

BEFORE THE  
PUBLIC SERVICE COMMISSION OF UTAH

\_\_\_\_\_)  
IN THE MATTER OF THE )  
APPLICATION OF DOMINION )  
ENERGY UTAH TO INCREASE ) DOCKET NO. 22-057-03  
DISTRIBUTION RATES AND )  
CHARGES AND MAKE TARIFF )  
MODIFICATIONS )  
\_\_\_\_\_)

Direct Testimony of

**Brian C. Collins**

On behalf of

**Federal Executive Agencies**

September 15, 2022

**FEA Exhibit 2.0**



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Direct Testimony of Brian C. Collins

1 I. QUALIFICATIONS AND SUMMARY

2 I.A. Qualifications

3 Q PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

4 A My name is Brian C. Collins. My business address is 16690 Swingley Ridge  
5 Road, Suite 140, Chesterfield, MO 63017.

6 Q WHAT IS YOUR OCCUPATION AND BY WHOM ARE YOU EMPLOYED?

7 A I am a consultant in the field of public utility regulation and a Managing Principal  
8 with the firm of Brubaker & Associates, Inc. ("BAI"), energy, economic and  
9 regulatory consultants.

1 Q PLEASE DESCRIBE YOUR EDUCATION AND PROFESSIONAL  
2 EXPERIENCE.

3 A My education and professional experience are detailed in my Appendix A to this  
4 testimony.

5 Q ON WHOSE BEHALF ARE YOU TESTIFYING?

6 A I am offering testimony on behalf of the Federal Executive Agencies (“FEA”),  
7 including Hill Air Force Base (“Hill AFB”), a customer in the Transportation  
8 Service (“TS”) class.

9 **I.B. Summary**

10 Q WHAT IS THE PURPOSE OF YOUR TESTIMONY?

11 A I will provide comments and recommendations on the class cost of service  
12 (“CCOS”), the class revenue allocation, the TS class split, and certain rate  
13 design proposals of Dominion Energy Utah (“DEU” or “the Company”). My  
14 silence in regard to any issue should not be construed as tacit agreement or an  
15 endorsement of DEU’s position.

16 Q PLEASE SUMMARIZE YOUR RECOMMENDATIONS AND CONCLUSIONS.

17 A For the reasons outlined in this testimony, I recommend the following to the  
18 Public Service Commission of Utah (the “Commission”):

- 19 1. My proposed CCOS study uses Design Day Demand to allocate the  
20 costs of large-diameter intermediate high-pressure (“IHP”) mains as

- 1 well as the costs of high-pressure feeder-line mains to customer  
2 classes. Because Design Day Demand reflects how the Company  
3 designs its system of mains and best reflects class cost causation,  
4 my CCOS study is appropriate to guide class revenue allocation.
- 5 2. The Company's CCOS study does not best reflect class cost of  
6 service because of its reliance on annual usage or commodity  
7 volumes to partially allocate the cost of distribution mains to customer  
8 classes. As a result, I recommend my proposed CCOS study be used  
9 as a guide for the Company's class revenue allocation.
- 10 3. I recommend that my proposed class revenue allocation be used to  
11 determine class revenue responsibility. This is appropriate because  
12 my proposed class revenue allocation is guided by my CCOS study,  
13 which better reflects class cost causation with respect to the  
14 allocation of distribution main costs as compared to the Company's  
15 CCOS study.
- 16 4. My proposed class revenue allocation is based on the Company's  
17 fully requested revenue requirement. To the extent a reduction to the  
18 Company's requested revenue requirement is approved, I  
19 recommend an equal percent reduction for each class be applied  
20 after my class revenue allocation at the Company's fully requested  
21 revenue requirement is implemented.
- 22 5. Unless the cost allocation of distribution mains is corrected in the  
23 DEU CCOS study, I recommend the Company's proposed split of the  
24 TS class into TS Small ("TSS"), TS Medium ("TSM") and TS Large  
25 ("TSL") subclasses be rejected. Unless the Company's CCOS study  
26 reflects appropriate cost-based allocations of all distribution main  
27 costs, the subsidy paid by the TSL class will be exacerbated. As a  
28 result, I recommend the Company's proposed TS class split be  
29 rejected if the Commission accepts the Company's Peak & Average  
30 ("P&A") allocation of mains costs in the CCOS study.
- 31 6. Regarding the Company's proposal for renewal of the Infrastructure  
32 Rate Adjustment Tracker ("IRAT") by the Commission, I propose that  
33 the tracker be modified to track changes in total net plant investment  
34 in high pressure mains and should not track only incremental  
35 investments. The tracker should account for not only incremental rate  
36 base resulting from investments made under the rider, but should also  
37 account for the change in legacy net rate base.

1 **II. CLASS COST OF SERVICE**

2 **Q WOULD YOU PLEASE COMMENT ON THE BASIC PURPOSE OF A CCOS**  
3 **STUDY?**

4 **A** After the utility's overall cost of service (or revenue requirement) is determined,  
5 a CCOS study is used to allocate the cost of service among the utility's customer  
6 classes. A CCOS study shows the extent to which each customer class  
7 contributes to the total cost of the system. For example, when a class produces  
8 the same rate of return as the total system, it returns to the utility just enough  
9 revenues to cover the costs incurred in serving that class (including a  
10 reasonable authorized return on investment). If a class produces a rate of return  
11 below the system average, the revenues it provides for the utility are insufficient  
12 to cover all relevant costs. If, on the other hand, a class produces a rate of  
13 return above the average, then that class pays revenues sufficient to cover the  
14 costs attributable to it, and it also pays for part of the costs attributable to other  
15 classes that produce below-average rates of return. The CCOS study therefore  
16 is an important tool, because it shows the revenue requirement or cost of service  
17 for each class along with the rate of return under current rates and any proposed  
18 rates.

1    **Q     SHOULD A CLASS’S RATES ALWAYS BE MOVED TO FULL COST OF**  
2    **SERVICE BASED ON THE RESULTS OF THE UTILITY’S CCOS STUDY?**

3    A     To the extent possible, a utility’s rates for its classes should be based on each  
4    class’s respective cost of service. However, in instances where a full movement  
5    to cost of service for a utility’s rates would cause rate shock for a particular  
6    customer class or classes, gradualism can be used to mitigate the impacts on  
7    customer classes and avoid rate shock. For example, the increase in current  
8    rates for a particular class or classes could be limited to a certain multiple of the  
9    system average increase in order to avoid rate shock and recognize the  
10   principle of gradualism.

11                                   **III. DEU’S CLASS COST OF SERVICE STUDY**

12   **Q     HAVE YOU REVIEWED THE CCOS STUDY PREPARED BY DEU IN THIS**  
13   **PROCEEDING?**

14   A     Yes. I have reviewed the CCOS study prepared by Company witness Austin C.  
15   Summers in his direct testimony, DEU Exhibit 4.0.

16   **Q     IN ITS CCOS STUDY, HOW DOES THE COMPANY ALLOCATE THE COST**  
17   **OF DISTRIBUTION MAINS TO CLASSES?**

18   A     DEU proposes to divide its distribution main investments into three categories:  
19   small-diameter (6 inches or smaller) intermediate high-pressure (“IHP”) mains,  
20   large-diameter (greater than 6 inches) IHP mains, and high-pressure feeder-line

1 mains. Distribution mains are typically the largest cost rate base item for a local  
2 distribution gas utility.

3 The costs of small-diameter IHP mains are allocated to classes by the  
4 Company's Distribution Plant Factor study used to determine the amount of  
5 small mains necessary to provide service to customers.

6 The costs of large-diameter IHP mains connecting the small-diameter  
7 IHP mains to the high-pressure feeder-line mains are allocated to classes by  
8 the Company's Distribution Throughput Study which allocates cost to customer  
9 classes based on class throughput or commodity volumes.

10 The costs of high-pressure feeder-line mains are allocated to classes by  
11 a weighted-average combination of Design Day Demand (60%) and annual  
12 usage or commodity throughput (40%). The combination of these factors  
13 results in a composite allocation factor that is generally known as the P&A  
14 allocation factor.

15 **Q DO YOU OPPOSE THE COMPANY'S PROPOSAL FOR ALLOCATING THE**  
16 **COST OF SMALL-DIAMETER IHP MAINS TO CUSTOMER CLASSES?**

17 **A** No, I do not. The Company's proposal results in allocating small-diameter IHP  
18 main costs to the customer classes that actually utilize small-diameter IHP  
19 mains. This allocator also appears to recognize the cost to connect customers  
20 to the Company's system of mains. Utilities design their system of mains to not



1           only meet system peak demands but also to connect customers to the system  
2           of mains. As a result, I do not oppose this allocation.

3   **Q       HOW DO UTILITIES TYPICALLY REFLECT THE COSTS OF CONNECTING**  
4   **CUSTOMERS TO THE SYSTEM?**

5   A       They either use a small mains adjustment or a minimum system study. A small  
6           mains adjustment essentially removes the costs of small mains from large high  
7           load factor classes. Based on my review, the Company's proposed allocation  
8           of small diameter IHP costs is essentially a small mains adjustment and results  
9           in very little small main costs allocated to large high load factor classes.

10 **Q       DO LARGE TRANSPORTATION CUSTOMERS TYPICALLY UTILIZE**  
11 **SMALL-DIAMETER DISTRIBUTION MAINS?**

12 A       No, they do not. Large, high load factor transportation customers typically do  
13           not utilize small-diameter mains because they are incapable of delivering the  
14           quantity of gas supply that these customers require. As a result, these  
15           customers are typically allocated a small amount of the costs of small-diameter  
16           mains.

17           A review of the Company's CCOS study shows that the Company's  
18           Distribution Plant Factor study does indeed allocate very little small-diameter  
19           IHP main costs to customer classes with larger gas demands. For example, the

1 TSL class is allocated 0.007% of the costs of small-diameter mains, which is a  
2 logical result.

3 **Q THAT BEING SAID, DO YOU AGREE THAT DEU'S PROPOSED CCOS**  
4 **STUDY BEST REFLECTS CLASS COST OF SERVICE?**

5 A No, I do not. I disagree with DEU's proposal in its CCOS study to allocate some  
6 categories of distribution main costs largely on annual usage or commodity  
7 throughput instead of on class contributions to the system peak day. As  
8 explained above, large-diameter IHP main costs are allocated on commodity  
9 throughput by the Company; high-pressure feeder-line main costs are allocated  
10 on the P&A method. Allocating a portion of main costs on annual usage or  
11 commodity throughput does not reflect sound cost of service principles.

12 Based on the results of the Company's CCOS study used to guide  
13 revenue allocation, the TSL class would see a proposed increase of 65.53%. It  
14 does not seem logical that this class would receive this large of an increase.

15 The large increase is driven by the Company's use of the P&A allocation  
16 for feeder mains costs. Feeder mains are the largest component of  
17 Account 376, distribution mains, accounting for approximately 55% of the total  
18 main plant cost.

1    **Q     DO THE RESULTS OF THE ALLOCATION OF THE FEEDER MAINS COSTS**  
2        **TO THE TSL CLASS SEEM LOGICAL?**

3    A     No. According to the testimony of Mr. Summers at page 22, there are 826  
4        customers in the TSS class, compared to 30 customers in the TSL class. Both  
5        the TSL class and the TSS class have almost the same Design Day Demands,  
6        resulting in the same Design Day Demand allocator of 4.2% as shown in DEU  
7        Exhibit 4.20. However, in that same exhibit, the P&A allocator for the TSL class  
8        is 8.3% vs. 4.3% for the TSS class. It is not logical for two customer classes  
9        with essentially the same Design Day Demands being allocated such disparate  
10       percentage of main costs and resulting in much different increases in present  
11       rates. The reason is due to the use of volume in the allocation of mains costs.

12   **Q     IS THE P&A METHOD A LOGICAL METHOD OF COST ALLOCATION?**

13   A     No. The P&A method typically uses the annual system load factor to determine  
14        the percentage of fixed delivery system investment allocated on annual system  
15        throughput. As load factor, which is a measure of system efficiency, increases,  
16        the percentage of transmission plant cost allocated on system throughput  
17        increases. Large manufacturing customers use gas consistently throughout the  
18        year and increase system load factor. Therefore, the P&A method is illogical  
19        because it allocates even more costs to those customers that increase system  
20        load factor and punishes efficient usage.

1    **Q     IS THE P&A METHOD A TRUE COST ALLOCATION METHOD?**

2    A     No. The P&A method is not a true cost allocation method as it introduces load  
3       factor to temper costs between high load factor and low load factor customer  
4       classes. Essentially, the P&A method introduces customer class cost mitigation  
5       into the cost allocation process. This is inappropriate. Instead, costs should  
6       first be allocated on cost causation, as is done with the Design Day Demand  
7       method. After costs are properly allocated to customer classes, any necessary  
8       cost mitigation to prevent rate shock for particular customer classes should then  
9       be addressed through the class revenue allocation process.

10   **Q     DO ALL CUSTOMERS BENEFIT FROM A MORE EFFICIENT SYSTEM?**

11   A     Yes. More throughput without an increase in demand makes the system more  
12       efficient and reduces costs to all ratepayers. If the system load factor improves  
13       (increased throughput without an increase in peak demand), the system would  
14       be more efficient and fixed costs per unit would decrease. However, the P&A  
15       method's cost allocation formula would unfairly increase the allocation on  
16       throughput and punish the higher load factor classes that are responsible for  
17       increasing the efficiency of the system. The use of average throughput  
18       penalizes customers that exhibit efficient gas consumption (higher load factors).  
19       Under-utilization of the system should not be rewarded since it results in higher  
20       per unit prices for all customers.

1           Furthermore, the P&A method penalizes high load factor customer  
2 classes by ignoring economies of scale. Economies of scale are recognized  
3 when a gas utility sizes its distribution mains to satisfy the Design Day Demand  
4 requirements of its customer classes. The concept of economies of scale drives  
5 overall costs incurred by a gas utility for its gas distribution mains and these  
6 economies of scale are reflected in the Company's embedded costs of  
7 distribution mains. However, economies of scale affect the sizing of distribution  
8 mains, but not the allocation of their resulting costs. The economies of scale  
9 are created by the interaction of the capacity requirements of all its customer  
10 classes. A typical gas utility does not plan for the needs of its distribution system  
11 by examining the capacity requirements of any one customer class or by  
12 conducting capacity planning by disaggregating its capacity needs into average  
13 demand requirements and peak demand requirements. Instead, it examines its  
14 capacity needs in the aggregate based on the peak demands on its design day  
15 for all of its customer classes.

16           The flaw in the P&A allocation method becomes evident for a customer  
17 class that exhibits a high load factor. According to the P&A allocation method,  
18 this class should not receive any economies of scale benefits because the  
19 class's average demand is high relative to its peak demand. Yet, this class  
20 should receive economies of scale benefits just as any other class to the extent  
21 the capacity requirements of this class at the time these customers were

1 connected to the gas utility's distribution system created economies of scale in  
2 the costs of expanding the system of mains to accommodate them.

3 From a purely cost causation perspective, transmission and distribution  
4 main investments are simply not a function of throughput. Instead, they are a  
5 function of the cumulative Design Day Demand of those customers served by  
6 those transmission and distribution main investments.

7 **Q PLEASE EXPLAIN WHY DESIGNING THE DELIVERY CAPACITY OF THE**  
8 **UTILITY BASED ON DESIGN DAY DEMANDS ALLOWS THE UTILITY TO**  
9 **JUSTIFY ITS DELIVERY MAIN INVESTMENT BASED ON DEMANDS FOR A**  
10 **SINGLE DAY.**

11 A Distribution mains are used to provide service every day of the year including  
12 the peak day, as well as the daily demand on non-peak days throughout the  
13 year. In order to achieve this year-round service objective, the capacity of the  
14 delivery mains must be able to meet the system coincident Design Day Demand  
15 and each rate class's daily demands. As a result, measures of utilization (e.g.,  
16 average demand, or annual throughput), have no bearing on the delivery  
17 capacity cost that customers are causing the utility to incur.

18 A utility varies the pressure and amount of gas in the mains to meet the  
19 demands of all rate classes, and the system, every day of the year. However,  
20 the fixed cost of transmission and distribution main capacity designed to meet  
21 the system peak demand remains the same every day of the year, irrespective

1 of operating pressure and capacity utilization of the mains. Therefore, there is  
2 no causal link between the cost of transmission and distribution main capacity  
3 and annual throughput.

4 **Q ON A NON-PEAK DAY, IS THE EXCESS AVAILABLE MAIN CAPACITY**  
5 **USED TO MEET THE DEMAND OF HIGH LOAD FACTOR CUSTOMERS?**

6 A No. Relative to lower load factor weather-sensitive customers, higher load  
7 factor customers more efficiently and consistently utilize the main capacity  
8 installed to meet their coincident peak Design Day Demand. The excess  
9 available main capacity on non-peak days exists due to weather-sensitive  
10 demand, and is held in reserve for weather-sensitive customers for when their  
11 demands spike on peak days. This excess capacity is not used to meet the  
12 demands of higher load factor, non-weather-sensitive customers throughout the  
13 year when it is not needed to serve weather-sensitive customers. Rather, as  
14 noted above, the capacity installed to serve all rate classes demands on the  
15 peak day, is also used to serve their daily demands, but at a lower operating  
16 pressure than what is required on a peak day.

1    **Q    WHY DOES ALLOCATING A PORTION OF DISTRIBUTION MAIN COSTS**  
2           **ON AN ANNUAL USAGE OR COMMODITY THROUGHPUT BASIS NOT**  
3           **REFLECT SOUND COST OF SERVICE PRINCIPLES?**

4    A    When a gas distribution utility is considering whether to engage in a particular  
5           expansion of its distribution mains capacity, it must first determine the proper  
6           size and cost of the expansion. In making this determination, the key  
7           consideration is the customer classes' expected usage of the mains on the  
8           system peak day. The expected usage on the system peak day dictates the  
9           need for an expansion as well as the proper size of the expanded mains, which,  
10          in turn, dictates the total cost of the project. The cost of the expansion is a  
11          function of the anticipated peak day usage – and that cost is *the same*  
12          regardless of when customers are expected to use gas. For example, the cost  
13          is the same regardless of whether customers are expected to use gas  
14          throughout the year or during only a part of the year (i.e., the winter months).

15   **Q    IS ANNUAL USAGE OR COMMODITY THROUGHPUT A DESIGN**  
16          **CRITERION FOR A TYPICAL GAS DISTRIBUTION COMPANY FACILITY?**

17   A    No, it is not. To be sure, annual usage or commodity throughput is certainly a  
18          factor that should be and is considered in identifying the variable cost of  
19          operating the gas system. However, annual usage does not determine the  
20          amount of system peak capacity that is necessary to provide firm (i.e.,  
21          non-interruptible) service to every customer every day of the year. Rather, the



1 actual physical size of the distribution mains, regulators, compressors, and  
2 related equipment is based on customers' contributions to the system Design  
3 Day Demand. The system's capacity must be sized for Design Day Demand,  
4 so that all customers can utilize that system capacity to receive a firm,  
5 uninterrupted supply of gas every day of the year, including the day of the  
6 system peak demand.

7 **Q DOES THE COMPANY'S PROPOSAL TO ALLOCATE A PORTION OF THE**  
8 **COSTS OF DISTRIBUTION MAINS BASED ON ANNUAL USAGE OR**  
9 **COMMODITY THROUGHPUT BEST REFLECT CLASS COST CAUSATION?**

10 A No, it does not. The Company's proposal fails to meet the cost of service  
11 principle of cost causation. As explained above, a typical gas utility (including  
12 DEU) does not use annual usage or commodity throughput to design its  
13 distribution facilities. Rather, it designs the distribution system based on its  
14 customers' contributions to the system's Design Day Demand and to connect  
15 customers to the system. Therefore, allocating the capacity-related costs  
16 associated with distribution mains (including both rate base and expenses) on  
17 the basis of annual usage or commodity throughput is inappropriate because it  
18 does not reflect how the costs are incurred by the Company.

1    **Q    IN ADDITION TO THE FACT THAT IT DOES NOT BEST REFLECT SOUND**  
2           **COST OF SERVICE PRINCIPLES, ARE THERE OTHER PROBLEMS WITH**  
3           **ALLOCATING DISTRIBUTION MAIN COSTS ON THE BASIS OF ANNUAL**  
4           **USAGE OR COMMODITY THROUGHPUT?**

5    A    Yes. In particular, allocating costs based on annual usage or commodity  
6           throughput is unfair to the customers that make more efficient use of the  
7           facilities. This can best be illustrated by reference to a simple generic example.  
8           Assume that utility Customer A uses 5 Dth each and every day of the year (an  
9           annual total of 1,825 Dth), and that utility Customer B, who is located directly  
10          across the street, uses 5 Dth for 180 days of the year, including the peak day,  
11          but nothing the rest of the year (an annual total of 900 Dth). Assume, further,  
12          that the annualized investment cost of the main needed to serve these two  
13          customers is \$3,000. The total annual usage of the two customers is 2,725 Dth,  
14          of which approximately two-thirds is attributable to Customer A and  
15          approximately one-third to Customer B.

16                 In order to serve these customers, the gas company must construct a  
17                 main capable of delivering 10 Dth of Design Day capacity on the peak day  
18                 (Customer A's 5 Dth plus Customer B's 5 Dth). Because each customer uses  
19                 one-half of the firm main capacity on the peak day, it seems reasonable that  
20                 they should share equally in the cost – both would pay \$1,500. In fact, that is  
21                 how the costs would be shared under a demand-based allocation.

1           The results would be quite different, however, if the distribution main  
2 costs were allocated based on annual usage. In that situation, Customer A  
3 would be allocated \$2,000 (2/3 of the total \$3,000 cost) while Customer B would  
4 be allocated just \$1,000 (1/3 of the total \$3,000 cost) because it does not use  
5 the facility's capacity for six months of the year. Thus, the fact that Customer A  
6 uses the facility efficiently every day of the year will cause Customer B to save  
7 money, but Customer B's less efficient use will cause Customer A to pay  
8 additional money. In fact, Customer A would likely be much better off if the gas  
9 company simply built a dedicated main with a capacity of 5 Dth solely to serve  
10 Customer A's load. Similarly, Customer B would likely be worse off if it had to  
11 pay for its own dedicated main.

12           With proper cost allocation, both customers should be better off sharing  
13 a facility because there would be economies of scale resulting from the larger  
14 capacity main.

15 **Q   DOES ALLOCATING THE DISTRIBUTION MAIN COSTS BASED ON**  
16 **ANNUAL USAGE OR COMMODITY THROUGHPUT CREATE AN**  
17 **UNBALANCED ALLOCATION OF SUCH COSTS AMONG CUSTOMER**  
18 **CLASSES?**

19 **A   Yes.** In the example above, even though both Customer A and Customer B  
20 have the same Design Day Demand, they effectively pay different costs of  
21 capacity per unit of Design Day Demand when costs are allocated based on

1 annual usage or commodity throughput. The total capacity cost incurred by the  
2 gas distribution company is \$300 per Dth of Design Day capacity  
3 (\$3,000/10 Dth). However, the higher annual usage Customer A pays \$400 per  
4 Dth of Design Day capacity (\$2,000/5 Dth), while the lower annual usage  
5 Customer B pays \$200 per Dth of Design Day capacity (\$1,000/5 Dth). Thus,  
6 under an annual usage-based allocation, a customer that utilizes the distribution  
7 system more efficiently pays a premium for Design Day capacity (\$400 per Dth  
8 - \$200 per Dth = \$200 per Dth) above what a customer that uses the system  
9 less efficiently must pay. This occurs despite the fact that the two customers  
10 have the same demands and have equal rights to Design Day capacity on the  
11 system peak day, and despite the fact that the average cost of Design Day  
12 capacity incurred by the utility is \$300 per Dth.

13 This simple example illustrates why it is unreasonable to allocate  
14 distribution main costs on the basis of annual usage, when such costs are  
15 incurred to ensure adequate capacity on the system peak day for all customers  
16 that require firm service throughout the year.

17 **Q DO YOU HAVE ADDITIONAL CONCERNS WITH THE COMPANY'S**  
18 **ALLOCATION OF HIGH-PRESSURE FEEDER-LINE MAIN COSTS ON THE**  
19 **P&A METHOD?**

20 **A** Yes. A major problem with the P&A allocator is the fact that it double counts  
21 the average component of demand. Thus, total usage, or average demand, is

1 counted twice in the allocation of main costs – once in the peak allocation and  
2 again in the average allocation. The impact of using the P&A method to allocate  
3 main costs is the over-allocation of capacity-related costs to high load factor  
4 customers who make efficient use of the Company’s system of mains.

5 **Q ARE THERE ANY AUTHORITIES THAT RECOGNIZE THE FACT THAT**  
6 **DISTRIBUTION MAIN COSTS ARE APPROPRIATELY ALLOCATED ON**  
7 **THE BASIS OF PEAK DEMANDS?**

8 A Yes. The National Association of Regulatory Utility Commissioners (“NARUC”)  
9 recognizes that distribution main costs should be allocated to customer classes  
10 based on: (1) Design Day Demands for the demand component of main costs;  
11 and (2) number of customers for the customer component of main costs. In this  
12 regard, the NARUC *Gas Distribution Rate Design Manual* (“NARUC Manual”)  
13 states as follows:

14 Demand or capacity costs vary with the size of plant and  
15 equipment. They are related to maximum system requirements  
16 which the system is designed to serve during short intervals **and**  
17 **do not directly vary with the number of customers or their**  
18 **annual usage.** Included in these costs are: the capital costs  
19 associated with production, transmission and storage plant and  
20 their related expenses; the demand cost of gas; **and most of the**  
21 **capital costs and expenses associated with that part of**  
22 **distribution plant not allocated to customer costs, such as**  
23 **the costs associated with distribution mains in excess of the**  
24 **minimum size.**<sup>1</sup>

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<sup>1</sup>NARUC *Gas Distribution Rate Design Manual* at 23-24 (June 1989) (emphasis added).

1 Thus, NARUC recognizes that distribution main cost is not related to or caused  
2 by annual usage (i.e., throughput or commodity), but rather by peak demands  
3 and the number of customers.

4 **Q SHOULD A COST ALLOCATION METHOD REFLECT HOW COSTS ARE**  
5 **ACTUALLY INCURRED ON THE COMPANY'S DISTRIBUTION SYSTEM?**

6 A Yes. A utility's selection of a particular cost allocation method should be based  
7 on whether that allocation method appropriately reflects class cost causation  
8 and results in rates that provide accurate price signals to its customers.

9 Because rates should reflect class cost causation, the costs used in  
10 setting rates should be allocated to classes based on how each class causes  
11 the costs to be incurred by the Company. Distribution mains are designed to  
12 meet the demands of customers, and not their annual gas usages. A utility  
13 incurs the cost to construct and operate distribution mains and related facilities  
14 to meet its customers' Design Day Demands. Therefore, Design Day Demand  
15 is an appropriate cost allocation method for allocating capacity-related capital  
16 costs and expenses, because it allocates costs based on how they are incurred.

17 Allocating costs based on how they are incurred is consistent with the  
18 NARUC *Gas Distribution Rate Design Manual*, which states that:

19 *Historic or embedded cost of service studies attempt to apportion*  
20 *total costs to the various customer classes in a manner consistent*  
21 *with the incurrence of those costs. This apportionment must be*

1 based on the fashion in which the utility's system, facilities and  
2 personnel operate to provide the service.<sup>2</sup>

3 **Q BUT DOESN'T THE COMPANY'S DISTRIBUTION SYSTEM ALLOW**  
4 **CUSTOMERS TO RECEIVE VOLUMES OF GAS THROUGHOUT THE**  
5 **YEAR?**

6 A I do not dispute that, after the distribution system is designed and constructed  
7 to meet Design Day Demand, customers use the system to receive volumes of  
8 gas throughout the year. However, if customers expect supply sufficient to meet  
9 their Design Day Demand, then they should pay for adequate distribution  
10 capacity to allow gas to be delivered every day to meet their expected demands,  
11 including days with above-average demands. Otherwise, they will not be  
12 allocated adequate capacity to deliver gas on days with above-average usage,  
13 which would be most cold days, and their service would be interrupted on all of  
14 those days.

15 It is the Design Day Demand which drives the capacity-related cost  
16 incurred in order to design, construct, implement and maintain a distribution  
17 system that is adequate to provide firm service throughout the year, including  
18 the system peak day, to all customers that want firm service. Distribution  
19 systems are sized based on Design Day Demands to ensure that firm gas  
20 supply can actually be delivered every single day of the year. Because cost

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<sup>2</sup>NARUC *Gas Distribution Rate Design Manual* at 20 (emphasis added).

1 causation is driven by Design Day Demand, distribution-related costs should be  
2 allocated based on Design Day Demand.

3 If the distribution system can meet the Design Day Demand of its  
4 customers, it can meet the demand of its customers on every single day of the  
5 year. Daily needs must be met, but the only way to ensure that will happen is  
6 through a system that is designed to meet the Design Day Demand. Only when  
7 the distribution main system is designed to meet the peak day demand of its  
8 classes is the Company able to deliver gas each and every day of the year to  
9 meet its customers' demands.

10 **Q ARE YOU AWARE OF ANY OTHER AUTHORITIES' POSITIONS ON THE**  
11 **CLASSIFICATION AND ALLOCATION OF GAS PIPELINE COSTS?**

12 A Yes. In its landmark Order No. 636, the Federal Energy Regulatory Commission  
13 ("FERC") endorsed the straight fixed variable ("SFV") cost methodology, which  
14 allocates fixed pipeline costs 100% on a demand basis. In the order, FERC  
15 states that:

16 The Commission believes that requiring SFV comports with and  
17 promotes Congress' goal of a national gas market as discussed  
18 above and goes hand-in-hand with the equity principle.

19 \* \* \*

20 Moreover, the Commission's adoption of SFV should maximize  
21 pipeline throughput over time by allowing gas to compete with  
22 alternative fuels on a timely basis as the prices of alternate fuels  
23 change. The Commission believes it is beyond doubt that it is in  
24 the national interest to promote the use of clean and abundant



1 natural gas over alternate fuels such as foreign oil. SFV is the  
2 best method for doing that.<sup>3</sup>

3 The SFV allocation method endorsed by FERC appropriately treats fixed  
4 pipeline costs as demand-related. Similarly, distribution main costs on DEU's  
5 system should be treated as demand-related, except for those costs that are  
6 classified as customer-related. (Interstate pipelines do not normally use a  
7 customer component in allocating costs. Because they are designed to  
8 transport gas from the production area to local distribution companies, their  
9 costs are driven predominantly by demand, and not by the need to connect  
10 individual small customers to the interstate pipeline.)

11 **Q WHAT IS YOUR RECOMMENDATION WITH RESPECT TO CCOS?**

12 A I recommend that the costs of large-diameter IHP mains and high-pressure  
13 feeder-line mains should be allocated on a Design Day Demand basis to  
14 accurately reflect cost causation.

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<sup>3</sup>*Pipeline Service Obligations and Revisions to Regulations Governing Self-Implementing Transportation; and Regulation of Natural Gas Pipelines After Partial Wellhead Decontrol*, Order No. 636 at 127-29 (Apr. 8, 1992).

1    **Q    DO YOU RECOMMEND THAT THE TRANSPORTATION CLASS BE SPLIT**  
2           **INTO THE TSS, TSM, AND TSL CLASSES AS PROPOSED BY THE**  
3           **COMPANY?**

4    A    If the allocation of distribution mains costs occurs on a Design Day Demand  
5           basis, I do not oppose the TS class split proposed by DEU. However, if the  
6           Company's use of the P&A method is accepted by the Commission, I  
7           recommend the split be rejected. The proposed TS class split combined with  
8           the use of the P&A method for the allocation of feeder main costs only further  
9           punishes the high load factor TSL class customers and increases the subsidy  
10          paid by these customers to other classes.

11   **Q    DO YOU HAVE ANY OTHER RECOMMENDATIONS WITH RESPECT TO**  
12          **THE CCOS?**

13   A    Yes. For compressors and regulator facilities, according to the Company's  
14          CCOS study provided as DEU Exhibit 4.20, the Company is also proposing to  
15          allocate these costs on the basis of the P&A method. Compressors and  
16          regulators are sized to accommodate the peak day demands of the customers  
17          on the distribution mains. Therefore, these facilities' costs should be allocated  
18          across rate classes on the basis of 100% demand.

19                 The Company has allocated these costs on the basis of the P&A method.  
20                 However, I propose to allocate them on the basis of Design Day Demand.  
21                 These costs are also incurred to meet system Design Day Demand and should

1 be allocated to rate classes using the Design Day Demand allocator. This would  
2 result in cost allocation following cost causation.

3 Compressor stations and regulators are sized based on the size of mains  
4 and the demands on the system. As such, this equipment is designed to meet  
5 the peak day demands of the customers on it. If customers' demands vary from  
6 peak day, the size of this equipment does not change throughout the year, but  
7 rather is held on reserve for each customer until they need the compressor or  
8 regulator capacity on the Company's peak day demands. For these reasons,  
9 this equipment is sized and engineered in order to support the peak day  
10 demands of the customers connected to the distribution system.

11 Allocating this equipment on the basis of Design Day Demand is also  
12 consistent with NARUC. The NARUC Manual identifies distribution costs to  
13 include distribution mains, compressors, and regulators.<sup>4</sup> NARUC notes an  
14 advantage of allocating and pricing fixed costs on demand charges as it allows  
15 for a pricing structure that more closely reflects the actual costs incurred by the  
16 utility for providing service.

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<sup>4</sup>*Gas Distribution Rate Design Manual*, NARUC Staff Subcommittee on Gas, June 1989, at 21-24.

1 Q HAVE YOU PREPARED A CCOS STUDY THAT ALLOCATES  
2 LARGE-DIAMETER IHP MAIN COSTS AND HIGH-PRESSURE  
3 FEEDER-LINE MAIN COSTS ON A DESIGN DAY DEMAND BASIS?

4 A Yes. In addition, I have also allocated the Company's compressor and regulator  
5 fixed costs on a Design Day Demand basis in my proposed CCOS study. As  
6 explained earlier, this equipment must also be sized to meet system peak day  
7 demands.

8 Q DOES ALLOCATING DISTRIBUTION MAIN COSTS ON COINCIDENT  
9 DESIGN DAY DEMAND ALLOCATE A PORTION OF MAIN COSTS ON  
10 AVERAGE DEMANDS OR COMMODITY THROUGHPUT?

11 A Yes. Like the P&A method, it does allocate a portion of demand-related costs  
12 on the basis of annual usage or commodity throughput because average  
13 demand is a subset of Design Day Demand. However, unlike the P&A method,  
14 the coincident Design Day Demand counts average demand (annual usage or  
15 commodity throughput divided by 365 days) only once when developing the cost  
16 allocation factor.

17 Q HOW DO THE RESULTS OF YOUR PROPOSED CCOS STUDY COMPARE  
18 TO THE RESULTS OF DEU'S PROPOSED CCOS STUDY?

19 A This is shown in Table 1 below.

**TABLE 1**

**Class Cost of Service Study Comparison**

<b>Rate Class</b>	<b>DEU Proposed<sup>1</sup></b>			<b>FEA Proposed<sup>2</sup></b>		
	<b>Present Non-Gas Revenues</b>	<b>COSS Incr./Decr.</b>	<b>Percent Incr./Decr.</b>	<b>Present Non-Gas Revenues</b>	<b>COSS Incr./Decr.</b>	<b>Percent Incr./Decr.</b>
	<b>(1)</b>	<b>(2)</b>	<b>(3)</b>	<b>(4)</b>	<b>(5)</b>	<b>(6)</b>
<b>GS</b>	\$ 391,822,088	\$ 54,421,565	13.89%	\$ 392,104,074	\$ 67,721,598	17.27%
<b>FS</b>	\$ 2,874,843	\$ 1,117,044	38.86%	\$ 2,865,605	\$ 618,773	21.59%
<b>IS</b>	\$ 267,754	\$ (17,371)	-6.49%	\$ 264,806	\$ (172,727)	-65.23%
<b>TSS</b>	\$ 14,438,531	\$ (1,744,116)	-12.08%	\$ 14,432,342	\$ (2,145,494)	-14.87%
<b>TSM</b>	\$ 14,201,397	\$ 2,874,678	20.24%	\$ 14,123,545	\$ (1,054,042)	-7.46%
<b>TSL</b>	\$ 11,451,583	\$ 7,117,238	62.15%	\$ 11,282,946	\$ (669,074)	-5.93%
<b>TBF</b>	\$ 4,883,040	\$ 6,197,995	126.93%	\$ 4,867,847	\$ 5,771,228	118.56%
<b>NGV</b>	\$ 2,615,861	\$ 544,656	20.82%	\$ 2,613,932	\$ 441,426	16.89%
<b>Total</b>	\$ 442,555,098	\$ 70,511,689	15.93%	\$ 442,555,098	\$ 70,511,689	15.93%

Sources:  
<sup>1</sup>DEU Exhibit 4.20  
<sup>2</sup>FEA Cost of Service Workpaper

1 As shown in the table, instead of the large increase for the TSL class as  
 2 proposed by the Company, my CCOS study indicates that the TSL class should  
 3 actually receive a rate decrease, along with other transportation classes.  
 4 Because the Company's CCOS study allocates main costs using annual usage  
 5 or commodity throughput, larger high load factor customer classes are allocated  
 6 a higher percentage of main costs. As previously explained, because the  
 7 Company does not use annual usage or commodity throughput to design the  
 8 capacity of its main system, utilizing annual usage or commodity throughput to  
 9 allocate the costs of mains to customer classes does not follow cost causation.

1    **Q     WHAT IS YOUR RECOMMENDATION REGARDING YOUR CCOS STUDY?**

2    A     I recommend that my CCOS study guide class revenue allocation and rate  
3         design in this proceeding. This is reasonable because my CCOS study best  
4         reflects class cost causation by allocating the cost of distribution mains based  
5         on how the Company designs its system and incurs the cost of installing the  
6         mains – to meet the coincident Design Day Demand of its customer classes.

7                                 **IV. DISTRIBUTION OF GAS REVENUE INCREASE**

8    **Q     HAVE YOU REVIEWED DEU’S PROPOSAL FOR DISTRIBUTING ITS**  
9         **REQUESTED REVENUE INCREASE TO THE VARIOUS RATE CLASSES?**

10   A     Yes. DEU proposes to move all classes to cost of service, except for the  
11         Transportation Bypass Firm (“TBF”) class.

12   **Q     WHAT IS THE COMPANY’S PROPOSED REVENUE INCREASE FOR THE**  
13         **TSL CLASS?**

14   A     The Company’s proposed increase for the TSL class is approximately 65.53%.  
15         The Company’s CCOS study results indicate that the TSL class would need an  
16         approximate 62.15% increase in current rates to bring it to cost of service, plus  
17         it provides a subsidy to the TBF class under the Company’s proposal for class  
18         revenue allocation.

1    **Q    IS THE COMPANY’S PROPOSED REVENUE INCREASE FOR THE TSL**  
2    **CLASS REASONABLE?**

3    A    No. For the reasons detailed above, the Company’s CCOS study is flawed  
4    because it allocates large-diameter IHP main costs and high-pressure feeder-  
5    line main costs partially on annual usage or commodity throughput. Annual  
6    usage or commodity throughput is not a correct basis to measure class revenue  
7    responsibility.

8    **Q    HAVE YOU DEVELOPED YOUR OWN CLASS REVENUE ALLOCATION OF**  
9    **THE COMPANY’S REQUESTED RATE INCREASE BASED ON THE**  
10   **RESULTS OF YOUR CCOS STUDY?**

11   A    Yes. My proposed class revenue allocation is guided by my proposed CCOS  
12   study and is shown in the table below:

**TABLE 2**

**Class Revenue Allocation Comparison**

<b>Rate Class</b>	<b>DEU Proposed<sup>1</sup></b>			<b>FEA Proposed<sup>2</sup></b>		
	<b>Present Non-Gas Revenues</b>	<b>Proposed Incr./Decr.</b>	<b>Percent Incr./Decr.</b>	<b>Present Non-Gas Revenues</b>	<b>Proposed Incr./Decr.</b>	<b>Percent Incr./Decr.</b>
	<b>(1)</b>	<b>(2)</b>	<b>(3)</b>	<b>(4)</b>	<b>(5)</b>	<b>(6)</b>
<b>GS</b>	\$ 391,822,088	\$ 57,909,354	14.78%	\$ 392,104,074	\$ 68,288,109	17.42%
<b>FS</b>	\$ 2,874,843	\$ 1,173,453	40.82%	\$ 2,865,605	\$ 618,773	21.59%
<b>IS</b>	\$ 267,754	\$ (14,449)	-5.40%	\$ 264,806	\$ -	0.00%
<b>TSS</b>	\$ 14,438,531	\$ (1,542,423)	-10.68%	\$ 14,432,342	\$ -	0.00%
<b>TSM</b>	\$ 14,201,397	\$ 3,166,800	22.30%	\$ 14,123,545	\$ -	0.00%
<b>TSL</b>	\$ 11,451,583	\$ 7,503,726	65.53%	\$ 11,282,946	\$ -	0.00%
<b>TBF</b>	\$ 4,883,040	\$ 1,765,581	36.16%	\$ 4,867,847	\$ 1,163,381	23.90%
<b>NGV</b>	\$ 2,615,861	\$ 549,647	21.01%	\$ 2,613,932	\$ 441,426	16.89%
<b>Total</b>	\$ 442,555,098	\$ 70,511,689	15.93%	\$ 442,555,098	\$ 70,511,689	15.93%

Sources:  
<sup>1</sup>DEU Exhibit 4.20  
<sup>2</sup>FEA Cost of Service Workpaper

1           My proposed class revenue allocation is based on the Company's fully  
 2 requested revenue requirement. To the extent that the Commission reduces  
 3 the Company's requested revenue requirement, I would propose that any  
 4 decrease be spread to customer classes on an equal percent basis after my  
 5 class revenue allocation is implemented at the Company's fully requested  
 6 revenue requirement.

7   **Q    HOW DID YOU DEVELOP YOUR CLASS REVENUE ALLOCATION?**

8   A    First, I utilized the principle of gradualism and limited classes to no more than  
 9 1.5 times the system average increase of 15.93%. I then held classes that



1 would get a rate decrease at full cost of service, to no change in current rates.

2 This revenue difference was then used to offset the increase to the TBF class.

3 **Q WHY DO YOU BELIEVE YOUR PROPOSED CLASS REVENUE**  
4 **ALLOCATION IS REASONABLE?**

5 A Based on the results of my CCOS study, the TSL class and other transportation  
6 classes should actually get a rate decrease. As a result, my class revenue  
7 allocation is more than fair. My proposal is a compromise between setting rates  
8 at full cost of service based on a CCOS study that uses Design Day Demand to  
9 allocate the costs of mains, and a CCOS study that uses annual usage or  
10 commodity throughput (large-diameter IHP mains) plus the P&A method (high-  
11 pressure feeder-line mains) to allocate the costs of mains to customer classes.

12 **Q TO THE EXTENT THE COMMISSION ACCEPTS THE COMPANY'S CCOS**  
13 **STUDY FOR GUIDING CLASS REVENUE ALLOCATION, WHAT IS YOUR**  
14 **RECOMMENDATION?**

15 A I recommend that no class receive a rate increase greater than 1.5 times the  
16 system average increase approved by the Commission.

1 **V. DEU'S PROPOSED RATE DESIGN**

2 **Q DOES THE COMPANY PROPOSE TO RETAIN ITS INFRASTRUCTURE**  
3 **RATE ADJUSTMENT TRACKER MECHANISM ("IRAT")?**

4 A Yes. The Company is requesting that the program be allowed to continue as it  
5 has previously been approved by the Commission. The Company also refers  
6 to the program as the Infrastructure Tracker Program ("ITP"). The Company's  
7 proposal is described in the direct testimony of Kelly B. Mendenhall, DEU  
8 Exhibit 1.0.

9 **Q IS THE COMPANY PROPOSING ANY CHANGES TO THE IRAT?**

10 A No. According to Mr. Mendenhall, the Company is not proposing any  
11 substantive changes to the program.

12 **Q WHAT TYPES OF INVESTMENTS ARE ELIGIBLE FOR THE IRAT?**

13 A IRAT eligible investments include new high-pressure gas feeder lines and  
14 intermediate high pressure gas lines that replace aging high-pressure gas  
15 feeder lines and intermediate high pressure gas lines.

16 **Q IN THE EVENT THE COMMISSION DOES APPROVE THE COMPANY'S**  
17 **PROPOSAL FOR THE IRAT, DO YOU HAVE ANY SUGGESTED CHANGES?**

18 A Yes. DEU's capital investment costs from the replacement of IRAT eligible  
19 investments should be synchronized with the investment costs included in base

1 rates. Currently, base rates include the recovery “of” and “on” investments  
2 classified as high-pressure gas feeder lines and intermediate high pressure gas  
3 lines. Much of this investment is not subject to replacement currently through  
4 the IRAT.

5 Specifically, the Commission should ensure that DEU’s investment  
6 included in base rates is synchronized with the incremental eligible investment  
7 subject to the IRAT. Synchronizing a utility’s total investments is fair to both the  
8 utility and its customers, and will ensure that a utility does not recover excessive  
9 charges from its customers.

10 **Q WHAT IS YOUR SPECIFIC RECOMMENDATION?**

11 A The level of depreciation expense included in base rates associated with high-  
12 pressure gas feeder lines and intermediate high pressure gas lines should be  
13 used to offset the IRAT eligible investment prior to the rate of return calculation  
14 for the IRAT surcharge. This will ensure that the utility properly recovers the  
15 incremental revenue requirement associated with eligible infrastructure  
16 replacement and that the utility is not allowed to charge excessive surcharges  
17 through the IRAT.

18 Once rates are set in a rate case, depreciation expense continues to add  
19 to accumulated depreciation, which further reduces net plant, and results in a  
20 reduced rate base, thus reducing the rate of return component customers  
21 should be required to pay. The proposed IRAT surcharge does not reflect the

1 decline in rate base that has occurred since base rates were last set. Therefore,  
2 the utility is allowed a return on new plant under the surcharge, while not  
3 reflecting the decreased return on a reduced net plant balance from the other  
4 high pressure gas lines that are not subject to current IRAT replacement.

5 My proposal will synchronize the net plant balance for high pressure gas  
6 lines not currently subject to IRAT replacement with the increased net plant  
7 investment levels associated with the IRAT eligible investment. In this way,  
8 customers are not required to pay an increased return on IRAT investment.

9 **Q WHY SHOULD DEPRECIATION EXPENSE IN BASE RATES BE REQUIRED**  
10 **AS AN OFFSET TO RATE BASE WHEN DETERMINING THE**  
11 **APPROPRIATE LEVEL OF SURCHARGE REVENUE?**

12 A Depreciation expense that is already included in a utility's base rates can  
13 sometimes be sufficient to fund the capital investment necessary to replace a  
14 utility's aging or obsolete infrastructure. Using the depreciation expense in a  
15 utility's existing base rates to fund new infrastructure capital investment  
16 replaces depreciated utility rate base with new utility rate base. This can be  
17 illustrated with an example. Assume that a certain utility has annual rate case  
18 proceedings, and has \$10 million in annual depreciation expense and \$10  
19 million in annual new capital investment. Utility customers should be held  
20 harmless for the rate of return calculation in the base rate case proceedings,  
21 since the utility's base rates would go down as rate base decreased by \$10

1 million through depreciation, but that rate base is replaced by the new \$10  
2 million capital investment, causing the utility's rate base to go back up to the  
3 level where it started for purposes of calculating the rate of return component.

4 Now assume the utility implements a rider surcharge, without recognizing  
5 the declining value to existing rate base (depreciation offsets), instead of annual  
6 base rate proceedings. In the case of the utility recovering the incremental  
7 revenue requirement for new investment through a rider surcharge, customer  
8 rates would go up to account for the \$10 million spent by the utility on eligible  
9 infrastructure, but the surcharge would not reflect the reduction for the \$10  
10 million of depreciated rate base. Customers would pay higher rates, but do not  
11 get the benefit of any offsetting rate base reductions provided by depreciation  
12 expense included in existing base rates. If offsetting rate base reductions  
13 (depreciation offsets) are not considered in determining the appropriate level of  
14 surcharge revenue, it could result in excessive utility charges to customers.

15 **Q DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?**

16 **A** Yes, it does.

**Qualifications of Brian C. Collins**

1   **Q    PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

2    A    Brian C. Collins. My business address is 16690 Swingley Ridge Road, Suite  
3        140, Chesterfield, MO 63017.

4   **Q    WHAT IS YOUR OCCUPATION AND BY WHOM ARE YOU EMPLOYED?**

5    A    I am a consultant in the field of public utility regulation and a Managing Principal  
6        with the firm of Brubaker & Associates, Inc. ("BAI"), energy, economic and  
7        regulatory consultants.

8   **Q    PLEASE STATE YOUR EDUCATIONAL BACKGROUND AND WORK  
9        EXPERIENCE.**

10   A    I graduated from Southern Illinois University Carbondale with a Bachelor of  
11        Science degree in Electrical Engineering. I also graduated from the University  
12        of Illinois at Springfield with a Master of Business Administration degree. Prior  
13        to joining BAI, I was employed by the Illinois Commerce Commission and City  
14        Water Light & Power ("CWLP") in Springfield, Illinois.

15                My responsibilities at the Illinois Commerce Commission included the  
16        review of the prudence of utilities' fuel costs in fuel adjustment reconciliation  
17        cases before the Commission as well as the review of utilities' requests for  
18        certificates of public convenience and necessity for new electric transmission

1 lines. My responsibilities at CWLP included generation and transmission  
2 system planning. While at CWLP, I completed several thermal and voltage  
3 studies in support of CWLP's operating and planning decisions. I also  
4 performed duties for CWLP's Operations Department, including calculating  
5 CWLP's monthly cost of production. I also determined CWLP's allocation of  
6 wholesale purchased power costs to retail and wholesale customers for use in  
7 the monthly fuel adjustment.

8 In June 2001, I joined BAI as a Consultant. Since that time, I have  
9 participated in the analysis of various utility rate and other matters in several  
10 states and before the Federal Energy Regulatory Commission ("FERC"). I have  
11 filed or presented testimony before the Arkansas Public Service Commission,  
12 the California Public Utilities Commission, the Colorado Public Utilities  
13 Commission, the Delaware Public Service Commission, the Public Service  
14 Commission of the District of Columbia, the Florida Public Service Commission,  
15 the Georgia Public Service Commission, the Guam Public Utilities Commission,  
16 the Idaho Public Utilities Commission, the Illinois Commerce Commission, the  
17 Indiana Utility Regulatory Commission, the Kentucky Public Service  
18 Commission, the Public Utilities Board of Manitoba, the Minnesota Public  
19 Utilities Commission, the Mississippi Public Service Commission, the Missouri  
20 Public Service Commission, the Montana Public Service Commission, the North  
21 Carolina Utilities Commission, the North Dakota Public Service Commission,  
22 the Public Utilities Commission of Ohio, the Oklahoma Corporation

1 Commission, the Oregon Public Utility Commission, the Rhode Island Public  
2 Utilities Commission, the Public Service Commission of Utah, the Virginia State  
3 Corporation Commission, the Washington Utilities and Transportation  
4 Commission, the Public Service Commission of Wisconsin, and the Wyoming  
5 Public Service Commission. I have also assisted in the analysis of transmission  
6 line routes proposed in certificate of convenience and necessity proceedings  
7 before the Public Utility Commission of Texas.

8 In 2009, I completed the University of Wisconsin – Madison High Voltage  
9 Direct Current (“HVDC”) Transmission Course for Planners that was sponsored  
10 by the Midwest Independent Transmission System Operator, Inc. (“MISO”).

11 BAI was formed in April 1995. BAI and its predecessor firm have  
12 participated in more than 700 regulatory proceedings in forty states and  
13 Canada.

14 BAI provides consulting services in the economic, technical, accounting,  
15 and financial aspects of public utility rates and in the acquisition of utility and  
16 energy services through RFPs and negotiations, in both regulated and  
17 unregulated markets. Our clients include large industrial and institutional  
18 customers, some utilities and, on occasion, state regulatory agencies. We also  
19 prepare special studies and reports, forecasts, surveys and siting studies, and  
20 present seminars on utility-related issues.

21 In general, we are engaged in energy and regulatory consulting,  
22 economic analysis and contract negotiations. In addition to our main office in



- 1 St. Louis, the firm also has branch offices in Corpus Christi, Texas; Detroit,
- 2 Michigan; Louisville, Kentucky, and Phoenix, Arizona.

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