

BEFORE THE CORPORATION COMMISSION OF THE STATE OF OKLAHOMA

IN THE MATTER OF THE)
APPLICATION OF OKLAHOMA)
GAS AND ELECTRIC COMPANY)
FOR AN ORDER OF THE)
COMMISSION AUTHORIZING)
APPLICANT TO MODIFY ITS)
RATES, CHARGES, AND TARIFFS)
FOR RETAIL ELECTRIC SERVICE)
IN OKLAHOMA)

CAUSE NO. PUD 201700496

FILED
MAY 16 2018

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CORPORATION COMMISSION
OF OKLAHOMA

Responsive Testimony and Exhibit of

Michael P. Gorman

Managing Principal

Brubaker & Associates, Inc.

On behalf of

Federal Executive Agencies

May 16, 2018

**Table of Contents for the
Responsive Testimony of Michael P. Gorman**

| | <u>Page</u> |
|--|--------------------|
| I. Revenue Spread | 5 |
| II. Class Cost of Service..... | 7 |
| III. Rate LPL TOU Proposed Rate Design | 8 |
| Qualifications of Michael P. Gorman | 15 |
| Exhibit MPG-1 | |

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Responsive Testimony of Michael P. Gorman

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

2 A Michael P. Gorman. My business address is 16690 Swingley Ridge Road, Suite 140,
3 Chesterfield, MO 63017.

4 **Q WHAT IS YOUR OCCUPATION?**

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

7 **Q PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND EXPERIENCE.**

8 A This information is provided in Appendix A to this testimony.

9 **Q ON WHOSE BEHALF ARE YOU APPEARING IN THIS PROCEEDING?**

10 A I am testifying on behalf of the Federal Executive Agencies ("FEA"), consisting of
11 certain agencies of the United States government which have offices, facilities, and/or

1 installations in the service area of Oklahoma Gas and Electric Company ("OG&E" or
2 "Company"), from whom they purchase electricity and energy services.

3 **Q WHAT IS THE SUBJECT OF YOUR TESTIMONY?**

4 **A** My testimony addresses the following:

- 5 1. The Company's filed jurisdictional and class cost of service study ("COSS") and
6 allocation methods used therein.
- 7 2. The spread of revenue over rate classes should move toward cost of service.
- 8 3. Opposition to OG&E's proposed changes to the service voltage level subclass
9 demand charges within Rate Large Power and Light Time of Use ("LPL TOU").
10 OG&E's proposed adjustments to demand charges do not reflect cost of service.

11 My silence in regard to any other matter raised by the Company does not
12 constitute agreement with same.

13 **Q PLEASE PROVIDE A SUMMARY OF YOUR RECOMMENDATIONS AND**
14 **CONCLUSIONS.**

15 **A** My recommendations and conclusions are as follows:

- 16 1. OG&E's proposed jurisdictional and class COSS allocation methods are
17 reasonable. OG&E's proposed production Average and Excess four coincident
18 peak ("A&E 4CP") method used in both the jurisdictional and class COSS places
19 significant emphasis on the utility's summer coincident peaks. OG&E's proposed
20 transmission 12CP jurisdictional and 4CP retail allocation methods are correctly
21 allocated 100% on a demand basis. Finally, OG&E's proposed retail distribution
22 cost allocation method appropriately recognizes the combined customer and
23 demand components of cost incurrence for distribution assets.
- 24 2. I recommend OG&E's class COSS be used to make a movement toward cost of
25 service for all rate classes. OG&E's COSS produces reasonable results in this
26 proceeding. Therefore, the Commission should adjust all rates to move each rate
27 class closer to cost of service.
- 28 3. In its proposed rate design, OG&E is proposing a reduction in the demand charge
29 spread between the LPL TOU Service Level 1 customers and the LPL TOU
30 Service Level 5 customers. I oppose OG&E's proposed rate design and a
31 contraction of this demand charge spread because it does not follow cost of
32 service. As explained in my testimony, allocation of the demand-related costs to
33 the LPL TOU subclasses, in recognition of the difference in costs for distribution-

related service, suggests that the current demand charge spread between Service Level 1 and Service Level 5 is already too small. Therefore, OG&E's proposal to reduce the Service Level 1 and Service Level 5 demand charge spread is unjust and unreasonable, and does not follow cost causation.

I. Revenue Spread

Q DID OG&E PRODUCE A SCHEDULE OR WORKPAPER THAT SHOWS ITS PROPOSED SPREAD OF ITS CLAIMED REVENUE DEFICIENCY IN THIS PROCEEDING?

A Yes. OG&E witness William Wai included a proposed revenue allocation workpaper in his rate design and COSS workpapers. Major components of those proposed cost of service results and proposed revenue spread are summarized in Table 1 below.

| TABLE 1 <u>OG&E's Proposed Revenue Distribution</u> | | | | | | |
|--|--------------------------|---|--|------------------------------|---|------------------------------|
| <u>Line</u> | <u>Rate Class</u> | <u>Base Non-Fuel Revenue at Current Rates</u> (1) | <u>Increase / (Decrease) to Reach Cost of Service</u> | | <u>OG&E Proposed Increase / (Decrease)</u> | |
| | | | <u>Amount</u> (2) | <u>Percent</u> (3) | <u>Amount</u> (4) | <u>Percent</u> (5) |
| 1 | RS | \$ 580,220,547 | \$ 24,818,455 | 4.3% | \$ - | 0.0% |
| 2 | GS | 122,615,439 | (5,458,326) | -4.5% | - | 0.0% |
| 3 | OGP | 10,441,351 | (2,426,367) | -23.2% | - | 0.0% |
| 4 | PS-S | 11,377,753 | 1,814,127 | 15.9% | - | 0.0% |
| 5 | PS-L | 7,289,758 | 596,994 | 8.2% | - | 0.0% |
| 6 | PL | 174,680,437 | (9,789,917) | -5.6% | - | 0.0% |
| 7 | PL TOU | 104,511,606 | (2,435,500) | -2.3% | - | 0.0% |
| 8 | LPL TOU | 128,985,686 | (7,103,351) | -5.5% | - | 0.0% |
| 9 | MP | 4,114,374 | (229,494) | -5.6% | - | 0.0% |
| 10 | Lighting | <u>30,024,526</u> | <u>2,073,892</u> | 6.9% | <u>1,860,513</u> | 6.2% |
| 11 | Total Retail | \$ 1,174,261,477 | \$ 1,860,513 | 0.2% | \$ 1,860,513 | 0.2% |

As shown above, OG&E is proposing an increase in the Lighting class but is not proposing increases in any other rate classes. Importantly, however, OG&E's proposed COSS states that the Residential class needs a 4.3% increase to be at cost

1 of service, the Public Schools – Small (Non-Demand) (“PS-S”) class needs an
2 increase of 15.9% to move to cost of service, and the Public Schools – Large
3 (Demand) (“PS-L”) class needs an 8.2% increase to move to cost of service.

4 **Q DO YOU BELIEVE THAT THE COMPANY’S PROPOSED SPREAD OF ITS**
5 **REVENUE INCREASE IS REASONABLE?**

6 A No. The Company’s proposed spread does move the Lighting class closer to cost of
7 service, but it fails to move the Residential, PS-S and PS-L classes toward cost of
8 service. For these reasons, I believe the Company’s proposed spread fails to move
9 all rate classes closer to cost of service.

10 **Q DO YOU BELIEVE THAT THE COMMISSION SHOULD MAKE AN EFFORT TO**
11 **MOVE RATES CLOSER TO COST OF SERVICE IN THIS PROCEEDING?**

12 A Yes. I recommend a movement toward cost of service for all rate classes. A nominal
13 increase of approximately 3.0% for classes priced below cost of service can allow for
14 a moderate increase in these rate classes, and allow for reductions and movement
15 toward cost of service, for the rate classes that are priced above cost of service. As
16 such, I recommend a 3.0% increase to the Residential, PS-S and PS-L classes. This
17 increased revenue then can be used to reduce rates across the other rate classes
18 that are currently priced above cost of service. My recommended revenue spread of
19 the Company’s claimed revenue deficiency is shown below in Table 2.

| <p style="text-align: center;">TABLE 2 <u>FEA Proposed Revenue Distribution</u></p> | | | | | | |
|---|-------------------|---|---|----------------|---|----------------|
| <u>Line</u> | <u>Rate Class</u> | <u>Base Non-Fuel Revenue at Current Rates</u> | <u>Increase / (Decrease) to Reach OGE's Cost of Service</u> | | <u>FEA Proposed Increase / (Decrease)</u> | |
| | | (1) | <u>Amount</u> | <u>Percent</u> | <u>Amount</u> | <u>Percent</u> |
| | | | (2) | (3) | (4) | (5) |
| 1 | RS | \$ 580,220,547 | \$ 24,818,455 | 4.3% | \$ 17,406,616 | 3.0% |
| 2 | GS | 122,615,439 | (5,458,326) | -4.5% | (4,319,865) | -3.5% |
| 3 | OGP | 10,441,351 | (2,426,367) | -23.2% | (367,859) | -3.5% |
| 4 | PS-S | 11,377,753 | 1,814,127 | 15.9% | 341,333 | 3.0% |
| 5 | PS-L | 7,289,758 | 596,994 | 8.2% | 218,693 | 3.0% |
| 6 | PL | 174,680,437 | (9,789,917) | -5.6% | (6,154,168) | -3.5% |
| 7 | PL TOU | 104,511,606 | (2,435,500) | -2.3% | (2,435,500) | -2.3% |
| 8 | LPL TOU | 128,985,686 | (7,103,351) | -5.5% | (4,544,296) | -3.5% |
| 9 | MP | 4,114,374 | (229,494) | -5.6% | (144,954) | -3.5% |
| 10 | Lighting | <u>30,024,526</u> | <u>2,073,892</u> | 6.9% | <u>1,860,513</u> | 6.2% |
| 11 | Total Retail | \$ 1,174,261,477 | \$ 1,860,513 | 0.2% | \$ 1,860,513 | 0.2% |

1 While this proposed spread is based on the Company's claimed revenue
2 deficiency, it should be adjusted to reflect the Commission's final determination of the
3 appropriate revenue requirement in this proceeding. If the Commission determines
4 that a revenue decrease is appropriate, then a continued movement toward cost of
5 service would be appropriate even if that means increases to the Residential, PS-S
6 and PS-L classes in order to accomplish the objective of gradually moving customer
7 classes toward cost of service.

8 **II. Class Cost of Service**

9 **Q DO YOU HAVE ANY CONCERNS WITH THE COMPANY'S COSS?**

10 **A No. I generally believe the Company's class COSS is reasonable and accurately**
11 allocates OG&E's costs across its customer rate classes.

III. Rate LPL TOU Proposed Rate Design

Q PLEASE SUMMARIZE YOUR CONCERN WITH OG&E'S PROPOSED LPL TOU DEMAND CHARGES.

A I am concerned with the Company's proposed design of the LPL TOU rate subclasses because it is proposing a contraction in the difference between demand charges for LPL TOU Service Level 1 customers, compared to Service Level 5 customers. I do not believe that this proposed change is cost justified. I show the current and proposed LPL TOU demand charges in Table 3 below.

| TABLE 3 | | | | |
|------------------------------|-----------------------|----------------------|------------------------|----------------------|
| <u>LPL TOU</u> | | | | |
| <u>Demand Charges</u> | | | | |
| <u>(\$/kW-month)</u> | | | | |
| <u>Service Level</u> | <u>Current</u> | | <u>Proposed</u> | |
| | <u>Amount</u> | <u>Spread</u> | <u>Amount</u> | <u>Spread</u> |
| | <u>(1)</u> | <u>(2)</u> | <u>(3)</u> | <u>(4)</u> |
| 1 | \$6.74 | | \$6.75 | |
| 2 | \$7.13 | \$0.39 | \$7.14 | \$0.39 |
| 3 | \$8.12 | \$1.38 | \$8.14 | \$1.39 |
| 4 | \$8.15 | \$1.41 | \$8.15 | \$1.40 |
| 5 | \$11.15 | \$4.41 | \$10.36 | \$3.61 |

Source: Direct Testimony of William H. Wai at 17-19.

Q WHY DO YOU BELIEVE THE COMPANY'S OWN COSS SHOWS THAT THE DEMAND SPREAD BETWEEN SERVICE LEVEL 1 AND SERVICE LEVEL 5 SHOULD NOT BE REDUCED IN THE PROPOSED RATES?

A The current spread between Service Level 1 and Service Level 5 is \$4.41/kW-month. This existing spread is already too small to reflect only the difference in distribution

1 charges between these two service levels. That is, OG&E's own data indicates that
2 the distribution charge cost difference between Service Level 1 and Service Level 5 is
3 \$4.60/kW-month. Mr. Wai's proposal to reduce the Service Level 5 spread to
4 \$3.61/kW-month is in direct contradiction to his cost of service.

5 Service Level 1 takes service directly from the transmission system, with no
6 distribution charges. In contrast, Service Level 5 takes service at a secondary
7 delivery voltage, which requires service under all of the Company's distribution
8 subsystem including subtransmission, primary, and secondary voltage delivery
9 components. Hence, the cost differential for distribution service alone supports a
10 demand spread between Service Level 1 and Service Level 5 of \$4.60/kW-month.

11 The existing demand spread between Service Level 1 and Service Level 5 is
12 too small to capture this difference in distribution delivery costs alone. However, the
13 full cost of demand charge difference between Service Level 1 and Service Level 5
14 includes this distribution cost distinction but also differences in production and
15 transmission losses which also equate to a material cost to OG&E to serve LPL TOU
16 customers across its five service levels.

17 **Q HOW DID YOU CALCULATE THE DISTRIBUTION COST DIFFERENTIAL THAT**
18 **SHOULD EXIST BETWEEN EACH OF THE LPL TOU SERVICE VOLTAGE LEVEL**
19 **SUBCLASSES?**

20 **A** I used the Company's distribution cost allocation across service levels for the LPL
21 TOU class included within its Schedule K COSS.

22 As shown on my Exhibit MPG-1, lines 7-12, I divide the total distribution
23 COSS revenue amounts allocated to each LPL TOU subclass in OG&E's Schedule K
24 COSS by the subclass distribution billing demands at the meter. Column C shows
25 the calculated class distribution demand charge. Column D then shows the

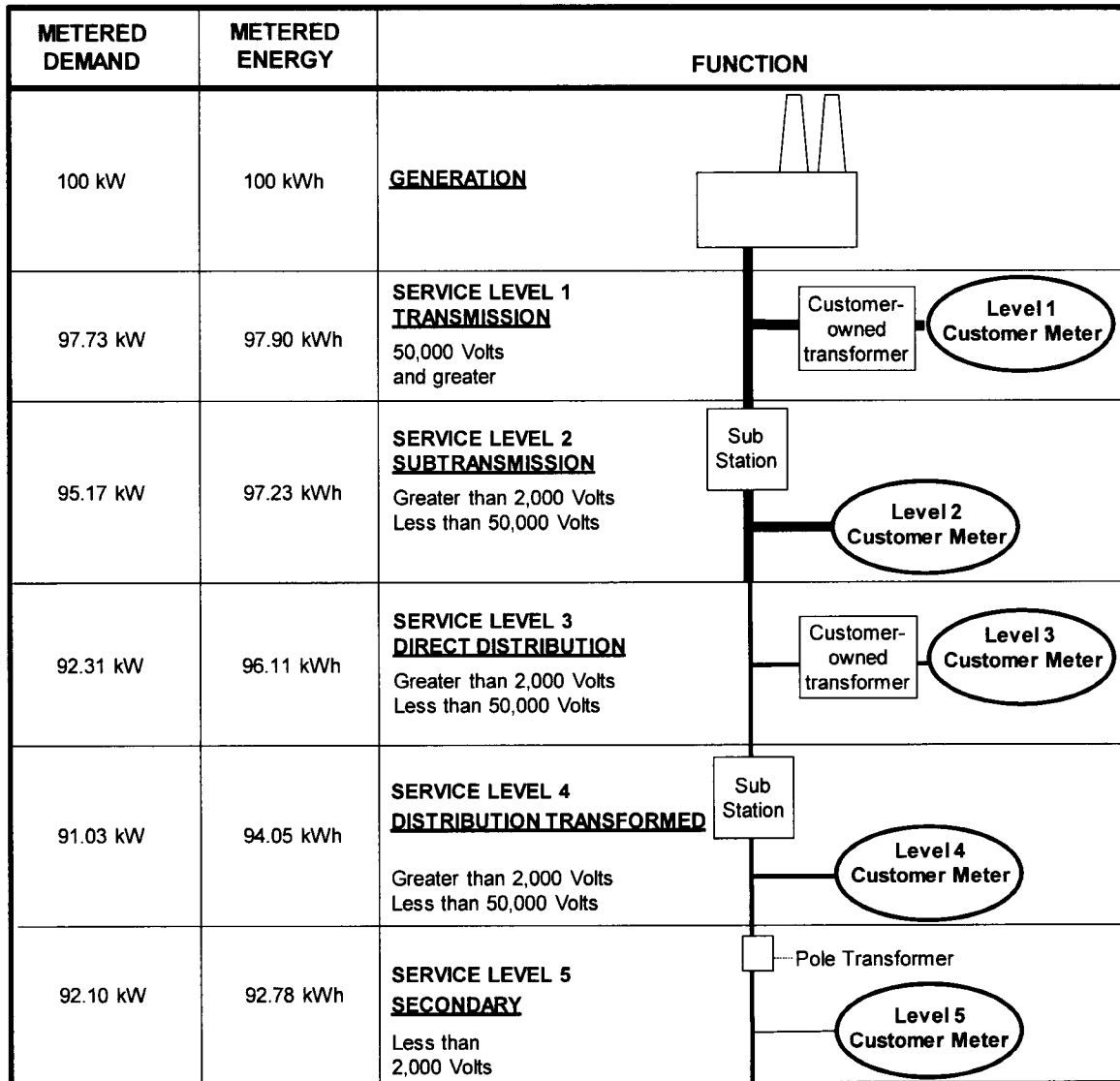
1 distribution charge adder for each LPL TOU service voltage subclass from the
2 transmission level distribution charge.

3 **Q PLEASE DESCRIBE THE ADDITIONAL DEMAND COST DIFFERENTIALS FOR**
4 **LPL TOU SERVICE LEVELS RELATED TO LOSS FACTORS.**

5 **A** The demand spread and prices should also reflect OG&E's costs created by losses
6 as production and transmission ("P&T") capacity is produced at the generator, and
7 delivered to the service level meter. These P&T cost adjustments are referred to as
8 delivery losses. Losses occur between the generator and customer meter for both
9 demand and energy because electrical energy is lost in transmission and distribution
10 delivery of demand/energy and caused by voltage transformations, and the heating of
11 conductor wire. Both of these factors consume electricity in the transmission and
12 distribution process and are described as losses.

13 This loss factor structure is illustrated below in Figure 1.

Figure 1
Oklahoma Gas & Electric
Demand and Energy Losses



Sources: OG&E Present Tariff Sheet No. 18.04,
OG&E W/P L-7.0

- 1 As shown in Figure 1 above, in order to deliver 1 kW of demand to a Service
- 2 Level 1 meter, OG&E will have to produce about 1.023 kW¹ at the generation level.
- 3 Similarly, in order to deliver 1 kW of demand at the Service Level 5 secondary meter

¹100 kW ÷ 97.73 kW = 1.023 kW.

1 level, OG&E will have to produce 1.0858 kW² at the generation level. These
2 additional costs for losses must be reflected in the demand pricing levels for Service
3 Levels 1 through 5.

4 **Q HOW SHOULD DEMAND CHARGES BETWEEN ALL LPL TOU SERVICE LEVELS**
5 **REFLECT THE LOSS DIFFERENCES?**

6 A The differences, as noted above, relate to delivery of P&T costs from the cost source
7 to the actual customer meter.

8 The differences in P&T demand for each service level can be estimated by
9 first identifying the amount of allocated P&T cost of the LPL TOU class. The second
10 step would be converting each of the metered demands by losses up to the demand
11 at generation level then estimating the amount of P&T cost on a kW-month basis for
12 the class at generation level. The final step would simply be taking this generation
13 level P&T demand allocated to the LPL TOU rate and convert it to a metered price
14 reflecting losses between generation and the meter.

15 OG&E's allocated P&T cost to the LPL TOU class is approximately
16 \$113.2 million. All the demand billing units for Service Levels 1-5, adjusted by losses
17 to the generation level, produce an LPL TOU demand at generation level of
18 approximately 13 million kW per year. This is developed on my Exhibit MPG-1, lines
19 1-6. The resulting cost for the LPL TOU class for P&T service is \$8.70/kW-month.

20 Next, the LPL TOU class P&T cost at generation level to a cost at the delivery
21 meter requires an adjustment for each of the delivery voltage losses. As shown on
22 my Exhibit MPG-1 and Table 4 below, using OG&E's demand loss factors by delivery
23 voltage produces a P&T cost for each LPL TOU Service Level 1 through Service
24 Level 5.

²100 kW + 9.2.10 kW = 1.0858 kW.

| TABLE 4 | | | | | |
|---|-------------------------|--|---|--|--|
| Development of Loss Adjusted Fixed Production & Transmission Demand Charge Component | | | | | |
| <u>SL</u> | <u>Delivery Voltage</u> | <u>P&T Demand Charge at Generation¹</u> | <u>Demand Loss Factor²</u> | <u>Loss Adjusted Demand at Meter</u> | <u>Difference from Transm. Voltage</u> |
| | | (A) | (B) | (C) = (A) / [1-(B)] | (D) |
| 1 | Transmission | \$8.70 | 2.27% | \$8.90 | |
| 2 | Subtrans. | \$8.70 | 4.83% | \$9.14 | \$0.24 |
| 3 | Direct Dist. | \$8.70 | 7.69% | \$9.42 | \$0.52 |
| 4 | Dist. Transfmd | \$8.70 | 8.97% | \$9.55 | \$0.65 |
| 5 | Secondary | \$8.70 | 7.90% | \$9.44 | \$0.54 |
| <hr/> | | | | | |
| Sources: | | | | | |
| 1. Exhibit MPG-1, col. E, ln 6 | | | | | |
| 2. W/P L-7.0 | | | | | |

1 As illustrated in the table above, simply reflecting a uniform demand cost at
2 generation for the LPL TOU subclasses but adjusting that demand charge for losses
3 across the five service levels produces a different cost at the customer meter for P&T
4 demand allocated to the LPL TOU class. The spread between Service Level 1 and
5 Service Level 5 is around \$0.54/kW-month. That would be in the addition to the
6 \$4.60/kW-month differential for differences in distribution service.

7 **Q PLEASE SUMMARIZE YOUR PROPOSALS AS THEY RELATE TO RATE DESIGN**
8 **FOR LPL TOU RATES.**

9 **A** I recommend that OG&E's proposal to spread the cost of service increase allocated
10 to LPL TOU Service Levels 1 through 5 be denied. OG&E pricing changes are not
11 cost based, and in fact move in opposition to cost of service. The proposed price
12 changes do not reflect differences in distribution costs, or differences in delivery
13 voltage losses.

1 I recommend that the Commission simply maintain the existing spread in
2 demand charges between Service Level 1 and Service Level 5 as well as the spread
3 between energy charges for these service levels. Should the Commission decide to
4 either leave rates alone or to decrease them depending on its revenue requirement
5 findings, I recommend a uniform percent change to all service level demand and non-
6 fuel energy rates be made to adjust LPL TOU rates to the assignment of this class's
7 cost of service.

8 **Q DOES THIS CONCLUDE YOUR RESPONSIVE TESTIMONY?**

9 **A Yes, it does.**

Qualifications of Michael P. Gorman

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

2 A Michael P. Gorman. My business address is 16690 Swingley Ridge Road, Suite 140,
3 Chesterfield, MO 63017.

4 **Q PLEASE STATE YOUR OCCUPATION.**

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

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

10 A In 1983 I received a Bachelor of Science Degree in Electrical Engineering from
11 Southern Illinois University, and in 1986, I received a Master's Degree in Business
12 Administration with a concentration in Finance from the University of Illinois at
13 Springfield. I have also completed several graduate level economics courses.

14 In August of 1983, I accepted an analyst position with the Illinois Commerce
15 Commission ("ICC"). In this position, I performed a variety of analyses for both formal
16 and informal investigations before the ICC, including: marginal cost of energy, central
17 dispatch, avoided cost of energy, annual system production costs, and working
18 capital. In October of 1986, I was promoted to the position of Senior Analyst. In this
19 position, I assumed the additional responsibilities of technical leader on projects, and
20 my areas of responsibility were expanded to include utility financial modeling and
21 financial analyses.

1 In 1987, I was promoted to Director of the Financial Analysis Department. In
2 this position, I was responsible for all financial analyses conducted by the Staff.
3 Among other things, I conducted analyses and sponsored testimony before the ICC
4 on rate of return, financial integrity, financial modeling and related issues. I also
5 supervised the development of all Staff analyses and testimony on these same
6 issues. In addition, I supervised the Staff's review and recommendations to the
7 Commission concerning utility plans to issue debt and equity securities.

8 In August of 1989, I accepted a position with Merrill-Lynch as a financial
9 consultant. After receiving all required securities licenses, I worked with individual
10 investors and small businesses in evaluating and selecting investments suitable to
11 their requirements.

12 In September of 1990, I accepted a position with Drazen-Brubaker &
13 Associates, Inc. ("DBA"). In April 1995, the firm of Brubaker & Associates, Inc. was
14 formed. It includes most of the former DBA principals and Staff. Since 1990, I have
15 performed various analyses and sponsored testimony on cost of capital, cost/benefits
16 of utility mergers and acquisitions, utility reorganizations, level of operating expenses
17 and rate base, COSS, and analyses relating to industrial jobs and economic
18 development. I also participated in a study used to revise the financial policy for the
19 municipal utility in Kansas City, Kansas.

20 At BAI, I also have extensive experience working with large energy users to
21 distribute and critically evaluate responses to requests for proposals ("RFPs") for
22 electric, steam, and gas energy supply from competitive energy suppliers. These
23 analyses include the evaluation of gas supply and delivery charges, cogeneration
24 and/or combined cycle unit feasibility studies, and the evaluation of third-party
25 asset/supply management agreements. I have participated in rate cases on rate
26 design and class cost of service for electric, natural gas, water and wastewater

1 utilities. I have also analyzed commodity pricing indices and forward pricing methods
2 for third party supply agreements, and have also conducted regional electric market
3 price forecasts.

4 In addition to our main office in St. Louis, the firm also has branch offices in
5 Phoenix, Arizona and Corpus Christi, Texas.

6 **Q HAVE YOU EVER TESTIFIED BEFORE A REGULATORY BODY?**

7 A Yes. I have sponsored testimony on cost of capital, revenue requirements, cost of
8 service and other issues before the Federal Energy Regulatory Commission and
9 numerous state regulatory commissions including: Arkansas, Arizona, California,
10 Colorado, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas,
11 Louisiana, Michigan, Mississippi, Missouri, Montana, New Jersey, New Mexico, New
12 York, North Carolina, Ohio, Oklahoma, Oregon, South Carolina, Tennessee, Texas,
13 Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming, and before
14 the provincial regulatory boards in Alberta and Nova Scotia, Canada. I have also
15 sponsored testimony before the Board of Public Utilities in Kansas City, Kansas;
16 presented rate setting position reports to the regulatory board of the municipal utility
17 in Austin, Texas, and Salt River Project, Arizona, on behalf of industrial customers;
18 and negotiated rate disputes for industrial customers of the Municipal Electric
19 Authority of Georgia in the LaGrange, Georgia district.

20 **Q PLEASE DESCRIBE ANY PROFESSIONAL REGISTRATIONS OR**
21 **ORGANIZATIONS TO WHICH YOU BELONG.**

22 A I earned the designation of Chartered Financial Analyst ("CFA") from the CFA
23 Institute. The CFA charter was awarded after successfully completing three
24 examinations which covered the subject areas of financial accounting, economics,

- 1 fixed income and equity valuation and professional and ethical conduct. I am a
- 2 member of the CFA Institute's Financial Analyst Society.

OKLAHOMA GAS AND ELECTRIC
Calculation of LPL TOU Demand Charge Differential

I. PRODUCTION & TRANSMISSION COST DIFFERENTIAL

| <u>Line Rate LPL TOU Service Voltage</u> | <u>Billed Max Demand Annual kW¹ (A)</u> | <u>Demand Loss Factor² (B)</u> | <u>Billed Max Demand kW at Generation (C) = A / (1-B)</u> | <u>Total Prod. & Trans. Demand COS Revenue³ (D)</u> | <u>P&T Demand Charge at Generation (E) = D / C</u> | <u>Class Loss Adjusted Demand Charge (F) = E / (1-B)</u> | <u>Demand Charge Difference from Transm. Voltage (G)</u> |
|--|--|---|---|--|--|--|--|
| 1 Transmission - Level 1 | 1,147,890 | 2.27% | 1,174,552 | | | \$8.90 | |
| 2 Subtransmission - Level 2 | 8,547,573 | 4.83% | 8,981,374 | | | \$9.14 | \$0.24 |
| 3 Direct Distribution - Level 3 | 1,555,692 | 7.69% | 1,685,291 | | | \$9.42 | \$0.52 |
| 4 Distribution Transformed - Level 4 | 420,347 | 8.97% | 461,768 | | | \$9.55 | \$0.65 |
| 5 Secondary - Level 5 | 659,938 | 7.90% | 716,545 | | | \$9.44 | \$0.54 |
| 6 Total | 12,331,440 | | 13,019,529 | \$ 113,215,947 | \$8.70 | | |

X

II. DISTRIBUTION COST DIFFERENTIAL

| <u>Line Rate LPL TOU Service Voltage</u> | <u>Total Distribution COS Revenue³ (A)</u> | <u>Billed Max Demand Annual kW¹ (B)</u> | <u>Calculated Class Distribution Demand Charge (C) = A / B</u> | <u>Distribution Charge Difference from Transm. Voltage (D)</u> |
|--|---|--|--|--|
| 7 Transmission - Level 1 | \$ - | 1,147,890 | \$0.00 | |
| 8 Subtransmission - Level 2 | \$ 8,258,228 | 8,547,573 | \$0.97 | \$0.97 |
| 9 Direct Distribution - Level 3 | \$ 4,277,872 | 1,555,692 | \$2.75 | \$2.75 |
| 10 Distribution Transformed - Level 4 | \$ 1,366,770 | 420,347 | \$3.25 | \$3.25 |
| 11 Secondary - Level 5 | \$ 3,035,416 | 659,938 | \$4.60 | \$4.60 |
| 12 Total | \$ 16,938,286 | 12,331,440 | | |

Y

III. TOTAL COMBINED COST DIFFERENTIAL

| <u>Line Rate LPL TOU Service Voltage</u> | <u>Combined Demand Charge Difference from Transm. Voltage (A) = X + Y</u> | <u>OG&E Proposed Demand Charge (B)</u> | <u>OG&E Proposed Demand Charge Difference from Transm. Voltage (C)</u> |
|--|---|--|--|
| 13 Transmission - Level 1 | | \$6.75 | |
| 14 Subtransmission - Level 2 | \$1.21 | \$7.14 | \$0.39 |
| 15 Direct Distribution - Level 3 | \$3.27 | \$8.14 | \$1.39 |
| 16 Distribution Transformed - Level 4 | \$3.91 | \$8.15 | \$1.40 |
| 17 Secondary - Level 5 | \$5.14 | \$10.36 | \$3.61 |

Sources:

1. W/P M-4-1
2. W/P L-7.0
3. W/P L-8.3

BEFORE THE CORPORATION COMMISSION OF OKLAHOMA

IN THE MATTER OF THE
APPLICATION OF OKLAHOMA
GAS AND ELECTRIC COMPANY
FOR AN ORDER OF THE
COMMISSION AUTHORIZING
APPLICANT TO MODIFY ITS
RATES, CHARGES, AND TARIFFS
FOR RETAIL ELECTRIC SERVICE
IN OKLAHOMA

CAUSE NO. PUD 201700496

STATE OF MISSOURI)

COUNTY OF ST. LOUIS)

SS

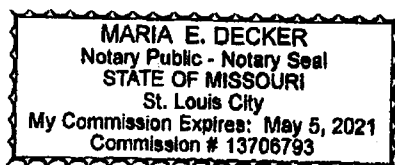
Affidavit of Michael P. Gorman

Michael P. Gorman, being first duly sworn, on his oath states:

1. My name is Michael P. Gorman. I am a consultant with Brubaker & Associates, Inc., having its principal place of business at 16690 Swingley Ridge Road, Suite 140, Chesterfield, Missouri 63017. We have been retained by Federal Executive Agencies in this proceeding on their behalf.
2. Attached hereto and made a part hereof for all purposes are my responsive testimony and exhibit which were prepared in written form for introduction into evidence in the Corporation Commission of Oklahoma, Cause No. PUD 201700496.
3. I hereby swear and affirm that the testimony and exhibit are true and correct and that they show the matters and things that they purport to show.


Michael P. Gorman

Subscribed and sworn to before me this 14th day of May, 2018.




Notary Public