

Exhibit No.:

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Issues:

Class Cost of Service,
Rate Design

Witness:

Daniel I. Beck

Sponsoring Party:

MO PSC Staff

Type of Exhibit:

Rebuttal Testimony

Case No.:

GR-2004-0209

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MISSOURI PUBLIC SERVICE COMMISSION

UTILITY OPERATIONS DIVISION

REBUTTAL TESTIMONY

OF

DANIEL I. BECK

MISSOURI GAS ENERGY

CASE NO. GR-2004-0209

Jefferson City, Missouri

May 2004

FILED

JUL 13 2004

**Missouri Public
Service Commission**

**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-2004-0209

AFFIDAVIT OF DANIEL I. BECK

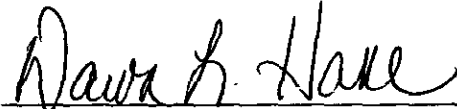
STATE OF MISSOURI)
) ss
COUNTY OF COLE)

Daniel I. Beck, of lawful age, on his oath states: that he has participated in the preparation of the following Rebuttal Testimony in question and answer form, consisting of 18 pages of Rebuttal Testimony to be presented in the above case, that the answers in the following Rebuttal Testimony were given by him; that he has knowledge of the matters set forth in such answers; and that such matters are true to the best of his knowledge and belief.



Daniel I. Beck

Subscribed and sworn to before me this 21st day of May, 2004.



Notary Public

DAWN L. HAKE
Notary Public - State of Missouri
County of Cole

My commission expires _____
My Commission Expires Jan 9, 2005

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adjustment should be required before it is given serious consideration.

3. The Load Attrition Adjustment attempts to explain historical data but one cannot assume that the historical trend will continue.

4. The Load Attrition Adjustment is an out-of-test-period unprecedented adjustment and should be disallowed.

5. The Load Attrition Adjustment should be disallowed because it is incorrectly assigned to both the summer and winter seasons. The summer season trend variable, which accounts for over one-half of the Load Attrition Adjustment, is not statistically significant and therefore all summer Load Attrition Adjustments should be disallowed.

6. The Load Attrition Adjustment, when coupled with significant changes in rate design, can result in extra, undocumented revenue for the Company.

Q. Have you reviewed the Company's Load Attrition Adjustment testimony and workpapers?

A. Yes.

Q. Would you describe in your own words what this adjustment is?

A. The Load Attrition Adjustment is a \$1,629,718 adjustment sponsored by the Company that reduces the test year margin revenues. As can be seen on Schedule H-2, which is attached to Company witness Michael R. Noack's Direct Testimony, it is the largest single adjustment made to the Test Year margin revenues. It is basically a reduction to the average usage per customer for each billing month of the year. The

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Company applies this adjustment to the Commission Ordered Test Year to account for additional load reductions that it believes will occur in the 15 months after the test year.

Q. Do you support the Company's proposed adjustment to revenues?

A. No. In my opinion, the Company is attempting to use approximately nine (9) years of history to project fifteen (15) months past the end of the test year. At the date of this filing, more than four (4) of their projected fifteen (15) months that have not yet occurred. More importantly, any change in customer usage is already reflected in the test year data.

Q. Can you point to any specific evidence that proves your assertion that the test year data already reflects any historical effects of load attrition?

A. Although I believe that common sense would tell you that the test year reflects the effects of historical usage patterns, one can also look at the regression models in Dr. Cummings' workpapers to prove this assertion. Specifically, on page 11 of Dr. Cummings' Direct Testimony is a table of the coefficients from Dr. Cummings' Load Attrition Models. The table below is a similar table that shows the Heating Degree Day Coefficients from both Dr. Cummings' Load Attrition models and Dr. Cummings' Weather Normalization models:

Customer Class	Region	Load Attrition HDD	Weather Normalization HDD	Percent Difference
Residential	Kansas City	0.162	0.146	10%
	Joplin	0.158	0.140	11.5%
	St. Joseph	0.178	0.154	13.4%
SGS	Kansas City	0.437	0.364	16.7%
	Joplin	0.384	0.331	13.7%
	St. Joseph	0.501	0.419	16.3%
LGS	Kansas City	8.325	5.882	29.3%
	St. Joseph	8.320	5.840	29.8%

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1 Q. Why is the fact that the HDD coefficients are different when comparing
2 one set of models to another important?

3 A. The Load Attrition Adjustment is based on the concept that the Company
4 is losing base load usage while the temperature sensitive usage remains constant.
5 However, these results support the conclusion that weather sensitive usage is lower for
6 the test year than the 9-year historical period. Therefore, analysis based solely on the test
7 year includes a lower weather sensitive coefficient, reflects a more current estimate of
8 base load usage already and already accounts for any load attrition.

9 Q. Is a 10% change in the HDD Coefficient really that large?

10 A. Yes. For the Kansas City Region, MGE proposes to adjust each month of
11 their 15 month projection by 1.51 Ccf per customer per month or a total of 22.65 Ccf per
12 customer which, when price out at \$0.11423 per Ccf, would result in an adjustment of
13 \$2.59 in current revenues for each residential customer in the Kansas City area.
14 However, if the HDD coefficient from the Load Attrition model were substituted into the
15 weather normalization model for the Residential Kansas City customers, the resulting
16 change in test year actual weather sensitive load would be 82.34 Ccfs per customer or
17 \$9.41 per customer. This would be equivalent to raising the customer charge by almost a
18 dollar per month. Obviously, the HDD coefficient from these two models is significantly
19 different and, therefore, the test year data and regression reflects a more current estimate
20 of base load usage. It should be noted that the Residential-Kansas City percent difference
21 is the smallest difference shown in my table. As the percentage difference increases, the
22 difference, both in Ccfs per customer and dollars per customer, between the test year and
23 the nine years of history grows.

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1 Q. Has MGE ever proposed a Load Attrition Adjustment in any previous rate
2 case?

3 A. No. Not to my knowledge. I have been a Staff member at the
4 Commission longer than MGE has been in existence and this adjustment has not been
5 apart of their previous rate cases. In addition, I cannot recall any natural gas company
6 proposing an adjustment of this kind. The fact that this is a new and unprecedented
7 proposed adjustment, coupled with the fact that this is the largest margin revenue
8 adjustment proposed by the Company, leads me to believe that MGE should be required
9 to provide much more support for this novel concept before it is seriously considered.

10 Q. Are you sure that the proposed Load Attrition Adjustment projects as far
11 out as September 2004?

12 A. Yes. On page 15, lines 16-23 of Dr. Cummings Direct Testimony,
13 Dr. Cummings points to the 15 month period between the end of the test year and the
14 operation of law date which is early October, 2004. In addition, the Company's
15 workpaper spreadsheet file titled "Load Attrition" shows 15 months of adjustment
16 starting with July and ending with September. Finally, these 15 months of adjustment are
17 specifically assigned to the test year in the workpaper spreadsheet titled "By Class"
18 which shows that the twelve months of the test year are assigned the first twelve
19 adjustments from "Load Attrition" and also shows that the months of July, 2002; August,
20 2002; and September, 2002 are also assigned the last three months from the "Load
21 Attrition" spreadsheet.

22 Based on these facts, the Staff considers the Load Attrition Adjustment to be out-
23 of-period and opposes it on that basis. Please refer to the Rebuttal Testimony of Staff

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1 witness Mark L. Oligschlaeger of the Auditing Department for more discussion of this
2 point.

3 Q. Has the Company stated the exact causes it believes might result in the
4 need for this adjustment?

5 A. No. Certainly, there are a lot of witnesses alleging that the Company did
6 not earn its authorized rate of return in recent years. However, since the load attrition
7 adjustment is a projection of future usage and not a request for reimbursement due to
8 past-perceived earnings, this cannot explain or support the proposed load attrition
9 adjustment. Although Company witness Dr. F. Jay Cummings raises issues like base
10 load usage, increased space and water heating efficiencies, and lower usage in the months
11 of July through September, I could not determine any specific value that Dr. Cummings
12 is attributing to any of these issues. Instead, there is simply an unexplained trend factor
13 that is the result of regression analysis.

14 Q. Why is it important to have specific quantifiable reasons to support the
15 load attrition factor?

16 A. Since the load attrition factor is a projection of past trends into the future,
17 one must understand the reasons for past trends must be established and analyzed to
18 determine if those trends will continue. To simply assume that a trend will continue into
19 the future is not logical, and often times there are clear reasons that a trend cannot
20 continue indefinitely. For example, the load attrition adjustment cannot realistically
21 reduce the monthly usage to below zero, but in later testimony, you will see that
22 projecting out several years into the future will result in just such a prediction.

23 To make projections of the load attrition adjustment into the future, one would
24 have to have specific information about appliance efficiencies, appliance saturations,

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1 housing stocks, and other end-use data that could be quantified and projected into the
2 future.

3 Q. On pages 13-15 of Dr. Cummings Direct Testimony, three reasonableness
4 checks are discussed. What is your opinion of these reasonableness checks?

5 A. In my opinion, these reasonableness checks call into question the validity
6 of the proposed Load Attrition adjustment instead of supporting it. The first
7 reasonableness check is a comparison of the two groups of models that I just discussed.
8 Dr. Cummings compared the base-load usage for each of the groups of models and
9 determined that the test -year base load results are lower than the nine (9)-year base load
10 regression results and, therefore, determined that this is consistent with his expectations.
11 In my opinion, Dr. Cummings was conducting an apples to oranges comparison. If one
12 truly wants to compare base load usage between these two models, one has to compare
13 the combined effect of the constant term and the Trend term from the nine (9) -year
14 histories to the test-year constant term.

15 Comparing the Kansas City-Residential models for these two periods reveals
16 much different results. For the test year, while the combined value for the base load
17 usage in the nine (9)-year model would be 6.5665 Ccfs per month per customer, the test
18 year model had a constant term of 13.4239 Ccfs per month per customer. There should
19 not be a significant difference in these two values if the other variable in the model
20 (HDD) was consistent. However, one does not need a statistical test to determine that
21 these values are off by a factor of two.

22 Q. Dr. Cummings briefly discussed the American Gas Association's (AGA's)
23 "Pattern in Residential Natural Gas Consumption" on pages 14-15 of his Direct

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1 Testimony, which he claims was his second reasonableness check. Doesn't this explain
2 the need for the proposed Load Attrition Adjustment?

3 A. No. First, I need to point out that Dr. Cummings incorrectly quotes the
4 title to this paper, which is actually "Pattern in Residential Natural Gas Consumption
5 Since 1980". Second, the analysis in this paper is done on the years 1980 through 1997.
6 This means that the time period for this study and Dr. Cummings analysis only overlap
7 by 4 years, which is approximately half of the time period that Dr. Cummings analyzed,
8 and less than one-fourth of the time period that the AGA study, dealt with. Third, the
9 following quote from page six of the AGA paper is most telling:

10 "Much of the data used in this analysis come from government and AGA surveys.
11 While this information is the best available for national and regional analysis, survey
12 sampling, structure, and/or extrapolation techniques can be flawed, particularly when
13 ascribing results to smaller populations such as regions and states."

14 Since this study is based on a different time period and cannot be ascribed to
15 smaller populations such as regions and states (much less specific utility service
16 territories), I do not believe that this study supports Dr. Cummings regression analysis.

17 Q. Dr. Cummings refers to the AGA study's projection of future trends in per
18 customer usage. Do you agree with his conclusion that his regression analysis results fall
19 with the range given by the AGA study?

20 A. No. Dr. Cummings is simply wrong when he claims that the AGA study
21 provided a "range of 1.25 Ccf per bill to 2.47 Ccf per bill". Instead, the study concluded
22 that the historical trend was 1.25 Ccf per bill and the predicted trend for the 10 years
23 beginning 1997 was 1.22 Ccf. Oddly, Dr. Cummings stated both of these values in his
24 testimony but then concluded that the study supported his range.

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1 Q. Were you able to determine the source of Dr. Cummings range?

2 A. After reviewing the AGA study and Dr. Cummings testimony, I can only
3 conclude that Dr. Cummings mistakenly added the historical trend to the projected trend
4 to arrive at the value of 2.47 Ccf per bill. While these two numbers do sum to 2.47, it is
5 important to recognize that these are each per bill numbers and should not be added
6 together. Instead, the AGA study provided a very narrow range from 1.22 Ccf per bill to
7 1.25 Ccf per bill.

8 Q. Did Dr. Cummings' results for the residential class fit within the real
9 range that the AGA study provided?

10 A. No. One has to conclude that values of 1.51 Ccfs per bill, 1.45 Ccfs per
11 bill and 2.07 Ccfs per bill are significantly different than the narrow range provided by
12 the AGA study. Therefore, the AGA study actually brings Dr. Cummings regression
13 results into question instead of supporting them.

14 Q. Have you reviewed the calculation of the trend factor?

15 A. Yes. Although there are specifics of the calculations that raise concerns, I
16 believe that the best way to discuss this trend factor is to use simple common sense to
17 determine the appropriateness of the resulting trend factor. To do this, I would direct the
18 Commission's attention to the graph on Schedule FJC-1, which is attached to
19 Dr. Cummings Testimony. Dr. Cummings states, "In each of these three non-weather
20 sensitive months, residential gas usage consistently declines over the nine year period."
21 [Cummings, Direct page 15, lines 7-9] This statement leaves the impression that the
22 estimated trend factor is also supported by this graph and, indeed, Dr. Cummings
23 represents that these graphs are his third reasonableness check. However, this graph,

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1 when combined with the resulting trend factor, actually brings into doubt the validity of
2 the trend factor.

3 As Dr. Cummings testimony shows in several places, the projected decline in
4 residential usage per bill is 1.51 Ccf for Kansas City, 1.45 Ccf in Joplin and 2.07 Ccf in
5 St. Joseph. Since the Kansas City area accounted for approximately 80% of MGE's
6 residential customers, an estimate of 1.5 Ccf per bill would be a conservative estimate of
7 the projected decline the total Company's service territory. If the 1.5 Ccf per bill
8 adjustment were then applied to the first year's (1994's) data point for the month of
9 August, which is 22.17 Ccfs per bill, the following estimates of average usage per bill
10 would result:

11 1994 22.17 Ccfs per bill (Actual)

12 1995 20.67 Ccfs per bill

13 1996 19.17 Ccfs per bill

14 1997 17.67 Ccfs per bill

15 1998 16.17 Ccfs per bill

16 1999 14.67 Ccfs per bill

17 2000 13.17 Ccfs per bill

18 2001 11.67 Ccfs per bill

19 2002 10.17 Ccfs per bill

20 However, when one attempts to match these estimates do not match with the
21 actual values actually experienced, and, in fact, each estimate is well below the value that
22 was actually experienced. In fact, the last four estimates would not even show up on the
23 graph since 16 Ccfs per bill is the lowest point on the Y-axis. Clearly, the same gap
24 between actuals and estimates also occur for the months of July and August.

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1 Another common sense check of the estimates is to see just how low a projection
2 into the future would go. It doesn't take long to reach the totally unrealistic value of
3 negative usage:

4 2003 8.67 Ccfs per bill

5 2004 7.17 Ccfs per bill

6 2005 5.67 Ccfs per bill

7 2006 4.17 Ccfs per bill

8 2007 2.67 Ccfs per bill

9 2008 1.17 Ccfs per bill

10 2009 -0.33 Ccfs per bill

11 Q. How can this gap between actuals and estimates consistently occur if the
12 estimate was based on regression analysis?

13 A. The regression analysis assumed that the trend factor did not vary based
14 on the time of the year. However, based on the comparison of the actual and estimated
15 values, this assumption is clearly flawed. Since the projections for July, August and
16 September are clearly flawed, I performed regression analysis on the Company's data by
17 splitting the trend variable into two variables, summer trend and winter trend.

18 Q. What were the summer and winter periods in your model?

19 A. I defined the summer as the billing months of May, June, July, August,
20 September and October. This is consistent with the Company's definition of summer and
21 winter in its proposed tariffs and proposed rate design. Of course, winter was the
22 remaining months of November, December, January, February, March, and April.

23 Q. And what were the results of your analysis?

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1 A. The regression analysis showed that for a majority of rate classes and
2 districts, the summer trend variable was not statistically significant. The definition of
3 what is or is not statistically significant is a matter of opinion. Dr. Cummings defined
4 statistically significant as a 90% degree of confidence while I personally prefer a 95%
5 degree of confidence. By my definition, all nine-customer class/district combinations
6 showed a summer trend factor that was not significant. By Dr. Cummings definition, the
7 Joplin Residential and the St. Joseph Residential Summer trend factors were marginally
8 significant while the other seven summer trend factors were not significant.

9 Q. Why is it important that the summer trend factor was not significant?

10 A. First, it begins to explain why Dr. Cummings trend factor differed from
11 the actuals experienced in July, August and September. Second, it impacts revenues
12 because the Company's calculations made a larger adjustment to the summer months than
13 it did to the winter months. Finally, the Company's proposal to implement an entirely
14 different rate design, the weather mitigation rate design, could impact revenue levels if
15 seasonal and blocked rates are implemented.

16 Q. What would be the impact on revenues of simply removing the
17 Company's proposed Load Attrition Adjustment from the summer months if the current
18 rate design remained in place?

19 A. The proposed Load Attrition Adjustment for the summer months is
20 (\$922,208). Since the total Load Attrition Adjustment is (\$1,629,718), the summer
21 months account for 56.6% of the adjustment. The reason that more than one-half of the
22 adjustment would be eliminated is that the 15-month shift in the annual periods includes a
23 double movement of the months of July, August and September; this means that
24 eliminating the summer months would essentially eliminate nine months of adjustments,

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1 not just six. Therefore, over one-half of the adjustment would be eliminated by throwing
2 out the summer load attrition adjustments, no matter what the final rate design is.

3 Q. Why would a rate design proposal have any impact on revenues?

4 A. Rate design proposals would impact revenues if there were a shift in rates
5 between seasons or blocks. Even assuming that Staff supported an out of test year
6 adjustment (which, of course, Staff does not), my analysis concludes that Dr. Cummings
7 trend factor adjustment would incorrectly remove Ccfs from the summer months. This
8 would result in incorrect revenue adjustments proportional to the difference in the
9 summer and winter rates.

10 Since the Company's proposed weather mitigation rate design would shift rates
11 both between seasons and between blocks, the interaction between the proposed weather
12 mitigation rate design and the proposed load attrition adjustment could have significant
13 impact on the revenue calculations. However, the real impact of the rate design cannot
14 be determined until the revenue requirements are determined and the rate designs
15 subsequently set.

16 **CLASS COST OF SERVICE**

17 Q. Have you reviewed the Class Cost of Service Study filed in this case?

18 A. Yes. Probably the most noticeable difference between the studies is that
19 the total amount of required revenue is significantly different. This difference is simply a
20 reflection of the differences in revenue requirement between the Company, Staff, and the
21 Office of the Public Counsel (OPC). Although one would prefer that these totals were
22 the same in all three studies, there are still ways to compare the resulting class revenue
23 responsibilities. Probably the simplest way to compare the results is to determine the

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percent of revenue responsibility for each class. The table below shows the resulting percent of class revenue requirement for the three studies:

Party	Residential	SGS	LGS	LVS
Company	73.80%	18.44%	1.04%	6.72%
Staff	72.03%	18.87%	1.03%	8.27%
OPC	62.95%	21.79%	1.43%	13.83%

Once the results are converted to percentages, it becomes apparent that there is a large amount of agreement between the studies.

Q. How do the results of Staff's study compare to the Company's results?

A. Despite the large difference in the total revenue requirement, the percentages of class revenue responsibility are very similar. For the Residential Class, which clearly has the largest revenue responsibly in all studies, the difference between Staff and the Company is 1.73%. While there are many specific differences in the allocation of specific accounts, the overall percentage difference of 1.73% for the residential class' revenue responsibility is negligible.

Q. Why is it important that the differences are negligible?

A. Quite simply, if revenues are going to be shifted between classes, the largest class, the Residential Class, almost has to be involved if the shifts are going to be meaningful.

Q. How do the results of the Staff and OPC studies compare?

A. Clearly the differences between the two studies are larger than the differences between the studies of Staff and the Company. After comparing these two studies, I have determined that the primary difference is due to the allocation of mains.

Q. Why does the allocation of mains account for most of the difference?

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1 A. Mains are a joint cost. By joint cost, I mean that an investment in mains
2 generally will benefit multiple customers and these customers will likely be members of
3 multiple customer classes. In contrast, some investments, such as a meter, can be
4 assigned to a specific customer and may not be suitable to serve some classes. To
5 allocate joint costs, an analyst must use their judgment.

6 Q. The OPC's allocation of mains uses the twelve monthly peaks to allocate
7 mains. Does this account for the allocation of mains differences between the Staff and
8 OPC?

9 A. Yes, in large part. To test this, I substituted the OPC's RSUM allocator
10 into the peak demand portion of Staff's mains allocator. This one change explained
11 approximately half of the differences between the two mains allocators.

12 Q. Is there some merit to using twelve monthly peaks instead of a single
13 peak?

14 A. Yes. A main is in place 365 days a year, not just the peak day. Many
15 customers receive natural gas that traveled through the mains all 365 days a year.
16 Therefore, an allocator that looks at more than just the peak day of the year has merit.

17 **RATE DESIGN**

18 Q. Have you reviewed the Company's Rate Design Proposal?

19 A. Yes. Based on a review of the Company's testimony, I have determined
20 that the Weather Mitigation Rate Design appears to be the most important rate design
21 issue from the Company's perspective. This proposal is based on the Weather Mitigation
22 Rate Design that is currently in place for Laclede Gas Company.

23 Q. Do you have personal knowledge of the Weather Mitigation Rate Design
24 that was implemented in Case No. GR-2001-0629?

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1 A. Yes. I filed testimony in that case on the issues of Large Customer
2 Adjustments, Class C-O-S Allocators, and Rate Design. I also testified on the
3 determination of billing units to set rates. I have always thought of Laclede's Weather
4 Mitigation Rate Design as an experiment. I believe that the language in the Stipulation
5 and Agreement which reserves the rights of the parties to propose the elimination or
6 modification of the rate design in future proceedings was based on the view that this is an
7 experiment.

8 Q. Do you have any concerns with expanding this experiment to MGE's
9 service territory also?

10 A. Yes. First, some of the concerns that Staff raised in that case are also a
11 concern for implementing this rate design for MGE. Some of those concerns were
12 related to the Purchased Gas Adjustment (PGA). These concerns that were expressed by
13 Staff witness David M. Sommerer were the ability of this rate design to properly collect
14 the PGA costs and the ability to audit the PGA in the ACA process.

15 In addition, after the Stipulation and Agreement was signed by the parties, a
16 controversy arose regarding the calculation of normalized blocked Volumes (measured in
17 Ccfs in MGE's service territory). This eventually required a hearing and Commission
18 Order to resolve this issue. As the Staff witness in that hearing, I can honestly say that
19 the controversy occurred because the weather mitigation rate design places more
20 importance on each Ccf in the first block. When I say more importance, I mean that each
21 Ccf is approximately at least five times more important to the Company's bottom line
22 when compared to a Ccf in more standard rate design.

23 Q. Will the level of Ccfs in the first block be any clearer in MGE's proposed
24 rate design?

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1 A. No. I believe that the proper level of first block volumes is even less
2 certain in this case since MGE does not currently have a blocked rate in effect for the
3 Residential Class.

4 Q. Is the level of first block sales really that important?

5 A. In the Laclede case, the controversy arose over the volumes in just one
6 winter month, November, yet it was valued at approximately one million dollars. While
7 MGE is about 75% or 80% the size of Laclede, the possibility of having multiple months
8 of disagreement could literally mean that there could be a disagreement of millions of
9 dollars related to the proper level of first block volumes.

10 Q. Laclede's weather mitigation rate design has been in effect for over a year.
11 Isn't that enough time to thoroughly analyze the program?

12 A. No. The data from the first ACA period is available, but has not been
13 audited. In addition, in theory, the weather mitigation rate design, in theory, has
14 advantages for ratepayers in winters that were both colder and warmer than normal.
15 There has not been enough time to track this program for several winters to determine if
16 it indeed has advantages for ratepayers.

17 Q. In the Laclede Stipulation and Agreement, the following statement was
18 included in the weather mitigation rate design section: "It is also understood that the
19 impact of such weather mitigation rate design on the Company's risk has been given
20 consideration in the settlement of the issues in this case." Do you believe this statement
21 has relevance when considering the MGE weather mitigation rate design proposal?

22 A. Yes. I believe that MGE's risk is clearly related to this issue. I contend
23 that weather mitigation rate design, weather normalization, load attrition, and rate of
24 return are all related issues.

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1 Q. How could all these issues be dealt with in this case?

2 A. The most obvious way is that these issues are dealt with in a global
3 settlement.

4 Q. Is there another alternative that would address some of the concerns of
5 Staff?

6 A. Yes. I would propose that a declining blocked rate structure be
7 implemented for the Residential Class. First, this proposal would not impact the
8 PGA/ACA process. Since I would propose that this blocked rate have a moderate
9 differential, this would give the Company more fixed revenue and would allow the
10 Company to collect a good history of blocked data for the Residential Class.

11 Q. Wouldn't the creation of the blocked rate still make the determination of
12 first block volumes an important issue?

13 A. While all issues concerning a Company's revenue requirement have some
14 level of importance, the cost per Ccf is simply the difference between the first and second
15 block. When I say a moderate differential, I am talking about a differential of two or
16 three cents per Ccf. Dr. Cummings' weather mitigation rate design results in a
17 differential of \$0.21839 cents per Ccf before any increased revenue requirement is
18 implemented. Using these values, each Ccf is seven times more valuable under
19 Dr. Cummings proposal when compared to my proposal.

20 Q. Does this conclude your rebuttal testimony?

21 A. Yes, it does.