

Issue:	Firm Transportation Discounts/Staff Incentive Proposal
Witness:	Bruce B. Henning
Type of Exhibit:	Surrebuttal Testimony
Sponsoring Party:	Laclede Gas Company
Case No.:	GT-2001-329

FILED²
MAY 30 2001
Missouri Public
Service Commission

LACLEDE GAS COMPANY

SURREBUTTAL TESTIMONY

OF

BRUCE B. HENNING

May 30, 2001

BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI

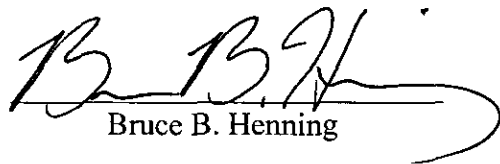
In the Matter of Laclede Gas Company's)
Tariff Filing to Implement an Experimental)
Fixed Price Plan and Other Modifications) Case No. GT-2001-329
To Its Gas Supply Incentive Plan.)

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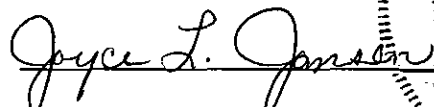
STATE OF MISSOURI)
) SS.
CITY OF ST. LOUIS)

Bruce B. Henning, of lawful age, being first duly sworn, deposes and states:

1. My name is Bruce B. Henning. My business address is 1655 North Fort Myer Drive, Arlington, Virginia 22182; and I am Director, Regulatory and Market Analysis with Energy and Environmental Analysis, Inc.
2. Attached hereto and made part hereof for all purposes is my surrebuttal testimony, consisting of pages 1 to 11, inclusive.
3. I hereby swear and affirm that my answers contained in the attached testimony to the questions therein propounded and the information contained in any attached schedules are true and correct to the best of my knowledge and belief.


Bruce B. Henning

Subscribed and sworn to before me this 29th day of May, 2001.


JOYCE L. JANSEN
Notary Public — Notary Seal
STATE OF MISSOURI
St. Louis County
My Commission Expires: July 2, 2001

SURREBUTTAL TESTIMONY

OF

BRUCE B. HENNING

LACLEDE GAS COMPANY

CASE NO. GT-2001-329

1

2 Q. Please state your name and business address.

3 A. My name is Bruce B. Henning. My business address is 1655 North Fort Myer
4 Drive, Arlington, Virginia 22182.

5 Q. By whom are you employed and in what capacity?

6 A. I am Director, Regulatory and Market Analysis with Energy and Environmental
7 Analysis, Inc. (EEA).

8 Q. Would you briefly describe some of the services offered by EEA?

9 A. EEA provides consulting services to public, private, and institutional clients,
10 including analysis of natural gas and energy market fundamentals. EEA is a
11 nationally recognized provider of natural gas forecasts and analysis. EEA, under
12 contract with GTI (formerly the Gas Research Institute, GRI), produces the
13 annual GTI Baseline Forecast that is used throughout the gas industry as a
14 reference forecast. In addition, EEA provided the quantitative forecast to the
15 National Petroleum Council study *Natural Gas: Meeting the Challenges of the*
16 *Nation's Growing Natural Gas Demand* published December 1999.

17 Q. Please describe your work and educational background.

18 A. Prior to joining EEA in January 1996, I was the Chief Economist at the American
19 Gas Association. I have a Bachelor of Science in Economics from the

1 Massachusetts Institute of Technology where I completed my thesis with Robert
2 Solow, Nobel Laureate in Economics. I have been an instructor at the Gas Rate
3 Fundamentals course at the University of Wisconsin and the Advanced Utility
4 Ratemaking course at the University of Maryland. My work in studying natural
5 gas market performance and behavior, *Analysis of Short-term Natural Gas*
6 *Markets*, was cited in FERC Order Nos. 637 and 637-a.

7 Q. What is the purpose of your surrebuttal testimony?

8 A. The purpose of my testimony is to address certain aspects of the rebuttal
9 testimony of Staff witnesses Robert E. Schallenburg and David M. Sommerer and
10 Public Counsel witness James Busch. Specifically, I will respond to Mr. Busch's
11 and Mr. Sommerer's recommendations regarding the firm transportation discount
12 component of Laclede Gas Company's Gas Supply Incentive Plan ("GSIP"). In
13 particular, I will explain why, contrary to their assertions, an incentive mechanism
14 that focuses a company's efforts on obtaining pipeline transportation discounts, as
15 the GSIP does, is appropriate and beneficial to Missouri gas consumers. I will
16 also explain why it is inappropriate to raise the \$13,000,000 baseline for firm
17 pipeline discounts. Finally, I will explain why the alternative incentive plan
18 proposed by Staff witness Schallenburg is inappropriate and ill-suited to the
19 purpose of providing a reasonable benchmark to measure performance in the gas
20 cost area.

21 **Response to Recommendations Regarding Firm**
22 **Transportation Discount Component**
23

24 Q. Do you agree with Public Counsel witness Busch's recommendation that the firm
25 transportation discount component of the GSIP should be eliminated?

1 A. No. The current treatment of pipeline discounts in the GSIP provides a strong
2 incentive to maximize the value of pipeline discounts over time. Both the
3 magnitude of the discount and the term of contract under which the discount is
4 secured must be optimized by the Company to achieve the best performance. The
5 interaction between the term of the agreement and the discount results in careful
6 consideration of future market conditions along the pipelines that serve Laclede's
7 service territory. This interaction should be considered one of the strengths of the
8 program. It is also important to note that, according to Company witnesses,
9 Laclede has recently been able to negotiate longer-term firm transportation
10 discounts that exceed those achieved by other market participants and that are
11 likely to out perform those contracts that did not anticipate the current tightening
12 of the market which I describe below. Under such circumstances, elimination of
13 an incentive mechanism for firm transportation discounts, advocated by Mr.
14 Busch and Mr. Sommerer, would be particularly inappropriate in that it would
15 effectively penalize rather than reward the Company for this superior effort.

16 Moreover, adopting a measure that ignores the positive consumer impact
17 of actions taken in previous years has the potential to create perverse incentives.
18 A properly structured program should provide an incentive to maximize the
19 potential consumer benefits. In many instances, appropriate long-term contract
20 decisions can be an important part of an optimal program.

21 The negotiation of the optimal term of a discounted pipeline contract is
22 one example of the actions that an LDC can take to the benefit of their customers.
23 The term and magnitude of discounted pipeline contract are the result of intensive

1 efforts by the LDC. To be successful, the LDC must be constantly evaluating
2 market conditions. The company must carefully consider all of the possible
3 alternatives to the contract and be able to convince the pipeline that the company
4 has viable alternatives. If the pipeline is convinced that the LDC is in a captive
5 position, the pipeline will be unwilling to offer significant discounts. In effect,
6 the LDC must understand major elements of an alternative gas supply plan and
7 use the information to create negotiating leverage with the pipeline.

8 Q. As an alternative to eliminating this component, both Public Counsel witness
9 Sommerer and Staff witness Busch have recommended that the baseline for this
10 component be increased. Do you agree with their recommendation?

11 A. No. In order for the program to continue to provide the incentive to maximize
12 pipeline discounts, baseline for the discounts must be at an achievable level in any
13 given year. If the benchmark is unrealistically high, as I believe it would be under
14 their respective proposals, then it eliminates any effective incentive. Simply put,
15 incentives must bear some relationship to what can actually be achieved, and if
16 they do not, they will serve no purpose.

17 Q. Why do you believe the baselines proposed by Staff and Public Counsel are not
18 achievable?

19 A. By basing their proposed baselines on historical levels achieved by Laclede, both
20 Staff and Public Counsel fail to recognize that the ability to negotiate pipeline
21 transportation discounts, particularly at existing levels, is likely to decrease in the
22 future in most regions of the country and along the pipeline corridors serving
23 Laclede. Natural gas demand in the United States is projected to increase

1 substantially over the next decade, approaching 30 Trillion Cubic Feet (Tcf) per
2 year by 2010. While gas use for power generation is projected to contribute the
3 largest increment of growth, residential, commercial and industrial gas use are
4 also projected to increase, tightening the available capacity. Schedule 1 shows
5 EEA's projection of gas demand growth.

6 To meet the demand growth, pipeline load factors will increase as the
7 volume of gas being delivered to the market increases. New pipeline capacity
8 will need to be constructed in capacity constrained regions. EEA projects that the
9 annual load factor for pipelines moving gas to Missouri from Louisiana will
10 increase by more than 30 percent by 2005. Load factors will continue to increase
11 through 2010.

12 Q. What are some of the factors contributing to the increase in pipeline load factors?

13 A. One of the factors contributing to the increases in pipeline load factors from the
14 South is the growth in gas production from deep water drilling in the Gulf of
15 Mexico. This important source of gas supply will more than offset the declines in
16 production in the mature "shelf" production region of the Gulf. In total, the
17 volume of gas being delivered into pipelines moving gas out of the Gulf will
18 increase by more than 1.1 Billion Cubic Feet per day (Bcf/d) by 2005 and 2.1
19 Bcf/d by 2010. The increase in gas production will help satisfy a growing market,
20 but it will also fill a significant amount of pipeline capacity.

21 Contributing to the increase in the pipeline load factors serving Missouri is
22 the conversion of a major segment of the Trunkline pipeline from a natural gas
23 pipeline to a products pipeline. In March, the FERC granted abandonment for the

1 gas service. As a result, approximately 253 Million cubic feet per day of gas
2 transportation capacity will be removed from the market place within the next few
3 months.

4 Because there will be substantially less unused capacity, pipelines will not
5 have to discount capacity to the same extent that current market conditions
6 require. Shippers will be less certain that interruptible capacity or capacity
7 release will be available and will seek firm capacity commitments. The increased
8 demand for firm capacity will make it significantly more difficult to negotiate
9 discounts at prevailing levels.

10 Q. But won't additional pipeline capacity be added in response to this increased
11 demand?

12 A. The increase in demand for firm capacity will not be matched with an immediate
13 increase in supply of capacity from new pipeline construction. New pipeline
14 construction projects are generally proposed and certificated by the FERC when
15 shippers are willing to contract for the capacity for 10 years at maximum rates.
16 When commitments are less than this threshold level, the constructing pipeline is
17 placed "at risk" for the recovery of the project costs. As a result, projects are
18 rarely constructed in a market characterized by significant pipeline discounts.

19 Q. In summary what is the impact of Staff's and Public Counsel's proposal to
20 increase the discount baseline?

21 A. In summary, these proposals fail to recognize that the ability to negotiate pipeline
22 discounts are likely to decrease over time. Moreover, significant amounts of
23 capacity from new pipeline construction are unlikely to be available in the near

1 future. As a result, the Commission should maintain the baseline which is not
2 only achievable but also rewards the efforts that correctly anticipated changes in
3 market conditions.

4 **Response to Staff's Alternative Incentive Plan**

5 Q. Does Staff witness Schallenberg's proposal to use relative changes in the
6 delivered gas acquisition costs of Missouri LDCs provide a reasonable
7 measurement of the quality of their performance?

8 A. No. First there are a number of internal and operational differences between each
9 LDC in Missouri and elsewhere. For example: the amount of storage available to
10 the LDC, its ability to transport the stored gas when needed, the ability to secure
11 gas at a time when it may be wise to inject and the ability of the LDC to enter into
12 long and short term contracts. There are also a number of factors outside of the
13 control of the utility that can affect the relative ranking of gas acquisition cost.
14 Shifting sources of gas production and historical patterns of pipeline construction
15 can affect relative gas acquisition costs substantially.

16 As mentioned earlier, total gas production in the Gulf of Mexico is
17 projected to increase as a result of increases in deep water gas production. This
18 increase was made possible by significant improvements in deep water drilling
19 technology. By contrast, gas production in Oklahoma, Kansas and the Texas
20 panhandle are projected to decrease by 25 percent over the next decade. These
21 production areas are mature and hold much less potential for new production.
22 Pipelines originating in this region will rely on gas supplies from Colorado,
23 Wyoming, and New Mexico to fill the pipeline. In these regions, access and

1 permitting issues will be important in determining how much gas production is
2 developed.

3 In the future, utilities in Missouri will rely on both of these sources of
4 increased gas production to meet consumer needs. However, utilities in the
5 western portion of the state and utilities in the eastern portion of the state will
6 differ in terms of their sources of supply because of the pipelines that serve their
7 markets. Although the cost of gas from both producing areas are affected by
8 overall North American supply/demand, localized events in the Rockies or on the
9 Gulf Coast can affect the relative cost in any one year. Over the past four years,
10 gas prices in the Gulf Coast have been substantially higher than prices in the
11 Rockies. From 1997 though 2000, the average gas price in the Opal trading area
12 in the Rockies was \$2.36 per thousand cubic feet. Over the same period, the
13 average price at the Henry Hub was \$2.78 per thousand cubic feet or nearly 18
14 percent higher. Using a simplistic approach of unit gas costs as a measure of
15 relative performance would disadvantage an LDC that relies on Gulf Coast gas
16 and would not reflect the relative performance of the companies in the state.

17 A number of other external factors can affect the relative costs of gas.
18 They include processing plant outages or constraints, pipeline operational flow
19 orders and short-term imbalances caused by a pipeline operational event. As a
20 result, in any given year, the relative performance can be affected by factors
21 outside of the utility's control. An incentive program where incentive
22 compensation is heavily based on external factors does not promote economic
23 efficiency. There are also differences between the natural gas commodity market

1 and the market for firm pipeline transportation services that justify their
2 separation in an incentive program. The market for firm pipeline transportation
3 service to serve Laclede's gas customers reflects balance of the supply of pipeline
4 capacity and the demand for that capacity. The value of the capacity in the
5 marketplace is determined by capacity utilization or load factor on the pipeline, as
6 well as the utility's ability to create leverage and negotiate effectively. At low
7 levels of capacity utilization, firm capacity prices are discounted below the
8 maximum regulated rate to stimulate additional demand and to compete with
9 capacity release and interruptible transportation. If capacity utilization increases,
10 discounts for firm transportation service are reduced, with the pipeline ultimately
11 commanding maximum rates for capacity contracts.

12 Q. Are there factors other than regional supply cost differences that are outside of the
13 utility's control and that would affect relative performance based on the Staff's
14 proposal?

15 A. Yes. The utility's customer mix can also affect the relative performance due to
16 the influence of the mix of customers on the load factor of the system. Consider
17 two utilities. Utility 1 has a large percentage of temperature sensitive residential
18 customers. Utility 1 must reserve sufficient capacity to meet the peak day
19 requirements and must pay the demand charges on the pipeline for that capacity.
20 The load factor for the pipeline transportation of Utility 1 may be only 50 percent.
21 By contrast, consider Utility 2 with a large amount of interruptible industrial load.
22 Using this mix of customers, Utility 2 may have a load factor that approaches 100
23 percent. If these two utilities were able to negotiate identical pipeline contracts,

1 the demand charge component of the performance measure proposed by Staff for
2 Utility 1 would be would be 100 percent larger than the measure for Utility 2.

3 Similarly, differences in the location and availability of storage and peak
4 shaving facilities can affect the load factor of a capacity contract. These relative
5 differences have very little to do with the performance of the utility.

6 Q. In the process of negotiating for firm transportation rights, does the ability of an
7 LDC to switch between pipeline alternatives also potentially vary based on the
8 location of the LDC and the market for capacity on the pipelines which serve it?

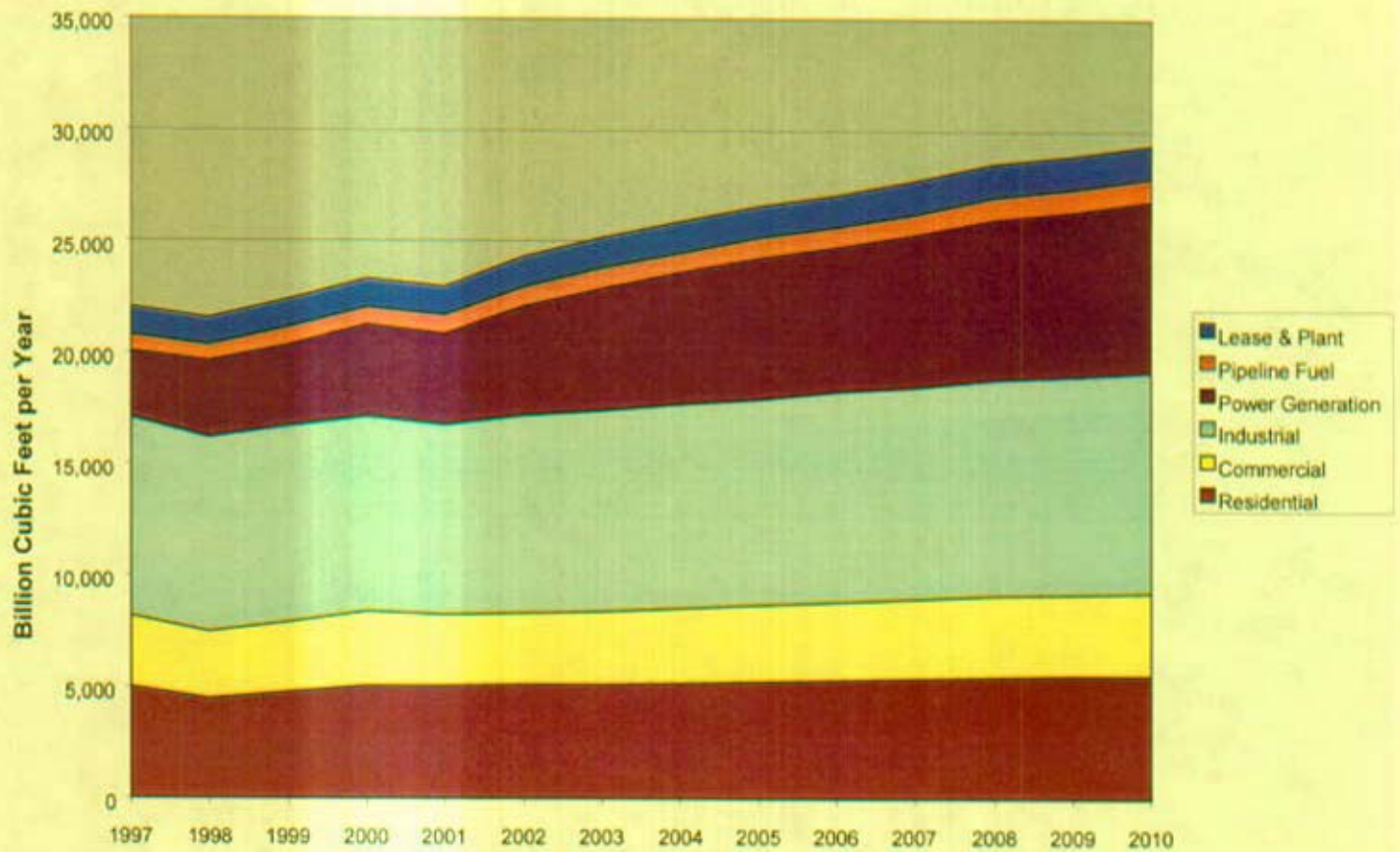
9 A. The value of firm transportation capacity will vary from one geographic market to
10 another. Shippers that require firm delivery rights at a particular location cannot
11 easily or always substitute unused capacity from another transportation corridor.

12 Q. Does this conclude your testimony?

13 A. Yes, it does.

Schedule 1

Projected United States Natural Gas Consumption (Bcf)



Source: EEA Base Case
Model Run May 5, 2001