WITH**  
16      **HIGHER CHARGES CONSISTENT WITH THE PURPOSE OF REGULATION?**

17      A.    Yes. Utility regulation is intended to mimic the outcomes and market  
18      environment that is faced by competitive firms. The use of utility regulation to  
19      simulate a competitive environment and encourage the benefits that would accrue  
20      if the industry were suitable for a competitive structure has been referred to as the  
21      competitive market paradigm. This paradigm was described by Dr. James  
22      Bonbright on page 93 of *Principles of Public Utility Rates* in the following  
23      manner:

1 Regulation, it is said, is a substitute for competition. Hence  
2 its objective should be to compel a regulated enterprise, despite its  
3 possession of complete or partial monopoly, to charge rates  
4 approximating those which it would charge if free from regulation  
5 but subject to market forces of competition. In short, regulation  
6 should be not only a substitute for competition, but a closely  
7 imitative substitute.

8 **Q. IS THE TRADITIONAL RATE DESIGN THAT CORRELATES HIGHER USE WITH**  
9 **HIGHER CHARGES CONSISTENT WITH PRICING IN COMPETITIVE SERVICE**  
10 **MARKETS?**

11 **A.** Absolutely. In highly competitive markets it is common for firms to recover all  
12 cost through only usage based fees. Even in more concentrated markets rate  
13 structures that recover some portion of costs through volumetric charges are the  
14 norm. For example, telephone rates typically include a fixed minimum fee  
15 charged for basic access to the telephone network and additional usage based  
16 incremental fees that recover a portion of the investment and associated expenses.  
17 If customers demand either more services "over the pipe" or "a larger pipe" the  
18 customer pays more.

19 It is also the norm in competitive markets for customers to have some  
20 control over the charges they pay to the service provider. This not the case with  
21 the SFV rate design. From a rate design perspective, recovery of all costs through  
22 a flat fixed rate is a recovery method of choice for firms with sufficient market  
23 power to impose flat fees or enough regulatory support to impose them. Rate  
24 designs that consist of a customer charge and volumetric charge are supportable  
25 based on recognizing that the value of service is both in having access to gas as  
26 well as in using gas so cost would not be uniformly allocated to customers. In  
27 my opinion, recovery through a customer charge and volumetric rate is reasonable

1 and fair from both an economic and policy perspective. Historically, this  
2 Commission has determined that it is appropriate for those who use more to pay  
3 more. Public Counsel encourages the Commission to reinstate this policy.

4 **Q. IS THE TRADITIONAL RATE DESIGN CONSISTENT WITH MIMICKING THE RATE OF**  
5 **RETURN OPPORTUNITIES AND RISK THAT EXIST IN COMPETITIVE MARKETS?**

6 A. Yes. The Commission's ordered non-gas revenue requirement is not a fixed or  
7 guaranteed level of revenue that a Company is entitled to recovery each year.  
8 Instead, the level of revenue requirement approved by the Commission is a target  
9 level of costs including expenses, taxes and return on investment that an  
10 efficiently run company, barring unforeseen events has the opportunity to recover  
11 under long term average weather conditions. The Commission approved revenue  
12 requirement accounts for and is intricately related to potential weather variations  
13 that may affect costs and revenues from year to year. The process of normalizing  
14 demand determinates to account for weather and establishing a rate of return  
15 sufficient to attract investment despite the risk of weather variations are probably  
16 the two most obvious elements linking weather variations to revenue requirement.  
17 After the revenue requirement is determined, rates are set at a level anticipated to  
18 recover the target level of costs. However, the ratemaking process only reflects  
19 the anticipated cost and revenues at a snap shot in time. It does not guarantee or  
20 limit levels of either future costs or revenues and is not designed or intended to  
21 provide uniform recovery each year. Once rates are set, by improved efficiency or  
22 circumstances a Company has an opportunity to earn a return above that  
23 incorporated in the revenue requirement. Likewise, by inefficiency a Company  
24 faces the potential to earn a return below that incorporated in the revenue

1 requirement. This process mimics a competitive business environment by creating  
2 incentives for the Company to minimize costs.

3 Utility regulation does not create an "entitlement" for the utility to earn a  
4 Commission determined return that fully compensates the utility for its cost of  
5 service. If that were the case, there would be no reason to determine an  
6 appropriate level of a risk adjusted return that should be included in a utility's  
7 rates. Instead, utility regulation is intended to mimic the outcomes and market  
8 environment that is faced by competitive firms. While viewed by investors as  
9 undesirable, earnings uncertainty serves an important role in the efficient  
10 operation of competitive markets by providing inherent protections for  
11 consumers. Earnings uncertainty motivates competitive business entities to  
12 minimize costs and to strive for customer satisfaction. Eliminating earnings  
13 uncertainty in a regulated environment would have a similar detrimental affect on  
14 consumers as would eliminating earnings uncertainty in an unregulated market.  
15 However, in a competitive environment, consumers retain the ability to reduce or  
16 forgo purchases in response to excessive prices or poor service.

17 In recognition and in consideration of the service it provides as a natural  
18 monopoly, a local gas distribution company is granted an additional concession  
19 not ordinarily available in a competitive business environment. It is allowed to  
20 request a rate review to, when justified, realign revenue to costs. This concession  
21 together with other concessions made by the PSC and other governmental entities  
22 more than adequately addresses issues of potential under earnings. For example,  
23 direct pass through of costs such as those flowed through the PGA, have  
24 substantially shifted weather related risks to consumers. It is undesirable and  
25 unnecessary to shift all earnings risk to consumers.

1 Q. CAN YOU CITE ANY ANALYSIS BY A RECOGNIZED UTILITY INDUSTRY EXPERT  
2 THAT SUPPORTS YOUR BELIEF THAT UTILITY COMMISSIONS GENERALLY SET  
3 RATES AT A LEVEL WHICH ALLOWS UTILITIES THE OPPORTUNITY (AS OPPOSED  
4 TO A GUARANTEE) TO ATTAIN THEIR AUTHORIZED RETURN?

5 A. Yes, the following quote from page 202 of A. J. G. Priest's *Principles of Public*  
6 *Utility Regulation* supports this widely recognized regulatory principle:

7 ...the utility's return allowance might be compared with fishing  
8 or hunting license with a limit on the catch. Such a license does  
9 not guarantee that the holder will catch anything at all; it simply  
10 makes the catch legal (up to a specified limit) provided the holder  
11 is successful in his own efforts.

12 *Class Cost of Service Study Method*

13 Q. WHAT IS THE REGULATORY PURPOSE OF A CLASS COST OF SERVICE STUDY?

14 A. A class cost of service study is a tool used by regulators to aid in determining an  
15 appropriate rate structure. It can be used as a guide in identifying, on a cost  
16 causative basis, the cost of serving a particular group of customers. A class cost  
17 of service Study can also be used to evaluate the relative cost of service among  
18 classes. This comparison of relative cost is the focus of Public Counsel's study  
19 and is reflected in the study assumption that the Company's revenue requirement  
20 is equal to the level of current revenue.

1       **Q.     WHAT IS THE RELATIVE IMPORTANCE OF CLASS COST OF SERVICE STUDY**  
2       **RESULTS IN RATE DESIGN?**

3       A.     A class cost of service study provides the Commission with a general guide for a  
4       service based on costs to determine just and reasonable rates. The Commission  
5       must on a case by case basis balance the results of a cost of service study with  
6       other relevant factors that go into the rate making decision process. Other  
7       relevant factors include the value of a service, the affordability of service, rate  
8       impacts, and rate continuity, to highlight a few.

9       **Q.     WHAT COSTS ARE REFLECTED IN YOUR CLASS COST OF SERVICE STUDY?**

10      A.     The class cost of service study includes only non-gas or margin costs associated  
11      with transporting and delivering gas from MGE's city-gate to its customers. Gas  
12      costs recovered through the purchased gas adjustment rate are determined in a  
13      separate proceeding and are not at issue in this case.

14      **Q.     WHAT ARE THE REPRESENTATIVE CLASSES INCLUDED IN PUBLIC COUNSEL'S**  
15      **CLASS COST OF SERVICE STUDY?**

16      A.     For class cost of service study purposes, customers are grouped into "classes"  
17      based on type of customer and utilization patterns. Public Counsel's class cost of  
18      service study reflects four distinct classes of customers: Residential, Small  
19      General Services, Large General Services and Large Volume.

1       **Q.       ON WHAT DATA IS YOUR CLASS COST OF SERVICE STUDY BASED?**

2       A.       The data is associated with a test year ending December, 31, 2008, updated  
3               through April 30, 2009. The Accounting Schedules filed with the Staff's direct  
4               revenue requirement testimony were the source of most of the revenue and cost  
5               data that I utilized in preparing my study. I did adjust Staff's residential revenues  
6               and billing units to reflect the revenue and usage that would be expected under  
7               normal weather if the Straight Fixed Variable rate design were not in place. I  
8               used Staff and Company data on customer counts and usage patterns to develop  
9               allocation factors for assigning revenues and costs to customer classes. Except  
10              where specified, my use of Staff and Company information should not be viewed  
11              as an endorsement of either Staff's or the Company's methods for calculating  
12              accounting costs, billing determinants, peak demands or allocation factors.

13       **Q.       IS THERE IS POSSIBILITY THAT SOME INFORMATION USED IN YOUR STUDY WILL**  
14       **BE UPDATED AND REVISED AS THIS CASE PROGRESSES?**

15       A.       Yes. It is common for the Staff and Company to update or reconcile information  
16               as case progresses. I will update my studies accordingly.

17       **Q.       PLEASE DESCRIBE THE ASSIGNMENT OF COST TO THE CUSTOMER CLASSES.**

18       A.       The assignment of costs to customer classes involves a three-step process in  
19               which costs are first functionalized, then classified, and finally allocated to  
20               customer classes based on factors that reflect cost causation.

1       **Q.       PLEASE DESCRIBE THE FUNCTIONALIZATION OF COSTS.**

2       A.       Functionalization involves categorizing cost accounts by associated function.  
3               Functional categories include; Production, Storage, Transmission, Distribution,  
4               Customer Accounts and Administrative and General (A&G).

5       **Q.       PLEASE DESCRIBE THE CLASSIFICATION OF COSTS.**

6       A.       Classification is achieved by further categorizing costs into customer related,  
7               commodity related, demand related or "other related" costs. Some costs are  
8               categorized as having multiple cost components.

9       **Q.       PLEASE DESCRIBE CUSTOMER RELATED COSTS.**

10      A.       Customer related costs vary directly (in fixed proportion) with the number of  
11              customers served. Examples of customer related costs include: expenses  
12              associated with metering, reading, billing, and the costs associated with metering  
13              equipment and service connections.

14      **Q.       PLEASE DESCRIBE COMMODITY RELATED COSTS.**

15      A.       Commodity related costs vary with the quantity of gas purchased. While  
16              Missouri's local distribution companies recover purchased gas cost through the  
17              PGA, other plant accounts may still be categorized as commodity related.

18      **Q.       PLEASE DESCRIBE DEMAND RELATED COSTS.**

19      A.       Demand related costs vary with the capacity requirement of plant or equipment.  
20              They are related to the maximum system requirements that reflect the capacity

1           necessary to serve demand during peak periods. Demand related costs include:  
2           production, transmission and storage costs and expenses associated with these  
3           types of plant. In addition, some distribution plant and related expenses are  
4           demand related costs.

5           **Q.       PLEASE DESCRIBE THE ALLOCATION PROCESS.**

6           A.       Following functionalization and classification, allocation factors are applied to  
7           distribute a reasonable share of jurisdictional costs to each customer class. Some  
8           costs are uniquely attributable to, and therefore directly assignable to a particular  
9           customer class. For costs that are jointly attributable, in measurable proportions,  
10          to a group of customer classes, the costs are assigned to each customer class based  
11          on factors that reflect each class's share of joint use. Finally, cost accounts  
12          associated with common facilities or common overheads that can not be directly  
13          or jointly assigned are allocated to classes based on general factors. Typical  
14          allocation factors include measures of usage, sales, or weighted measures of  
15          customer counts.

1       **Q.     WHAT TYPES OF PLANT COST ARE ALLOCATED IN A CLASS COST OF SERVICE**  
2       **STUDY?**

3       A.     Common types of plant allocated in a class cost of service study include  
4             intangible plant, production plant, storage plant, transmission plant, distribution  
5             plant and general plant.

6       **Q.     HOW ARE INTANGIBLE PLANT ACCOUNTS ALLOCATED?**

7       A.     Intangible plant accounts include expenses related to organizing the enterprise,  
8             obtaining franchise and consent and other miscellaneous items. (Accounts 301,  
9             302, and 303) These costs are not directly or jointly attributable to particular  
10            customer classes, instead they are common costs allocated on the basis of the  
11            portion of overall cost of service assigned to each customer class.

12       **Q.     ARE ANY GAS STORAGE, PRODUCTION OR TRANSMISSION PLANT ACCOUNTS**  
13       **ALLOCATED IN YOUR STUDY?**

14       A.     No. MGE reports no jurisdictional investment in gas storage, production or  
15             transmission plant.

16       **Q.     HOW ARE DISTRIBUTION PLANT ACCOUNTS ALLOCATED?**

17       A.     Mains transport gas throughout the Company's service area and are represent a  
18             significant portion of distribution plant. The system of mains serves three  
19             primary purposes. It is designed to reach customers throughout the service area,  
20             to provide gas year round and to satisfy periods of peak demand. Therefore, I  
21             developed an allocator for Mains (Account 376) that reflects these three purposes.

1           The first component of my mains allocator is related to reaching customers  
2           throughout the service area. Although I do not recognize any portion of mains  
3           costs as directly related to the number of customers, I do recognize that indirectly  
4           the number of customers and the dispersion of customers affect the cost of mains.  
5           To reflect the indirect affect of customers on mains costs, I have use one of the  
6           Company's allocation methods for developing a "customer related" component for  
7           allocating mains. The Company's method uses regression analysis to determine  
8           the portion of mains cost on an integrated system that would be incurred even if  
9           "0" gas were provided. This method identifies 38.41% of mains costs as  
10          "customer related" so I allocated 38.413% of Mains (Account 376) on the basis of  
11          weighted customers. The remaining 61.9% of the Mains allocation is divided  
12          between a commodity related component based on average use and a demand  
13          related component based on peak day demand that occurs in excess of average  
14          daily demand.

15                The commodity related component of my mains allocator is related to the  
16                use of mains to deliver gas throughout the year. I allocated 17.96% of Mains  
17                (Account 376) based on each customer class's share of annual sales volumes  
18                measured in Ccf.

19                The demand related component of my mains allocator (the remaining  
20                43.63%) is related to the use of mains to deliver gas during periods of peak use. I  
21                allocated this portion of Mains (Account 376) based on each customer class's  
22                share of peak day demand in excess of average daily demand measured in Ccf.

23                Land and Land Rights, Structures and Improvements (Accounts 374 and  
24                375) are closely related to the system of distribution mains. I allocated these costs  
25                on the same basis as Mains (Account 376).

Measuring and Regulating Station Equipment (Accounts 378 and 379) are related to the year round flow of gas and are therefore classified as commodity related. I allocated these costs based on each customer class's share of annual sales volumes measured in Ccf.

Accounts 380 through 385 include cost directly related to serving customer premises. For example, services connect the customer premise to distribution mains. Similarly, meters and regulators at the customer premise measure and regulate gas flow at the premise. While these types of cost may differ by customer class, for example the cost of a typical meter associated with residential use is less expensive than the typical meter used to serve a large industrial customer, within each class; the costs tend to vary directly with the number of customers served. Based on this direct relationship between the number of customer served and costs, I classified these costs as customer related and developed allocation factors based on customer numbers weighted to reflect cost differences between customer classes. The the type of allocation for each account is shown below;

TABLE 6

| <u>Account</u> | <u>Description</u>                         | <u>Allocation based on</u>          |
|----------------|--------------------------------------------|-------------------------------------|
| 380            | Services                                   | Weighted services                   |
| 381            | Meters                                     | Weighted meters                     |
| 382            | Meter Installations                        | Weighted meter installation         |
| 383            | House Regulators                           | Weighted regulators                 |
| 384            | Electronic Gas Meters                      | Large Volume customers              |
| 385            | Meas. and Reg. Station Equip. - Industrial | Commercial and Industrial Customers |



Customer Deposits

Bills

Deferred Income Taxes

Rate Base

1 Q. PLEASE DESCRIBE HOW OPERATION AND MAINTENANCE EXPENSES ARE  
2 ALLOCATED IN YOUR CLASS COST OF SERVICE STUDY?

3 A. For allocating most of the accounts in this category, I used the "expenses follow  
4 plant principle". For example, the operations and maintenance expenses related  
5 to mains and services are allocated to customer classes on the same basis as the  
6 mains and services plant accounts. Similarly, operations and maintenance  
7 expenses related to non-customer specific measuring and regulating station  
8 equipment are allocated on the basis of annual Ccf as was the plant account  
9 related to measuring and regulating station equipment. For cost accounts not  
10 directly associated with a corresponding plant account, I selected an allocator that  
11 seemed most clearly related to cost causation. The types of operation or  
12 maintenance expense and allocation factor used in my study are listed below;

13 **TABLE 8**

**Operations**

| <b><u>Account</u></b> | <b><u>Description</u></b>        | <b><u>Allocation based on</u></b> |
|-----------------------|----------------------------------|-----------------------------------|
| 870                   | Supervision & Engineering        | Net Distribution Plant            |
| 871                   | Load Dispatch                    | Annual Ccf                        |
| 874                   | Mains and services               | Net Mains/Services Plant          |
| 875                   | Measuring & Regulating Stations  | Annual Ccf                        |
| 876                   | Measuring & Reg. Commercial      | Large Ind. Bills                  |
| 877                   | Measuring & Regulating City Gate | Annual Ccf                        |

Direct Testimony of  
Barbara A. Meisenheimer  
Case No. GR-2009-0355

|     |                          |                        |
|-----|--------------------------|------------------------|
| 878 | Meter & House Regulating | Weighted Meters        |
| 879 | Customer Installations   | Bills                  |
| 880 | Other Expenses           | Net Distribution Plant |
| 881 | Rents                    | Net Distribution Plant |

**Maintenance**

| <u>Account</u> | <u>Description</u>               | <u>Allocation based on</u> |
|----------------|----------------------------------|----------------------------|
| 885            | Supervision & Engineering        | Net Distribution Plant     |
| 886            | Structures and Improvements      | Net Distribution Plant     |
| 887            | Mains                            | Mains                      |
| 889            | Measuring & Regulating Stations  | Annual Ccf                 |
| 890            | Measuring & Reg. Commercial      | Large Ind. Bills           |
| 891            | Measuring & Regulating City Gate | Annual Ccf                 |
| 892            | Services                         | Weighted Services          |
| 893            | Meters & House Regulators        | Weighted Meters            |
| 894            | Other Equipment                  | Net Distribution Plant     |

1 Q. HOW ARE CUSTOMER ACCOUNTS, CUSTOMER SERVICE, AND SALES PROMOTION  
2 EXPENSES ALLOCATED?

3 A. Customer service expenses are indirectly related to the number of customers and  
4 are allocated on the basis of number of customer bills. Sales promotion expenses  
5 are allocated on the basis of the overall class cost of service. Of all the customer  
6 accounts expenses Meter Reading and Customer Records and Collections  
7 (Accounts 902 and 903) seem directly related to the number of customers and are  
8 therefore allocated on the number of customer bills. Because these accounts  
9 include the majority of customer accounts expense, I have allocated Supervision

(Account 901) on the same basis. I do not view uncollectibles as having a direct relationship to the number of customers so I have allocated Uncollectibles (Account 904) on the basis of overall cost of service. For each account the type of expense and allocation factor used in my study are listed below;

**TABLE 9**

**Customer Accounts**

| <u>Account</u> | <u>Description</u>              | <u>Allocation based on</u> |
|----------------|---------------------------------|----------------------------|
| 901            | Supervision                     | Weighted Meters            |
| 902            | Meter reading                   | Wt Meter Read (Bills- LV)  |
| 903            | Customer Records and Collection | Weighted Meters            |
| 904            | Uncollectible Accounts          | Cost of Service            |
| 905            | Miscellaneous                   | Customer Acct. Expense     |

**Customer Service and Information**

| <u>Account</u> | <u>Description</u>            | <u>Allocation based on</u> |
|----------------|-------------------------------|----------------------------|
| 908            | Customer Assistance           | Bills                      |
| 909            | Inform & Instruct Advertising | Bills                      |

**Sales**

| <u>Account</u> | <u>Description</u>        | <u>Allocation based on</u> |
|----------------|---------------------------|----------------------------|
| 912            | Demonstrating and Selling | Bills                      |
| 913            | Advertising               | Bills                      |
| 916            | Miscellaneous             | Bills                      |

1       **Q.     HOW ARE ADMINISTRATIVE AND GENERAL (A & G) EXPENSES ALLOCATED?**

2       A.     Property insurance (Account 924) is allocated on the basis of net non-general  
3             plant. Expenses related to salaries, administration, outside services, injuries and  
4             damages and employee pensions and benefits (Accounts 920, 921, 922, 923, 925  
5             and 926) are allocated on the basis of payroll. The remainder of A & G expenses  
6             are allocated on the basis of the overall class cost of service.

7       **Q.     HOW ARE TAXES ALLOCATED?**

8       A.     Property taxes are allocated on the basis of the net plant previously allocated to  
9             each class. Franchise taxes are allocated on the basis of rate base. Payroll taxes  
10            are allocated as a function of payroll expense. Income taxes are allocated  
11            according to the rate base attributable to each class.

12       **CLASS COST OF SERVICE STUDY RESULTS**

13       **Q.     WHAT ARE THE RESULTS OF PUBLIC COUNSEL'S CLASS COST OF SERVICE STUDY?**

14       A.     Based on my class cost of service studies, (Schedule BAM DIR-1), to equalize the  
15             classes' rates of return, the Residential class revenues would need to be reduced  
16             by 3.44%, the Small General Service Class revenues would need to be increased  
17             by 19.22%, the Large General Service Class revenues would need to be reduced  
18             by 23.57% and Large Volume revenue would need to be reduced by about  
19             14.17%. The percent above or below cost of service is shown for each class on  
20             Line 24, Schedule BAM DIR-1.

1 Q. DO YOU HAVE CONCERNS WITH THE STUDY RESULTS?

2 A. Yes. I am concerned with the results for Small General Service, Large General  
3 Service and Large Volume. This may be due to miscategorization of revenues or  
4 billing units within the accounting and other data provided to Public Counsel. I  
5 am aware that Staff has been reviewing the class billing units originally filed as  
6 Appendix 5, to the Staff's Report on Cost of Service filed on August 21, 2009 and  
7 reviewing differences between the Staff and Company revenues. If significant  
8 corrections are made I will update my studies.

9 Q. WHAT LEVEL OF RESIDENTIAL CUSTOMER CHARGE IS SUPPORTED BY YOUR  
10 CLASS COST OF SERVICE STUDY?

11 A. My cost of service study results indicates that the customer related costs are  
12 \$11.54. This includes costs that vary directly with the number of customers  
13 served. This amount includes a return on the Company's investment in meters,  
14 regulators, services and other customer premise, operating and maintenance  
15 expenses associated with those investments, meter reading expenses and billing  
16 expenses.

17 **Class Cost of Service Study Results and Rate Design Recommendations**

18 Q. WHAT RATE DESIGN WOULD YOU PROPOSE BASED ON YOU CLASS COST OF  
19 SERVICE STUDY RESULTS?

20 Public Counsel recommends that where the existing revenue structure departs  
21 greatly from the class cost of service, the Commission should impose, at a  
22 maximum, class revenue shifts equal to one half of the "revenue neutral shifts"  
23 indicated by Public Counsel's class cost of service study. Revenue neutral shifts

1       **Q.     IF THE COMMISSION DETERMINES IT REASONABLE IN THIS CASE, CAN YOUR**  
2       **RATE DESIGN METHOD BE APPLIED TO DIFFERENT REVENUE REQUIREMENTS?**

3       **A.     Yes, it can. This method could be utilized to calculate class revenue requirements**  
4       **for any practical level of overall revenue requirement.**

5       **Q.     DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?**

6       **A.     Yes.**

7

8