

Exhibit No. 301

Exhibit No.:
Issues: Large Load Rate Plan
Witness: Maurice Brubaker
Type of Exhibit: Surrebuttal Testimony
Sponsoring Party: Missouri Industrial Energy Consumers
Case No.: ET-2025-0184
Date Testimony Prepared: November 3, 2025

**BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI**

In the Matter of the Application of Union
Electric Company d/b/a Ameren Missouri
for Approval of New Modified Tariffs for
Service to Large Load Customers

Case No. ET-2025-0184

Surrebuttal Testimony and Schedules of

Maurice Brubaker

On behalf of

Missouri Industrial Energy Consumers

November 3, 2025



Project 11842

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OF THE STATE OF MISSOURI**

In the Matter of the Application of Union
Electric Company d/b/a Ameren Missouri
for Approval of New Modified Tariffs for
Service to Large Load Customers

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Case No. ET-2025-0184

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


Affidavit of Maurice Brubaker

Maurice Brubaker, being first duly sworn, on her oath states:

1. My name is Maurice Brubaker. I am a consultant in the field of public utility regulation and associated with the firm of Brubaker & Associates, Inc., having its principal place of business at 16690 Swingley Ridge Road, Suite 140, Chesterfield, Missouri 63017. We have been retained by the Missouri Industrial Energy Consumers in this proceeding on their behalf.

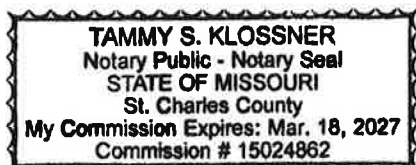
2. Attached hereto and made a part hereof for all purposes are my Surrebuttal Testimony and Schedules which were prepared in written form for introduction into evidence in Missouri Public Service Commission Case No. ER-2025-0184.


3. I hereby swear and affirm that the testimony and schedules are true and correct and that they show the matters and things that they purport to show.



Maurice Brubaker

Subscribed and sworn to before me this 3rd day of November, 2025.





Notary Public

In the Matter of the Application of Union Electric Company d/b/a Ameren Missouri for Approval of New Modified Tariffs for Service to Large Load Customers))))))	Case No. ET-2025-0184
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BRUBAKER & ASSOCIATES, INC.

**BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI**

**In the Matter of the Application of Union
Electric Company d/b/a Ameren Missouri
for Approval of New Modified Tariffs for
Service to Large Load Customers**

Case No. ET-2025-0184

Surrebuttal Testimony of Maurice Brubaker

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

2 A Maurice Brubaker. 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 associated with the firm of
6 Brubaker & Associates, Inc. ("BAI"), energy, economic and regulatory consultants.

7 **Q ARE YOU THE SAME MAURICE BRUBAKER WHO FILED REBUTTAL
8 TESTIMONY IN THIS PROCEEDING ON SEPTEMBER 5, 2025?**

9 A Yes, I am.

10 **Introduction**

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

12 A I am appearing on behalf of the Missouri Industrial Energy Consumers ("MIEC"). As
13 customers of Ameren Missouri ("AMO") they are keenly interested in the potential
14 benefits that will accrue to the AMO service territory if substantial new customers and

**Maurice Brubaker
Page 1**

1 business operations become customers in the AMO service territory. At the same time,
2 the potential growth in the service territory presents some significant challenges in
3 terms of providing the necessary service as well as increasing concerns about the
4 potential impact on existing customers that might result from these potential
5 expansions.

6 Under AMO's proposal for service to large load customers,¹ they will be served
7 under regular rates (in particular, the Large Primary Service ("LPS") rate) with the
8 requirement that they take service at the transmission level and with certain other
9 special provisions designed to address features of the customers expected to
10 participate in the Large Load Customer ("LLC") Rate Plan. AMO proposes to require
11 each such customer to execute an Electric Service Agreement ("ESA"), which will
12 require specific approval by the Commission.

13 In contrast to AMO's logical approach of building off of the existing approved
14 rate structure, the Staff of the Missouri Public Service Commission ("Staff") completely
15 disregards the existing rate structure and proposes to use entirely new cost of service
16 and rate design concepts that it proposes to apply to new customers and load growth
17 of existing customers, both in excess of approximately 25 MW.

18 **Summary of Testimony**

19 **Q COULD YOU PLEASE SUMMARIZE YOUR TESTIMONY?**

20 **A** My recommendation is that Staff's proposed rate be rejected.

¹AMO defines these as customers with an electrical load of more than 100,000 kW.

Q PLEASE ELABORATE.

A The recommendation is based on the following:

1. Staff's proposed rate makes no attempt to work within the existing rate structure and rate policies of AMO to accommodate large new loads.
2. Staff's proposal is overly complex, unnecessarily burdensome and is not cost-based.
3. Staff's rate includes many components that are not found in AMO's current rate structure, or in the rate structure of any other utility of which I am aware.
4. The cost to a customer under Staff's proposed rates would exceed the cost under current Rate 11M by about 70%.
5. Staff's rate design and cost are totally detached from any class cost of service analysis that typically forms guidelines for the development and application of rates.

Q PUTTING THAT ASIDE FOR THE MOMENT, DO YOU HAVE ANY COMMENT ABOUT STAFF'S PROPOSAL TO APPLY ITS RATE TO CUSTOMERS WITH DEMANDS IN EXCESS OF 25 MW, RATHER THAN AMO'S PROPOSAL TO APPLY ITS RATE TO LOADS IN EXCESS OF 100 MW?

A Yes. As explained in more detail later in my testimony, a 25 MW threshold is inconsistent with general industry practices and should be rejected in favor of AMO's 100 MW proposed threshold. 25 MW is extremely small in relation to AMO's annual peak of about 7,100 MW. A load of this size cannot be considered as "large."

Q STAFF RECOMMENDS REJECTION OF AMO'S PROPOSED NEW RATES AND RIDERS. WHAT IS YOUR POSITION?

A I believe that each of the proposed rates and riders has value, but requires further definition and explanation.

An important factor that neither AMO nor Staff addresses is how to apportion the renewable attributes among eligible customers requesting to take advantage of

1 these rates and riders. In order to have an equitable program, it is important that the
2 rates specify the manner of apportioning these attributes. Absent the development and
3 justification of a different method, I recommend that a pro rata allocation among
4 applying customers be followed.

5 **Staff's Proposal**

6 **Q HAVE YOU REVIEWED THE PROPOSALS OF STAFF WITH RESPECT TO**
7 **SERVING CERTAIN POTENTIAL NEW LOADS?**

8 A Yes. Staff unfortunately has chosen to propose a totally new approach to class revenue
9 requirements and the design of rates rather than to work with the current established
10 rate structure.

11 **Q HOW WOULD YOU CHARACTERIZE STAFF'S PROPOSAL?**

12 A Staff's proposal is completely unconnected to any existing cost of service or rate
13 designs that underlie the current, approved, rates and rate structures of AMO. The
14 proposed rate is unnecessarily complex, novel, and inappropriate.

15 **Q ON SCHEDULE 1, PAGE 1, OF STAFF'S RECOMMENDATIONS, WHICH ARE IN**
16 **APPENDIX 2, STAFF WOULD PRECLUDE CUSTOMERS ON SCHEDULE LLCS**
17 **FROM SERVICE UNDER OR PARTICIPATION IN 12 SEPARATE PROVISIONS IN**
18 **THE EXISTING TARIFFS. HAS STAFF EXPLAINED THE BASIS FOR THIS**
19 **PROPOSED PROHIBITION?**

20 A Staff was asked this question in discovery and basically provided a non-answer. The
21 following question and answer are addressed to this issue:

1 "DR47 MIEC-STAFF 1-5.

2 On page 1 of Schedule 1, there are 12 different services listed which
3 LLCS customers would not be eligible for. For each one of these
4 exclusions, please explain in detail the basis for the exclusion.

5 Staff Witness: Sarah Lange

6 **Staff Response:**

7 **Each of these services would interfere with recovery of the actual**
8 **amount to be billed under the recommended tariff."**

9 Basically, Staff simply says these services would interfere with recovery of the
10 amounts to be billed under Staff's recommend tariff. This leaves a number of questions
11 unanswered. For example, why shouldn't customers receive credit for
12 customer-owned substations (Rider B)? Why shouldn't supplementary service and
13 standby service that would apply if the customer had some self-generation be
14 available? Why shouldn't they be eligible for demand response or curtailment
15 programs, and many others?²

16 **Q ON PAGE 4 OF SCHEDULE 1, THERE IS A LISTING OF RATE COMPONENTS**
17 **THAT STAFF WOULD PROPOSE TO APPLY TO LARGE CUSTOMERS. HAVE**
18 **YOU REVIEWED THIS TABLE OF RATES?**

19 **A** Yes. Some of the rate categories are generally found in other tariffs, such as customer
20 charge, demand charges, energy charge, etc. However, many of the listed charges
21 are not ones that are frequently, or ever, encountered in the tariffs of other utilities.
22 They appear to be newly invented components of a rate concept that Staff seems to
23 think would be appropriate to charge customers. For example, the "Variable Fixed
24 Revenue Contribution," the "Stable Fixed Revenue Contribution," the "Demand

²For convenience, the questions MIEC proposed to Staff, and Staff's responses, are attached hereto as Schedule MEB-3. (Schedules MEB-1 and MEB-2 were attached to my rebuttal testimony.)

1 Deviation Charge,” and several “Imbalance Charges” are not charges that we normally
2 find in the tariffs of other utilities.

3 **Q WAS STAFF ABLE TO PROVIDE EXAMPLES OF OTHER UTILITIES THAT**
4 **CHARGE RATES WITH THESE KINDS OF COMPONENTS?**

5 **A** I do not know whether they could or not, but in response to a data request they chose
6 not to do so. For example:

7 “DR47 MIEC-STAFF 1-10.

8 With respect to the charges listed on page 4 of Schedule 1, please
9 provide all utilities that, to Staff’s knowledge, include one or more of
10 these charges in their tariff applicable to Large Load Customers. Please
11 provide copies of the tariffs.

12 Staff Witness: Sarah Lange

13 **Staff Response:**

14 **Staff counsel objected to this data request. To the extent that the**
15 **DR asks for estimates, analysis, or calculations that have not been**
16 **performed by Staff, Staff will not provide a response.”**

17 The basis for failure to respond was a statement that, “To the extent that the
18 DR asks for estimates, analysis, or calculations that have not been performed by Staff,
19 Staff will not provide a response.” Staff is dodging the issue by posing an objection to
20 something that was not asked of Staff. The DR simply asks Staff to identify any utilities
21 that, “...to Staff’s knowledge” apply one or more of these charges, and did not ask for
22 estimates, analysis or calculations.

23 I think the obvious conclusion is that Staff could not point to the tariffs of any
24 other utilities that contain these charges.

1 Q ON PAGE 2 OF STAFF'S SCHEDULE 1 IN APPENDIX 2, THERE IS A LIST OF
2 COMPONENTS OF A SERVICE AGREEMENT. ONE OF THE ITEMS,
3 PARAGRAPH C, CALLS FOR DETAILED INFORMATION ABOUT ANTICIPATED
4 LOAD BY MONTH AND YEAR FOR A MINIMUM OF 15 YEARS. THERE ALSO ARE
5 SIX SUBCATEGORIES OF DETAILED REQUIREMENTS FOR WHAT THE
6 CUSTOMER SHOULD PROVIDE TO THE UTILITY. IN YOUR EXPERIENCE ARE
7 THESE KINDS OF REQUIREMENTS TYPICALLY FOUND IN SERVICE
8 AGREEMENTS?

9 A In my experience, no.

10 Q WAS STAFF ABLE TO PROVIDE ANY EXAMPLES OF THE TARIFFS OF OTHER
11 UTILITIES THAT CONTAINED SIMILAR REQUIREMENTS?

12 A As before, I do not know whether they were able to or not, but they refused to even
13 answer the question. The answer provided was the same as the one provided and
14 referenced previously, namely: "To the extent that the DR asks for estimates, analysis,
15 or calculations that have not been performed by Staff, Staff will not provide a response."

16 Obviously MIEC's DR did not ask for any of these items, yet Staff chose not to
17 respond meaningfully. Again, the obvious conclusion is that Staff does not know of
18 any.

19 **Staff's Rejection of Proposed New Rates and Riders**

20 Q HAS AMO PROPOSED SEVERAL NEW RATES AND RIDERS?

21 A Yes. AMO has proposed several new rates and riders. They are as follows:

- 22 ➤ Rider RSP LLC (Renewable Solutions Program – Large Load Customers), which
23 is similar to the Company's existing, Commission-approved Renewable Solutions
24 Program but with modifications tailored to meet large load customer needs.

- 1 ➤ Rider NEC (Nuclear Energy Credits Program), which is a new program developed
2 as another means of meeting large load customers' needs for clean energy through
3 the provision to such customers of the clean energy attributes of nuclear energy
4 produced by Company-owned nuclear resources.
- 5 ➤ Rider CCAP (Clean Capacity Advancement Program), which is a new program
6 allowing large load customers to support energy storage systems that enable the
7 storage of clean Energy.
- 8 ➤ Rider CEC (Clean Energy Choice Program), which is a new program that allows
9 large load customers to propose and ultimately cover the costs for advancing
10 supply-side resources that otherwise would not have been pursued by the
11 Company pursuant to its Preferred Resource Plan.

12 **Q WHAT IS STAFF'S POSITION WITH RESPECT TO THESE NEW RATES AND**
13 **RIDERS?**

14 A On pages 67-85 of rebuttal, Staff expresses conceptual concerns and poses objections
15 to the formulation of all of these proposed new rates and riders.

16 **Q HAVE YOU PREVIOUSLY EXPRESSED YOUR OPINION WITH RESPECT TO**
17 **THESE RATES AND RIDERS?**

18 A Yes. I did so on pages 4-6 of my rebuttal testimony. Although the programs need
19 additional explanation, I believe they are valuable. Many large load customers are very
20 sophisticated energy users, and many have specific corporate objectives with respect
21 to the nature of their electric service. Specifically, many such customers have clean,
22 or carbon-free, energy goals that drive their energy procurement activities and which
23 can influence their decisions regarding where to locate. The kinds of programs
24 proposed by AMO constitute a meaningful and reasonable path to provide access to
25 renewable attributes that customers could utilize in their programs.

1 I continue to object to limiting the availability of any of these rates or riders only
2 to new large load customers. Instead, all interested Rate 11M customers should be
3 eligible to participate in each of these programs.

4 In order to ensure an equitable application, I also recommend that the method
5 of apportioning attributes among applicants be clearly spelled out in the tariff. This will
6 help ensure that all interested customers are treated equitably.

7 In my rebuttal testimony, I suggested that one approach could be the auction
8 approach that was used in AMO's most recent RSP program. Subsequently, from
9 discussions with customers and with AMO, I have learned that there were some
10 difficulties and dissatisfactions with that approach. Consequently, I am recommending
11 that a different apportionment method be adopted for these new rates and riders, and
12 in the absence of working out any other mechanism, a "pro rata" approach to apportion
13 available attributes among customers expressing an interest in them would be a
14 reasonable approach. Establishing an equitable apportionment method in advance of
15 execution is critical to program fairness.

16 **Megawatt Threshold for Requirements to**
17 **Take Service Under Staff's Proposed LLCS Rate**

18 **Q WHAT IS THE MEGAWATT LOAD SIZE THRESHOLD THAT STAFF PROPOSES**
19 **TO USE TO REQUIRE TAKING SERVICE UNDER THE LLCS RATE?**

20 **A** Staff proposes a threshold of 25 MW.

21 **Q HOW DOES THIS COMPARE TO AMO'S PROPOSAL?**

22 **A** AMO has proposed to make the threshold after which use of the LLCS tariff would be
23 mandatory at 100 MW.

1 **Q IN YOUR OPINION, WHICH THRESHOLD IS MORE APPROPRIATE?**

2 A By far, the 100 MW threshold is more appropriate than Staff's minuscule 25 MW
3 threshold.

4 **Q WHY DOES STAFF SAY THAT IT CHOSE 25 MW?**

5 A This is set forth in Staff's response to DR47 MIEC-STAFF 1-12, and is shown in
6 Schedule MEB-3.

7 **Q DO YOU BELIEVE STAFF'S EXPLANATION JUSTIFIES A 25 MW THRESHOLD?**

8 A No. Staff's justification is largely based on experience with relatively small loads that
9 have been experienced by AMO and some other utilities; in Staff's view. This just
10 happens to be the level of load for which there has been recent experience, because
11 (except for the 500 MW Noranda load) large loads have not been experienced on the
12 AMO system. Thus, the actual circumstance of load size is coincidental, and does not
13 justify a load threshold. Also, the fact that a load may be served at transmission really
14 tells us nothing about the potential impact of the load on the utility's system, as
15 compared to the impact of other loads. Accordingly, Staff's criteria is not objective and
16 does not consider factors that make a difference.

17 **Q ARE THERE ANY INDUSTRY ANALYSES OR SIMILAR REVIEWS OR STUDIES**
18 **THAT ADDRESS THIS ISSUE?**

19 A Yes. The North American Electric Reliability Corporation ("NERC") sponsors a Large
20 Load Task Force. (NERC is the organization that establishes reliability requirements
21 for electric utilities.)

Q WHAT HAS THE TASK FORCE RECENTLY SAID ON THIS ISSUE?

A The September 2025 report of the Large Load Task Force generally discussed the issue and stated the following at page v:

“Emerging large loads, such as data centers, crypto-mining facilities and industrial hydrogen production, are introducing numerous challenges to the reliability, resilience and security of the North American BPS.³ These facilities, which are rapidly increasing in number, scale and operational complexity, strain existing NERC reliability standards, interconnection practices, and system planning assumptions that were not designed to account for their unique characteristics.”

Obviously, the concern is brought about by large loads that are materially different from loads that utilities generally have been serving. Loads of this nature will be substantially larger than 25 MW.

Q WHAT ELSE HAS NERC RECENTLY SAID ABOUT THIS ISSUE?

A The June 2025 report entitled “Characteristics and Risks of Emerging Large Loads” discussed the size issue and reported on the results of surveys of its membership. Recognizing that a number of factors come into play, the task force reported:

“In November 2024, a subgroup of the NERC LLTF conducted an informal survey to gather feedback from participants on what load size should qualify as “large” under a potential NERC regulatory construct. Most of the survey respondents qualified “large” as greater than 50 MW, and the single size number most commonly suggested was 75 MW.”

This is a credible opinion by those responsible for the operation of the electric system, as contrasted to an opinion by those who have no such responsibility.

³Bulk Power System.

1 **Q ARE YOU GENERALLY FAMILIAR WITH THE TARIFFS OF OTHER ELECTRIC**
2 **UTILITIES WHO ARE EXPERIENCING SUBSTANTIAL INTEREST FROM DATA**
3 **CENTERS AND OTHER LARGE LOADS?**

4 **A**Yes. Schedule MEB-4 is a summary of large load tariff provisions⁴ for areas that I am
5 familiar with that have significant activity concerning the addition of large loads. The
6 AMO tariff proposal is at the top for reference. The tariffs following generally are listed
7 in descending size of threshold requirements. Most generally, the size is 100 MW or
8 larger for service under the large load tariff. These are generally consistent with AMO's
9 proposal, and Staff's 25 MW threshold proposal is out of range and should not be
10 adopted.

11 **Q I NOTE THAT THE LAST UTILITY ON THE TABLE IS OHIO POWER WITH A**
12 **THRESHOLD OF 25 MW. HOW DOES OHIO POWER COMPARE TO AMO IN**
13 **TERMS OF PEAK LOAD?**

14 **A**Ohio Power is significantly smaller. According to information provided in its most recent
15 FERC Form 1 Report, Ohio Power's maximum demand was 2,252 MW.

16 **Q HOW DOES THIS COMPARE TO THE SIZE OF THE AMO SYSTEM?**

17 **A**Accordingly to AMO's most recent FERC Form 1 Report, its annual peak load was
18 7,199 MW, or more than three times the size of Ohio Power's load. So, it is not
19 surprising that we would see Ohio Power with a much lower threshold than would be
20 suitable for AMO.

⁴These tariffs are publicly available on the utility or commission websites.

1 **Q WHAT DO YOU CONCLUDE FROM THIS REVIEW OF LARGE LOAD TARIFFS**
2 **OFFERED BY OTHER UTILITIES?**

3 A I conclude that AMO's 100 MW threshold for application of large load terms is generally
4 consistent with industry practice and should be adopted while Staff's 25 MW proposal
5 is not, and is not otherwise supported, and should be rejected in favor of AMO's
6 proposal for a 100 MW threshold.

7 **Q ON OCTOBER 23, 2025, THE SECRETARY OF ENERGY ISSUED A DIRECTIVE TO**
8 **THE FEDERAL ENERGY REGULATORY COMMISSION ("FERC") TO INITIATE A**
9 **RULEMAKING PROCEDURE AND PROPOSAL REGARDING THE**
10 **INTERCONNECTION OF LARGE LOADS PURSUANT TO THE SECRETARY'S**
11 **AUTHORITY UNDER SECTION 403 OF THE DEPARTMENT OF ENERGY**
12 **ORGANIZATION ACT. ARE YOU FAMILIAR WITH THAT?**

13 A Yes.

14 **Q DOES THAT HAVE ANY BEARING ON THE APPROPRIATE SIZE THRESHOLD**
15 **FOR PURPOSES OF THIS PROCEEDING?**

16 A No. This directive concerns only transmission issues, namely the interconnection of
17 new loads to the interstate transmission system. The directive (Advanced Notice of
18 Proposed Rulemaking – or "ANOPR") is labeled "ensuring the timely and orderly
19 interconnection of large loads." This clearly is directed to transmission issues only, and
20 the ANOPR at page 3 is clear in that "...the Commission shall not have jurisdiction,
21 except as otherwise provided in the statute, over the facilities used for the generation
22 of electric energy or over facilities used in local distribution or only for transmission of

1 electric energy in intrastate commerce, or over facilities for the transmission of electric
2 energy consumed wholly by the transmitter.”

3 It is also clear the impetus for this ANOPR is the large number of loads seeking
4 interconnection with the transmission system and the fact that there are substantial
5 bottlenecks and long queues interfering with the ability to interconnect these facilities,
6 and hence to be able to achieve the benefits of the operation of the facilities seeking
7 interconnection.

8 It is also important to note that any new rules or regulations would only emerge
9 after the usual proposed rule promulgation by FERC, and the comment period for
10 FERC ANOPRs and a final FERC decision.

11 **Rate Impact of Staff's Proposal**

12 **Q HAVE YOU COMPARED THE RATES PROPOSED BY STAFF TO EXISTING**
13 **RATE 11M THAT AMO PROPOSES TO USE FOR INITIAL PRICING OF LARGE**
14 **LOADS?**

15 A Yes. This is illustrated on Schedule MEB-5. This schedule compares the cost to
16 customers under the rate that Staff proposes, to Rate 11M (AMO's proposal). Page 1
17 shows the impact on a 25 MW, 70% load factor customer, and page 2 shows the impact
18 on a 100 MW, 90% load factor customer.

19 **Q WHAT DO THESE CALCULATIONS SHOW?**

20 A In both instances, Staff's rates would cost a customer about 70% more than would
21 AMO's Rate 11M.

1 **Q IN YOUR OPINION, DOES STAFF'S RATE PROPOSAL MEANINGFULLY AND**
2 **CONSTRUCTIVELY ADDRESS ACCOMMODATION OF LARGE NEW LOADS**
3 **WHILE CONSIDERING THE POTENTIAL IMPACT ON EXISTING CUSTOMERS?**

4 **A No. Staff's proposal is overly complex, unnecessarily burdensome and expensive.**

5 **A rate like Staff's proposal would undoubtedly put AMO at the bottom of**
6 **the list of desirable locations for large new loads.**

7 **IT SHOULD BE REJECTED.**

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

9 **A Yes, it does.**

550059

Ameren Missouri
Case No. ET-2025-0184
Missouri Industrial Energy Consumer's First Set of
Data Requests to the Staff of the Missouri Public Service Commission
Item No. Description
September 12, 2025

DR47 MIEC-STAFF 1-1.

Please provide all workpapers supporting all aspects of Staff's filing. Where available, please provide executable versions in native format with all formulas and links intact.

Staff Witness: Sarah Lange

Staff Response:

Workpapers associated with Staff's Recommendation / Rebuttal Testimony were uploaded into the EFIS system under Case No. ET-2025-0184. Parties received an email notification on September 9, 2025, regarding the uploaded workpapers.

DR47 MIEC-STAFF 1-2.

In reviewing Staff's filing, it is noted in several places that tariff sheet language sometimes includes "25 kW." Should references to "25 kW" have been 25 MW, or was 25 kW intended? If intended, please explain in detail the basis for it and how it would be applied.

Staff Witness: Sarah Lange

Staff Response:

The reference to 25 kW in the "Applicability" section should be "25 MW." Staff does not find any other instances of "25 kW" in the recommended tariff. Staff appreciates MIEC bringing this error to its attention.

DR47 MIEC-STAFF 1-3.

On page 2 of "Staff Recommendation/Rebuttal," it is stated the Noranda maximum demand was 95 MW. With regard to that statement:

- a. Please state the basis for that belief and provide any supporting material.
- b. Does Staff deny that when all three potlines were operating, the Noranda electrical demand was in excess of 400 MW?
- c. Will Staff accept subject to check that the Noranda maximum demand was in excess of 400 MW?

Staff Witness: Sarah Lange

Staff Response:

This statement was an error and Staff apologizes for any resulting confusion. CONFIDENTIAL *****

DR47 MIEC-STAFF 1-4.

In Staff's proposed tariff, please describe in detail what would constitute the monthly kW of billing demand. Please state whether it is based on the actual created demand for the month, contract demand, or a minimum billing demand (and, if so, what is the basis for the minimum billing demand), or other parameters.

Staff Witness: Sarah Lange

Staff Response:

Billing demand is four times the sum of the energy consumed in three consecutive five minute intervals in which the most energy is consumed during the applicable periods - winter months between 6:00 AM and 11:00 AM and between 5:00 PM and 9:00 PM.

DR47 MIEC-STAFF 1-5.

On page 1 of Schedule 1, there are 12 different services listed which LLCS customers would not be eligible for. For each one of these exclusions, please explain in detail the basis for the exclusion.

Staff Witness: Sarah Lange

Staff Response:

Each of these services would interfere with recovery of the actual amount to be billed under the recommended tariff.

DR47 MIEC-STAFF 1-6.

On page 2 of Schedule 1, which lists components of a "Service Agreement," please list all utilities of which Staff is aware that would require forecasts and descriptions of load that are required according to item "C". Please provide copies of tariffs, contract forms, etc. of other utilities, where applicable.

Staff Witness: Sarah Lange

Staff Response:

Staff counsel objected to this data request. To the extent that the DR asks for estimates, analysis, or calculations that have not been performed by Staff, Staff will not provide a response.

DR47 MIEC-STAFF 1-7.

If not provided elsewhere, please provide, for each item listed on page 4 of Schedule 1, the detailed workpapers with a narrative explanation of the derivation and the actual calculation supporting the rates, in native format with all formulas and links intact.

Staff Witness: Sarah Lange

Staff Response:

Workpapers associated with Staff's Recommendation / Rebuttal Testimony were uploaded into the EFIS system under Case No. ET-2025-0184. Parties received an email notification on September 9, 2025, regarding the uploaded workpapers.

DR47 MIEC-STAFF 1-8.

On page 4 of Schedule 1, the rates for several items are marked "TBD". Please provide a narrative explanation of how each of these charges is proposed to be developed.

Staff Witness: J Luebbert

Staff Response:

As stated on page 60 of Staff's recommendation in this case:

- 1. An Imbalance Charge, if applicable, for the difference between the current-year updated contract demand and the actual demand charge, to account for imbalances in projected demand and actual demand.**
 - a. Ameren Missouri will file a tariff to update these charges based on the current year MISO Planning Resources Auction price for the specified season. This charge will be applied to the difference between the projected demand for each month and the actual demand realized during the demand window for that month at a rate of the lesser of \$11.3475/kW or the current year MISO Planning Resource Auction price for the specified season.**

DR47 MIEC-STAFF 1-9.

With respect to page 4 of Schedule 1, please provide a narrative description and the derivation, of the “Variable Fixed Revenue Contribution,” “Stable Fixed Revenue Contribution,” “RES Compliance Charge,” “EDI Responsibility Charge,” “Capacity Shortfall Rate,” and the “Capacity Cost Sufficiency Rider.”

Staff Witness: Sarah Lange

Staff Response:

The monthly amounts billed under the “Variable Fixed Revenue Contribution,” and “Stable Fixed Revenue Contribution,” are determined by applying the indicated percentages to the indicated billed subtotals. The “RES Compliance Charge,” and “EDI Responsibility Charge,” are determined by applying the indicated rate to the monthly kWh usage. The “Capacity Shortfall Rate,” would be billed on actual monthly billing demand if the rate is triggered and promulgated. The “Capacity Cost Sufficiency Rider,” would be applicable as a lump-sum per month billed to a customer based on the customer’s contract demand if the rate is promulgated in a separate filing.

DR47 MIEC-STAFF 1-10.

With respect to the charges listed on page 4 of Schedule 1, please provide all utilities that, to Staff’s knowledge, include one or more of these charges in their tariff applicable to Large Load Customers. Please provide copies of the tariffs.

Staff Witness: Sarah Lange

Staff Response:

Staff counsel objected to this data request. To the extent that the DR asks for estimates, analysis, or calculations that have not been performed by Staff, Staff will not provide a response.

DR47 MIEC-STAFF 1-11.

With respect to the “early termination” provisions on page 5 of Schedule 1, please provide all utilities that, to Staff’s knowledge, impose the same or similar kind of requirements. Please provide tariffs or other documentation.

Staff Witness: Sarah Lange

Staff Response:

Staff counsel objected to this data request. To the extent that the DR asks for estimates, analysis, or calculations that have not been performed by Staff, Staff will not provide a response.

DR47 MIEC-STAFF 1-12.

Please provide all bases and reasons for Staff's proposal to apply the LLCs Schedule to customers with a demand in excess of 25 MW, rather than 100 MW as proposed by Ameren, or some other value.

Staff Witness: Sarah Lange

Staff Response:

This amount is consistent with a level at which transmission facilities are typically required, this amount is consistent with a level at which special rate treatments or tariff have been sought by all Missouri utilities in the past, and this amount is large enough that imposing it in conjunction with reasonable grandfathering provisions as recommended by Staff would not adversely impact existing customers.

DR47 MIEC-STAFF 1-13.

In the Evergy Kansas Large Load Docket No. 25-EKME-315-TAR, Evergy, KCC Staff, and all other participants, are signatories to a proposed "Unanimous Comprehensive Settlement Agreement" stipulation that applies the large load tariff only to customers with a demand of 75 MW or greater. Is there any reason why the same threshold demand for tariff eligibility should not apply to Ameren as well? If there are reasons justifying a difference, please justify them in detail.

Staff Witness: Sarah Lange

Staff Response:

Staff counsel objected to this data request in part due to the request's call for speculation. Staff states it was neither a party to the "Unanimous Comprehensive Settlement Agreement" stipulation, nor aware of or involved with the substance of the Kansas negotiations.

Large Load Tariff Provisions For Areas With Significant Activity

Ameren Missouri: Large Load Tariff

Load Size	Minimum Demand	Applicability	Optional/Mandatory	Implementation	Contract Length	Status
Demand ≥ 100 MW Service Voltage(s) > 115 kV	70% of Contract Demand	The Large Load Tariff was created because of data centers and industrial advanced manufacturing . The tariff is not restricted to only data center customers . New Loads whether aggregated, existing or creating a new load, the Company may exercise it's discretion.	Mandatory	The Large Load Tariff will be a subclass of the existing LPS Tariff (Large Primary Service). New Tariff is mandatory any customer with actual or projected usage at, or above 100 MW will be subject to this tariff.	Term of Service Minimum: 15 Years Maximum Ramp Period: 5 Years Minimum Full Load Period: 12 Years	This tariff is Pending .

Kentucky Power - I.G.S. (Industrial General Service)

Load Size	Minimum Demand	Applicability	Optional/Mandatory	Implementation	Contract Length	Status
Demand ≥ 150 MW	Min Demand ≥ 90% of the greater of: a) On peak contract capacity b) Highest Demand of the last 11 months c) Max demand of the billing month	This tariff is not exclusive to data centers.	Mandatory	This tariff will apply to all new and existing loads as well as incremental loads that will be at minimum 150 MW.	Term of Service Minimum: 20 Years	Approved; Applicable after March 18, 2025

Appalachian Power/Wheeling Power: Schedule LCP/Rate IP

Load Size	Minimum Demand	Applicability	Optional/Mandatory	Implementation	Contract Length	Status
Individual Location: ≥ 100 MW Multiple Locations: ≥ 150 MW	80% of Contract Capacity or 80% of previous 11 months highest demand	Tariff is applicable to all parties whose contract capacity is expected to grow above 100 MW at an individual plant or above 150 MW at aggregated premises. This tariff is not restricted to Data Centers.	Mandatory	Schedule LCP and Rate IP apply to new customers and new loads after the date of January 1, 2025. Existing customers are exempt provided they do not add new loads.	Term of Service Minimum: 12 Years Max Ramp Period: 5 years	This tariff is implemented.

Indiana Michigan Power: Industrial Power Tariff (Tariff I.P.)

Load Size	Minimum Demand	Applicability	Optional/Mandatory	Implementation	Contract Length	Status
Individual Location: ≥ 70 MW Multiple Locations: ≥ 150 MW	80% of Contract Capacity or 80% of previous 11 months highest demand	Tariff is applicable to all parties whose contract capacity is expected to grow above 70 MW at an individual plant or above 150 MW at aggregated premises.	Mandatory	This tariff is a special provision of the existing Industrial Power tariff. Tariff applies to new loads or expansions of existing loads after Jan 1, 2024.	Term of Service Minimum: 12 Years Max Ramp Period: 5 years	This tariff is Approved and Implemented .

Consumer's Energy Company (Michigan) - Rate GPD Update: Large General Service Primary Demand Rate

Load Size	Minimum Demand	Applicability	Optional/Mandatory	Implementation	Contract Length	Status
Demand ≥ 100 MW	80% of Contract Capacity; applied to Max Demand and On Peak Demand.	The existing rate class, Rate GPD, has been amended to include provisions for data centers. New loads are subject to approval by the utility and invokes an adjustment to contract capacity upon approval.	Mandatory	If increase in customer's usage occurs (more than 1,000 kW of contract Capacity), the Company can adjust the customer's Contract Capacity and Minimum Billing Demand.	Minimum Contract Period: 15 Years Maximum Ramp Period: 5 Years	Proposed

Georgia Power: TOU-SC-15 (Time of Use-Supplier Choice Schedule)

Load Size	Minimum Demand	Applicability	Optional/Mandatory	Implementation	Contract Length	Status
Demand ≥ 100 MW	N/A	Applies to any customer with a load greater than 100 MW.	Mandatory	No new tariff, but expansion of the Company's ability to create special contracts.	5 - 15 years	In effect.

Duke Energy Florida: LLCP (subject to criteria in LLC, LLCA, and CIAC)

Load Size	Minimum Demand	Applicability	Optional/Mandatory	Implementation	Contract Length	Status
Demand ≥ 100 MW or Voltage ≥ 230 kV 90% of max DMD in 11 months or 75% of contract demand or 1 MW	Between 75% and 85% of annual Contract Capacity, excluding temporary, construction, bridging, and/or commission power as agreed to by Customer and Company.	This contract was created with Data Centers in mind but does not explicitly exclude other customers.	Mandatory	Tariff applies to any individual Customer, for either a new or expanded facility. Customers need to enter into the Large Load Customer Agreement on file with the Florida PSC.	No less than 15 years. Transitional Load Ramp Period Optional.	Proposed

Large Load Tariff Provisions For Areas With Significant Activity

Evergy Kansas - Schedule LLPS (Large Load Power Service)

Load Size	Minimum Demand	Applicability	Optional/Mandatory	Implementation	Contract Length	Status
Demand ≥ 75 MW	Minimum Demand: 80% of contract demand.	This tariff is not exclusive to data centers. Aggregation of premises is at the discretion of the utility.	Mandatory	Would be a new, tariffed rate offering. Applies to all new loads and existing loads that plan to expand to threshold size.	Maximum Optional Ramp Period: 5 Years Term of Service Period: 12 Years Tariff Auto Extension Period: 5 Years Minimum Cancellation Notice: 3 Years	Pending results of settlement.

Texas ERCOT (2025 Senate Bill 6 - Large Loads)

Load Size	Minimum Demand	Applicability	Optional/Mandatory	Implementation	Contract Length	Status
Demand ≥ 75 MW	N/A	This Bill will apply to all existing, and expanded interconnected loads above demand threshold. Requires all loads above threshold connecting to ERCOT to be flexible and participate in demand response.	Mandatory	Per § 37.0561, 39.169, 39.170 - ERCOT may curtail loads and generation for new loads/generation; BTM/PUN arrangements need ERCOT and PUCT approval, utility can curtail new Large Loads	Applicable so long as demand threshold is met.	Passed and in effect. (June 20, 2025)

Minnesota Power - Large Light and Power Service

Load Size	Minimum Demand	Applicability	Optional/Mandatory	Implementation	Contract Length	Status
10 MW < Demand ≥ 50 MW	75% of largest demand of the last 11 months or Largest adjusted demand minus 100 kW	This tariff applies to all customers who are within this usage threshold and have an ESA with the company	Mandatory	Rate class is available to new or existing customers. New loads must stay within demand threshold.	Minimum Term: 10 Years	Approved; Effective March 1, 2025.

Virginia Power (VEPCO): LGS GS-5 (Large General Service)

Load Size ¹	Minimum Demand	Applicability	Optional/Mandatory	Implementation ¹	Contract Length	Status
Demand ≥ 50 MW (Stipulation)	Distribution: 75% Transmission: 75% Generation: Non-Shopping: 50% Generation: Shopping: 0%	To all new customers who meet the demand criteria, except for those already under an existing ESA, but those customers can opt to take service under GS-5.	Mandatory only to new demands.	Shall apply to all customers beginning service on or after January 1, 2026.	Term of Service Minimum: 14 Years Ramp Capacity: 4 Years	Tariff Case is still Pending .

DTE: Rate D13 - XL High Load Factor

Load Size	Minimum Demand	Applicability	Optional/Mandatory	Implementation	Contract Length	Status
Demand ≥ 50 MW Load Factor Requirement: 75% Power Factor Requirement: 85%	Minimum Annual Charge: (Contract Capacity*75%*Hours in Year) * (Power Supply Capacity charge + Power Supply Non-Capacity charge + Power Supply Transmission charge + Distribution charge + Administration charge) + (Delivery Charge*12) + Surcharges and Credits as applicable	This tariff does not apply to Data Centers: "5) The rate is not available to serve the load associated with data centers." Only for new and incremental load service. Existing load will be under a separate schedule.	Tariff is not mandatory	This tariff is only for new incremental loads	Term of Service Minimum: 15 Years	This tariff has yet to be approved.

Ohio Power: Schedule DCT (Data Center Tariff)

Load Size	Minimum Demand	Applicability	Optional/Mandatory	Implementation	Contract Length	Status
Demand ≥ 25 MW	25 - 75 MW: 15 MW + 85% of Marginal Amount over 25 MW 75+ MW: 57,500 MW + 100% of Marginal Amount over 75 MW, provided the min demand is not >85% of contract capacity.	Tariff is applicable only to 'Data Centers' and 'Mobile Data Centers'. Existing loads will remain on current tariff or contract unless demand infeasible due to separate metering issues.	Mandatory	DCT (Data Center Tariff) is a new, separate tariff.	Term of Service Minimum: 12 Years Maximum Ramp Period: 4 Years Full Load Period: 8 Years	Effective July 23, 2025.

Ameren Missouri

Comparison of Current 11M (LPS) Tariff to Staff Recommended LLCS Tariff for a 25MW, 70% Load Factor Load (MoPSC ET-2025-0184)

<u>Charge Type</u>	<u>Billing Units¹</u>	<u>11M Rate²</u>	<u>11M Cost</u>	<u>Proposed LLCS Rates</u>	<u>Proposed LLCS Cost</u>	<u>Increase</u>	<u>Percent Increase</u>
	(1)	(2)	(3)=(1)x(2)	(4)	(5)=(1)x(4)	(6)=(5)-(3)	(7)=(6)/(3)
Customer Charge - per Month	1	\$ 412.66	\$ 413	\$ 10,000.00	\$ 10,000	\$ 9,587	2323.3%
Demand Charge 1 (\$/kW) - per Month	25,000	\$ 15.05	\$ 376,333	\$ 16.60	\$ 415,000	\$ 38,667	10.3%
Demand Charge 2 (\$/kW) - per month	25,000	N/A	\$ -	\$ 4.79	\$ 119,750	\$ 119,750	New
Energy Charge (\$/kWh) - per Month	12,775,000	\$ 0.038	\$ 488,857	\$ 0.051	\$ 651,525	\$ 162,668	33.3%
Revenue Contribution (% of other charges) - per Month		N/A	\$ -	23.40%	\$ 279,928	\$ 279,928	New
Total Monthly Cost			\$ 865,603		\$ 1,476,203	\$ 610,601	70.5%
Total Annual Cost			\$10,387,232		\$17,714,440	\$ 7,327,208	70.5%
Per Unit Cost - \$/MWh			\$ 67.76		\$ 115.55	\$ 47.80	70.5%

¹Assumes a demand of 25MW and a 70% load factor.

²Assumes a blended rate of 4 months summer and 8 months winter.

Ameren Missouri

Comparison of Current 11M (LPS) Tariff to Staff Recommended LLCS Tariff for a 100MW, 90% Load Factor Load (MoPSC ET-2025-0184)

Charge Type	Billing Units ¹	11M Rate ²	11M Cost	Proposed LLCS Rates	Proposed LLCS Cost	Increase	Percent Increase
	(1)	(2)	(3)=(1)x(2)	(4)	(5)=(1)x(4)	(6)=(5)-(3)	(7)=(6)/(3)
Customer Charge - per Month	1	\$ 412.66	\$ 413	\$ 10,000.00	\$ 10,000	\$ 9,587	2323.3%
Demand Charge 1 (\$/kW) - per Month	100,000	\$ 15.05	\$ 1,505,333	\$ 16.60	\$ 1,660,000	\$ 154,667	10.3%
Demand Charge 2 (\$/kW) - per Month	100,000	N/A	\$ -	\$ 4.79	\$ 479,000	\$ 479,000	New
Energy Charge (\$/kWh) - per Month	65,700,000	\$ 0.038	\$ 2,514,120	\$ 0.051	\$ 3,350,700	\$ 836,580	33.3%
Revenue Contribution to Cover Other Costs (% of other charges) - per Month		N/A	\$ -	23.40%	\$ 1,286,930	\$ 1,286,930	New
Total Monthly Cost			\$ 4,019,866		\$ 6,786,630	\$ 2,766,764	68.8%
Total Annual Cost			\$48,238,392		\$81,439,558	\$33,201,166	68.8%
Per Unit Cost - \$/MWh			\$ 61.19		\$ 103.30	\$ 42.11	68.8%

¹Assumes a demand of 100MW and a 90% load factor.

²Assumes a blended rate of 4 months summer and 8 months winter.