FILED December 22, 2021 Data Center Missouri Public Service Commission

Exhibit No. 54

Ameren Missouri – Exhibit 54 Kelsey Ann Klein Direct Testimony (Gas) File Nos. ER-2021-0240 & GR-2021-0241

Exhibit No.:054Issue(s):Class Cost of Service
StudyWitness:Kelsey Ann KleinType of Exhibit:Direct TestimonySponsoring Party:Union Electric Company
File No.:GR-2021-0241Date Testimony Prepared:March 31, 2021

MISSOURI PUBLIC SERVICE COMMISSION

FILE NO. GR-2021-0241

DIRECT TESTIMONY

OF

KELSEY ANN KLEIN

ON

BEHALF OF

UNION ELECTRIC COMPANY

D/B/A AMEREN MISSOURI

St. Louis, Missouri March 2021

TABLE OF CONTENTS

| I. | INTRODUCTION | . 1 |
|------|------------------------------|-----|
| II. | PURPOSE OF TESTIMONY | . 2 |
| III. | SUMMARY OF SCHEDULES | . 2 |
| IV. | CCOSS SUMMARY | . 3 |
| V. | CCOSS CONCEPTS | . 5 |
| VI. | DEVELOPMENT OF BILLING UNITS | 18 |

DIRECT TESTIMONY

OF

KELSEY ANN KLEIN

FILE NO. GR-2021-0241

| 1 | | I. INTRODUCTION |
|----|---------------|---|
| 2 | Q. | Please state your name and business address. |
| 3 | А. | Kelsey Ann Klein, Union Electric Company d/b/a Ameren Missouri |
| 4 | ("Ameren M | issouri" or "Company"), One Ameren Plaza, 1901 Chouteau Avenue, St. |
| 5 | Louis, Misso | uri 63103. |
| 6 | Q. | What is your position with Ameren Missouri? |
| 7 | А. | I am employed by Ameren Missouri as a Regulatory Analyst. |
| 8 | Q. | Please describe your educational background and employment |
| 9 | experience. | |
| 10 | А. | I received a Bachelor's of Science Degree in Business Administration with |
| 11 | an emphasis i | n Marketing and a Bachelor of Arts Degree in International Studies from the |
| 12 | University of | Missouri – Columbia in 2016. While pursuing my undergraduate degrees, I |
| 13 | interned at A | Ameren Services in the Strategic Sourcing Department twice. Following |
| 14 | completion of | of my undergraduate degrees, I was hired by Ameren Services as a |
| 15 | Procurement | Specialist in the Strategic Sourcing Department. In this position, I was |
| 16 | responsible f | or supporting and executing the Ameren Sourcing process for our Facilitates |
| 17 | Management | & Construction organization, Ameren's Human Resources - Talent |
| 18 | Management | organization, and various professional service requests across Ameren |
| 19 | Missouri and | Ameren Illinois. |

| 1 | In November 2019, I accepted a position with Ameren Missouri as a Regulatory |
|--|---|
| 2 | Rate Analyst. In my current position, I perform the gas class cost of service study |
| 3 | ("GCCOSS"), provide data for our gas billing units, and complete reporting relating to |
| 4 | other gas and electric ad-hoc analyses. |
| 5 | II. PURPOSE OF TESTIMONY |
| 6 | Q. What is the purpose of your direct testimony? |
| 7 | A. The purpose of my direct testimony is to discuss the development and |
| 8 | results of the Company's GCCOSS for the proposed test year of twelve months ending |
| 9 | December 31, 2020. I will also be discussing the adjustments made to billing units, which |
| 10 | includes weather normalization and COVID-19, customer growth, and days and leap year |
| 11 | adjustments. |
| | |
| 12 | III. SUMMARY OF SCHEDULES |
| 12 13 | III. SUMMARY OF SCHEDULESQ.Please identify the schedules presented in your testimony. |
| 12 13 14 | III. SUMMARY OF SCHEDULES Q. Please identify the schedules presented in your testimony. A. The schedules presented in my testimony include: |
| 12 13 14 15 | III. SUMMARY OF SCHEDULES Q. Please identify the schedules presented in your testimony. A. The schedules presented in my testimony include: Schedule KAK-D1: This schedule contains the summarized results of the |
| 12 13 14 15 16 | III. SUMMARY OF SCHEDULES Q. Please identify the schedules presented in your testimony. A. The schedules presented in my testimony include: Schedule KAK-D1: This schedule contains the summarized results of the Company's customer class cost of service study ("CCOSS") for its Missouri jurisdictional |
| 12 13 14 15 16 17 | III. SUMMARY OF SCHEDULES Q. Please identify the schedules presented in your testimony. A. The schedules presented in my testimony include: Schedule KAK-D1: This schedule contains the summarized results of the Company's customer class cost of service study ("CCOSS") for its Missouri jurisdictional natural gas operations for the proposed test year ending December 31, 2020. |
| 12 13 14 15 16 17 18 | III. SUMMARY OF SCHEDULES Q. Please identify the schedules presented in your testimony. A. The schedules presented in my testimony include: Schedule KAK-D1: This schedule contains the summarized results of the Company's customer class cost of service study ("CCOSS") for its Missouri jurisdictional natural gas operations for the proposed test year ending December 31, 2020. Schedule KAK-D2: This schedule contains the summarized results of the |
| 12 13 14 15 16 17 18 19 | III. SUMMARY OF SCHEDULES Q. Please identify the schedules presented in your testimony. A. The schedules presented in my testimony include: Schedule KAK-D1: This schedule contains the summarized results of the Company's customer class cost of service study ("CCOSS") for its Missouri jurisdictional natural gas operations for the proposed test year ending December 31, 2020. Schedule KAK-D2: This schedule contains the summarized results of the Company's CCOSS with the adjusted equal rate of return realized for all of the customer |
| 12 13 14 15 16 17 18 19 20 | III. SUMMARY OF SCHEDULES Q. Please identify the schedules presented in your testimony. A. The schedules presented in my testimony include: Schedule KAK-D1: This schedule contains the summarized results of the Company's customer class cost of service study ("CCOSS") for its Missouri jurisdictional natural gas operations for the proposed test year ending December 31, 2020. Schedule KAK-D2: This schedule contains the summarized results of the Company's CCOSS with the adjusted equal rate of return realized for all of the customer rate classes. |
| 12 13 14 15 16 17 18 19 20 21 | III. SUMMARY OF SCHEDULES Q. Please identify the schedules presented in your testimony. A. The schedules presented in my testimony include: Schedule KAK-D1: This schedule contains the summarized results of the Company's customer class cost of service study ("CCOSS") for its Missouri jurisdictional natural gas operations for the proposed test year ending December 31, 2020. Schedule KAK-D2: This schedule contains the summarized results of the Company's CCOSS with the adjusted equal rate of return realized for all of the customer rate classes. Schedule KAK-D3: |

1 customer rate class should be derived from the fixed customer charge and recovered from

- 2 the volumetric energy charge.
- 3

4

IV. CCOSS SUMMARY

Q. Please summarize the results of the Company's CCOSS.

5 Table 1 below is a summary of the CCOSS indicating the Realized Rate of A. 6 Return ("RROR") currently being earned on the natural gas service provided to the 7 Company's customer rate classes. A more detailed summary can be found in Schedule 8 KAK-D1. The results show what the RROR would be from each rate class based on 9 revenues from currently effective rates after incorporating all expenses for the test year 10 ending December 31, 2020. This study is based on the Company's present rate levels and 11 weather-normalized and adjusted billing units during the test year. The Missouri natural 12 gas jurisdictional annual revenue requirement calculated by Company witness Mitchell 13 Lansford formed the starting point for this study.

14

Table 1 – Summary of CCOSS

| Customer Rate Class | RROR | Equalized Rate of Return |
|----------------------------|--------|--------------------------|
| Residential Service | 3.45% | 6.943% |
| General Service | 4.44% | 6.943% |
| Interruptible Service | 1.36% | 6.943% |
| Standard Transport Service | 12.11% | 6.943% |
| Large Transport Service | 5.23% | 6.943% |
| Total | 4.68% | 6.943% |

1 Q. What general conclusions can be drawn from the information 2 contained in the table above?

A. Any class that has a RROR less than 6.943% is not covering the cost to serve that class, and any class that has a rate of return greater than 6.943% is covering more than its fair share of the total costs. These new baseline amounts are used to determine the change in base rates that would be necessary for the Company to recover its revenue requirement with an equal RROR for all customer rate classes as calculated in Schedule KAK-D2. Currently, almost all classes are providing a below average rate of return while the Standard Transport class is providing an above average rate of return.

10

Q. How was Schedule KAK-D2 developed?

A. To develop Schedule KAK-D2, I modified the base revenues of each customer rate class in Schedule KAK-D1 to reflect the class revenues necessary for the Company to realize equalized rates of return consistent with the Company's weighted average cost of capital from each customer rate class. This was referenced by Company witness Michael Harding in his testimony, Section II, in the development of rates for each class.

Q. Please describe the method used to equalize rates of return for each
customer rate class, as reflected in your Schedule KAK-D2.

A. The total net original cost rate base of each customer rate class was multiplied by the proposed Missouri jurisdiction test year return of 6.943%, as indicated in Mr. Lansford's testimony. This was used to obtain the required total net operating income of each class. The net operating income was then added to the operating expenses of each class to obtain the total operating revenue of each class required for equalized rates of

- 1 return. The resulting cost of service of each customer class is set forth on line 9 of Schedule
- 2 KAK-D2. Table 2 below highlights the revenues that each class would be responsible for
- 3 if they were all paying their equalized cost of service amount.
- 4

Table 2 – Summary of CCOS: Equal Returns

| Item | Total Missouri | Residential Service | General Service | Interruptible Service | Standard Transport Service | Large Transport Service |
|------------------------------------|-------------------|------------------------|--------------------|--------------------------|----------------------------------|-------------------------------|
| Total Gas Operating Revenues | \$86,468,404 | \$54,763,796 | \$18,072,486 | \$573,748 | \$7,392,929 | \$5,665,445 |
| Net Utility Operating Income | \$21,555,311 | \$12,670,860 | \$4,803,994 | \$177,836 | \$2,184,651 | \$1,717,970 |
| Rate Base | \$310,461,084 | \$182,498,355 | \$69,191,915 | \$2,561,376 | \$31,465,523 | \$24,743,916 |
| RROR | 6.943% | 6.943% | 6.943% | 6.943% | 6.943% | 6.943% |

5

Q. How are the results of the class cost of service study used?

- 6 A. The results of the study are utilized as the starting point of revenue 7 allocation and rate design as discussed further in the testimony of Mr. Harding, section II.
- 8

9

V. CCOSS CONCEPTS

Q. W

What is a CCOSS?

10 A CCOSS is a study completed to determine how to appropriately allocate A. 11 the Company's aggregated cost of providing utility services to the customers who utilize 12 our services and cause the costs to be incurred. In other words, a CCOSS is a tool for 13 designing rates that equitably assign cost responsibility to each customer class. The utility 14 services mentioned are those included in the distribution of natural gas in Ameren 15 Missouri's service territory. A CCOSS takes historical expenses and costs incurred to 16 identify the revenue requirements needed to serve our customers. The components of the 17 revenue requirement are then functionalized, classified, and allocated to our gas customer

classes to help determine what rates should be utilized for each customer rate class based
 on those allocations.

3

Q. What information is provided by the CCOSS?

A. The study ultimately results in a target "cost to serve" or "revenue requirement" for each rate class. The Company utilizes these target revenue requirements as a guide for rate design and pricing changes proposed for each customer rate class so the rates reasonably reflect the costs caused by each class.

8

Q. Why is a CCOSS performed?

9 A. The cost of service can vary, sometimes significantly, between customer 10 rate classes depending upon their use of our natural gas distribution system. A CCOSS is 11 performed to determine how the costs should be appropriately allocated based on how each 12 class uses the system.

13

Q. What customer rate classes were included in the Company's CCOSS?

A. The Company's CCOSS includes all existing customer rate classes: the
 Residential, General Service, Interruptible Service, Standard Transportation Service, and
 Large Volume Transportation Service classes.

Q. Were the rate base investment and expenses associated with the Company's Special Contract customers considered in the CCOSS you performed?

A. Yes. However, in considering such costs in my study, I employed a cost of service approach consistent with that utilized by the Company in its last gas general rate review, File No. GR-2019-0077. This approach consists of allocating the total of all Company investment and expense to the other customer classes as if there were no special contract customers. The allocation of such costs to the non-special contract customers is

offset by also allocating, or crediting, existing special contract revenues to the other customer classes. This allocation of special contract costs and revenues was done based on each class' respective total net original cost rate base. This process presumes that the Company's current special contract revenues, which constitute about 0.54% of the Company's total revenues, currently provide a fair and reasonable recovery of the Company's total costs of providing such service. Said another way, it is presumed that allocated special contract revenues are equivalent to allocated special contract costs.

8

Q. Were the Company's other revenues treated in a similar way?

9 A. Yes. The Company takes a similar approach with its "other revenues," 10 which include revenues associated with such things as forfeited discounts, miscellaneous 11 service revenue, and building rental agreements. Depending on the category of revenue, 12 these amounts were allocated based on either the number of total bills, or the Labor Ratio. 13 The Labor Ratio method of allocation calculates the percent of total production, 14 transmission, distribution, customer, and sales labor expense that are attributable to the 15 provision of service to each customer rate class, and allocates amounts based on that 16 percentage.

17

18

Q. What steps are used to prepare the CCOSS?

A. The three major steps to develop a CCOSS are:

191.Functionalization – the process of assigning the Company's rate base20and expenses into specified utility functions, such as production,21transmission, distribution, and customer service, based on the22Federal Energy Regulatory Commissions ("FERC ")23System of Accounts.

| 1 | 2. | Classification - functionalized costs are further separated into |
|----|-------------------------|---|
| 2 | | classifications based on a cost-causative basis, as demand-related, |
| 3 | | energy-related, or customer-related. |
| 4 | 3. | Allocation – costs are allocated to the customer rate classes based |
| 5 | | on their proportional share of the classified costs using allocation |
| 6 | | factors. |
| 7 | A. FUNCTION | NALIZATION AND CLASSIFICATION |
| 8 | Q. Pleas | e describe the components of costs and revenues that are |
| 9 | contained in the CO | COSS that the Company is filing in this case. |
| 10 | A. A trac | ditional CCOSS incorporates the aggregate jurisdictional (Missouri or |
| 11 | FERC) accounting a | nd financial data normally submitted to a regulatory commission by a |
| 12 | utility in support of a | request for an adjustment in its overall rate levels. The study is needed |
| 13 | to determine the leve | el of revenues necessary for the Company to recover its operating and |
| 14 | maintenance expens | es through rates, depreciation applicable to its investment in utility |
| 15 | plant, property taxe | s, income and other taxes, and provide a fair rate of return to the |
| 16 | Company's investors | . As mentioned above, the CCOSS then allocates these jurisdictional |
| 17 | costs to the custome | r rate classes in a cost-based manner that fairly and equitably reflects |
| 18 | the cost of service be | eing provide to each class. |
| 19 | Q. What | t major cost categories were examined in the development of the |
| 20 | CCOSS, and why a | re the Company's costs classified into these categories? |
| 21 | A. The 1 | najor cost categories are classified into customer-related, demand- |
| 22 | related costs, and en | ergy-related costs based on cost-causation principles. It is generally |
| 23 | accepted within the i | ndustry that the costs in each of these categories result from different |

Q.

Q.

cost causation factors so they should be allocated appropriately among the customer rate
 classes.

3

Q. What are customer-related costs?

A. Customer-related costs result from the very existence of a customer and are the minimum costs necessary to make gas services available to the customer. The costs of making service available include the costs of meter reading and billing, as well as the fixed costs associated with the customer's meter, service pipe, and some portion of the Company's investment in distribution mains. The customer components of the gas distribution system are costs necessary to provide safe and reliable service to a customer, without the consideration of the amount of the customer's gas usage.

11

What are demand-related costs?

A. Demand-related costs are costs that the Company incurs in order to meet the maximum daily gas demands imposed by customers. These costs include a significant portion of all fixed costs associated with the Company's investment in plant and expenses to meet customer' expected maximum loads on the Company's gas distribution system.

16

What are energy-related costs?

A. Energy-related costs are the costs directly related to the actual volume of gas delivered or sold. Purchased gas costs are excluded from the CCOSS, so only gas supply expenses outside of the purchased gas costs and the costs of stored gas are considered energy-related costs.

21

Q. Why are purchased gas costs excluded from your CCOSS?

A. Purchased gas costs, including the cost of the gas commodity, demand,
pipeline transportation, and a portion of storage costs, are fully recovered through the

Q.

Company's Purchased Gas Adjustment ("PGA"). Purchased gas costs do not affect the
 operating income or rate of return earned by the Company, so they are not included in the
 CCOSS.

4

B. ALLOCATION

5

How are the allocation factors determined for each customer rate class?

6 A. The allocation factors for each customer class are determined by calculating 7 the proportionate share of classified costs based on the total energy- or demand-related 8 units of each class.

9 <u>Customer-Related</u> allocation factors are generally proportionate to the annual 10 number of customer bills issued to each rate class or to the weighted average of the 11 customer-related costs of certain items.

<u>Demand-Related</u> allocation factors are proportionate to either the coincident peak ("CP") or the non-coincident peak ("NCP") day delivered demand of the various rate classes through the usage of the Average and Excess Demand Method. CP and NCP (average and excess) day demands are explained further, below.

16 <u>Energy-Related</u> allocation factors are proportionate to the volumes sold or
 17 transported to each rate class.

18 Q. Please describe how those costs and expenses were allocated to the
19 customer rate classes.

A. The original cost and depreciation reserves of the major functional components of the Company's natural gas rate base for the test year were allocated to the customer classes as described below. The resulting dollar amounts allocated to each class are provided in Schedule KAK-D1.

1 (1) Production Plant. Production plant (Accounts 304, 305, 311) was allocated to each 2 customer class on the basis of the class CP demand allocation factor. CP demand is the 3 customer class' peak load on the day of the Company's overall system peak. The CP day 4 demands for the rate classes were determined by summarizing the daily meter reads of all 5 customers by class and date. The coincident demand assigned to the Interruptible class was 6 zero, because there is no longer an assurance gas level associated with any of the contracts 7 of those customers. In other words, Ameren Missouri has the ability to curtail gas from its 8 Interruptible class customers to customers of another class during times of peak demand to 9 meet the requirements of the system as a whole without increasing the system peak demand 10 and causing an increase in the cost to serve all customers. Customers who only take 11 transportation service on the Company's distribution system were not allocated production 12 plant costs since they purchase their gas supply from a third party.

13 (2) <u>Transmission Plant</u>. Transmission plant investment (Accounts 365-369) is 14 demand-related and was allocated to each customer class based upon the Average and 15 Excess Demand Method. This method allocates a portion of this investment according to 16 the average use of all customers and a portion according to the additional use related to the 17 NCP demand of each customer class. NCP demand is the customer class' actual peak day 18 load regardless of the day of its occurrence. The class NCP day demands were determined 19 using daily meter reads for all customers in a given class throughout the test year.

20 (3) <u>Distribution Plant</u>. The Company's distribution plant was allocated to each
 21 customer class based upon an analysis of the functions performed by the facilities in
 22 Distribution Plant Accounts 374-387. This analysis determined the breakdown of each
 23 account into its customer-related and demand-related functions. The customer-related

1 portions of the distribution system include Services (Account 380), Meters (Account 381), 2 and House and Industrial Regulators (Accounts 383 and 385). Distribution Account 380, 3 Services, was allocated to each of the customer classes using allocation factors that weigh 4 the results of multiplying the current cost of the typical services arrangement, determined 5 for each customer class, by the number of customers in each class. Distribution Account 6 381, Meters, was allocated to each of the customer classes using allocation factors that 7 weigh the results of multiplying the current cost of the typical metering arrangement, 8 determined for each customer class, by the number of meters used in serving that class. 9 Distribution Account 383, House Regulators, was allocated to each of the customer classes 10 using allocation factors that weigh the results of multiplying the current cost of a typical 11 regulator, determined for each customer class, by the number of regulators used in serving 12 that class. Distribution Account 385, Industrial Regulators, was allocated to the Large 13 Volume Transportation and Interruptible classes based on the number of customers in each 14 class. All distribution plant not located on the customer's property was classified as 15 demand-related and allocated on a demand basis. Land and Land Rights (Account 374), 16 Structures and Improvements (Account 375), Mains (Account 376), and Measuring and 17 Regulating Equipment – General and City (Accounts 378 and 379) were all allocated based 18 on the Average and Excess Demand Method.

(4) <u>General and Intangible Plant</u>. The balances in these accounts (Account 303, 389398) were allocated to each customer class on the basis of the proportion of labor expense
allocated to each class. This Labor Ratio method of allocation was described more in-depth
above in the question and answer regarding other revenues.

1 (5) <u>Incentive Compensation Capitalized</u>. This is the portion of the incentive 2 compensation that has been capitalized and booked to plant-in-service. It was also allocated 3 based on the proportion of labor expense allocated to each class.

4 (6) <u>Accumulated Reserves for Depreciation</u>. As they are functionalized by type of
5 plant, these reserves were allocated on the same basis as the corresponding plant accounts
6 described above.

7 (7) <u>Materials and Supplies</u>. This component consists of local materials related to
8 production, transmission, and distribution facilities and was allocated on the basis of
9 allocated gross plant.

10 (8) <u>Gas Stored Underground</u>. This component consists of natural gas storage 11 inventories and was allocated based on winter (November-March) sales volumes to each 12 respective customer class because winter is typically the period when such underground 13 storage is utilized. Transportation customers were not allocated stored gas since they 14 purchase their gas supply from third parties.

- (9) <u>Cash Working Capital</u>. This item is related primarily to operating expenses, and
 therefore was allocated to each customer class in proportion to the total operating expenses
 allocated to each class.
- (10) <u>Customer Advances and Deposits</u>. This component of rate base was assigned to
 each class on the basis of the total customer deposits by rate class for the test year.

(11) <u>Total Accumulated Deferred Income Taxes.</u> This component is related primarily
 to investment in property, and therefore was allocated to each customer class on the basis
 of allocated gross plant.

Q. How did you allocate the Missouri jurisdictional test year natural gas
 operating and maintenance expenses, as developed by Mr. Lansford, to the various
 customer classes?

A. In general, with very few exceptions, the Missouri natural gas operating and maintenance expenses were allocated to the customer rate classes on the same basis as the related investment in plant. This type of allocation employs the familiar and widely used "expenses follow plant" principle of cost allocation. For example, the allocator for distribution main plant was utilized to allocate distribution main expenses. The only exceptions to this allocation procedure are as follows:

10 (1) <u>Production Expenses</u>. This item consists of two categories: demand and 11 commodity. The demand, or fixed, portion of production expenses was allocated on the 12 same basis as production plant, while the commodity, or variable, portion was allocated 13 based on volumes delivered to each customer class.

14 (2) Customer Accounts Expenses. Account 903, Customer Records and Collection 15 Expenses, was allocated to each class based on the number of annual bills in each customer 16 class. Account 904, Uncollectible Accounts, uses an external allocation factor that assigns 17 costs on the basis of the amount of uncollectible accounts recorded in the test year for each 18 customer class. Accounts 902 and 905, Meter Reading and Miscellaneous Customer 19 Accounts Expense, were allocated to each class based on the number of customers in each 20 customer class. Account 901, Supervision, was allocated to each class on the basis of the 21 percentage of all other Customer Accounts Expenses (Accounts 902-905) allocated to each 22 class.

(3) <u>Customer Service and Sales Expense</u>. These expenses were allocated to each
 customer class using the same methodology referenced above for the Supervision expenses
 in Account 901.

4 (4) <u>Administrative & General (A&G) Expense</u>. A&G expenses were allocated to 5 the various customer classes on the basis of the class composite distribution of previously 6 allocated labor expenses. As indicated earlier, this allocation method calculates the 7 percentage of total production, transmission, distribution, customer, and sales labor 8 expense for each customer class and assigns A&G expenses to customer classes according 9 to that breakdown.

10

Q. How did you allocate the test year depreciation expenses?

11 A. Since depreciation expenses are functionalized and are directly related to 12 the Company's original cost investment in plant, this expense was allocated to each 13 customer class on the basis of the previously allocated original cost production, 14 transmission, distribution, and general plant.

15

Q. How did you allocate the test year real estate and property taxes?

A. Real estate and property tax expenses are directly related to the Company's
original cost investment in plant, so this expense was allocated to the customer classes on
the basis of gross plant.

19

Q. How did you allocate the test year income taxes?

A. Income tax expense is directly related to the Company's net operating income as a proportion of its net rate base investment, i.e. rate of return on its net original cost rate base. As a result, income taxes were allocated to each class on the basis of the net original cost rate base of each customer class.

| 1 | C. UI | NBUNDLING FUNCTIONAL COST COMPONENTS |
|----|--------------|--|
| 2 | Q. | Does Schedule KAK-D3 provide calculations similar to the calculations |
| 3 | shown in l | both KAK-D1 and KAK-D2? |
| 4 | A. | No. The first two schedules were focused on allocating costs to the customer |
| 5 | classes as | a whole. Schedule KAK-D3 focuses on disaggregating, or further unbundling, |
| 6 | the Compa | ny's class revenue requirements in the CCOSS. This goes a step further than the |
| 7 | first two s | chedules to assign costs at a functional level to make sure that the rates being |
| 8 | paid by the | individual customers in the classes are developed in a manner that is reasonably |
| 9 | consistent | with the costs being caused by those customers. This requires that the costs be |
| 10 | divided int | o functionalized cost categories. |
| 11 | Q. | What were the functionalized cost categories used in unbundling? |
| 12 | A. | The costs from the Company's class revenue requirements were divided into |
| 13 | the follow | ng functionalized cost categories: |
| | (1) | Customer-Related Costs; |
| | (2) | Distribution / Demand-Related Costs; |
| | (3) | Transmission / Demand Related Costs; |
| | (4) | Production / Energy-Related Costs; and |
| | (5) | Production / Demand-Related Costs. |
| 14 | Q. | Why is a breakdown of such costs necessary? |
| 15 | A. | This breakdown is required for Mr. Harding's use in the development of |
| 16 | proposed r | ates in this case, section II of his testimony. The unbundling informs how much |
| 17 | of the reve | nues from each customer class should be derived from the fixed customer charge |
| 18 | and how m | such should be recovered through the volumetric energy charge, if cost causation |
| 19 | was strictly | y followed. |

Q. Please describe the general method for unbundling the Company's revenue requirement.

A. This unbundling process entailed an even more detailed analysis of the various components of the equalized customer class rates of return study presented in Schedule KAK-D2. As the Company's various components of cost presented in Schedule KAK-D2 were allocated to customer classes on either a customer, energy, or demandrelated basis, the unbundling process consisted of extracting these various components of cost and summarizing them into the functional cost categories indicated earlier.

9

10

Q. What is beneficial about identifying the functionalized cost for each of these categories?

11 A. The cost for each functionalized category (customer, production-demand, 12 production-energy, transmission-demand, and distribution-demand) allow us to determine 13 a target customer charge and delivery charge for each customer class. The customer 14 charges are developed by dividing the total functionalized cost attributable to customers 15 (as identified through unbundling) by the total number of annual bills. The remaining cost 16 amounts are added together and divided by the volume of sales in Ccf from the test year to 17 calculate an appropriate delivery charge for each customer class (demand and energy-18 related costs for this example are both reflected in the delivery per Ccf charge). These 19 figures will be used by Mr. Harding as reference points in his development of rates being 20 proposed in this case.

| 1 | | VI. DEVELOPMENT OF BILLING UNITS |
|----|----------------|---|
| 2 | Q. | Please explain what is meant by the term "billing unit." |
| 3 | А. | A billing unit is a quantity of customers (customer count), and gas usage |
| 4 | (Ccf) data tha | t filed rates are applied in determining customers' bills. |
| 5 | Q. | Did you conduct a billing unit analysis for this case? |
| 6 | А. | Yes. I conducted a billing unit analysis using the proposed test year for this |
| 7 | case, twelve n | nonths ending December 31, 2020, as the study period. |
| 8 | Q. | What was the result of the billing unit analysis? |
| 9 | А. | The analysis provides the normalized billing units to be used to develop |
| 10 | proposed rates | s. The analysis shows that the test year retail revenues should be increased by |
| 11 | \$3,855,076 to | reflect normalized conditions. The resulting normalized retail revenues were |
| 12 | utilized by M | r. Lansford in his determination of the sufficiency of present rates to cover |
| 13 | the annual rev | renue requirement he calculated, and are summarized in Table 3 below: |
| | | |

14

Table 3 – Normalized Billing Units

| Customer Rate | Cal | culated | Nor | malized | Total Adjustment | | | | |
|-----------------------|----------|------------|-----|------------|------------------|-----------|--|--|--|
| Class | Revenues | | | enues | | | | | |
| Residential Service | \$ | 42,929,277 | \$ | 45,347,332 | \$ | 2,418,055 | | | |
| General Service | \$ | 14,495,893 | \$ | 15,455,198 | \$ | 959,305 | | | |
| Interruptible Service | \$ | 385,283 | \$ | 402,833 | \$ | 17,550 | | | |
| Standard Transport | ¢ | 8 281 488 | ¢ | 8 663 604 | ¢ | 382 116 | | | |
| Service | φ | 0,201,400 | φ | 8,005,004 | φ | 382,110 | | | |
| Large Transport | ¢ | 1 802 581 | ¢ | 4 070 634 | ¢ | 78 040 | | | |
| Service | φ | 4,092,504 | φ | 4,970,034 | φ | 78,049 | | | |
| Special Contract | \$ | 403,909 | \$ | 403,909 | \$ | - | | | |
| Total | \$ | 71,388,434 | \$ | 75,243,509 | \$ | 3,855,076 | | | |

- 15
- 16

Q. What adjustments were made to normalize the billing units?

- 17 A. There are four primary adjustments:
- 18 (1) Weather Normalization adjustment to reflect normal weather conditions;

- 1 (2) COVID-19 Normalization adjustment to reflect the normal Ccf usage during the
- 2 months of April, May and June for non-residential customers;
- 3 (3) Customer Growth adjustment for the Residential and General Service classes to
- 4 capture the expected customer growth through September 2021; and
- 5 (4) Days and Leap Year adjustment to adjust for the extra day in February and
- 6 adjust the energy used within the calendar days of each month.
- 7

 Table 4 – Billing Unit Adjustment Summary

| Customer Weather | | COVID-19 | | Gro | owth | Da | ys & | Total | | | |
|--------------------------|----|-----------|------------|---------|------|---------|------|-----------|--------------|-----------|--|
| Rate Class | Ad | justment | Adjustment | | Adj | ustment | Le | ap Year | Adjustment | | |
| | | | | | | | Ad | justment | | | |
| Residential | | | | | | | | | | | |
| Service | \$ | 1,702,769 | \$ | - | \$ | 473,427 | \$ | 241,859 | \$ 2 | 2,418,055 | |
| General | | | | | | | | | | | |
| Service | \$ | 823,460 | \$ | 324,528 | \$ | 111,721 | \$ | (300,403) | \$ | 959,305 | |
| Interruptible | | | | | | | | | | | |
| Service | \$ | 19,031 | \$ | 40,164 | \$ | - | \$ | (41,645) | \$ | 17,550 | |
| Standard | | | | | | | | | | | |
| Transport | | | | | | | | | | | |
| Service | \$ | 155,231 | \$ | 258980 | \$ | - | \$ | (32,095) | \$ | 382,116 | |
| Large | | | | | | | | | | | |
| Transport | | | | | | | | | | | |
| Service | \$ | 31,081 | \$ | 65,596 | \$ | - | \$ | (18,628) | \$7 | 8,0049 | |
| Special | | | | | | | | | | | |
| Contract | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | |
| Total \$2,731,573 | | 731,573 | \$689,268 | | \$58 | 5,148 | \$(1 | 50,913) | \$ 3,855,076 | | |

8

Q. What was the initial step you took in the development of the Company's

9 billing units for each customer class?

A. I utilized Company reports containing aggregate Ccf sales, revenues, and 11 customer counts on a monthly basis for the Residential Service, General Service, 12 Interruptible Service, Standard and Large Transport Service, and Special Contract rate 13 classes to develop a detailed monthly report providing the billing units that are applied to 14 the Company's filed rates for calculated billed revenues.

¹⁰

| 1 | Q. | Do the revenues calculated from this process exactly match the |
|----|-----------------|--|
| 2 | revenues in | dicated on the Company's books ("reported revenue") for the same |
| 3 | period? | |
| 4 | А. | While the comparison of the calculated revenue and reported revenue match |
| 5 | closely, there | will always be some difference between the two. The difference results from |
| 6 | billing adjust | ments made to a number of accounts each month for corrected billings, and |
| 7 | initial and fir | al pro-rated billings. |
| 8 | Q. | How were the billing units and revenues adjusted to reflect normal |
| 9 | weather? | |
| 10 | А. | Weather adjustment ratios for each billing month were applied to adjust the |
| 11 | monthly repo | orted sales of each customer rate class to normalize for any abnormal weather |
| 12 | conditions th | at occurred during the test year. Mr. Harding expands upon this adjustment in |
| 13 | his testimony | r, section II. |
| 14 | Q. | How were the billing units adjusted to reflect the change in usage |
| 15 | during the b | eginning of the COVID-19 pandemic? |
| 16 | А. | This adjustment took into account the average of the last two years of |
| 17 | normalized C | cf gas sales and deliveries and adjusted our weather normalized usage for the |
| 18 | test year duri | ng the months of April, May, and June. This adjustment reconciles the impact |
| 19 | of the change | in usage during the initial lockdown months of the pandemic. This adjustment |
| 20 | was applied t | o non-residential rate classes because of the abnormal shift in usage of those |
| 21 | customers du | te to lockdowns during the beginning of the pandemic. The first lockdown |
| 22 | during the mo | onths of April, May, and June exhibited a larger decrease than the average and |
| 23 | relatively cor | stant and ongoing decrease in sales observed during the remaining six months |

1 of the test year. This ongoing level of sales decrease was determined by comparing the 2 normalized average sales from the last six months of the prior two calendar years, 2018 3 and 2019, to the sales reported in the last six months of the test year. Then, the non-4 residential classes' decreased usage during the initial lockdown months were adjusted by 5 taking the percentage change in average usage during the remaining six months from the 6 average usage of those same months in the two years prior and adjusting the April, May, 7 and June usage so that the resulting decline in sales from the prior two year normalized 8 average was similar to the decline experienced in the last six months of the test year. This 9 gives us the normalized Ccf usage that should have occurred if we did not have the more 10 severe initial lockdown during the months of April, May, and June but still experienced the 11 more lasting decrease in sales that occurred due to a shift in usage because of COVID. This 12 adjustment is further detailed in the Gas COVID Adjustment Apr-Jun 2020 workpaper.

13

Q. How were the billing units adjusted for Customer Growth?

14 A. The normalized billing units were adjusted for customer growth by 15 calculating the average growth rate for the number of customers in the past 5 years for our 16 Residential and General Service customer classes and projecting that rate of growth 17 through the expected true-up date for the case. The average annual growth rate for 18 Residential customers is 0.83% and is 0.49% for General Service customers. During the 19 test year, customer counts are typically growing because of new customer connections 20 exceeding the number of customers that disconnect from the system. This adjustment 21 allows us to annualize the customer growth that would likely occur through September 22 2021 (to capture the proposed true-up period) based on our average growth rate of

customers for those classes. This adjustment is further detailed in the Customer Growth
 Res & GS Adjustment workpaper.

3

Q. How were the billing units adjusted for Days and Leap Year?

4 A. The Company's observed billing units for a given billing month do not 5 necessarily represent Ccf that were used during the similarly named calendar month. In 6 fact, it is rare that a customer's billing month corresponds exactly to the calendar month 7 with the same name. The lack of correspondence between billing month and calendar 8 month is a result of the staggered reading of groups of meters, i.e. different customers have 9 different billing cycles. Therefore, customers whose billing cycle overlaps two calendar 10 months will have billing units assigned to a single billing month by the Company's billing 11 system, but truly have billing units which occurred in two different calendar months. The 12 lack of correspondence between billing months and calendar months can also result in 13 customers whose billing year is more or less than a 365-day calendar year, depending on 14 the schedule of the billing cycle in which their meter is read. Therefore, these customers' 15 billing units need to be decreased or increased to reflect a normal 365-day year. The days 16 adjustment corrects both of these deviations by shifting billing units across adjacent months 17 and constraining total billing units to the 365-day calendar year.

18 The Leap Year adjustment corrects the Ccf usage for the month of February to 19 exclude the extra day of usage that only occurs once every four years. This is calculated by 20 taking the normalized average of the month of February, to get the normal usage that would 21 occur daily during the month of February. One day of this daily usage was then subtracted 22 from the total Ccf usage for the month of February.

1 Q. Were any other adjustments made to the class-level loads besides the

2 calculations listed above?

3 A. Yes, the General Service and Transportation accounts have been reviewed 4 for rate switchers and customer accounts leaving the system during the test year. Where 5 identified, adjustments have been made to shift usage in the respective classes to adjust for 6 rate switchers based on the customer's most recent class selection in the test year. For 7 accounts identified as leaving the system during the test year that are not rate switchers, 8 their usage is removed for the full year to reflect the change in usage expected from them 9 leaving the system. This adjustment is made to attempt to reflect, as accurately as possible, 10 the expected, normalized revenues from each class based on the current status of those 11 customer accounts.

Q. Does the Company intend to revise its billing units and associated test year revenue to reflect a more recent 12-month period as this case progresses?

A. Yes. The Company anticipates that rather than relying on the 12-months ending December 31, 2020 data, a more current period will be utilized to allow the most current usage information possible to be used to set rates in this case.

Q. What do you do with the final normalized billing unit numbers?
A. These are used in the development of the final rate design proposed in the
case.

- 20 Q. Does this conclude your direct testimony?
- A. Yes, it does.

<u>Ameren Missouri</u>

MISSOURI GAS OPERATIONS CLASS COST OF SERVICE ALLOCATION STUDY 12 MONTHS ENDED DECEMBER 2020

TITLE: COST OF SERVICE SUMMARY (Current Rates)

| | | TRANSPORTATION SERVICE | | | | | | ON SERVICE | | | | | |
|--------|-------------------------------|------------------------|-------------|---------------------|-------------|----|----------------------|------------|-----------|----------|--------------|----|------------|
| LINE # | <u># ITEM MISSOURI</u> | | R | RESIDENTIAL GENERAL | | | INTERRUPTIBLE | | | STANDARD | LARGE VOLUME | | |
| 1 | | | | | | | | | | | | | |
| 2 | COST OF SERVICE SUMMARY | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | |
| 4 | GAS OPERATING REVENUE | | | | | | | | | | | | |
| 5 | Sale of Gas | \$ | 74,839,600 | \$ | 45,347,332 | \$ | 15,455,198 | \$ | 402,833 | \$ | 8,663,604 | \$ | 4,970,634 |
| 6 | Special Contract Revenues | \$ | 403,909 | \$ | 237,430 | \$ | 90,018 | \$ | 3,332 | \$ | 40,937 | \$ | 32,192 |
| 7 | Other Operating Revenues | \$ | 1,821,735 | \$ | 1,440,758 | \$ | 269,381 | \$ | 4,268 | \$ | 64,293 | \$ | 43,035 |
| 8 | | | | | | | | | | | | | |
| 9 | TOTAL GAS OPERATING REVENUES | \$ | 77,065,244 | \$ | 47,025,519 | \$ | 15,814,598 | \$ | 410,433 | \$ | 8,768,834 | \$ | 5,045,860 |
| 10 | | - | | - | | - | | - | | - | | - | |
| 11 | EXPENSES: | | | | | | | | | | | | |
| 12 | Total Gas O&M Expenses | \$ | 36,127,728 | \$ | 24,881,293 | \$ | 6,909,348 | \$ | 172,697 | \$ | 2,402,127 | \$ | 1,762,263 |
| 13 | Depreciation Expense | \$ | 15,722,844 | \$ | 9,323,788 | \$ | 3,478,118 | \$ | 124,183 | \$ | 1,573,885 | \$ | 1,222,870 |
| 14 | Taxes Other than Income Taxes | \$ | 9,230,783 | \$ | 5,635,444 | \$ | 2,027,053 | \$ | 67,419 | \$ | 843,916 | \$ | 656,951 |
| 15 | | | | | | | | | | | | | |
| 16 | INCOME TAXES | \$ | 1,469,476 | \$ | 882,281 | \$ | 326,949 | \$ | 11,271 | \$ | 139,538 | \$ | 109,436 |
| 17 | | | | | | | | | | | | | |
| 18 | NET UTILITY OPERATING INCOME | \$ | 14,514,413 | \$ | 6,302,712 | \$ | 3,073,130 | \$ | 34,863 | \$ | 3,809,367 | \$ | 1,294,340 |
| 19 | | - | | - | | - | | - | | - | | - | |
| 20 | RATE BASE | \$ | 310,461,084 | \$ | 182,498,355 | \$ | 69,191,915 | \$ | 2,561,376 | \$ | 31,465,523 | \$ | 24,743,916 |
| 21 | | - | | | | - | | | | | | | |
| 22 | RATE OF RETURN - REALIZED | | 4.68 | | 3.45 | | 4.44 | | 1.36 | | 12.11 | | 5.23 |

Schedule KAK-D1

Ameren Missouri

MISSOURI GAS OPERATIONS CLASS COST OF SERVICE ALLOCATION STUDY 12 MONTHS ENDED DECEMBER 2020

TITLE: COST OF SERVICE SUMMARY (Equal Returns)

| | | TOTAL | | | | | | | | TRANSPORTATION SERVICE | | | | |
|---------------|------------------------------|-----------|-----------------|----|-------------------|----|----------------|----|-------------|------------------------|-----------------|-----|------------|--|
| <u>LINE #</u> | ITEM | | <u>MISSOURI</u> | R | <u>ESIDENTIAL</u> | | <u>GENERAL</u> | IN | TERRUPTIBLE | 3 | <u>STANDARD</u> | LAF | GE VOLUME | |
| 1 | | | | | | | | | | | | | | |
| 2 | COST OF SERVICE SUMMARY | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | GAS OPERATING REVENUE | | | | 17.064% | | 14.609% | | 40.542% | | -15.881% | | 12.465% | |
| 5 | Sale of Gas (Margin) | \$ | 84,242,760 | \$ | 53,085,609 | \$ | 17,713,086 | \$ | 566,147 | \$ | 7,287,700 | \$ | 5,590,219 | |
| 6 | Special Contract Revenues | \$ | 403,909 | \$ | 237,430 | \$ | 90,018 | \$ | 3,332 | \$ | 40,937 | \$ | 32,192 | |
| 7 | Other Operating Revenues | <u>\$</u> | 1,821,735 | \$ | 1,440,758 | \$ | 269,381 | \$ | 4,268 | \$ | 64,293 | \$ | 43,035 | |
| 8 | | | | | | | | | | | | | | |
| 9 | TOTAL GAS OPERATING REVENUES | \$ | 86,468,404 | \$ | 54,763,796 | \$ | 18,072,486 | \$ | 573,748 | \$ | 7,392,929 | \$ | 5,665,445 | |
| 10 | | | | | | | | | | | | | | |
| 11 | EXPENSES: | | | | | | | | | | | | | |
| 12 | Total Gas O&M Expenses | \$ | 36,127,728 | \$ | 24,881,293 | \$ | 6,909,348 | \$ | 172,697 | \$ | 2,402,127 | \$ | 1,762,263 | |
| 13 | Depreciation Expense | \$ | 15,722,844 | \$ | 9,323,788 | \$ | 3,478,118 | \$ | 124,183 | \$ | 1,573,885 | \$ | 1,222,870 | |
| 14 | Taxes Other than Income Tax | \$ | 9,230,783 | \$ | 5,635,444 | \$ | 2,027,053 | \$ | 67,419 | \$ | 843,916 | \$ | 656,951 | |
| 15 | | | | | | | | | | | | | | |
| 16 | INCOME TAXES | \$ | 3,831,738 | \$ | 2,252,411 | \$ | 853,973 | \$ | 31,613 | \$ | 388,350 | \$ | 305,392 | |
| 17 | | | | | | | | | | | | | | |
| 18 | NET UTILITY OPERATING INCOME | \$ | 21,555,311 | \$ | 12,670,860 | \$ | 4,803,994 | \$ | 177,836 | \$ | 2,184,651 | \$ | 1,717,970 | |
| 19 | | | | | | | | | | | | | | |
| 20 | RATE BASE | \$ | 310,461,084 | \$ | 182,498,355 | \$ | 69,191,915 | \$ | 2,561,376 | \$ | 31,465,523 | \$ | 24,743,916 | |
| 21 | | | | | | | | | | | | | | |
| 22 | RATE OF RETURN - REALIZED | | 6.943 | | 6.943 | | 6.943 | | 6.943 | | 6.943 | | 6.943 | |

Schedule KAK-D2

Ameren Missouri MISSOURI GAS OPERATIONS CLASS COST OF SERVICE ALLOCATION STUDY 12 MONTHS ENDED DECEMBER 2020

| | | 12 MONTHS ENDED DECEMBER 2020 | | | | | | | | | | Transportation Service | | | |
|--|--------------|-------------------------------|-----------|-----------------------|-----------|----------------------|-----------|----------------------|-----------|---------------------|-----------|------------------------|--|--|--|
| | <u>Total</u> | | | Residential | | <u>General</u> | | <u>Interruptible</u> | | Standard | | Large Volume | | | |
| Revenue Requirement | | | | | | | | | | | | | | | |
| Customer | \$ | 39,913,178 | \$ | 31,632,658 | \$ | 7,103,537 | \$ | 35,188 | \$ | 895,262 | \$ | 246,533 | | | |
| Production Demand | \$ | 2,182,917 | \$ | 1,464,321 | \$ | 718,596 | \$ | - | \$ | - | \$ | - | | | |
| Production Energy | \$ | 377,988 | \$ | 248,330 | \$ | 115,057 | \$ | 4,815 | \$ | 5,338 | \$ | 4,447 | | | |
| Transmission Demand Distribution Demand | \$ \$ | 416,438 43,577,884 | \$ \$ | 205,722 21,212,763 | \$ \$ | 96,596 10,038,700 | \$ \$ | 4,763 528,982 | \$ \$ | 60,080 6,432,249 | \$ \$ | 49,276 5,365,189 | | | |
| | \$ | 86,468,404 | \$ | 54,763,796 | \$ | 18,072,486 | \$ | 573,748 | \$ | 7,392,929 | \$ | 5,665,445 | | | |
| Other Revenue | | | | | | | | | | | | | | | |
| Customer | \$ | 1,821,735 | \$ | 1,440,758 | \$ | 269,381 | \$ | 4,268 | \$ | 64,293 | \$ | 43,035 | | | |
| Production Demand | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | | | |
| Production Energy | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | | | |
| Transmission Demand | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | | | |
| Distribution Demand | <u>\$</u> | - | <u>\$</u> | - | <u>\$</u> | - | <u>\$</u> | - | <u>\$</u> | - | <u>\$</u> | - | | | |
| | \$ | 1,821,735 | \$ | 1,440,758 | \$ | 269,381 | \$ | 4,268 | \$ | 64,293 | \$ | 43,035 | | | |
| Special Contracts | \$ | 403,909 | \$ | 237,430 | \$ | 90,018 | \$ | 3,332 | \$ | 40,937 | \$ | 32,192 | | | |
| Customer | \$ | 130,874 | \$ | 100,992 | \$ | 26,510 | \$ | 66 | \$ | 2,888 | \$ | 418 | | | |
| Production Demand | \$ | 3,823 | \$ | 2,577 | \$ | 1,247 | \$ | - | \$ | - | \$ | - | | | |
| Production Energy | \$ | 5,588 | \$ | 3,772 | \$ | 1,744 | \$ | 72 | \$ | (0) | \$ | (0) | | | |
| Transmission Demand | \$ | 3,578 | \$ | 1,768 | \$ | 830 | \$ | 41 | \$ | 516 | \$ | 423 | | | |
| Distribution Demand | <u>\$</u> | 260,045 | <u>\$</u> | 128,321 | <u>\$</u> | 59,687 | <u>\$</u> | 3,153 | <u>\$</u> | 37,533 | <u>\$</u> | 31,351 | | | |
| | \$ | 403,909 | \$ | 237,430 | \$ | 90,018 | \$ | 3,332 | \$ | 40,937 | \$ | 32,192 | | | |
| Base Revenue | | | | | | | | | | | | | | | |
| Customer | \$ | 37,960,569 | \$ | 30,090,909 | \$ | 6,807,646 | \$ | 30,854 | \$ | 828,080 | \$ | 203,080 | | | |
| Production Demand | \$ | 2,179,094 | \$ | 1,461,745 | \$ | 717,349 | \$ | - | \$ | - | \$ | - | | | |
| Production Energy | \$ | 372,400 | \$ | 244,558 | \$ | 113,312 | \$ | 4,743 | \$ | 5,339 | \$ | 4,448 | | | |
| Transmission Demand | \$ | 412,860 | \$ | 203,954 | \$ | 95,766 | \$ | 4,722 | \$ | 59,565 | \$ | 48,853 | | | |
| Distribution Demand | <u></u> | 43,317,839 | \$ | 21,084,443 | <u></u> | 9,979,013 | <u>\$</u> | 525,829 | <u></u> | 6,394,716 | <u>\$</u> | 5,333,838 | | | |
| | \$ | 84,242,760 | \$ | 53,085,609 | \$ | 17,713,086 | \$ | 566,147 | \$ | 7,287,700 | \$ | 5,590,219 | | | |
| Customer | | | \$ | 20.92 | \$ | 43.61 | \$ | 367.31 | \$ | 104.70 | \$ | 828.90 | | | |
| Delivery | | | \$ | 0.3078 | \$ | 0.3025 | \$ | 0.2733 | \$ | 0.1809 | \$ | 0.1811 | | | |

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

)

)

)

In the Matter of Union Electric Company d/b/a Ameren Missouri's Tariffs to Adjust Its Revenues for Electric Service.

Case No. GR-2021-0241

AFFIDAVIT OF KELSEY ANN KLEIN

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

Kelsey Ann Klein, being first duly sworn on his oath, states:

My name is Kelsey Ann Klein, and on her oath declare that she is of sound mind and lawful age; that she has prepared the foregoing *Direct Testimony*; and further, under the penalty of perjury, that the same is true and correct to the best of my knowledge and belief.

/s/ Kelsey Ann Klein

Kelsey Ann Klein

Sworn to me this 30th day of March, 2021.