Exhibit No.:

Issue(s): Cloud Computing

Costs, Paperless Bill Credit, Time of

Use Pilot Costs

Witness: Karen Lyons

Sponsoring Party: MoPSC Staff
Type of Exhibit: Rebuttal Testimony

Case No.: ER-2019-0335

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MISSOURI PUBLIC SERVICE COMMISSION FINANCIAL AND BUSINESS ANALYSIS DIVISION AUDITING DEPARTMENT

REBUTTAL TESTIMONY

OF

KAREN LYONS

UNION ELECTRIC COMPANY, D/B/A AMEREN MISSOURI

CASE NO. ER-2019-0335

Jefferson City, Missouri January 2020

Reebuttal Testimony of Karen Lyons

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1		REBUTTAL TESTIMONY	
2		\mathbf{OF}	
3		KAREN LYONS	
4		AMEREN MISSOURI COMPANY	
5		CASE NO. ER-2019-0335	
6	Q.	Please state your name, employment position, and business address.	
7	A.	Karen Lyons, Utility Regulatory Auditor with the Missouri Public Service	
8	Commission	("Commission" or "PSC"), Fletcher Daniels State Office Building,	
9	615 East 13th Street, Kansas City, Missouri 64106.		
10	Q.	Are you the same Karen Lyons who has previously provided testimony in	
11	this case?		
12	A.	Yes. I contributed to Staff's Cost of Service Report ("COS Report") filed on	
13	December 4,	2019 and Staff's Class Cost of Service Report ("CCOS Report") filed on	
14	December 18.	, 2019 in the Ameren Missouri rate case designated as Case No. ER-2019-0335.	
15	EXECUTIV	E SUMMARY	
16	Q.	Please summarize your rebuttal testimony.	
17	A.	The purpose of my rebuttal testimony is to respond to Ameren Missouri's	
18	proposals for	the accounting treatment of cloud computing license fees, the paperless bill credit	
19	and the time of use pilot costs. I will respond to the following Ameren Missouri witnesses tha		
20	address these issues:		
21	•	Laura M. Moore-Cloud computing costs	
22	•	Mark C. Birk-Paperless bill credit	

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19 20 Steven M. Wills-Time of Use pilot costs

Q. Are there other Staff witnesses addressing Ameren Missouri's proposals addressed above?

A. Yes. Staff witness Contessa King addresses Ameren Missouri's paperless bill credit, and Staff witnesses Sarah Lange and Robin Kliethermes address Ameren Missouri's time of use proposal.

CLOUD COMPUTING COSTS

Q. What is Ameren Missouri's proposal regarding cloud computing costs in this rate proceeding?

A. Ameren Missouri recommends that cloud computing software costs ("off-premise") should be treated in the same manner as on-premise software. Specifically, that both cloud computing software costs and on-premise software costs should be treated as a capital investment and eligible to earn a rate of return. Ms. Moore states on page 9, lines 3-7:

Cloud computing arrangements can be divided into underlying components related to the use of the software license and maintenance of the software. Ameren Missouri has accounted for each component and, consistent with the regulatory accounting treatment of onpremise software, has only capitalized for ratemaking purposes the underlying software license component.

Ameren Missouri proposes to book the software license component in Federal Energy Regulatory Commission ("FERC") account 303.

¹ Laura M. Moore Direct Testimony, pages 8-9.

Q. Does Staff agree that the license related to cloud computing software should have the same accounting treatment as on-premise software?

A. No. On-premise software is installed and runs on a utility's server and typically requires the purchase of software licensing. Generally a utility's internal resources are used to maintain the software solution. Conversely, cloud computing software solutions are off-premise solutions that are hosted and supported by a third party and accessed through the internet. There are specific Financial Accounting Standards Board ("FASB") requirements that must be met that allow a utility to capitalize a software license. In Staff's review of Ameren Missouri's proposal to capitalize cloud computing license costs, Staff found that it has not met the requirements to capitalize these costs.

Q. How is Ameren Missouri currently recording cloud computing costs in its books and records?

A. Ameren Missouri is currently booking cloud computing expenses in FERC account 921.002 and 923.003.² Beginning in January 2019, Ameren Missouri also started capitalizing cloud implementation, setup, and other upfront costs in FERC Account 303.C05.

Q. Does the National Association of Regulated Utility Commissioners (NARUC)
Uniform System of Accounts (USOA) address accounting treatment of off-premise cloud
computing costs?

A. No. Although the USOA does not specifically address cloud computing costs, it does provide an explanation of the types of costs that can be booked to FERC account 303-Miscellaneous Intangible Plant. The NARUC USOA states, "This account shall

² Case No. ER-2019-0335, Staff Data Request 248.

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include the cost of patents, licenses, privileges, and other intangible property necessary or valuable in the conduct of utility operations and not specifically chargeable to any other account."

- Q. Does the FASB provide accounting guidance on how to book the license component of off-premise software solutions?
- A. Yes. FASB issued an Accounting Standards Update ("ASU") in April 2015. ASU No. 2015-05 Subtopic 350-40³, entitled "Customer's Accounting for Fees Paid in a Cloud Computing Arrangement." In this update, FASB defines a hosting arrangement as one where (1) the customer has the contractual right to take possession of the software at any time during the hosting period without significant penalty and (2) it is feasible for the customer to either run the software on its own hardware or contract with another party unrelated to the vendor to host the software. If a hosting arrangement does not meet both criteria then the hosting arrangement is considered a service contract, which is recorded as an expense. It is not considered a capital item.
- Q. Does Ameren Missouri's proposal to capitalize the license component of its cloud computing solution meet the criteria above?
- No. Ameren Missouri's cloud computing software solution is an off-premise A. solution that is hosted and supported by a third party and accessed through the internet. It is not feasible for Ameren Missouri to run the software on its own hardware and take possession of the software.
- Q. Does FASB provide guidance on the accounting treatment of implementation costs for cloud computing solutions?

³ FASB ASU No. 2015-15 Subtopic 350-40 is attached to this testimony as Schedule 1.

A. Yes. FASB update ASU No. 2018-15 Subtopic 350-40⁴ ensures consistency between the requirements for capitalizing implementation costs incurred in a hosting arrangement that is a service contract (off-premise) and the requirements for capitalizing implementation costs incurred to develop or obtain internal-use software (on-premise). The amendments to ASU No. 2018-15 Subtopic 350-40 with regard to implementation costs are effective for annual reporting periods beginning after December 15, 2020, and interim periods within annual periods beginning after December 15, 2021. Early adoption of the amendments in the update is permitted, including adoption in any interim period, for all entities. Based on discussions with Ameren Missouri personnel, it is Staff's understanding that Ameren Missouri elected for early adoption of capitalizing implementation costs.

Q. What is Staff's position at this time regarding the appropriate ratemaking and accounting treatment for cloud computing costs?

A. Consistent with the FASB Update ASU No. 2015-05 Subtopic 350-40 and ASU No. 2018-15 Subtopic 350-40, Staff's position is that for ratemaking purposes, Ameren should treat cloud computing costs as an annualized level of expense in rates and capitalize implementation costs. Since there is currently no accounting guidance from FERC of which Staff is aware, and Ameren Missouri does not meet the requirements set forth by FASB ASU No. 2015-05 Subtopic 350-40 for the capitalization of cloud computing fees, Staff is opposed to capitalizing the license component for Ameren Missouri's cloud computing solution.

⁴ FASB ASU No. 2018-15 Subtopic 350-40 is attached to this testimony as Schedule 2.

PAPERLESS BILL CREDIT

- Q. What is Ameren Missouri's proposal regarding paperless bill credit in this rate proceeding?
 - A. Mr. Birk states on page 3, lines 7-11 of his direct testimony,

Ameren Missouri proposes a \$0.50 incentive per bill, over a one-year period, for customers who enroll in paperless billing. This will amount to a \$6 incentive for each new enrollee in the program. The proposed incentive amount is designed to approximately align with the amount of the estimated savings (in postage, printing, and other costs) the Company receives per customer who opts for paperless billing.

- Q. Is Staff opposed to the bill credit Ameren Missouri proposed to incent customers to utilize its paperless billing option?
- A. Yes. Instead of all of Ameren Missouri's customers receiving the benefit of the savings associated with paperless billing, under Ameren Missouri's proposal just the customers that sign up for paperless billing will receive the benefits. Since all customers pay for all costs associated with generating paperless and paper bills, all customers should equally benefit from savings associated with paperless billing.
 - Q. Are there Ameren Missouri customers currently enrolled in paperless billing?
- A. Yes. There are 222,618 Ameren Missouri customers currently enrolled in paperless billing.⁵
- Q. Of the Ameren Missouri customers currently enrolled in paperless billing, how many received a bill credit?

⁵ Response to Staff Data Request 254, submitted 9/12/2019. Ameren Missouri has 211,136 residential customers and 11,482 non-residential customers enrolled in paperless billing.

- A. None. Since a bill credit was not provided to Ameren Missouri customers that are currently enrolled in paperless billing, all Ameren Missouri customers benefit from the savings associated with customers currently enrolled in paperless billing.
- Q. Did Ameren Missouri propose a paperless bill credit in its last general rate case, Case No. ER-2016-0179?
- A. Yes. Parties to Case No. ER-2016-0179 entered into a global settlement⁶ that did not specifically address the paperless bill credit proposed by Ameren Missouri in that case.
- Q. Is Ameren Missouri's proposal for a paperless bill credit in this case the same as that proposed in the last general rate case?
- A. No. In Case No. ER-2016-0179, Ameren Missouri proposed a \$.40 bill credit and a corresponding reduction to expenses related to the cost savings for not issuing a paper bill.
 - Q. Did Staff oppose the paperless bill credit in Case No. ER-2016-0179?
- A. Yes. There were several aspects of Ameren Missouri's proposal that Staff opposed in Case No. ER-2016-0179. The two that I will focus on are as follows:
 - All Ameren Missouri customers would not receive the benefit of the cost savings associated with the paperless bill.
 - The proposal increased Ameren Missouri's revenue requirement.
- Q. Will Ameren Missouri's current proposal impact the revenue requirement in this case?

⁶ ER-2016-0179-Order Approving Unanimous Stipulation and Agreement, 3/8/2017.

- A. No. In this case, Ameren Missouri did not make an adjustment for the cost savings associated with the conversion of paperless billing and is not proposing to reduce revenues for the amount of the bill credit as it proposed in Case No. ER-2016-0179.
- Q. If the revenue requirement is not impacted, why is Staff opposed to Ameren's recommended treatment of the paperless bill credit in this case?
- A. Similar to Ameren Missouri's previous proposals for the paperless bill credit, Ameren Missouri customers that enroll in paperless billing will receive the benefit of the cost savings as a result of the paperless bill credit. However, no customers that have paper billing or were previously enrolled in paperless billing will receive the benefit of the costs savings Ameren Missouri proposes. Further, if the Commission approves this request, revenues in Ameren Missouri's future general rate case(s) will be reduced as a result of the paperless bill credit, and the reduced revenues will offset the cost savings that occur from customers enrolling in paperless billing. All costs associated with delivering a bill are paid by all customers, both paper and electronically billed customers. Since all of Ameren Missouri's customers pay these costs, all customers should benefit from any savings associated with electronic statements.
- Q. On page 4, lines 10-11 of his testimony, Mr. Birk states that "[n]o customers will bear the cost of these incentives." Do you agree?
- A. No. Although this proposal will not impact the revenue requirement in this case, it will impact future Ameren Missouri rate case(s). The paperless billing proposal will result in a reduction in revenue, which will increase Ameren Missouri's revenue requirement in future rate cases. Under this scenario, if revenue is unadjusted, Ameren Missouri customers that are currently enrolled in paperless billing or receive a paper bill will pay more in rates than if the

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cost savings from paperless billing is reflected in Ameren Missouri's cost of service as it is currently.

Ameren Missouri designed its paperless bill credit proposal in this case so not all of its customers will benefit from the costs savings occurring when customers enroll in paperless billing. The only customers benefitting are those that enroll and receive the \$.50 bill credit per month. For example, Ameren Missouri has identified the cost savings for paperless billing is approximately \$.47 per customer per month. In the next rate case, assuming 100 customers enroll in paperless billing, the cost savings associated with the customers enrolling in paperless billing is \$564 (100 x \$.47 x 12). Ignoring the proposed bill credit, the \$564 in cost savings should be reflected in Ameren Missouri's cost of service and shared by all customers. If the same 100 customers receive the full twelve month credit, the cost savings of \$564 is offset by the amount of bill credits of \$600 x (100 x \$.50 x 12) and consequently eliminates the savings for all customers, except those that enrolled in paperless billing.

- Q. Would Staff's position change if Ameren Missouri offered an alternative incentive?
- A. No. In response to Staff Data Request 0257.1, Ameren Missouri provided an internal paperless billing statement study. The study is attached to Staff witness Contessa King's rebuttal testimony as Schedule C. The study included alternative incentives for enrolling in paperless billing that include but are not limited to gift cards, ipads, etc. Any savings associated with customers enrolling in paperless billing would be offset by the costs incurred for these type of incentives. It is Staff's position that all customers should benefit from savings associated with paperless billing. If Ameren Missouri offered these type of incentives to

customers enrolling in paperless billing, Staff would expect it to book the costs below the line to ensure that all customers receive the benefit of cost savings.

3 PART TIME OF USE COST TRACKER

- Q. What is Ameren Missouri's proposal regarding the 3 part time of use cost tracker?
- A. On page 62, lines 7-11 of his direct testimony Ameren Missouri witness StevenM. Wills proposes the following pro forma adjustment:

I recommend a two-year pilot study, with \$1 million per year to be included in the revenue requirement. I also suggest a one-way tracker through which any over recovery of pilot costs be flowed back to customers in a subsequent rate case. If the pilot costs come in higher than estimated, the Company would absorb them. If the pilot can be accomplished at lower cost, the difference would be tracked and returned to customers.

- Q. Does Staff agree that \$1 million in estimated costs should be included in Ameren Missouri's cost of service and that the costs should be tracked as proposed by Mr. Wills?
 - A. No.
- Q. Did Ameren Missouri provide support for the inclusion of \$1 million in its cost of service for its proposed time of use pilot?
- A. Mr. Wills provided a high level estimate of the expected costs for the time of use pilot on page 62 of his direct testimony. The categories of costs include focus groups, customer recruitment and retention, educational materials, participant surveys, billing system programming, technology/software and evaluations. Ameren Missouri did not provide support for how the cost estimates were derived.
- Q. Does Staff have concerns with the categories of respective costs identified by Mr. Wills?

- A. Yes. Staff understands that there will be incremental costs for implementing a 3 part time of use rate design pilot. If the 3 part time of use pilot program is approved by the Commission, Ameren Missouri will incur costs for focus groups, marketing, surveys, etc. However, the level of costs that will be incurred is not known and measurable. Mr. Wills also suggests that there will be additional costs for programming the billing system. The billing system must be programmed for every approved rate design change that occurs as a result of a general rate case. The 3 part time of use pilot program is no different. To the extent internal employees program the billing system there will be no incremental costs for the 3 part time of use pilot because all labor costs will be included in Ameren Missouri's cost of service.
- Q. Does Ameren Missouri currently incur costs for its time of use program approved by the Commission in Case No. ER-2016-0179?
- A. Yes. In response to Staff Data Request 390.2,⁷ Ameren Missouri stated that there was not a material level of cost incurred for its existing time of use program. The response also indicated that a precise level of cost incurred could not be determined. Staff is unclear how Ameren Missouri can state that the costs are not material but is unable to provide Staff with the actual costs incurred. Mr. Wills also did not address any costs currently paid for by Ameren Missouri customers in his estimate provided in his direct testimony.
- Q. Has the Commission approved a time of use rate design pilot for other Missouri utilities and if so, did the Commission approve a tracker for costs to implement the program?
- A. In Case No. ER-2018-0145 and ER-2018-0146, the Commission approved a *Non-Unanimous Partial Stipulation and Agreement Concerning Rate Design Issues* that included a time of use pilot rate design for Kansas City Power & Light Company ("KCPL")

⁷ Staff Data Request 390.2 in Case No. ER-2019-0335 is attached to this testimony as Schedule 3.

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and KCPL Greater Missouri Operations Company ("GMO"), now known as Evergy Missouri Metro and Evergy Missouri West, respectively. As part of the agreement, Evergy Missouri Metro and Evergy Missouri West is authorized to defer prudently incurred program costs.

- Q. What is Staff's recommendation with regard to Ameren Missouri's proposed 3 part time of use tracker and the inclusion of \$1 million in its cost of service?
- A. Staff is opposed to including \$1 million of costs in Ameren Missouri's cost of service that are not known and measurable. Staff recognizes that if the Commission approves a 3 part time of use pilot program for Ameren Missouri, there may be incremental costs incurred and therefore recommends that Ameren Missouri be allowed to defer prudently incurred incremental costs for the 3 part time of use pilot program to be reviewed in a future general rate case.
 - Does this conclude your rebuttal testimony? Q.
 - A. Yes.

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 Decrease Its Revenues for Electric Service) Case No. ER-2019-0335
AFFIDAVIT (OF KAREN LYONS
STATE OF MISSOURI)	
COUNTY OF JACKSON) ss.	
COMES NOW KAREN LYONS and o	on her oath declares that she is of sound mind and
lawful age; that she contributed to the foregoi	ng Rebuttal Testimony of Karen Lyons; and that the
same is true and correct according to her best	knowledge and belief.

KAREN LYONS

JURAT

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Jackson, State of Missouri, at my office in Kansas City, on this ______ day of January, 2020.

NOTARY SEAL S

M. RIDENHOUR
My Commission Expires
July 22, 2023
Platte County
Commission #19603483

Further the Affiant sayeth not.

Notary Public