# FIRST PRUDENCE REVIEW FOR CYCLE 2 OF COSTS RELATED TO THE DEMAND-SIDE PROGRAMS INVESTMENT MECHANISM FOR THE ELECTRIC OPERATIONS OF UNION ELECTRIC COMPANY, d/b/a AMEREN MISSOURI

March 1, 2016 through October 31, 2017

# MISSOURI PUBLIC SERVICE COMMISSION

**STAFF REPORT** 

FILE NO. EO-2018-0155

Jefferson City, Missouri April 30, 2018

\*\* Denotes Confidential Information \*\*

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#### STAFF REPORT FIRST PRUDENCE REVIEW FOR CYCLE 2 OF COSTS RELATED TO THE DEMAND-SIDE PROGRAMS **INVESTMENT MECHANISM** FOR THE ELECTRIC OPERATIONS OF UNION ELECTRIC COMPANY, d/b/a AMEREN MISSOURI March 1, 2016 through October 31, 2017 FILE NO. EO-2018-0155

## I. EXECUTIVE SUMMARY

On December 22, 2014, Union Electric Company, d/b/a Ameren Missouri ("Ameren Missouri" or "Company") filed, in Case No. EO-2015-0055, its application under the Missouri Energy Efficiency Investment Act<sup>1</sup> ("MEEIA") and the Missouri Public Service Commission's ("Commission") MEEIA rules<sup>2</sup> for approval of its 2016 – 2018 Energy Efficiency Plan. On February 5, 2016, Ameren Missouri, the Commission's Staff ("Staff"), the Office of the Public Counsel ("OPC"), NHT, NRDC, Renew Missouri, Tower Grove, and Missouri Division of Energy ("DE") submitted a *Non-Unanimous Stipulation and Agreement Resolving Ameren Missouri's MEEIA Filing* ("2016 Stipulation").

Through its February 10, 2016 *Order Approving Unanimous Stipulation And Agreement* in Case No. EO-2015-0055 the Commission authorized Ameren Missouri to implement – beginning March 1, 2016 – the 2016 – 2018 Energy Efficiency Plan as modified by the 2016 Stipulation ("Plan") including: 1) eleven (11) energy efficiency programs ("MEEIA programs"), and 2) a demand-side programs investment mechanism ("DSIM"). The Plan<sup>3</sup> which was approved on February 10, 2016 included a total program cost budget of \$158,180,000 for all 11 MEEIA programs, a throughput disincentive ("TD"), an Earning Opportunity ("EO")<sup>4</sup> of \$24.7 million at 100% performance, a technical reference manual ("TRM") and a plan to perform evaluation measurement and verification of program cost effectiveness.

<sup>&</sup>lt;sup>1</sup> Section 393.1075, RSMo, Supp. 2013.

<sup>&</sup>lt;sup>2</sup> 4 CSR 240-3.163, 4 CSR 240-3.164, 4 CSR 240-20.093, and 4 CSR 240-20.094 which all had an effective date of May 30, 2011.

<sup>&</sup>lt;sup>3</sup> Subsequent to February 10, 2016, the Plan was modified by Commission orders in Case No. EO-2015-0055 on the following effective dates: April 23, 2017; June 17, 2017; July 29, 2017; October 7, 2017; and December 16, 2017.

<sup>&</sup>lt;sup>4</sup> Tariff Sheet No. 91.9.

Through its February 10, 2016 order, the Commission finds:

The Signatories further agree the DSIM reasonably relies on retrospective EM&V to determine the actual Throughput Disincentive ("TD") and Earnings Opportunity ("EO") amounts. Ameren Missouri agrees to have its independent EM&V evaluator(s) perform annual EM&V process and impact evaluations, which will include both expost gross and net-to-gross ("NTG") evaluations. Annual ex-post gross by measure will be used to adjust the TRM deemed annual energy and demand savings.

The program costs and TD are the subject of this prudence review, which is Staff's third prudence review of Ameren Missouri's Rider EEIC costs.<sup>5</sup> On January 3, 2014, the Commission approved Ameren Missouri's Cycle 1 Rider EEIC in File No. EO-2014-0075, thereby, changing the Company's Cycle 1 DSIM from a tracker to a rider which provides for periodic rate adjustments between general rate proceedings.<sup>6</sup> Ameren Missouri's MEEIA Cycle 2 Rider EEIC is included as Addendum A to this Staff prudence review report ("Report"). The periodic rate adjustments for the Cycle 2 Rider EEIC are in File Nos. ER-2016-0131, ER-2017-0149 and ER-2018-0144.

Commission Rules 4 CSR 240-20.093(9) and 4 CSR 240-2.163(6) require that Ameren Missouri file quarterly a Surveillance Monitoring Report. Addendum B to this Report is Page 6 of Ameren Missouri's highly confidential Surveillance Monitoring Report including status of the MEEIA programs and DSIM costs for 1) the quarter ended September 30, 2017, 12-months ended and cumulative total ended September 30, 2017, and 2) for the quarter ended December 31, 2017, 12-months ended and cumulative total ended December 31, 2017. The line items and dollar amounts highlighted in yellow on Addendum B and included in Table 1 are the primary subject of Staff's prudence review.<sup>7</sup>

<sup>&</sup>lt;sup>5</sup> Prior Staff prudence reviews of Ameren Missouri's Rider EEIC costs are in File Nos. EO-2015-0029 and EO-2017-0023. This report, EO-2018-0155, is the First Prudence Review of Cycle 2 of Costs Related to the Demand-Side Programs Investment Mechanism.

<sup>&</sup>lt;sup>6</sup> 4 CSR 240-20.093(2)(A)9.

<sup>&</sup>lt;sup>7</sup> Staff's prudence review is for the period of March 1, 2016 through October 31, 2017, and the program costs and throughput disincentive amounts for October 2017 are not included on the first page of Addendum B.

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Table 1

Item	Descriptor
Program Costs	Billed
Program Costs	Actual
Program Costs	Variance
Program Costs	Interest
First Year Gross Annual Energy Savings	Deemed Actual
Throughput Disincentive Costs	Billed
Throughput Disincentive Costs	Actual
Throughput Disincentive Costs	Variance
Throughput Disincentive Costs	Interest

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Table 2:

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Table 2

Missouri prudently incurred program costs, TD and interest costs associated with the Plan for

the Review Period. Based on its review, Staff recommends the disallowance of costs in

Staff reviewed and analyzed a variety of items while examining whether Ameren

Costs	Explanation of Costs	Disallowed Cost	Interest	Total Disallowance
Travel, Conferences, and				
Entertainment	Page 13	\$22,353	\$187	\$22,539
Advertising	Page 15	\$3,556	\$39	\$3,595
Membership and Trade Dues	Page 16	\$30,750	\$380	\$31,130
Amend 2014 Avoided Costs Report	Page 19	\$19,956	\$270	\$20,226
Purchasing Rate	Page 20	\$2,698	\$24	\$2,722
<b>Total Disallowed Costs</b>		\$79,313	\$900	\$80,212

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## II. INTRODUCTION

A. Prudence Standard

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Commission Rule 4 CSR 240-20.093(10) requires that the Commission's Staff conduct prudence reviews of an electric utility's costs for its DSIM no less frequently than every twenty-four (24) months. This Report documents Staff's first review of the prudence of Ameren Missouri's MEEIA Cycle 2 program costs, Company TD and interest for the period March 1, 2016 through October 31, 2017 ("Review Period").

In evaluating prudence, Staff reviews whether a reasonable person making the same decision would find both the information the decision-maker relied on and the process the decision-maker employed to be reasonable based on the circumstances at the time the decision was made, *i.e.*, without the benefit of hindsight. The decision actually made is disregarded; instead, the review evaluates the reasonableness of the information the decision-maker relied on and the decision-making process the decision-maker employed. If either the information relied upon or the decision-making process employed was imprudent, then Staff examines whether the imprudent decision caused any harm to ratepayers. Only if an imprudent decision resulted in harm to ratepayers, will Staff recommend a refund.

# B. Regulatory Accounting for Ameren Missouri's DSIM

As a public utility, Ameren Missouri is required to maintain its books and records in accordance with the Federal Energy Regulatory Commission's ("FERC") Uniform System of Accounts ("USoA"). For the purpose of this MEEIA Prudence Review, Staff has focused its review on FERC Account 908 - Customer Assistance Expenses as defined by USoA; "Include the cost of labor, materials used and expenses incurred in providing instructions or assistance to customers, the object of which is to encourage safe, efficient and economical use of the utility's service".

#### C. Staff Review and Reconciliation of FERC Accounts

Ameren Missouri provides its monthly General Ledger<sup>8</sup> to the Commission as ongoing surveillance data, which is a summary of all accounting transactions on a monthly basis. Staff filtered the General Ledger based on FERC Major Account 908 - Customer Assistance, Minor EED - Electric Energy Efficiency and Demand, Activity Code of MEPC<sup>9</sup> (MEEIA I) and M2PC<sup>10</sup> (MEEIA II), and the description where it contained references to MEEIA, MEPC, M2PC, Electric Energy Efficiency. The filtering process of the General Ledger provided by month, the total amount of transactions by Resource Type<sup>11</sup> that occurred during the month in FERC Account 908 and did not provide each individual transaction.

<sup>&</sup>lt;sup>8</sup> See Addendum C of this report for description of General Ledger.

<sup>&</sup>lt;sup>9</sup> MEPC acronym for Missouri Energy Efficiency Energy Act Program Costs – Cycle 1.

<sup>&</sup>lt;sup>10</sup> M2PC acronym for Missouri Energy Efficiency Energy Act Program Costs – Cycle 2.

<sup>&</sup>lt;sup>11</sup> See Addendum D of this report for Major, Minor, Activity Code, Resource Type.

Staff took a two-fold approach to reconciling FERC Account 908 program costs provided by Ameren Missouri in response to Staff's Data Request No. 0002.1. Staff pulled the detail backup in Data Request No. 0002.1 and sorted it by month, project number, activity code, and resource type then reconciled these individual line item transactions to the monthly totals found in the General Ledger FERC Account 908 by activity code and resource type. Staff next, took the detail pulled from Data Request No. 0002.1 and sorted it by just month and resource type and reconciled these individual line item transactions to the monthly totals by activity code and resource type found in the General Ledger FERC Account 908.<sup>12</sup>

# D. Staff Regulatory Accounting Summary

Staff analyzed the transactions recorded in the General Ledger FERC Account 908 Customer Assistance, Minor EED - Electric Energy Efficiency and Demand and was able to reconcile the monthly totals by project number and resource type to the response provided by Ameren Missouri to Data Request No. 0002.1 as program costs.

## III. ENERGY EFFICIENCY INVESTMENT RATE (EEIR) DETERMINATION

## A. Overview of Program Costs

## 1. Description

Ameren Missouri's program costs include incentive payments and administrative cost. Administrative costs include the following: program administration, general, education, marketing and communication, market potential study, data tracking, and Evaluation Measurement and Verification ("EM&V") costs.

Staff reviewed all actual program costs, provided in response to Data Request No. 0002.1, which Ameren Missouri is seeking to recover through its "Energy Efficiency Investment Charge" to insure only prudently incurred costs are recovered through the Rider EEIC. Staff reviewed and analyzed for prudency Ameren Missouri's adherence to contractual obligations, resolutions of problems, adequacy of controls, and compliance with approved tariff sheets. Upon Staff's request, Ameren Missouri did provide documentation to support program costs incurred during the Review Period. Staff categorized these costs by program and segregated them between incentives payments and program administrative costs. Staff also reconciled program costs to the General Ledger FERC account 908 by month, project number, and resource type; see the Staff Review and Reconciliation of FERC Accounts section for further explanation of process and review.

<sup>&</sup>lt;sup>12</sup> Reconciliation of General Ledger to Data Request No. 0002.1 detail can be found in Staff workpapers – Catherine F. Lucia.

Table 3

Programs' Costs March 1, 2016 through October 31, 2017 Total for the 18 **Administrative Program Description Months Ending Incentives Paid** Costs October 31, 2017 **Residential Program** Res Lighting J06DF 2,296,983 \$ 5,629,861.47 \$ 3,332,878.11 Res Energy Efficient Products J06DG \$ 3,183,466.57 774,227 2,409,240.00 Res HVAC J06DH \$ 12,351,075.00 18,617,917.74 \$ 6,266,843 \$ Res Low Income J06DK \$ 2,570,092.14 1,432,128 \$ 1,137,964.56 \$ \$ \$ Res Kits J06DL 1,138,959.13 377,201 761,758.14 \$ Res Program Gen Expense J06DM \$ 5,216.77 \$ 5,217 Res Smart Thermostat J0C9S \$ \$ 196,200.00 658,119.66 461,920 Home Energy Reports J0005 \$ 1,155,871.62 \$ 1,155,872 \$ **Subtotal Residential Programs** \$ 32,959,505 12,770,389 \$ 20,189,116 **Business Program** Biz Standard J06D8 \$ 10,056,881 3,215,461 6,841,419.59 Biz Custom J06D9 \$ 10,692,597 \$ 4,125,182 \$ 6,567,414.46 Biz Retro-Commissioning J06DB \$ 169,721 \$ 71,910 \$ 97,810.92 776,273 Biz New Construction J06DC \$ 2,476,370 \$ \$ 1,700,097.67 \$ Biz Program Gen Expense J06DD 1,280,844 1.280.844 \$ \$ Biz Benchmarking J0DH0 \$ 30,370.00 30,370 \$ \$ Small Business Direct J0006 1,055,396.03 \$ 208,339 \$ 847,056.87 **Subtotal Business Programs** \$ 25,762,178 \$ 9,708,379 \$ 16,053,800 Education J06D3 \$ 45,500.04 45,500 \$ Marketing J06D4 \$ 201,750.50 \$ \$ 201,751 Potential Study J06D5 \$ 471,700.82 \$ 471,701 \$ \_ Data Tracking J06D6 \$ 181,574.80 181,575 \$ \$ General Expense J06D7 \$ 197,340.72 \$ 197,341 \$ \$ Communications J06DR 1,580,898 \$ 1,580,898.00 \$ \$ Research and Development J000P 130,857.45 130,857 \$ EMV Gen Expense J06DQ \$ 25,496.11 \$ 25,496 \$ EMV Res Programs J06DN \$ 1,628,822.87 1,628,823 \$ \$ \_ \$ EMV Biz Programs J06DP 1,558,127.50 1,558,128 **Subtotal Overhead Costs** \$ 6,022,069 \$ 6,022,069 \$ \$ 64,743,752 28.500.837 36,242,915 **Total Program Costs** 

<sup>3</sup> 

<sup>&</sup>lt;sup>13</sup> Table 3 was created from the information Ameren provided in Data Request No. 0002.1, detail can be found in Staff workpapers - Brooke Richter.

Ameren Missouri incurs administrative costs, directly related to the implementation of its approved energy efficiency programs. Staff uses the term administrative to mean all costs other than incentives.<sup>14</sup> Staff reviewed each administrative category of cost to determine the reasonableness of each individual item of cost and if the costs were directly related to energy efficiency programs.

The Plan budgeted for Administrative and Incentive program costs. <sup>15</sup> Table 4 provides a comparison for the 3-year Plan in total, 2016-2018 for Administrative and Incentive program costs. The results in Table 4 show Ameren Missouri's plan is for 52% 16 of the total program costs will be allocated towards incentives, and the other 48% 17 towards administrative costs. The results in Table 3 indicate that Ameren Missouri improved this ratio, as it shows actual incentives of the total program costs being 56% <sup>18</sup> during the Review Period. Delivering more incentives with less administrative costs is good thing and Staff will continue to monitor Ameren Missouri's progress through the conclusion of Cycle 2. The results of Ameren Missouri's 2016 through 2018 Energy Efficiency Plan of categorizing program costs, administrative and incentives are provided in Table 4 below.

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continued on next page

<sup>15</sup> Revised Appendix B and Appendix H of the February 5, 2016 Non-Unanimous Stipulation and Agreement. Details can be found in Staff workpapers - Brooke Richter.

<sup>&</sup>lt;sup>14</sup> Incentives are program costs for direct and indirect incentive payments to encourage customer and/or retail partner participation in programs and the costs of measures which are provided at no cost as a part of a program.

<sup>&</sup>lt;sup>16</sup> This percentage is calculated from total incentives over total portfolio in Table 4. Details can be found in Staff workpapers - Brooke Richter.

<sup>&</sup>lt;sup>17</sup> This percentage is calculated from total administrative costs over total portfolio in Table 4. Details can be found in Staff workpapers - Brooke Richter.

<sup>&</sup>lt;sup>18</sup> This percentage is calculated from actual incentives over total program costs, in Table 3. Details can be found in Staff workpapers - Brooke Richter.

Table 4

Ameren Missouri 2016-2018 plan for Administrative and Incentive Program Costs (in millions)							
MEEIA Programs	Administrative	Incentives	Total				
Res. Lighting	\$6.65	\$7.64	\$14.29				
Res. Efficient Products	\$2.53	\$2.53	\$5.06				
Res. HVAC	\$12.28	\$13.01	\$25.29				
Learning Thermostats*	\$1.07	\$2.81	\$3.88				
Res. Low Income	\$3.94	\$6.81	\$10.75				
Res. EE Kits	\$2.54	\$1.60	\$4.14				
Res. Home Energy Reports	\$4.30	\$0.00	\$4.30				
Total Residential Programs	\$33.31	\$34.40	\$67.71				
Bus. Standard	\$10.50	\$11.53	\$22.03				
Bus. Custom	\$24.71	\$27.27	\$51.98				
Bus. Retro Commissioning	\$2.94	\$3.98	\$6.92				
Bus. New Construction	\$2.08	\$2.74	\$4.82				
Bus. Small Business Direct Install	\$4.03	\$5.70	\$9.73				
Total Business Programs	\$44.26	\$51.22	\$95.48				
Total Portfolio \$77.57 \$85.62 \$163.							

<sup>\*</sup>Learning Thermostats will be incorporated into the Efficient Products and HVAC programs instead of being implemented as a separate program

Ameren Missouri provides incentive payments to its customers as part of its Plan. Incentive payments are an important instrument for encouraging investment in energy efficient technologies and products by lowering higher upfront costs for energy efficiency measures compare to the cost of less efficient measures. Incentive payments can also complement other efficiency policies such as appliance standards and energy codes to help overcome market barriers for cost-effective technologies. Staff also reviewed these incentive payments to Ameren Missouri's Vision<sup>©</sup> software monthly activity reports and Staff was unable to reconcile the incentive payments in the detail backup from Data Request No. 0002.1 to the reports generated from VisionDSM (VISION).

Based on communication with Ameren Missouri, journal entries made by Ameren Missouri into the General Ledger and related to residential program costs are not recorded in VISION<sup>19</sup> because only the contracted vendors enter data into VISION. As a result, VISION reports do not contain all the information that affects residential program costs. Therefore,

<sup>&</sup>lt;sup>19</sup> Communication indicating general ledger entries are not included in VISION located in Staff workpapers – Catherine F. Lucia.

Staff concludes the difference in incentive payments of \$79,338 between the General Ledger and VISION are due to these adjustments made to the General Ledger, which is not in VISION. Upon request from Staff, a partial reconciliation was received from Ameren Missouri which brought the difference between the program costs provided in Data Request No. 0002.1, which includes the General Ledger adjusting entries, and the VISION reports to \$630.90. In the time available for this prudence review, Staff was not able to replicate Ameren's reconciliation based on the information they provided<sup>20</sup>. Due to the difference in residential incentive payments between VISION and Data Request No. 0002.1, Staff recommends as a Best Business Practice that Ameren Missouri periodically reconcile internal general ledger entries to VISION. This reconciliation would increase internal control over program costs and create a clear audit trail to verify total program costs during a prudency review.

Staff found in the general ledger and in the response to Data Request No. 0002.1 transactions coded with the resource type C1 - Charitable Trust Contributions; the accumulated total for these transactions was \$262,600.96.<sup>21</sup> Staff found entries in the general ledger that transferred \$171,924.98<sup>22</sup> of costs from the resource type CI - Customer Incentives to the resource type C1 - Charitable Trusts Contributions within FERC Account 908. Staff questioned whether Charitable Trust Contributions are recoverable as program costs under MEEIA. Therefore, Staff requested additional documentation and explanation to clarify the validity of these costs and Ameren Missouri complied with Staff's request.

An explanation provided to Data Request No. 0018 by Ameren Missouri states initially it was a coding error but then adopted its continued use as a resource type for program costs through the recovery period to record customer incentives instead of administrative expenses. Staff notes another resource type, CI - Customer Incentives, was utilized to record the majority of customer incentives.

Due to the total amount of customer incentives recorded to C1 - Charitable Trust Contributions, Staff recommends as a Best Business Practice to discontinue the use of an

<sup>&</sup>lt;sup>20</sup> Spreadsheet of Ameren and Staff reconciliations located in Staff workpapers – Catherine F. Lucia.

<sup>&</sup>lt;sup>21</sup> Spreadsheet of C1- Charitable Trust Contributions located in Staff workpapers – Catherine F. Lucia.

<sup>&</sup>lt;sup>22</sup> Documentation of the entry transferring costs to a non-recoverable resource type per the MEEIA Rider located in Staff workpapers – Catherine F. Lucia.

erroneous resource type that categorizes program costs as not recoverable. This practice creates a clear audit trail to verify program costs during a prudence review.

Ameren Missouri and Staff held in-person meetings on January 22, 2018, at Ameren Missouri's St. Louis office. Ameren Missouri and Staff discussed the topics identified in Addendum E. Ameren Missouri made available each of its program managers to Staff, and each program manager provided detailed actions they take to confirm the accuracy of the information provided.

## 2. Summary of Cost Implications

If Ameren Missouri was imprudent in its decisions relating to the administration and implementation of the Residential and Business Energy Efficiency Programs, ratepayer harm could result in an increase in future Energy Efficiency Investment Charges.

#### 3. Conclusion

Staff found Ameren Missouri did act imprudently by including inappropriate costs associated with its Energy Efficiency Programs resulting in ratepayer harm and adjustments for these inappropriate costs are detailed in Sections C through G of this report.

Staff found Ameren Missouri did act imprudently by not routinely reconciling the internal general ledger entries made by Ameren Missouri affecting program costs to the data entered in VISION by the contracted vendors and recommends a periodic reconciliation of program costs. Staff notes ratepayer harm did not occur; therefore, no disallowance of costs.

Staff found Ameren Missouri did act imprudently by adopting the use of accounting resource type, C1 – Charitable Trust Contributions, for customer incentives which categorizes those costs in the general ledger as not recoverable per the MEEIA Rider and recommends the use of a resource types that will categorize program costs as recoverable. Staff notes ratepayer harm did not occur; therefore, no disallowance of costs.

## 4. Documents Reviewed

- a. Ameren Missouri's 2016 2018 Energy Efficiency Plan;
- b. Approved MEEIA Energy Efficiency and Demand Side Management Programs Tariff Sheets;
- c. Staff Data Requests: 0001, 0002, 0002.1, 0002.9, 0002.10, 0009, 0014, 0018 and 0019;

- d. January 22, 2018 in-person meetings and interviews with Ameren
  Missouri;
  e. Emails with Tom Thompson;
  f. Telecommunication with Tom Thompson;
  - g. VISION; and,
  - h. General Ledger FERC Account 908.

Staff Experts/Witnesses: Brooke Richter (Program Costs) and
Catherine F. Lucia (General Ledger- FERC Account 908)

## **B.** St. Louis Cardinals Sponsorship Costs

#### 1. Description

Ameren Missouri engages in advertising activities to deliver its approved DSM programs to its customers. During its prudence review, Staff identified costs related to Ameren Missouri's sponsorship of the St. Louis Cardinals baseball team. Similar costs for St. Louis Cardinals sponsorship were identified in Staff's last prudence review for MEEIA Cycle 1, Case No. EO-2017-0023, in which the Commission ordered on April 19, 2017:

In its next Rider EEIC filing to adjust its EEIR, Ameren Missouri shall include a \$60,000 credit to customers as an "ordered adjustment" in the "Net Ordered Adjustment" component of its EEIR calculation. The \$60,000 reflects the removal of certain expenses for marketing and an employee recognition event, as well as the recognition of program costs from the 3rd Qtr of 2016.

In this prudence review, Staff questioned the amount of the Cardinals sponsorship costs, and received additional information from the Company to confirm it had already identified these costs and made a reversal for them in November 2017, which is outside of the review period. These costs were specifically for the outfield sign at Busch Stadium, which was completely removed as program costs for MEEIA Cycle 2, and Energy Efficiency radio advertising, which was partially removed as well in November 2017. The partial removal was based on the agreed upon percentage for radio advertising in Case No. EO-2017-0023. The entries for removing these charges did not fall within the March 1, 2016 through October 31, 2017 prudence review time frame, but were reflected in the November 2017 rate adjustment filing for the Rider EEIC.

## 2. Summary of Cost Implications

If Ameren Missouri was imprudent in its decisions relating to the determination of the Cardinals sponsorship costs billed to customers, ratepayer harm could result in an increase in Energy Efficiency Investment Charge billed amounts.

#### 3. Conclusion

Staff found Ameren Missouri has not acted imprudently when accounting for costs related to its sponsorship of the St. Louis Cardinals.

#### 4. Documents Reviewed

- a. Ameren Missouri's 2016-2018 Energy Efficiency Plan;
- b. Approved MEEIA Energy Efficiency and Demand Side Management Programs Tariff Sheets;
- c. Rider EEIC; and,
- d. Staff Data Requests: 0002, 0002.1, and 0002.3.

Staff Expert/Witness: Brooke Richter

## C. Travel, Conferences, and Entertainment

#### 1. Description

Ameren Missouri attended several conferences in locations such as Napa Valley, California; San Diego, California; Miami, Florida; Denver, Colorado; etc. Staff requested the Company provide agendas and receipts related to these conferences. After reviewing these agendas for the conferences, and receipts, Staff has found that while part of some conferences were related to energy efficiency, other parts were related to renewables, websites of the future, multicultural growth; and one trip was solely for an awards ceremony. Staff also found there were brewery and wine tasting tours on an agenda, and expensive resorts, such as Hotel Del Coronado in San Diego, CA. While Staff is aware part of these conferences were in relation to energy efficiency; however, other parts were clearly not MEEIA related and were excessively expensive.

Staff also wanted to point out that some of the conferences held out-of-state, were held by or sponsored by ICF. ICF is one of Ameren Missouri's implementation contractors, and ICF has an office in St. Louis, Missouri. Staff believes if ICF wanted to hold a training session for Ameren Missouri, they could have done so in St. Louis. Ameren Missouri spends millions of dollars on all their implementation contractors and EM&V implementers; they should not have to spend money on additional training for Ameren Missouri employees as well.

Ameren Missouri does not include any direct labor costs in MEEIA, as all MEEIA direct labor is included in permanent rates. Staff believes any out-of-state travel and training should be considered an indirect labor cost which should not be recovered in MEEIA.

As a result of this review, Staff recommends a disallowance including interest of \$22,539.34<sup>23</sup> towards any out-of-state travel for conferences and some in-state travel costs for entertainment. Staff's initially reviewed receipts for out-of-state and in-state travel for a total of \$25,619.57. Staff considers that in-state travel is appropriate for meetings and conferences, but any out-of-state travel is not appropriate as these same conferences and trainings could be attended much closer to Ameren Missouri's St. Louis office at a less expensive cost, therefore these costs do not belong in MEEIA. Staff does not have an opinion if this type of travel should be recovered in base rates.

## 2. Summary of Cost Implications

If Ameren Missouri was imprudent in its decision relating to employee out-of-state travel and training, ratepayer harm could result in an increase in Energy Efficiency Investment Charge billed amounts.

#### 3. Conclusion

Staff finds it is imprudent for Ameren Missouri to include \$22,539.34 related to out-of-state travel costs and certain in-state entertainment in its Rider EEIC. The Staff recommends the Commission order an adjustment in the amount of \$22,539.34 plus future interest.

## 4. Documents Reviewed

- a. Ameren Missouri's 2016-2018 Energy Efficiency Plan;
- b. Approved MEEIA Energy Efficiency and Demand Side Management Programs and Tariff Sheets;

<sup>&</sup>lt;sup>23</sup> This disallowance for travel, conferences, and entertainment is itemized in Staff's workpapers - Brooke Richter.

c. Rider EEIC; and,
 d. Staff Data Requests: 0001, 0002, 0002.1, 0002.2, 0002.8, and 0016.
 Staff Expert/Witness: Brooke Richter

# D. Advertising

#### 1. Description

Ameren Missouri engaged in advertising activities in order to effectively deliver its approved DSM programs to customers. Staff reviewed costs categorized by Ameren Missouri in the general ledger as BX – Purchases Other incurred during the review period for a total of \$31,804.32<sup>24</sup> which included Purchases Other – Advertising in the total amount of \$5,804.32, 2016 Green Homes Festival Sponsorship in the amount of \$13,000.00, and Earthways Sponsorship in the amount of \$13,000.00.

In its evaluation of allowable advertising costs, Staff relied on the principles that the Commission previously had determined appropriated in KCPL Case No. EO-85-185, et al.<sup>25</sup> As a result of the decision in that case, the Commission has subsequently recognized five categories of advertisements, and specific rate treatment for each of the following categories:

- 1. General: information advertising that is useful in the provision of adequate services;
- 2. Safety: advertising which conveys the ways to safely use electricity and to avoid accidents;
- 3. Promotional: advertising used to encourage or promote the use of electricity
- 4. Institutional: advertising used to improve the company's public image;
- 5. Political: advertising associated with political issues.

The Commission adopted these categories of advertising costs and provided the rationale that a utility's revenue requirement should: 1) always include the reasonable and necessary costs of general and safety advertisements; 2) never include the cost of instructional or political advertisements; and 3) include the cost of promotional advertisements only to the extent that the utility can provide cost-justification for the advertisement.

<sup>&</sup>lt;sup>24</sup> Spreadsheet of advertising costs located in Staff workpapers – Catherine F. Lucia.

<sup>&</sup>lt;sup>25</sup> Re: Kansas City Power and Light Company, 28 Mo.P.S.C. (N.S.) 228,269-71 (1986).

Based upon Staff's review, Staff has determined the costs associated with certain
Ameren Missouri advertising costs of \$3,556.10<sup>26</sup> should be disallowed because they are
categorized as institutional and promotional advertising as it seeks to promote Ameren
Missouri's public image and not energy efficiency.

Staff recommends in addition to the disallowance of \$3,556.10 for advertising costs
the Commission seek recovery of \$39.07 for interest, for a combined disallowance of
\$3,595.17.

## 2. Summary of Cost Implications

If Ameren Missouri was imprudent assigning institutional goodwill costs as MEEIA costs, ratepayer harm could result in an increase in Energy Efficiency Investment Charge billed amounts.

#### 3. Conclusion

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Staff finds it is imprudent for Ameren Missouri to seek recovery of \$3,556.10 of institutional goodwill costs as MEEIA costs. The Staff recommends the Commission order an adjustment in the amount of \$3,595.17 which includes interest in the amount of \$39.07.

#### 4. Documents Reviewed

- a. Ameren Missouri's 2016-2018 Energy Efficiency Plan;
- b. Approved MEEIA Energy Efficiency and Demand Side Management Programs and Tariff Sheets;
- c. Rider EEIC;
- d. The Staff Accounting Position on Advertising Paper;
- e. Telecommunication with Tom Thompson;
- f. Data provided through emails with Tom Thompson; and,
- g. Staff Data Request: 0022.

Staff Expert/Witness: Catherine F. Lucia

<sup>&</sup>lt;sup>26</sup> Detail explanation of disallowance of advertising costs located in Staff workpapers – Catherine F. Lucia.

# E. Membership and Trade Dues

#### 1. Description

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Ameren Missouri incurred costs related to membership and trade dues during this review period. Staff reviewed these costs categorized by Ameren Missouri in the general ledger with the resource type MD - Dues and Membership Other recorded during the review involved period total of \$25,750.00. These costs the following organizations/associations; Consortium for Energy Efficiency in the amount of \$10,000.00, Facility Operators and Service Providers Association in the amount of \$500.00, Peak Load Management Alliance in the amount of \$4,950.00, and Prepay Energy Working Group Corporate Membership in the amount of \$10,000.00.

Also, Staff reviewed costs categorized by Ameren Missouri in the general ledger as MT - Membership Trade recorded during the review period for a total of \$5,000.00 which included one organization, the U.S. Green Building Council.

In its evaluation of costs related to membership and trade dues, Staff relied on the following categories recognized by the Commission:

- 1) Business and Professional: assist company employees in maintaining and expanding their level of knowledge in their respective fields;
- 2) Industry: function of these organizations is the performance of research and development activities or lobbying activities;
- 3) Economic and civic: activities of these organizations include attracting new businesses to areas in which the utility operates, retaining and encouraging growth of existing companies and fostering an overall business and economic climate;
- 4) Social: utilities see membership in these organizations as a means to promote their image in the community.

The Commission adopted these categories of membership and trade dues and provided the rationale to apply when reviewing these costs: 1) no direct, quantifiable benefit to the ratepayer, 2) were not necessary in providing safe and adequate service to the ratepayer, or 3) represent an involuntary contribution on the part of the ratepayer to an organization.

Based upon Staff's review, Staff has determined the costs associated with membership and trade dues for the amount \$30,750.00,<sup>27</sup> should be disallowed based on the rationale provided.

<sup>&</sup>lt;sup>27</sup> Spreadsheet of Membership and Trade Dues located in Staff workpapers – Catherine F. Lucia.

Staff recommends a disallowance of \$30,750.00 for purchasing rate transactions plus \$380.03 for interest, for a total disallowance of \$31,130.03.

## 2. Summary of Cost Implications

If Ameren Missouri was imprudent in its decisions membership and trade dues ratepayer harm could result in an increase in Energy Efficiency Investment Charge billed amounts.

#### 3. Conclusion

Staff believes Ameren Missouri was imprudent when it included membership and trade dues as MEEIA costs. The Staff recommends the Commission order an adjustment in the amount of \$30,750.00 plus interest of \$380.03.

#### 4. Documents Reviewed

- a. Ameren Missouri's 2016-2018 Energy Efficiency Plan;
- b. Approved MEEIA Energy Efficiency and Demand Side Management Programs and Tariff Sheets;
- c. Rider EEIC;
- d. Staff Accounting Position Paper on Dues and Donations;
- e. Telecommunication with Tom Thompson;
- f. Data provided through emails with Tom Thompson; and,
- g. Staff Data Request: 0022.

Staff Expert/Witness: Catherine F. Lucia

## F. Costs to correct 2014 EM&V reports

## 1. Description

During the review of the Ameren Missouri's response to Data Request No. 0002.4 Staff chose to review an amount identified as Cadmus in the amount of \$11,616.00 recorded in the month of August 2016 and an amount identified as ADM in the amount of \$8,340.00 recorded in the month of September 2016. Cadmus and ADM are under contract with Ameren Missouri as the EM&V contractors. The Cadmus invoice (#228128) dated July 5, 2016 and assigned to purchase order #758088 reflected the cost to run the DSMore analysis

with correct avoided costs. The ADM amount involved two invoices (#1607-1.1 and 1607-2) dated September 19, 2016 and September 12, 2016 (respectively) and both assigned to purchase order #759846. The ADM invoice 1607-1.1 was in the amount of \$7,440.00 and invoice 1607-2 in the amount of \$900.00 for a combined total of \$8,340.00. These two ADM invoices reflected the cost to correct the 2014 EM&V reports for 2014 avoided costs and the DSMore analysis.

As a result of this review, Staff recommends a disallowance for these combined invoices in the amount of \$19.956.00<sup>28</sup> related to correct the 2014 EM&V reports for 2014 avoided costs as they are related to case EC-2015-0315 and the opinion filed as WE79406 by the Western Court of Appeals. Staff also recommends the disallowance of \$269.49 for interest associated with this proposed disallowance of costs which results in a combined disallowance of \$20,225.49.

#### 2. Summary of Cost Implications

If Ameren Missouri was imprudent when it provided its EM&V contractors with noncompliant avoided costs, ratepayer harm could result in an increase in Energy Efficiency Investment Charge billed amounts.

#### 3. Conclusion

Staff finds it is imprudent for Ameren Missouri to include \$19,956.00 related to the repair amended 2014 EM&V reports for 2014 avoided costs and DSMore analysis. The Staff recommends the Commission order an adjustment in the amount of \$19,956.00 plus interest amount of \$269.49 for a total disallowance of \$20,225.49.

#### 4. Documents Reviewed

- a. Ameren Missouri's 2016-2018 Energy Efficiency Plan;
- b. Approved MEEIA Energy Efficiency and Demand Side Management Programs and Tariff Sheets;
- c. Rider EEIC;

<sup>&</sup>lt;sup>28</sup> Disallowance of costs to repair amended 2014 report for 2014 avoided costs located in Staff workpapers – Catherine F. Lucia.

1 d. Telecommunication with Tom Thompson; 2 e. Data provided through emails with Tom Thompson; and, 3 Staff Data Requests: 0002.1, 0002.4, and 0014. 4 Staff Expert/Witness: Catherine F. Lucia 5 G. Purchasing Rate 6 1. Description 7 During the review of Ameren Missouri's response to Data Request No. 0002.4, Staff 8 found three transactions recorded with the description "Purchasing Rate". The first transaction 9 was recorded in August 2016 for \$580.80, the second transaction was recorded in September 10 2016 for \$417.00, and the third transaction was recorded in June 2017 for \$1,700.00. These 11 transactions were included in a group of several transactions entered through the general 12 ledger as MEEIA 1 costs that were being re-classed, carried forward as MEEIA Cycle 2 costs. 13 During the review of these transactions and through additional communication with Ameren 14 Missouri, it was stated multiple times transactions related to "purchasing rate" were not to be included in the re-class of costs from MEEIA Cycle 1 to MEEIA Cycle 2. 15 Staff recommends a disallowance of \$2,697.80<sup>29</sup> for purchasing rate transactions and 16 recovery of \$23.65 for interest, for a combine disallowance of \$2,721.45. 17 18 2. Summary of Cost Implications 19 If Ameren Missouri was imprudent in its decisions relating to the determination of the 20 costs billed to customers, ratepayer harm could result in an increase in Energy Efficiency 21 Investment Charge billed amounts. 22 3. Conclusion 23 Staff finds it is imprudent for Ameren Missouri to include \$2,697.80 for purchasing

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rate transactions as MEEIA costs. The Staff recommends the Commission order an

adjustment of \$2,697.80 plus interest of \$23.65 for a total disallowance of \$2,721.45.

<sup>&</sup>lt;sup>29</sup> Disallowance purchasing rate transactions located in Staff workpapers – Catherine F. Lucia.

1	4. Documents Reviewed
2	a. Ameren Missouri's 2016-2018 Energy Efficiency Plan;
3	b. Approved MEEIA Energy Efficiency and Demand Side Management
4	Programs and Tariff Sheets;
5	c. Rider EEIC;
6	d. Data provided through emails with Tom Thompson;
7	e. Telecommunication with Tom Thompson; and,
8	f. Staff Data Requests: 0002.1, 0002.4, and 0014.
9	Staff Expert/Witness: Catherine F. Lucia
10	H. Implementation Contractors
11	1. Description
12	Ameren Missouri hired business partners for design, implementation and delivery of
13	its portfolio of residential and business energy efficiency programs to customers. Contracting
14	with competent, experienced and reliable program implementers is extremely important to the
15	success of Ameren Missouri's energy efficiency programs and for affording Ameren
16	Missouri's customers the greatest benefits.
17	Ameren Missouri issued RFPs for program implementers to directly administer one or
18	more of Ameren Missouri's energy efficiency programs. Ameren Missouri selected and
19	contracted with the organization identified in Table 5 <sup>30</sup> to implement individual MEEIA
20	programs. All of the implementers identified on Table 5 are national recognized contractors
21	that have solid histories of energy efficiency programs' design and implementation.
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27	continued on next page

Table 5 was created by using planned kWh and kW provided in Table 6, and program implementers and EM&V contractors were provided in an email to Staff on April 24, 2018. Details are provided in Staff workpapers - Brooke Richter.

Table 5

Cumulative Totals for March 1, 2016 through October 31, 2017								
	Planned Annual Energy	Planned Annual Demand Savings	Program	Program EM&V				
MEEIA Programs	Savings (kWh)	(kW)	Implementers	Contractors				
Res. Lighting	42,012,139	6,259	ICF	Cadmus Group				
Res. Efficient Products	7,614,644	2,366	ICF	Cadmus Group				
Res. HVAC	57,829,425	36,898	ICF	Cadmus Group				
Res. Smart Thermostats	4,191,510	3,978	ICF	Cadmus Group				
Res. Low Income	9,409,488	2,185	ICF	ADM				
Res. EE Kits	12,042,702	1,997	ICF	Cadmus Group				
Res. Home Energy Reports	33,750,000	15,714	ICF	Cadmus Group				
Bus. Standard	52,621,209	10,180	Lockheed Martin	ADM				
Bus. Custom	108,850,715	24,423	Lockheed Martin	ADM				
Bus. Retro Commissioning	12,381,982	2,811	Lockheed Martin	ADM				
Bus. New Construction	9,146,309	3,017	Lockheed Martin	ADM				
Bus. Small Business Direct Install	14,015,652	2,649	Lockheed Martin	ADM				
Total Portfolio	363,865,777	112,478						

Staff reviewed Ameren Missouri's relationship with its implementers to gauge if Ameren Missouri acted prudently in the selection and oversight of its program implementers. Staff also examined the contracts between Ameren Missouri and the implementers in an effort to determine if the terms of the contract where followed during the implementation of the residential and business programs. During this review of the invoices, ICF and Lockheed Martin invoices were crosschecked to the Data Request No. 0002.1, and all invoices were reviewed.

Achieved cumulative deemed annual energy and demand savings relative to the planned cumulative annual energy and demand savings for the same period is important to understanding the overall performance of Ameren Missouri's energy efficiency programs. Table 6 provides a comparison of achieved savings and planned saving for Ameren Missouri's residential and business programs for the Review Period. If Ameren Missouri was unable to achieve its planned energy and demand savings levels, that could be an indication the programs were not being prudently administered by the implementers and by

Ameren Missouri. The results in Table 6<sup>31</sup> indicate that Ameren Missouri exceeded its plan for cumulative deemed annual energy savings by 13%<sup>32</sup> during the Review Period. This measurement only represents a portion of Ameren Missouri's 2016-2018 Energy Efficiency Plan and could change during the Plan cycle.

Table 6

Cumulative Totals for March 1, 2016 through October 31, 2017								
	Achieved Annual Energy	Planned Annual Energy Savings		Achieved Annual Demand	Planned Annual Demand Savings			
MEEIA Programs	Savings (kWh)	(kWh)	Variance	Savings (kW)	(kW)	Variance		
Res. Lighting	55,456,196	42,012,139	13,444,057	8,277	6,259	2,018		
Res. Efficient Products	6,339,647	7,614,644	-1,274,997	1,592	2,366	-774		
Res. HVAC	93,418,722	57,829,425	35,589,297	62,173	36,898	25,275		
Res. Smart Thermostats	7,129,122	4,191,510	2,937,612	6,754	3,978	2,776		
Res. Low Income	4,503,889	9,409,488	-4,905,599	1,271	2,185	-914		
Res. EE Kits	5,451,098	12,042,702	-6,591,605	1,337	1,997	-660		
Res. Home Energy Reports	33,750,000	33,750,000	0	15,730	15,714	16		
Total Residential Programs	206,048,674	166,849,909	39,198,765	97,134	69,398	27,736		
Bus. Standard	90,219,908	52,621,209	37,598,699	17,047	10,180	6,867		
Bus. Custom	81,869,503	108,850,715	-26,981,212	23,104	24,423	-1,319		
Bus. Retro Commissioning	1,085,100	12,381,982	-11,296,882	392	2,811	-2,418		
Bus. New Construction	24,189,379	9,146,309	15,043,070	4,002	3,017	985		
Bus. Small Business Direct Install	5,963,429	14,015,652	-8,052,223	1,133	2,649	-1,516		
Bus. EMS	3,078,522	0	3,078,522	0	0	0		
Total Business Programs	206,405,841	197,015,867	6,311,452	45,678	43,080	2,598		
Total Portfolio	412,454,515	363,865,777	45,510,216	142,812	112,478	30,334		

## 2. Summary of Cost Implications

If Ameren Missouri was imprudent in its decisions relating to the selection and supervision of its program implementers, ratepayer harm could result in an increase in the future Energy Efficiency Investment Charge amounts.

## 3. Conclusion

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Staff found no indication that Ameren Missouri has acted imprudently regarding the selection and supervision of its program implementers.

<sup>&</sup>lt;sup>31</sup> Table 6 was created from information provided in an email from Ameren Missouri on April 2, 2018. The Company stated this information came from Ameren's Dashboard. Details can be found in Staff workpapers - Brooke Richter.

<sup>&</sup>lt;sup>32</sup> This calculation derived from the total variance divided by the total planned energy savings (kWH). Details can be found in Staff workpapers - Brooke Richter.

#### 4. Documents Reviewed

- a. Ameren Missouri's 2016 2018 Energy Efficiency Plan;
- b. Approved MEEIA Energy Efficiency and Demand Side Management Programs Tariff Sheets;
- c. Data given through emails from Tom Thompson; and,
- d. Staff Data Requests: 0001, 0002, 0002.1, and 0015.

Staff Expert/Witness: Brooke Richter

## I. Billed Program Costs

## 1. Description

For the Review Period, Ameren Missouri billed customers through a separate line item on customers' bills titled "Energy Efficiency Investment Charge" to recover estimated energy efficiency programs' costs and estimated Company's TD. The "Energy Efficiency Investment Charge" is based on the customer's monthly consumption and the applicable energy efficiency investment rates approved by the Commission in Case Nos. ER-2016-0242 and ER-2018-0144.<sup>33</sup> During the Review Period of March 1, 2016 through October 31, 2017, Ameren Missouri billed customers \$66,509,227 to recover its estimated energy efficiency programs' costs. For the same period, Ameren Missouri actually spent \$64,743,753 on its energy efficiency programs. Thus, Ameren Missouri over-collected \$1,765,475 from its customers during the Review Period. The monthly amounts that are either over- or under-collected from customers are tracked in a regulatory asset account, along with monthly interest, until Ameren Missouri files for rate adjustments under its Rider EEIC and new energy efficiency investment rates are approved by the Commission.<sup>34</sup> The cumulative interest associated with this over-collected amount was \$48,801 as of October 31, 2017.

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<sup>&</sup>lt;sup>33</sup> The energy efficiency investment rates on Original Sheet No. 91.11, approved in Case No. EO-2015-0055, are based upon anticipated costs as well as reconciliations of historical costs associated with Ameren Missouri's approved demand-side programs. Rate changes occurred during the review period in support of revisions to Rider EEIC – Energy Efficiency Investment Charge of Ameren Missouri's Schedule No. 6 – Schedule of Rates for Electric Service, 2<sup>nd</sup> and 3<sup>rd</sup> Revised Sheet No. 91.11 (respectively), in Case Nos.ER-2017-0149 and ER2018-0144

<sup>&</sup>lt;sup>34</sup> On November 21, 2014, Ameren Missouri filed, in Case No. ER-2015-0075 and Tariff Tracking No. YE-2015-0210, testimony, workpapers and its proposed 1st Revised Sheet No. 90.5 to adjust Rider EEIC rates effective with its February 2015 billing month, beginning January 27, 2015, to reflect an increase in annual revenue requirements of \$45.4 million (from \$80.9 million to \$126.3 million).

## 2. Summary of Cost Implications

If Ameren Missouri was imprudent in its tracking, reporting and/or calculating the Company's estimated billed costs, ratepayer harm could result in an increase in future Energy Efficiency Investment Charge amounts.

#### 3. Conclusion

Staff found no indication that Ameren Missouri has acted imprudently regarding the calculation of the estimated billed program costs related to the cost recovery of its MEEIA program costs.

#### 4. Documents Reviewed

- a. Ameren Missouri's 2016 2018 Energy Efficiency Plan;
- b. Approved MEEIA Energy Efficiency and Demand Side Management Programs Tariff Sheets;
- c. Discussions and meetings with Ameren Missouri; and,
- d. Staff Data Requests: 0001, 0002 0004, 0011 and 0017.

Staff Expert/Witness: Dana E. Eaves

## J. Throughput Disincentive Costs Billed and Actual

#### 1. Description

Ameren Missouri calculates TD monthly based upon all end use measures installed during the month and the savings associated with each installed measure. The TD calculation is prescribed in the Rider EEIC where TD = MS x NMR x NTGF<sup>35</sup>. Staff reviewed the various components of the TD calculation for the accuracy and proper timing of measure counts. TD is also billed to customers through the "Energy Efficiency Investment Charge" line item on the customers' bill by combining net program cost with net throughput disincentive (\$/kWh) rates as prescribed in Ameren Missouri's Rider EEIC.<sup>36</sup> During the Review Period, Ameren Missouri billed customers \$23,082,520 for the Cycle 2 estimated Company TD and for the Cycle 1 TD under-recovery of \$13,541,922. The actual Company

35 Throughput Disincentive = Monthly Savings x Net Margin Revenue x Net to Gross Factor.

<sup>&</sup>lt;sup>36</sup> ER-2016-0242; Union Electric Company Rider EEIC MO.P.S.C Schedule No. 6, 1st Revised No. 91.11, Tracking No. YE-2016-0244 and ER-2017-0149; Union Electric Company Rider EEIC MO.P.S.C Schedule No. 6, 2nd Revised No. 91.11, Tracking No. YE-2017-0079.

TD for Cycle 2 during the Review Period was \$12,586,081. Thus, Ameren Missouri undercollected \$3,045,483 from its customers during the Review Period.

## 2. Summary of Cost Implications

If Ameren Missouri was imprudent in its tracking, reporting and/or calculating the Company's estimated billed TD or actual TD cost, ratepayer harm could result in an increase in future Energy Efficiency Investment Charge amounts.

#### 3. Conclusion

Staff found no indication that Ameren Missouri has acted imprudently regarding the calculation of the TD billed or the actual TD calculated related to the cost recovery of its MEEIA TD costs or recovery of those costs.

#### 4. Documents Reviewed

- a. Ameren Missouri's 2016 2018 Energy Efficiency Plan;
- b. Approved MEEIA Energy Efficiency and Demand Side Management Programs Tariff Sheets;
- c. Discussions and meetings with Ameren Missouri; and,
- d. Staff Data Requests: 0001, 0002 0004, 0011 and 0017.

Staff Expert/Witness: Dana E. Eaves

#### IV. GROSS ANNUAL ENERGY AND DEMAND SAVINGS (KWH AND KW)

## 1. Description

The purpose of Ameren Missouri's energy efficiency programs is for customers to use less energy and therefore everything else equal reduces the need for more generation. In the 2016, Stipulation Ameren Missouri planned for cumulative annual energy savings of 571,980,000 kWh and demand savings of 166,642 kW. For the review period, Ameren Missouri reported actual gross energy and demand savings based upon installed measures of 410,957,000 kWh<sup>37</sup> and 141,403 kW, respectively. Ameren Missouri monetizes the actual energy savings through its TD calculation as discussed earlier.

<sup>&</sup>lt;sup>37</sup> The gross energy savings of 410,957,000 kWh does not include some retrospective adjustments to reach the achieved energy savings of 412,454,515 kWh in Table 6. The retrospective adjustments of 1,497,515 kWh should be included in the TD in the next Rider EEIC rate adjustment filing.

The annual EM&V process also affects Ameren Missouri's savings by verifying the savings. After each EM&V have been performed by its EM&V contractor Ameren Missouri must rebase its gross energy and demand savings based upon the findings in the EM&V report. Staff has reviewed Ameren Missouri rebasing processes and procedures. Rebasing adjustment will be used in determining load forecast in Ameren Missouri next general rate case.

## 2. Summary of Cost Implications

If Ameren Missouri was imprudent in its tracking, reporting and/or calculating the Company's estimated energy and demand savings and its rebasing, ratepayer harm could result in an increase in future Energy Efficiency Investment Charge amounts.

#### 3. Conclusion

Staff found no indication that Ameren Missouri has acted imprudently regarding the calculation of the energy savings.

#### 4. Documents Reviewed

- a. Ameren Missouri's 2016 2018 Energy Efficiency Plan;
- b. Approved MEEIA Energy Efficiency and Demand Side Management Programs Tariff Sheets;
- c. Ameren Missouri's TD Calculator Excel version; and,
- d. Staff Data Requests: 0001, 0002 0004, 0011 and 0017.

Staff Expert/Witness: Dana E. Eaves

#### V. INTEREST

## 1. Description

Staff reviewed the interest calculations for program costs and throughput disincentive, broken out by rate class as provided in Ameren Missouri's response to Data Request No. 0004 for the review period of March 1, 2016 through October 31, 2017. Staff verified the company's monthly short-term borrowing rate was applied correctly to the over- or underrecovered balances for program costs and TD. Ameren Missouri has changed the method of calculating interest associated with TD from Cycle 1. Starting with Cycle 2 it is calculating

interest associated with TD by business rate class. Staff agrees with this approach as it better reflects actual interest costs for business rate classes instead of taking the average over- or under- TD balances and spreading it over all rate classes. This is important because the business rates classes have specific EEIRs. Staff would recommend that Ameren Missouri employ this same methodology for business program expense if possible.

## 2. Summary of Cost Implications

If Ameren Missouri was imprudent in its reporting and/or calculating of the interest associated with the over- or under-recovery of energy efficiency programs' costs and/or the TD, ratepayer harm could result in an increase in future Energy Efficiency Investment Charge amounts.

#### 3. Conclusion

Staff recommends Ameren Missouri provide the interest calculation for business program costs by rate class, if possible, as the company currently provides for the TD interest calculation.

#### 4. Documents Reviewed

- a. Ameren Missouri's 2016 2018 Energy Efficiency Plan;
- b. Approved MEEIA Energy Efficiency and Demand Side Management Programs Tariff Sheets; and,
- c. Staff Data Requests: 0001, 0002 and 0004.

Staff Expert/Witness: Kory J. Boustead

#### VI. EVALUATION MEASUREMENT AND VERIFICATION (EM&V)

## 1. Description

In the 2016 Stipulation, Ameren Missouri agreed<sup>38</sup> to have its independent EM&V evaluator(s) perform annual EM&V and file annual EM&V reports with the Commission following each program year. During this review period, Ameren Missouri's evaluators filed their 2016 Program Year EM&V Reports (PY 2016 EM&V). Final changes to the Cadmus PY 2016 EM&V Report resulted from the Commission's September 27, 2017

<sup>&</sup>lt;sup>38</sup> 2016 Stipulation, Parapraph 11 and Appendix C – EMV Plan and Timeline.

Order Approving Non-Unanimous Stipulation and Agreement in Case No. EO-2015-0055. The cost of EM&V work performed by Ameren Missouri's independent contractors for the review period is \$3,212,446.

Ameren Missouri contracted with The Cadmus Group, Inc. ("Cadmus") and ADM Associates, Inc. (ADM) to be the independent EM&V evaluators. Ameren Missouri holds back or retains 10%<sup>39</sup> of the total amount of each invoice submitted by the EM&V evaluators. The 10% held back is not paid until a project has been completed to the satisfaction of Ameren Missouri. Therefore, only 90% of the invoices submitted are paid and reflected in the transactions provided in Data Request No. 0002.1 and Data Request No. 0014. This 10% is an accumulating balance and only paid on projects completed at which time the accumulating balance is reduced. EM&V Invoices submitted by Ameren did provide an itemized list of the dollar amount for each 10% held back. Staff was able to verify the recording of invoices at 90% of the total invoiced amount and the subsequent payments for the 10% held back in the response provided to Data Request No. 0002.1 and Data Request No. 0014.

Staff requested from Ameren Missouri copies of the EM&V evaluators' invoices. A total of 24 Cadmus invoices were received and reviewed by Staff. Of those 24 invoices, 19 were duplicated with an accumulated total invoiced amount of \$1,163,286.02. 40 These invoices had the exact number of incurred billable hours by the same employees and the difference between them was the assigned project number and the assigned project name of either "Evaluation" or "Planning and Budget". These duplicate invoices were not defaced, voided, marked with anything that indicated they were duplicates and not valid unpaid invoices. Staff researched the responses to Data Request No. 0002.1 and Data Request No. 0014, which contained program costs provided by Ameren Missouri, and verified that the duplicate invoices were not paid.

Staff requested copies of purchase orders issued for Cadmus and received two that were related to these EM&V costs. One purchase order (PO# 742156) was in the amount of \$306,300.00 and issued October 4, 2016 and the other purchase order (PO# 771905) was in the amount of \$2,631,561.00 issued December 6, 2016. The total of these two purchase orders

<sup>&</sup>lt;sup>39</sup> Spreadsheet of 10% retainage on Cadmus invoices located in Staff workpapers – Catherine F. Lucia.

<sup>&</sup>lt;sup>40</sup> Spreadsheet of duplicate invoices are located in Staff workpapers – Catherine F. Lucia.

is \$2,937,861.00. Staff notes the total invoices received from Cadmus associated with these purchase orders, including the duplicate invoices, was \$2,689,413.94.

In a teleconference conversation held on April 11<sup>th</sup>, Ameren Missouri Staff stated purchase orders are issued in the amount of the contract and when entered into its accounts payable system an internal flag prevents payment(s) from exceeding the agreed contract amount. In this particular situation, had all invoices been entered for payment, the internal flag would not have been effective, because the total amount of the submitted invoices is less than the total amount of the issued purchase orders. In response to Data Request No. 0023 received on April 25<sup>th</sup>, Ameren Missouri stated "Ameren's accounts payable system will only allow the payment of invoices to exceed \$10,000 above the purchase order amount"; this would not have prevented payment of the duplicate invoices. In Ameren Missouri's contract with Cadmus it states under the section for Statistical Sampling Audits, "A computer generated random sample of approximately one hundred invoices shall be selected from the population of invoices covering the audit period, (generally four years)."; this would not be applicable to the 24 invoices received from Cadmus during the 20-month review period.

Due to the high number of duplicate invoices received during this 20-month review period and the increased risk of overpayment of program costs, Staff recommends as a Best Business Practice that Ameren Missouri implement procedures that could increase internal controls through early detection of duplicate invoicing and notification to the vendor for immediate cessation of this practice.

## 2. Summary of Cost Implications

If Ameren Missouri was imprudent in administration of its EM&V contracts, ratepayer harm could result in an increase in future Energy Efficiency Investment Charge amounts.

#### 3. Conclusion

Staff found no indication that Ameren Missouri acted imprudently regarding the administration of EM&V contracts concerning its PY 2016 EM&V.

Staff found Ameren did act imprudently regarding the treatment of duplicate invoices received from Cadmus. Staff notes ratepayer harm did not occur; therefore no disallowance of costs.

4. Documents Reviewed									
a. Ameren Missouri's 2016 – 2018 Energy Efficiency Plan;									
b. Ameren Missouri's 2016 EM&V and associated Stipulation and									
Agreement;									
c. Approved MEEIA Energy Efficiency and Demand Side Management									
Programs Tariff Sheets;									
d. Cadmus invoices;									
e. ADM invoices;									
f. Telecommunication with Tom Thompson; and,									
g. Staff Data Requests: 0001, 0002, 0002.1, 0004, and 0014.									
Staff Expert/Witness: Dana E. Eaves and Catherine F. Lucia (Invoicing)									
See attached Addendums A - E									

## OF THE STATE OF MISSOURI

iency Investm	ient )	File No. EO-2018-0155
AFFIDAVI	r of kory	J. BOUSTEAD
) ) ss.		
	iency Investm orgy Efficienc o Company AFFIDAVI	rudence Review of ) lency Investment ) lency Efficiency ) lency Company )  AFFIDAVIT OF KORY  ) ss. )

COMES NOW KORY J. BOUSTEAD and on her oath declares that she is of sound mind and lawful age; that she contributed to the foregoing FIRST PRUDENCE REVIEW Report; and that the same is true and correct according to her best knowledge and belief.

Further the Affiant sayeth not.

KORY J. BOUSTEAD

**JURAT** 

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this \_\_\_\_\_ day of April 2018.

D. SUZIE MANKIN
Notary Public - Notary Seal
State of Missouri
Commissioned for Cole County
My Commission Expires: December 12, 2020
Commission Number: 12412070

Jorary Public

## OF THE STATE OF MISSOURI

In the Matter of the First Prudence Review of the Missouri Energy Efficiency Investment Act (MEEIA) Cycle 2 Energy Efficiency Programs of Union Electric Company d/b/a Ameren Missouri				File No. EO-2018-0155
	AFFI	DAVIT O	F DAN	A E. EAVES
STATE OF MISSOURI COUNTY OF COLE	)	ss.		

COMES NOW DANA E. EAVES and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing FIRST PRUDENCE REVIEW Report; and that the same is true and correct according to his best knowledge and belief.

Further the Affiant sayeth not.

DANA E. EAVES

## **JURAT**

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this 304 day of April 2018.

D. SUZIE MANKIN
Notary Public - Notary Seal
State of Missouri
Commissioned for Cole County
ty Commission Expires: December 12, 2020
Commission Number: 12412070

Notary Public

## OF THE STATE OF MISSOURI

In the Matter of the First Prudence Review of the Missouri Energy Efficiency Investment Act (MEEIA) Cycle 2 Energy Efficiency Programs of Union Electric Company d/b/a Ameren Missouri	File No. EO-2018-0155 ) ) )
AFFIDAVIT OF	CATHERINE F. LUCIA
STATE OF MISSOURI ) ss.	
COUNTY OF COLE )	
COMES NOW CATHERINE F. LUC	CIA and on her oath declares that she is of sound
mind and lawful age; that she contributed	to the foregoing FIRST PRUDENCE REVIEW
Report; and that the same is true and correct	according to her best knowledge and belief.

Further the Affiant sayeth not.

CATHERINE F. LUCIA

# **JURAT**

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this \_\_\_\_\_\_\_ day of April 2018.

D. SUZIE MANKIN
Notary Public - Notary Seal
State of Missouri
Commissioned for Cole County
My Commission Expires: December 12, 2020
Commission Number: 12412070

Notery Public

## OF THE STATE OF MISSOURI

In the Matter of the First F the Missouri Energy Effic Act (MEEIA) Cycle 2 Ene Programs of Union Electri d/b/a Ameren Missouri	iency Inv ergy Effic	) ) )	File No. EO-2018-0155		
STATE OF MISSOURI COUNTY OF COLE	AFFID ) ) )	SS.	BROO	KE RICHTER	

COMES NOW BROOKE RICHTER and on her oath declares that she is of sound mind and lawful age; that she contributed to the foregoing FIRST PRUDENCE REVIEW Report; and that the same is true and correct according to her best knowledge and belief.

Further the Affiant sayeth not.

BROOKĖ RICHTER

## **JURAT**

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this \_\_\_\_\_\_\_ day of April 2018.

D. SUZIE MANKIN
Notary Public - Notary Seal
State of Missouri
Commissioned for Cole County
My Commission Expires: December 12, 2020
Commission Number: 12412070

Notary Public

MO.P.S.C. SCHEDULE NO.	6		,	1st Revised	SHEET NO.	91
CANCELLING MO.P.S.C. SCHEDULE NO.	6			Original	SHEET NO.	91
APPLYING TO MIS	SOURI	SERVICE	AREA			

# RIDER EEIC ENERGY EFFICIENCY INVESTMENT CHARGE For MEEIA Cycle 2 Plan

#### APPLICABILITY

This Rider EEIC - Energy Efficiency Investment Charge (Rider EEIC ) is applicable to all kilowatt-hours (kWh) of energy supplied to customers served under Company's Service Classification Nos. 1(M), 2(M), 3(M), 4(M), 11(M), and 12(M), excluding kWh of energy supplied to "opt-out" or "low-income" customers.

An Ameren Missouri low-income customer who has received assistance from Missouri Energy Assistance (a.k.a. Low Income Home Energy Assistance Program or LIHEAP), Winter Energy Crisis Intervention Program, or Summer Energy Crisis Intervention Program and (i) whose account has not automatically been exempted from Rider EEIC, or (ii) who has been charged Rider EEIC charges and whose account has not been credited for said charges, may provide the Company, via facsimile to 866.297.8054, via email to <a href="mailto:myhomeamerenmissouri@ameren.com">myhomeamerenmissouri@ameren.com</a>, or via regular mail to <a href="mailto:Ameren">Ameren</a> Missouri, P.O. Box 790352, St. Louis, MO 63179-0352

- a. documentation of the assistance received in the form of:
  - a copy of the Division of Social Services Family Support Division ("DSSFSD") form EA-7 energy assistance payment notice received by the low-income customer, or
  - ii. a copy of the DSSFSD LIHEAP Energy Assistance direct payment check received by the low-income customer, or
  - iii. a copy of the Contract Agency energy crisis intervention program ("ECIP") payment notification letter received by the low-income customer, or
  - iv. a printout of the low-income customer's DSSFSD LIHEAP EA E1RG System Registration screen identifying the supplier, benefit amount and payment processing date.
- b. Upon receipt of the documentation, the Company will credit the low-income customer's account for:
  - i. energy efficiency investment charges, and
  - ii. any municipal charges attributable to said EEIC charges, that were previously charged to the low-income customer within twelve billing months following the documented receipt of energy assistance; provided that the low-income customer shall not be entitled to any credit, nor shall Company credit the low-income customer, for energy efficiency investment charges and associated municipal charges incurred and billed prior to the June 2015 commencement of the low-income exemption.
- c. Upon receipt of the documentation, for the remainder of the twelve months following the documented receipt of energy assistance, the Company will exempt such low-income customer from any Rider EEIC charges thereafter imposed. The exemption will be evidenced on the low-income customer's bill as an EEIC charge, followed by a credit.

Charges passed through this Rider EEIC reflect the charges approved to be billed from the implementation of the Missouri Energy Efficiency Investment Act (MEEIA) 2016-18 Plan and any remaining unrecovered balances from the MEEIA 2013-15 plan. Those charges include:

DATE OF ISSUE _	February 5, 2016	DATE EFFECTIVE	March 6, 2016
ISSUED BY	Michael Moehn	President	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS

	MO.P.S.C. SCHEDULE NO	6			1st Revised	SHEET NO.	91.1
	CANCELLING MO.P.S.C. SCHEDULE NO	6			Original	SHEET NO.	91.1
APPLYING TO	MI	SSOURI	SERVICE	AREA			

## ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.) For MEEIA Cycle 2 Plan

#### APPLICABILITY (Cont'd.)

- Program Costs, Company's Throughput Disincentive ((TD) and Earnings Opportunity (EO) Award (if any) for each Effective Period (EP)
- \* 2) Reconciliations, with interest, to true-up for differences between the revenues billed under this Rider EEIC and total actual monthly amounts for:
  - Program Costs incurred in the MEEIA 2016-18 Plan, including those related to Long-Lead Projects, and/or remaining unrecovered Program balances for MEEIA 2013-15,
  - ii) Company's TD incurred in the MEEIA 2016-18 Plan, including those related to Long-Lead Projects, and/or remaining TD-NSB Share balances for MEEIA 2013-15,
  - iii) Amortization of Earnings Opportunity ordered by the Missouri Public Service Commission (Commission), including those related to Long-Lead Projects, and/or remaining balances for the MEEIA 2013-15 Performance Incentive.
  - 3) Any Ordered Adjustments.

Charges under this Rider EEIC shall continue after the anticipated February 28, 2019 end of MEEIA 2016-18 Plan until such time as the charges described in items 1), 2), and 3) above have been billed.

Charges arising from the MEEIA 2016-18 Plan that are the subject of this Rider EEIC shall be reflected in one "Energy Efficiency Invest Chg" on customers' bills in combination with any charges arising from a rider that is applicable to the MEEIA 2013-15 Plan demand-side management programs.

#### DEFINITIONS

As used in this Rider EEIC, the following definitions shall apply:

"AFUDC" means the Allowance for Funds Used During Construction rate computed in accordance with the formula prescribed in the Code of Federal Regulations Title 18 Part 101.

"Company's Throughput Disincentive" (TD) means to represent the utility's lost margins associated with the successful implementation of MEEIA programs. The detailed method for calculating the TD is described in Tariff Sheets 91.6 - 91.8.

"Earnings Opportunity" (EO) means the amount ordered by the Commission based on actual performance verified through Evaluation Measurement & Verification (EM&V) against planned targets. The details of determining EO are described herein.

"Effective Period" (EP) means the twelve (12) billing months beginning with the February billing month and ending with the January billing month. Where an additional Rider EEIC filing is made to change the EEIR components during a calendar year, the EP for such a filing shall begin with the June or October billing month and end with the subsequent January billing month.

\* "End Use Category" means the unique summary category of end-use load shapes. The list of End Use Categories is included in Appendix E to the Stipulation.

\*Indicates Change.

DATE OF ISSUE	June 29, 2017	DATE EFFECTIVE	July 29, 2017
ISSUED BY	Michael Moehn	President TITLE	St. Louis, Missouri

APPLYING TO	MIS	SOURI	SERVICE	AREA				
	CANCELLING MO.P.S.C. SCHEDULE NO.	6			1st	Revised	SHEET NO.	91.2
	MO.P.S.C. SCHEDULE NO.	6			2nd	Revised	SHEET NO.	91.2

# RIDER EEIC ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.) For MEEIA Cycle 2 Plan

#### DEFINITIONS (Cont'd.)

- \* "Evaluation Measurement & Verification" (EM&V) means the performance of studies and activities intended to evaluate the process of the Company's program delivery and oversight and to estimate and/or verify the estimated actual energy and demand savings, cost effectiveness, and other effects from demand-side programs.
  - "Impact Measurement & Verification" (IM&V) means the determination of ex-post net energy and demand savings for Long-Lead Projects through application of a net-to-gross ratio, but does not include a cost-effectiveness analysis.
  - "Incentive" means any consideration provided by the Company, including, but not limited to, buy downs, markdowns, rebates, bill credits, payments to third parties, direct installation, giveaways, and education, which encourages the adoption of program measures.
- \*\* "Long-Lead Program Costs" means incentive payments made to customers, contract payments made to program administrators, and costs for IM&V. There will be no portfolio-level costs allocated to long-lead projects.
- \*\* "Long-Lead Project" means a project committed by a Customer, accepted by the Company, and submitted a signed commitment offer to the program administrator by January 31, 2019, according to the terms and implementation of the MEEIA 2016-2018 Energy Efficiency Plan that will require until a date after February 28, 2019, but no later than January 31, 2021, to certify completion.
  - "Low-Income" customers means those Service Classification 1(M)-Residential customers eligible for the low income exemption provisions contained in Section 393.1075.6, RSMo. As approved in File No. ER-2014-0258, customers eligible under this definition will be exempt from Rider EEIC charges for 12 billing months following assistance received from either Missouri Energy Assistance (a.k.a. Low Income Home Energy Assistance Program or LIHEAP), Winter Energy Crisis Intervention Program, Summer Energy Crisis Intervention Program, the Company's Keeping Current Low Income Pilot Program, and/or the Company's Keeping Cool Low Income Pilot Program.
  - "Measure" means energy efficiency measures described for each program attached as Appendix B to the Stipulation.
  - "MEEIA 2013-15 Plan" means Company's "2013-15 Energy Efficiency Plan" submitted in File No. EO-2012-0142 and its corresponding tariff sheets.
  - "MEEIA 2016-18 Plan" means Company's "2016-18 Energy Efficiency Plan" submitted in File No. EO-2015-0055 and modified by the Stipulation.
  - "Programs" means MEEIA 2016-18 programs listed in tariff sheet no. 174.
  - "Program Costs" means any prudently incurred program expenditures, including such items as program planning, program design, administration, delivery, end-use measures and incentive payments, advertising expense, evaluation, measurement and verification, market potential studies and work on a utility and/or statewide Technical Resource Manual (TRM).
  - "TRM" means the Company's Technical Resource Manual (attached as Appendix F to the Stipulation) and updated based on EM&V ex-post gross adjustments determined for Year 1 no later than twenty-four (24) months after commencement of MEEIA 2016-18.
  - "Stipulation" means the Stipulation and Agreement approved by the Commission in File No. EO-2015-0055, as it may be amended further by subsequent Commission orders.

\*Indicates Reissue. \*\*Indicates Addition.

DATE OF ISSUE _	June 29, 2017	DATE EFFECTIVE	July 29, 2017
ISSUED BY	Michael Moehn	President	St. Louis, Missouri
-	NAME OF OFFICER	TITLE	ADDRESS

N	MO.P.S.C. SCHEDULE NO6			Original	SHEET NO.	91.3
CANCELLING N	MO.P.S.C. SCHEDULE NO				SHEET NO.	
APPLYING TO	MISSOURI	SERVICE	AREA			

# RIDER EEIC ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.) For MEEIA Cycle 2 Plan

#### ENERGY EFFICIENCY INVESTMENT RATE (EEIR) DETERMINATION

The EEIR during each applicable EP is a dollar per kWh rate for each applicable Service Classification calculated as follows:

EEIR = [NPC + NTD + NEO + NOA]/PE

Where:

NPC = Net Program Costs for the applicable EP as defined below,

NPC = PPC + PCR

- PPC = Projected Program Costs is an amount equal to Program Costs projected by the Company to be incurred during the applicable EP.
- PCR = Program Costs Reconciliation is equal to the cumulative difference, if any, between the PPC revenues billed resulting from the application of the NPC component of the EEIR and the actual Program Costs incurred through the end of the previous EP (which will reflect projections through the end of the previous EP due to timing of adjustments). Such amounts shall include monthly interest charged at the Company's monthly short-term borrowing rate. Any remaining PCR balance from MEEIA Cycle 1 shall be rolled into the PCR calculation starting February 2017.
- NTD = Net Throughput Disincentive for the applicable EP as defined below,

NTD = PTD + TDR

- PTD = Projected Throughput Disincentive is the Company's TD projected by the Company to be incurred during the applicable EP. For the detailed method for calculating the TD, see Sheet 91.6.
- TDR = Throughput Disincentive Reconciliation is equal to the cumulative difference, if any, between the PTD revenues billed during the previous EP resulting from the application of the NTD component of the EEIR and the Company's TD through the end of the previous EP (which will reflect projections through the end of the previous EP due to timing of adjustments). Such amounts shall include monthly interest charged at the Company's monthly short-term borrowing rate. Any remaining TDR balance from MEEIA Cycle 1 shall be rolled into the TDR calculation starting February 2017.
- NEO = Net Earnings Opportunity for the applicable EP as defined below,

NEO = EO + EOR

EO = Earnings Opportunity is equal to the Earnings Opportunity Award monthly amortization multiplied by the number of billing months in the applicable EP.

DATE OF ISSUE	February 5, 2016	DATE EFFECTIVE	March 6, 2016
ISSUED BY	Michael Moehn	President	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS

#### **ELECTRIC SERVICE**

MO.P.	S.C. SCHEDULE NO6			Original	SHEET NO.	91.4
CANCELLING MO.P.	S.C. SCHEDULE NO				SHEET NO.	
APPLYING TO	MISSOURI	SERVICE	AREA			

## RIDER EEIC ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.) For MEEIA Cycle 2 Plan

#### EEIR DETERMINATION (Cont'd.)

The monthly amortization shall be determined by dividing the Earnings Opportunity Award by the number of available billing months between the first billing month of the first EEIR filing after the determination of the Earnings Opportunity Award and 24 calendar months following the end of the annual period in which the Earnings Opportunity Award is determined.

The number of applicable billing months in the EP shall be the number of applicable billing months less the number of months including Earnings Opportunity Award amortization from previous EPs.

- EOR = Earnings Opportunity Reconciliation is equal to the cumulative difference, if any, between the EO revenues billed resulting from the application of the NEO+NPI component of the EEIR and the monthly amortization of the Performance Incentive Award through the end of the previous EP (which will reflect projections through the end of the previous EP due to timing of adjustments). Such amounts shall include monthly interest charged at the Company's monthly short-term borrowing rate. Any remaining PIR balance from MEEIA Cycle 1 shall be rolled into the EOR calculation starting February 2019.
- NOA = Net Ordered Adjustment for the applicable EP as defined below,

NOA = OA + OAR

- OA = Ordered Adjustment is the amount of any adjustment to the Rider EEIC ordered by the Commission as a result of prudence reviews and/or corrections under this Rider EEIC. Such amounts shall include monthly interest at the Company's monthly short-term borrowing rate.
- OAR = Ordered Adjustment Reconciliation is equal to the cumulative difference, if any, between the OA revenues billed resulting from the application of the EEIR and the actual OA ordered by the Commission through the end of the previous EP (which will reflect projections through the end of the previous EP due to timing of adjustments). Such amounts shall include monthly interest charged at the Company's monthly short-term borrowing rate.
- PE = Projected Energy, in kWh, forecasted to be delivered to the customers to which the Rider EEIC applies during the applicable EP.

DATE OF ISSUE _	February 5, 2016	DATE EFFECTIVE	March 6, 2016
ISSUED BY Michael Moehn		President	St. Louis, Missouri
1	NAME OF OFFICER	TITLE	ADDRESS

#### **ELECTRIC SERVICE**

MO.P.S.	C. SCHEDULE NO6			Original	SHEET NO.	91.5
CANCELLING MO.P.S.	C. SCHEDULE NO				SHEET NO.	
APPLYING TO	MISSOURI	SERVICE	AREA			

# ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.) For MEEIA Cycle 2 Plan

#### EEIR DETERMINATION (Cont'd.)

The EEIR components and Total EEIR applicable to the individual Service Classifications shall be rounded to the nearest \$0.000001.

Allocations of charges for each applicable Service Classification for the MEEIA 2016-18 Plan will be made in accordance with the Stipulation and Agreement in File No. EO-2015-0055, Company's MEEIA 2016-18 Plan.

This Rider EEIC shall not be applicable to customers that have satisfied the opt-out provisions contained in Section 393.1075.7, RSMo or the low-income exemption provisions described herein.

DATE OF ISSUE _	February 5, 2016	DATE EFFECTIVE	March 6, 2016
ISSUED BY	Michael Moehn	President	St. Louis, Missouri
-	NAME OF OFFICER	TITLE	ADDRESS

#### **ELECTRIC SERVICE**

MO.P.S.C	. SCHEDULE NO6		Original	SHEET NO.	91.6
CANCELLING MO.P.S.C	. SCHEDULE NO			SHEET NO.	
APPLYING TO	MISSOURI	SERVICE	AREA		

## ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.) For MEEIA Cycle 2 Plan

#### TD DETERMINATION

Monthly TD is the sum of the TD calculation for all End Use Categories applicable to Service Classifications as set out in the Availability section herein.

The TD for each End Use Category shall be determined by the following formula:

#### TD = MS x NMR x NTGF

#### Where:

- TD = Throughput Disincentive, in dollars, to be collected for a given month, for a given Service Classification.
- MS = Monthly Savings, is the sum of all programs' monthly savings, in kWh, for a given month, for a given Service Classification. The MS for each End Use Category shall be determined by the following formula:

$$MS = ((MAS_{CM} / 2) + CAS_{PM} - RB) \times LS$$

#### Where:

- ${\rm MAS_{CM}}$  = The sum of (MC x ME) for all measures in a program in the current calendar month.
  - MC = Measure Count. MC for a given month, for a given
    Service Classification, for each measure, is the number
    of each measure installed in the current calendar
    month. For the Home Energy Report program, the number
    of reports mailed during the current calendar month
    shall be used as the Measure Count.
  - ME = Measure Energy. ME will be determined as follows, for each Measure:
    - a. Prior to finalization of EM&V for MEEIA 2016-18 Plan, Year 1 programs, for Measures not listed under those programs listed in (c) below, the ME is the annual total of normalized savings for each measure at customer meter per measure defined in the Company's Technical Resource Manual (TRM).
    - b. After finalization of EM&V for MEEIA 2016-18 Plan, Year 1 programs, for Measures not listed under those programs listed in (c) below, the ME is the annual total of normalized savings for each measure at customer meter per measure defined in the updated TRM (which will be updated based on EM&V ex-post gross adjustments determined for Year 1 no later than 24 months after the commencement of MEEIA 2016-18 Plan).

DATE OF ISSUE _	February 5, 2016	DATE EFFECTIVE	March 6, 2016		
ISSUED BY	Michael Moehn	President	St. Louis, Missouri		
-	NAME OF OFFICER	TITLE	ADDRESS		

#### **ELECTRIC SERVICE**

MO.P.S.C. SCHEDULE N	106		1st Revised	SHEET NO.	91.7
CANCELLING MO.P.S.C. SCHEDULE N	106		Original	SHEET NO.	91.7
APPLYING TO M	ISSOURI	SERVICE	AREA		

# ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.) For MEEIA Cycle 2 Plan

#### TD DETERMINATION (Cont'd.)

- c. For Measures under the -Business Custom Incentive Program, Business New Construction Incentive Program, and Business Retro-Commissioning Program, the ME will be the annual value attributable to the installations reported monthly by the program implementer.
- CM = Current calendar month.
- CAS = Cumulative sum of MAS of all prior calendar months for each End Use Category for the MEEIA 2016-18 Plan.
- PM = Prior calendar month.
- RB = Rebasing Adjustment. The RB shall equal the CAS applicable as of the date used for MEEIA normalization when base rates are adjusted in any general electric rate case or otherwise resulting in new retail electric rates becoming effective during the accrual and collection of TD pursuant to this MEEIA 2016-18 Plan. In the event base rates are adjusted by more than one general electric rate case or otherwise resulting in new rates becoming effective during the accrual and collection of TD pursuant to this MEEIA 2016-18 Plan occurs, the RB adjustment shall include each and every prior RB adjustment calculation.
- LS = Load Shape. The LS is the monthly load shape percent
   (%) for each End-Use Category (attached as Appendix E
   to the Stipulation).

\*NMR = Net Margin Revenue. NMR values for each applicable Service Classification are as follows:

		Servi	ce Classific	ations	
Month	1 (M) Res \$/kWh	2 (M) SGS \$/kWh	3 (M) LGS \$/kWh	4 (M) SPS \$/kWh	11 (M) LPS \$/kWh
January	0.047640	0.051510	0.039208	0.039679	0.032205
February	0.048358	0.051361	0.040171	0.040327	0.034811
March	0.050250	0.053864	0.041181	0.040935	0.033627
April	0.052130	0.056283	0.041883	0.040619	0.033490
Мау	0.054358	0.058034	0.042811	0.042414	0.034512
June	0.109291	0.095491	0.082589	0.082629	0.059935
July	0.109291	0.095491	0.081263	0.081994	0.062387
August	0.109291	0.095491	0.081614	0.082803	0.061130
September	0.109291	0.095491	0.081939	0.082068	0.061869
October	0.051354	0.056247	0.041868	0.041285	0.035011
November	0.054399	0.057698	0.042226	0.041439	0.034514
December	0.050066	0.054705	0.040610	0.040618	0.033040

FILED Missouri Public Service Commission ER-2016-0179; YE-2017-0173

\* Indicates Change.

Issued pursuant	to the Orde	of the Mo.P.S.C.	in Case No. ER-2016-0179			April 1, 2017
DATE OF ISSUE	March 8,	2017	DATE EFFECTIVE	April 7	, 2017	April 1, 2017

ISSUED BY Michael Moehn

NAME OF OFFICER

President

St. Louis, Missouri

#### **ELECTRIC SERVICE**

MO.P.S.C. SCHEDULE NO.	6			1st Revised	SHEET NO.	91.8
CANCELLING MO.P.S.C. SCHEDULE NO.	6			Original	SHEET NO.	91.8
APPLYING TO MIS	SOURI	SERVICE	AREA			

## RIDER EEIC ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.) For MEEIA Cycle 2 Plan

#### TD DETERMINATION (Cont'd.)

The Company shall file an update to NMR rates by month by Service Classification contemporaneous with filing any compliance tariff sheets in any general electric rate case reflecting the rates set in that case, and the billing determinants used in setting rates in such case. Updates to the NMR values shall be calculated following the same process described on pages 32-35 of the Company's filed December 22, 2014 2016-18 Energy Efficiency Plan.

NTGF = Net To Gross Factor. The initial NTGF is 0.85. Upon completion of the three year cycle, the final portfolio Net To Gross factor applied for the Earnings Opportunity shall be used as the NTGF prospectively starting with the month in which the Earnings Opportunity is determined.

Annual kWh savings per measure will be updated prospectively in the Company's TRM no later than twenty-four (24) months after the commencement of the plan based on EM&V ex-post gross adjustments determined for Year 1.

- \* The Company shall file a general electric rate case at some point before February 28, 2021 to make a Rebasing Adjustment to rebase the TD arising from the MEEIA 2016-18 plan in its entirety, except as described below concerning Long-Lead Projects, and if Company fails to do so, the accrual and collection of the TD terminates beginning March 1, 2021. The filing of a general electric rate case utilizing an update or true-up period that ends between thirty (30) months and sixty (60) months after the effective date of the electric tariff sheets implementing MEEIA 2016-18 satisfies this requirement. For the rate case used to rebase the TD arising from the MEEIA 2016-18 plan in its entirety, the MEEIA normalization shall reach forward as far as the effective date of new rates in that rate case.
- \*\* Projects designated as Long-Lead Projects shall continue to incur TD until a rate case rebases all such projects or until February 28, 2023, whichever occurs first.

\*Indicates Change. \*\*Indicates Addition.

DATE OF ISSUE _	June 29, 2017	DATE EFFECTIVE	July 29, 2017
ISSUED BY	Michael Moehn	President	St. Louis, Missouri
-	NAME OF OFFICER	TITLE	ADDRESS

#### **ELECTRIC SERVICE**

MO.P.S.C. SCHEDULE NO.	6		1st Revised	SHEET NO.	91.9
CANCELLING MO.P.S.C. SCHEDULE NO.	6		Original	SHEET NO.	91.9
APPLYING TO MIS	SOURI	SERVICE	AREA		

# ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.) For MEEIA Cycle 2 Plan

#### \*EO DETERMINATION

EO shall be calculated using the matrix below. EO will not go below zero dollars (\$0). The EO at 100% is \$27,801,935. Before adjustments reflecting TD EM&V including NTG, the EO cannot go above \$39,212,516. The EO including adjustments reflecting TD EM&V including NTG cannot go above \$54,212,516. The cap is based on current program levels. If Commission approved new programs are added in years 2017 and 2018, the Company may seek Commission approval to have the targets and the cap of the EO matrix scale adjusted. EO shall be adjusted for the difference, with carrying cost at the Company's monthly Allowance for Funds Used During Construction (AFUDC) rate compounded semi-annually, between TD billed and what TD billed would have been if:

- (1) The ME used in the calculation were the normalized savings for each measure at customer meter per measure determined through EM&V ex-post gross analysis for each program year, and
- (2) The NTGF used in the calculation was the net-to-gross values determined through EM&V, except that if the NTGF value determined through EM&V is less than 0.80, the recalculation shall use 0.80 and if the NTG value determined through EM&V is greater than 1.0, the recalculation shall use 1.0.

#### \*EARNINGS OPPORTUNITY MATRIX

	BUTT	10 24	1	1	Ameren Miss	ouri	330370	4	THE PARTY NAMED IN
Performance Metric	Payout Rate	Payout Unit	% of Target EO		100% payout	Target @ 100%	Cap/100% Multiplier		Сар
Home Energy Report criteria will be effective, prudent spend of budget	n/a		7.19%	\$	2,000,000			\$	2,000,000
EE MWh (Excl. Home Energy Report, TStat & LIMF): criteria will be the cumulative of the 1st yr incremental MWh during the 3 year plan	\$ 7.50	S/MWh	15.11%	ş	4,201,935	560,258	130%	\$	5,462,516
EE Coincident MW (Excl. Home Energy Report, TStat & LIMF): criteria will be cumulative of the 2023 MW reduction, coincident with system peak	\$ 141,428.57	s/MW	71.22%	\$	19,800,000	140	150%	s	29,700,000
Number of Learning Thermostats Installed	\$ 30.62	\$/Unit	1.80%	\$	500,000	16,331	150%	5	750,000
Low Income Multi-Family (LIMF) and Low Income Assistance Program: criteria will be effective, prudent spend of budget	n/a		4.68%	s	1,300,000			\$	1,300,000
				\$	27,801,935			\$	39,212,516
Total Cap Including TD Adjustments								5	54,212,516

\*Indicates Change

DATE OF ISSUE _	April 18, 2017	DATE EFFECTIVE	May 18, 2017
ISSUED BY	Michael Moehn	President	St. Louis, Missouri
-	NAME OF OFFICER	TITLE	ADDRESS

#### **ELECTRIC SERVICE**

MO.P.S.	C. SCHEDULE NO6	_	Original	SHEET NO.	91.10
CANCELLING MO.P.S.	C. SCHEDULE NO	_		SHEET NO.	
APPLYING TO	MISSOURI	SERVICE	AREA		

# ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.) For MEEIA Cycle 2 Plan

#### FILING

The Company shall make a Rider EEIC filing each calendar year to be effective for the subsequent calendar year's February billing month. The Company is allowed or may be ordered by the Commission to make one other Rider EEIC filing in each calendar year with such subsequent filing to be effective beginning with either the June or October billing month. Rider EEIC filings shall be made at least sixty (60) days prior to their effective dates.

#### PRUDENCE REVIEWS

A prudence review shall be conducted no less frequently than at twenty-four (24) month intervals in accordance with 4 CSR 240-20.093(10). Any costs which are determined by the Commission to have been imprudently incurred or incurred in violation of the terms of this Rider EEIC shall be addressed through an adjustment in the next EEIR determination and reflected in factor OA herein.

DATE OF ISSUE _	February 5, 2016	DATE EFFECTIVE	March 6, 2016
ISSUED BY Michael Moehn		President	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS

#### ELECTRIC SERVICE

APPLYING TO	omis	SOURI	SERVICE	AREA			
	CANCELLING MO.P.S.C. SCHEDULE NO.	6	_	2nd	Revised	SHEET NO.	91.11
	MO.P.S.C. SCHEDULE NO.	6	_	3rd	Revised	SHEET NO.	91.11

### RIDER EEIC

### ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.) (Applicable To Determination of EEIR Beginning February, 2018 through the

Billing Month of January 2019)

MEEIA 2013-15 EEIR Components (Applicable to MEEIA Cycle 1 Plan)

Service Class	NPC/PE (\$/kWh)	NTD/PE (\$/kWh)	NPI/PE (\$/kWh)	NOA/PE (\$/kWh)
1(M)-Residential Service	\$0.000000	\$0.000000	\$0.000666	\$0.000000
2(M)-Small General Service	\$0.000000	\$0.000000	\$0.000253	\$0.000000
3(M)-Large General Service	\$0.000000	\$0.000000	\$0.000455	\$0.000000
4(M)-Small Primary Service	\$0.000000	\$0.000000	\$0.000453	\$0.000000
11(M)-Large Primary Service	\$0.000000	\$0.000000	\$0.000644	\$0.000000
12 (M) -Large Transmission Service	\$0.000000	\$0.000000	\$0.000000	\$0.000000

MEEIA 2016-18 EEIR Components (Applicable to MEEIA Cycle 2 Plan)

Service Class	NPC/PE (\$/kWh)	NTD/PE (\$/kWh)	NEO/PE (\$/kWh)	NOA/PE (\$/kWh)
1(M)-Residential Service	\$0.002029	\$0.001064	\$0.000000	(\$0.000074)
2(M)-Small General Service	\$0.003122	\$0.001126	\$0.000000	(\$0.000002)
3(M)-Large General Service	\$0.003136	\$0.000897	\$0.000000	(\$0.000002)
4(M)-Small Primary Service	\$0.003166	\$0.001127	\$0.000000	(\$0.000002)
11(M)-Large Primary Service	\$0.003136	\$0.000140	\$0.000000	(\$0.000002)
12(M)-Large Transmission Service	\$0.000000	\$0.000000	\$0.000000	\$0.000000

Summary EEIR Components and Total EEIR

Service Class	NPC (\$/kWh)	NTD (\$/kWh)	(NEO+NPI) (\$/kWh)	NOA (\$/kWh)	Total EEIR (\$/kWh)
1(M)-Residential Service	\$0.002029	\$0.001064	\$0.000666	(\$0.000074)	\$0.003685
2(M)-Small General Service	\$0.003122	\$0.001126	\$0.000253	(\$0.000002)	\$0.004499
3(M)-Large General Service	\$0.003136	\$0.000897	\$0.000455	(\$0.000002)	\$0.004486
4(M)-Small Primary Service	\$0.003166	\$0.001127	\$0.000453	(\$0.000002)	\$0.004744
11(M)-Large Primary Service	\$0.003136	\$0.000140	\$0.000644	(\$0.000002)	\$0.003918
12(M)-Large Transmission Service	\$0.000000	\$0.000000	\$0.000000	\$0.000000	\$0.00000

DATE OF ISSUE	November 21,	2017	DATE EFFECTIVE	January	25,	FILED 2018 Missouri Public	
ISSUED BY	Michael Moehn	Pre		St. Louis,		Service Commission ER-2018-0144, YE-2018-006 Missouri	
	NAME OF OFFICER		TITLE	ADDRESS			

### **ADDENDUM B**

### HAS BEEN DEEMED

**CONFIDENTIAL** 

IN ITS ENTIRETY

Union Electric Company, d/b/a Ameren Missouri File No. EO-2018-0155

Addendum C

### **Description of General Ledger and Subsidiary Ledger**

**General Ledger** is the source of the accounting information of an organization in which the summaries of all financial transactions (collected from subsidiary ledgers) during an accounting period are recorded. Also referenced to as the book of final entry, it provides the data from individual accounts needed for preparing financial statements for the organization.

**Subsidiary Ledger** is used because the general ledger holds all the historical journal entries, some key general ledger accounts become so complex that a separate ledger is needed to keep track of its transactions. For example, a company's general ledger might include only one accounts receivable account yet the company may have thousands of customers. Therefore, it is necessary to create a subsidiary ledger to hold each customer account and include the grand total of that ledger in the general ledger.

### FERC Account 908 - Customer Assistance Expenses

Include the cost of labor, materials used and expenses incurred in providing instructions or assistance to customers, the object of which is to encorage safe, efficient and economical use of the utility's service.

	Minor	Business Division		FMC S	FMC Segment Hierarchy		Activity	Resource Type (RT)		
01M	MEEIA Program Costs - Residential	21	MO Or Corp Distribution Or St Louis	020	Missouri Energy Services	МЕРС	MO Energy Eff Inv Act - Pgrm Costs	82	Non-Taxable Meals	
01M	MEEIA Program Costs - Residential	21	MO Or Corp Distribution Or St Louis	020	Missouri Energy Services	МЕРС	MO Energy Eff Inv Act - Pgrm Costs	CI	Customer Incentives and Rebates	
01M	MEEIA Program Costs - Residential	21	MO Or Corp Distribution Or St Louis	020	Missouri Energy Services	MEPC	MO Energy Eff Inv Act - Pgrm Costs	EX	Professional Services Other	
EED	Electric Energy Efficiency and Demand	20	Corporate - Missouri	020	Missouri Energy Services	EECY	Electric Energy Efficiency and Demand	3L	AMS Pen, Ben, OPEB, Inj and Dmgs, SS Ldg- Non Cap	
EED	Electric Energy Efficiency and Demand	20	Corporate - Missouri	020	Missouri Energy Services	МЕРС	MO Energy Eff Inv Act - Pgrm Costs	80	Individual Expenses	
EED	Electric Energy Efficiency and Demand	20	Corporate - Missouri	020	Missouri Energy Services	МЕРС	MO Energy Eff Inv Act - Pgrm Costs	82	Non-Taxable Meals	
EED	Electric Energy Efficiency and Demand	20	Corporate - Missouri	020	Missouri Energy Services	МЕРС	MO Energy Eff Inv Act - Pgrm Costs	BQ	Purchases Software	
EED	Electric Energy Efficiency and Demand	20	Corporate - Missouri	020	Missouri Energy Services	МЕРС	MO Energy Eff Inv Act - Pgrm Costs	BX	Purchases Other	
EED	Electric Energy Efficiency and Demand	20	Corporate - Missouri	020	Missouri Energy Services	MEPC	MO Energy Eff Inv Act - Pgrm Costs	LE	Incentive Comp Management	
EED	Electric Energy Efficiency and Demand	20	Corporate - Missouri	020	Missouri Energy Services	MEPC	MO Energy Eff Inv Act - Pgrm Costs	LM	Labor Management	
MPC	Electric Energy Efficiency and Demand	21	MO Or Corp Distribution Or St Louis	020	Missouri Energy Services	MEPC	MO Energy Eff Inv Act - Pgrm Costs	EI	Accounting Entries Other	
EED	Electric Energy Efficiency and Demand	21	MO Or Corp Distribution Or St Louis	020	Missouri Energy Services	M2PC	MEEIA 2 - Program Costs	EC	Control Services	
EED	Electric Energy Efficiency and Demand	21	MO Or Corp Distribution Or St Louis	020	Missouri Energy Services	M2PC	MEEIA 2 - Program Costs	ES	Software License Agreements	
EED	Electric Energy Efficiency and Demand	20	Corporate - Missouri	020	Missouri Energy Services	M2PC	MEEIA 2 - Program Costs	34	Purchasing Rate AP Loading	
EED	Electric Energy Efficiency and Demand	20	Corporate - Missouri	020	Missouri Energy Services	M2PC	MEEIA 2 - Program Costs	40	Materials Stock	
EED	Electric Energy Efficiency and Demand	20	Corporate - Missouri	020	Missouri Energy Services	M2PC	MEEIA 2 - Program Costs	80	Individual Expenses	

### Addendum D

### FERC Account 908 - Customer Assistance Expenses

Include the cost of labor, materials used and expenses incurred in providing instructions or assistance to customers, the object of which is to encorage safe, efficient and economical use of the utility's service.

	Minor Business Division		ısiness Division	FMC Segment Hierarchy		Activity		Resource Type (RT)	
EED	Electric Energy Efficiency and Demand	20	Corporate - Missouri	020	Missouri Energy Services	M2PC	MEEIA 2 - Program Costs	82	Non-Taxable Meals
EED	Electric Energy Efficiency and Demand	20	Corporate - Missouri	020	Missouri Energy Services	M2PC	MEEIA 2 - Program Costs	BQ	Purchases Software
EED	Electric Energy Efficiency and Demand	20	Corporate - Missouri	020	Missouri Energy Services	M2PC	MEEIA 2 - Program Costs	BX	Purchases Other
EED	Electric Energy Efficiency and Demand	20	Corporate - Missouri	020	Missouri Energy Services	M2PC	MEEIA 2 - Program Costs	CI	Customer Incentives and Rebates
EED	Electric Energy Efficiency and Demand	21	Corporate - Missouri	020	Missouri Energy Services	M2PC	MEEIA 2 - Program Costs	EC	Control Services
EED	Electric Energy Efficiency and Demand	21	Corporate - Missouri	020	Missouri Energy Services	M2PC	MEEIA 2 - Program Costs	ES	Software License Agreements
EED	Electric Energy Efficiency and Demand	21	MO Or Corp Distribution Or St Louis	020	Missouri Energy Services	M2PC	MEEIA 2 - Program Costs	EX	Professional Services Other
EED	Electric Energy Efficiency and Demand	21	MO Or Corp Distribution Or St Louis	020	Missouri Energy Services	M2PC	MEEIA 2 - Program Costs	C1	Contributions Charitiable Trusts
EED	Electric Energy Efficiency and Demand	21	MO Or Corp Distribution Or St Louis	020	Missouri Energy Services	M2PC	MEEIA 2 - Program Costs	VF	Vehicles Fuel
EED	Electric Energy Efficiency and Demand	21	MO Or Corp Distribution Or St Louis	020	Missouri Energy Services	M2PC	MEEIA 2 - Program Costs	VX	Vehicles Other
EED	Electric Energy Efficiency and Demand	21	MO Or Corp Distribution Or St Louis	020	Missouri Energy Services	M2PC	MEEIA 2 - Program Costs	MD	Dues and Membership Other
EED	Electric Energy Efficiency and Demand	21	MO Or Corp Distribution Or St Louis	020	Missouri Energy Services	M2PC	MEEIA 2 - Program Costs	МТ	Membership Trade
EED	Electric Energy Efficiency and Demand	21	Corporate - Missouri	022	ALT - AMS - BCS	M2PC	MEEIA 2 - Program Costs	CI	Customer Incentives and Rebates
EED	Electric Energy Efficiency and Demand	21	Corporate - Missouri	022	ALT - AMS - BCS	MEPC	MO Energy Eff Inv Act - Pgrm Costs	CI	Customer Incentives and Rebates

This addendum was provided as an example of transactions reviewed by Staff but may not be all inclusive due to the voluminous number of transactions in this account for the review period of March 1, 2016 through October 31, 2017.



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[ Rev. X ]

### MEEIA 2016-18 1st Prudence Review Workshop

Date

January 22, 2018

Time

9:30-4:00

**Team Members** 

Bill Davis, Rich Wright, Tom Thompson, Shelly Hendry, Jeff Friedrich, Kenny Blair, Marco

Tipton, Jeff Berg, Judy Gillis, Raysene Logan, Casie Geuin, Laureen Welikson

Other Attendees

Dana Eaves, Ron Irving, Brooke Richter, Cathy Lucia, John Rogers

Location

W302

Dial-in No.

TIME	AGENDA TOPIC	PRESENTER
9:30 – 9:45	Welcome, Introductions, and Review of Rule	Tom Thompson
9:45 – 11:15	Implementer to Ameren: Measure, Savings, and Cost Process and SOX audit and Accruals	Jeff Berg/ Marco Tipton/Tom Thompson
11:15 – 12:00	3. Ameren TD calculation and review and Day 5 meeting	Jeff Friedrich
12:00 – 1:00	4. Lunch	
1:00 – 1:30	5. EEIC Rider	Raysene Logan/Tom Thompson
1:30 – 2:30	6. EM&V and TRM tracking	Laureen Welikson/Jeff Berg
2:30-3:00	7. Vision Software	Tom Thompson
3:00-3:30	8. 11 step process	Kenny Blair
3:30 – 4:00	9. Wrap up and next steps	Tom Thompson