MISSOURI PUBLIC SERVICE COMMISSION

STAFF REPORT

SECOND PRUDENCE REVIEW FOR CYCLE 3 OF COSTS RELATED TO THE DEMAND-SIDE PROGRAMS INVESTMENT MECHANISM AND CYCLE 2 LONG-LEAD PROJECTS

FOR THE ELECTRIC OPERATIONS

OF

UNION ELECTRIC COMPANY,

d/b/a Ameren Missouri

FILE NO. EO-2023-0180

October 1, 2020 through September 30, 2022

Jefferson City, Missouri April 28, 2023

** Denotes Confidential Information ** Appendix A

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I.

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EXECUTIVE SUMMARY

10 On June 4, 2018, Union Electric Company, d/b/a Ameren Missouri ("Ameren Missouri" 11 or "Company") filed, in Case No. EO-2018-0211, its application under the Missouri Energy Efficiency Investment Act¹ ("MEEIA") and the Missouri Public Service Commission's 12 ("Commission") MEEIA rules² for approval of its 2019 - 2024 Energy Efficiency Plan. On 13 14 October 25, 2018, Ameren Missouri filed a Revised MEEIA 2019-2021 Energy Efficiency Plan 15 ("MEEIA 2019-2021 Plan") or ("Cycle 3"). Concurrently, on October 25, 2018, Ameren 16 Missouri, Staff of the Missouri Public Service Commission ("Staff"), the Office of the 17 Public Counsel ("OPC"), Missouri Division of Energy ("DE"), Consumers Council of 18 Missouri, Renew Missouri Advocates d/b/a Renew Missouri, National Housing Trust ("NHT"), 19 and Tower Grove Neighborhood Community Development Corporation ("Tower Grove"), 20 (collectively referred to as "Signatories"), submitted a Stipulation and Agreement 21 ("2019 Stipulation") for Commission approval of Ameren Missouri's MEEIA 2019-2021 22 Plan.³

Through its December 5, 2018 Order Approving Stipulation and Agreement and Granting Waivers in Case No. EO-2018-0211, the Commission authorized Ameren Missouri to implement, beginning March 1, 2019, the 2019 – 2021 Energy Efficiency Plan including: 1) nineteen (19) energy efficiency programs ("MEEIA programs"),⁴ and 2) a demand-side

¹ Section 393.1075, RSMo, Supp. 2017.

² 20 CSR 4240-20.093 and 20 CSR 4240-20.094.

 $^{^3}$ As part of the 2019 Stipulation, the Signatories agreed that Ameren Missouri's MEEIA low-income programs would be in effect from 2019 – 2024.

⁴ This includes a residential demand response program and a business demand response program.

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programs investment mechanism ("DSIM"). The MEEIA 2019-2021 Plan⁵, which was
approved on December 5, 2018, included a total program cost budget of \$227,310,000⁶ for all
19 MEEIA programs, a throughput disincentive ("TD"), an Earnings Opportunity ("EO")⁷ of
\$30 million at 100% performance, a technical reference manual ("TRM") and a plan to perform
evaluation measurement and verification ("EM&V") of program cost effectiveness.

Through its August 5, 2020 Order Approving Stipulation and Agreements in Case No. EO-2018-0211, the Commission authorized Ameren Missouri to extend the existing MEEIA 2019-2021 Plan through Plan Year 2022 ("PY22") with certain program modifications in PY22 and the addition of a new Pay As You Save® ("PAYS®") program beginning in PY21 to be in effect through PY22. The Signatories also agreed on the total budget cap for PY22 to be \$70 million.

Through its October 27, 2021 Order Approving Stipulation and Agreement Regarding *MEEIA Plan Year 2023, Approving Tariff Sheet, and Granting Variances* in Case No. EO-2018-0211, the Commission authorized Ameren Missouri to extend the existing MEEIA 2019-2021 Plan through Plan Year 2023 ("PY23") with certain modifications to certain programs to be in effect through PY23. The Signatories also agreed on the total budget cap for PY23 to be \$74.65 million.

On May 25, 2022, the Commission authorized through its Order Approving Stipulation
 and Agreement Regarding Standard and Custom Incentive Programs, an additional
 \$6.7 million budget for Standard and Custom incentive programs. On July 27, 2022, the
 Commission authorized through its Order Approving Stipulation and Agreement Regarding
 Funding for Residential Heating and Cooling Program, an additional \$2.5 million budget for
 the residential HVAC program.

Prior to the MEEIA 2019-2021 Plan, on July 20, 2017 in Case No. EO-2015-0055, the
Commission issued an *Order Approving Stipulation and Agreement*. This order approved an
agreement among the signatories for a transition plan, which allowed Ameren Missouri to

⁵ Subsequent to December 5, 2018, the Plan was modified by Commission orders in Case No. EO-2018-0211 on the following effective dates: January 8, 2019; February 27, 2019; December 11, 2019; June 24, 2020; July 8, 2020; August 5, 2020; November 12, 2020; December 1, 2020, June 16, 2021, September 23, 2021, September 29, 2021, October 27, 2021, December 6, 2021, March 30, 2022, May 25, 2022, July 27, 2022, August 3, 2022, and October 12, 2022.

⁶ This total program cost budget of \$227,310,000 does not include the increased budget of \$70 million and \$74.65 million that were approved to be revised as explained further in lines 5 through 22.

⁷ Appendix N from the *Stipulation and Agreement* filed on October 25, 2018.

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accommodate the needs of customers who may have long-lead projects requiring up to two years beyond the end of MEEIA Cycle 2 for the issuance of a final rebate check as a result of completed long-lead projects. The total amount of all program costs for all long-lead projects was capped at \$4 million. The transition plan also provided additional time beyond the two-year extension to complete impact measurement and verification and DSIM treatment for the long-lead projects.

The program costs and TD, including interest associated with both, along with the EO, are the costs subject to this prudence review, which is Staff's sixth prudence review⁸ of Ameren Missouri's Rider Energy Efficiency Investment Charge ("EEIC") costs.⁹ Ameren Missouri's MEEIA Cycle 2 Rider EEIC is included as Attachment A and Cycle 3 Rider EEIC is included as Attachment B to this Staff prudence review report ("Report"). The most recent periodic rate adjustment for the Cycle 3 Rider EEIC during this Review Period is in File No. ER-2022-0146.

13 Commission Rule 20 CSR 4240-20.093(10) requires that Ameren Missouri file 14 quarterly, a Surveillance Monitoring Report ("SMR"). Confidential Attachment C to this 15 Report is Page 6a (Cycle 2) of Ameren Missouri's confidential SMR including status of the 16 MEEIA programs and EEIC costs for the quarter ended, and cumulative total ended 17 September 30, 2022. Confidential Attachment D to this Report is Page 6b (Cycle 3) of Ameren 18 Missouri's confidential SMR including status of the MEEIA programs and EEIC costs for the 19 quarter ended, and cumulative total ended September 30, 2022. Table 1A and 1B¹⁰ below 20 identify the line items and Review Period amounts from Attachment C and Attachment D, which are the subject of Staff's prudence review.¹¹ 21

⁸ Prior Staff prudence reviews of Ameren Missouri's Rider EEIC costs are in File Nos. EO-2015-0029, EO-2017-0023, EO-2018-0155, EO-2019-0376, and EO-2021-0157. This report, EO-2023-0180, is the Second Prudence Review of Cycle 3 of Costs Related to the Demand-Side Programs Investment Mechanism, in addition to reviewing the Cycle 2 Long-Lead Projects.

⁹ 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. (20 CSR 4240-20.093(2)(A)9.)

¹⁰ The Company explained that the quarterly SMRs are based on a snapshot in time when the reports were created and are fluid documents due to savings and program costs adjustments that can be made to previous months. When looking at the SMRs, the cumulative totals and 12 month ended totals would reflect the most up to date revisions if any adjustments were made after the quarterly SMRs were filed.

¹¹ Staff's prudence review is for the period of October 1, 2020 through September 30, 2022.

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T	able 1A							
MEEIA 2 Cumulative Totals for October 1, 2020 through September 30, 2022								
Category	Descriptor	Period Total						
Total Program Costs (\$)	Billed	\$ 1,711,112						
Total Program Costs (\$)	Actual	\$ (13,513)						
Total Program Costs (\$)	Variance	\$ 1,724,625						
Total Program Costs (\$)	Interest	\$ (39)						
Gross Energy Savings (kWh)	Target	-						
Gross Energy Savings (kWh)	Deemed Actual	3,429,447						
Gross Energy Savings (kWh)	Variance	(3,429,447)						
Gross Demand Savings (kW)	Target	-						
Gross Demand Savings (kW)	Deemed Actual	910						
Gross Demand Savings (kW)	Variance	(910)						
Throughput Disincentive Costs (\$)	Billed	\$ (4,067,988)						
Throughput Disincentive Costs (\$)	Actual	\$ 564,441						
Throughput Disincentive Costs (\$)	Variance	\$ (4,632,430)						
Throughput Disincentive Costs (\$)	Interest	\$ 13,460						

Table 1B

1								
MEEIA 3 Cumulative Totals for October 1, 2020 through September 30, 2022								
Category	Descriptor	Period Total						
Total Program Costs (\$)	Billed	\$ 158,132,632						
Total Program Costs (\$)	Actual	\$ 146,945,593						
Total Program Costs (\$)	Variance	\$ 11,187,039						
Total Program Costs (\$)	Interest	\$ 194,252						
Gross Energy Savings (kWh)	Target	583,875,454						
Gross Energy Savings (kWh)	Deemed Actual	601,314,356						
Gross Energy Savings (kWh)	Variance	(17,438,902)						
Gross Demand Savings (kW)	Target	257,520						
Gross Demand Savings (kW)	Deemed Actual	203,954						
Gross Demand Savings (kW)	Variance	53,566						
Throughput Disincentive Costs (\$)	Billed	\$ 47,524,271						
Throughput Disincentive Costs (\$)	Actual	\$ 50,498,261						
Throughput Disincentive Costs (\$)	Variance	\$ (2,973,990)						
Throughput Disincentive Costs (\$)	Interest	\$ (32,604)						

Staff reviewed and analyzed a variety of items while examining whether Ameren Missouri
 prudently incurred program costs, TD, EO, and interest costs associated with the MEEIA
 2016-2018 Plan and the MEEIA 2019-2021 Plan for the Review Period. Based on its review,
 Staff identified no incidence or evidence of imprudence by Ameren Missouri for the period of
 October 1, 2020 through September 30, 2022.

6 *Staff Expert: Brooke Mastrogiannis*

II. INTRODUCTION

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A. Prudence Standard

Commission Rule 20 CSR 4240-20.093(11) requires that the Commission's Staff conduct prudence reviews of an electric utility's costs for its EEIC no less frequently than every twenty-four (24) months. This Report documents Staff's second review of the prudence of Ameren Missouri's MEEIA Cycle 3 program costs, Cycle 2 long-lead project costs, Cycle 2 non-long lead program costs, Company TD, Company EO, and interest for the period October 1, 2020 through September 30, 2022 ("Review Period").

15 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 16 17 decision-maker employed to be reasonable based on the circumstances at the time the decision 18 was made, *i.e.*, without the benefit of hindsight. If either the information relied upon or the 19 decision-making process employed was imprudent, then Staff examines whether the imprudent 20 decision caused any harm to ratepayers. Only if an imprudent decision resulted in harm to 21 ratepayers, will Staff recommend a disallowance. However, if an imprudent decision did not 22 result in harm to Ameren Missouri's customers, then Staff may further evaluate the 23 decision-making process, and may recommend changes to the company's business practice 24 going forward.

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B. Staff Review and Reconciliation of FERC Accounts

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. Ameren Missouri provides its monthly General Ledger to the Commission as ongoing surveillance data, which is

1 a summary of all accounting transactions on a monthly basis. For the MEEIA Cycle 2 expenses, 2 Staff filtered the General Ledger based on FERC Major Account 908 - Customer Assistance, 3 Minor EED - Electric Energy Efficiency and Demand, and Minor 228 – Industry Association 4 Memberships and Related Expense. Both accounts have an Activity Code of M2PC¹². 5 The filtering process of the General Ledger provided, by month, the total amount of transactions by Activity Code and Resource Type that occurred during the month in FERC Account 908. 6 7 For MEEIA Cycle 3 expenses, Staff filtered the General Ledger based on FERC Major Account 8 908 - Customer Assistance, Minor EED - Electric Energy Efficiency and Demand. The MEEIA 9 Cycle 3 expenses all have an Activity Code of M3PC¹³.

Staff reconciled FERC Account 908 program costs provided by Ameren Missouri in response to Staff's Data Request No. 0003 to the SMRs page 6a and 6b¹⁴ and the most recent Rider EEIC filing, Case No. ER-2023-0178¹⁵. Subsequently, Staff used the detail in Data Request No. 0003 and sorted it by month, project number, activity code, and resource type then reconciled these individual line item transactions to follow-up receipts and invoices requested by Staff. Staff analyzed these transactions and reconciled the monthly totals by project number and resource type.

17 Staff Expert: Brooke Mastrogiannis

III. ENERGY EFFICIENCY INVESTMENT RATE (EEIR) DETERMINATION

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1. Description

A. Overview of Program Costs

During this Review Period, there were breakdowns of expenses by Cycle 2 Long-Lead projects, Cycle 2 Non-Long Lead projects along with Cycle 3 expenses. Within those categories, Ameren Missouri's program costs include incentive payments and administrative costs. Administrative costs include the following: program administration, general, education, marketing and communication, market potential study, data tracking, and EM&V costs.

¹² M2PC acronym for Missouri Energy Efficiency Energy Act Program Costs – Cycle 2.

¹³ M3PC acronym for Missouri Energy Efficiency Energy Act Program Costs – Cycle 3.

¹⁴ Attached as Confidential Attachment C and D.

¹⁵ Case No. ER-2023-0178 was filed and approved by the Commission after this Review Period of October 1, 2020 through September 30, 2022.

FILE NO. EO-2023-0180

1 Staff reviewed all actual program costs, provided in response to Data Requests No. 0002 2 and No. 0003, which Ameren Missouri is seeking to recover through its "Energy Efficiency 3 Investment Charge" to insure only prudently incurred costs are recovered through the Rider 4 EEIC. Staff reviewed and analyzed for prudency Ameren Missouri's adherence to contractual 5 obligations, resolution of problems, adequacy of controls, and compliance with approved tariff 6 sheets. Upon Staff's request, Ameren Missouri did provide documentation to support program 7 costs incurred during the Review Period. Staff categorized these costs by program and 8 segregated them between incentive payments and program administrative costs. Staff also 9 reconciled program costs to the General Ledger FERC Accounts 908 by month, project number, 10 and resource type. (See the Staff Review and Reconciliation of FERC Accounts section for 11 further explanation of process and review.)

12 The results of Staff categorizing program costs are in Table 2¹⁶, which is the total of 13 ALL MEEIA program costs for this Review Period and also the breakdown by categories 14 followed by Tables 2A (Cycle 2 Non-Long Lead program costs¹⁷), 2B (Cycle 2 Long-Lead 15 program costs) and 2C (Cycle 3 program costs):

27 *continued on next page*

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¹⁶ Table 2 was created from the information Ameren Missouri provided in Data Request No. 0003.

¹⁷ Ameren Missouri's *2016-2018 Energy Efficiency Plan* officially ended on February 28, 2019. However, with any program of this nature a period of time is needed to finalize all energy efficiency projects that may have been scheduled or started but not completed by the official end of Ameren Missouri's Plan. Staff reviewed the carry-over costs as reported by the Company in response to Staff's Data Request No. 0003 for prudency and have summarized the results in Table 2A, 4, and 5.

	Table 2								
Programs' Costs October 1, 2020 through September 30, 2022									
MEEIA SUMMARY ON ALL PROJECTS									
Program Description	Pe	for the Review eriod Ending ember 30, 2022	Ac	lministrative Costs]	Incentives Paid			
Low Income Programs									
IE Multifamily J0HVM	\$	10,906,430	\$	4,092,384	\$	6,814,046			
IE Single Family J0HVN	\$	6,905,410	\$	3,297,381	\$	3,608,029			
IE Efficiency Housing Grant J0HX9	\$	1,872,007	\$	311,289	\$	1,560,718			
IE Social Service for Business J0HVP	\$	860,190	\$	60,986	\$	799,204			
MEEIA Co-Delivery Res Kits J0Q82	\$	(478,691)	\$	(175,268)	\$	(303,423)			
MEEIA Co-Delivery LI Multifamily J0Q83	\$	(249,541)	\$	(208,314)	\$	(41,227)			
MEEIA Co-Delivery LI Single Family J0Q84	\$	(511,812)	\$	(234,652)	\$	(277,160)			
Targeted Community Lighting JORMT	\$	1,025,756	\$	628,997	\$	396,759			
Subtotal Low Income Programs	\$	20,329,749	\$	7,772,803	\$	12,556,946			
Residential Programs									
Res Lighting J06DF	\$	-	\$	-	\$	-			
Res Energy Efficient Products J06DG	\$	-	\$	-	\$	-			
Res HVAC J06DH	\$	-	\$	-	\$	-			
Res Low Income J06DK	\$	-	\$	-	\$	-			
Res Kits J06DL	\$	-	\$	-	\$	-			
Res Smart Thermostat J0C9S	\$	-	\$	-	\$	-			
Home Energy Reports J0005	\$	-	\$	-	\$	-			
PY21 HVAC Extension J0VT6	\$	2,092,602	\$	1,132,852	\$	959,750			
Res Lighting J0HVC	\$	10,893,540	\$	4,432,327	\$	6,461,213			
Res Products J0HVD	\$	5,241,951	\$	2,380,073	\$	2,861,878			
Res HVAC J0HVF	\$	24,027,848	\$	6,723,548	\$	17,304,300			
Res Kits J0HVG	\$	1,557,386	\$	712,851	\$	844,535			
Res Home Energy Report J0HVH	\$	2,175,959	\$	2,175,959	\$	-			
Res Appliance Recycling J0HVJ	\$	306,223	\$	183,223	\$	123,000			
Res Demand Response J0HVK	\$	8,525,019	\$	5,707,544	\$	2,817,475			
Res MF Market Rate J0HX8	\$	1,662,199	\$	775,974	\$	886,225			
Res General Expenses J0HVL	\$	248,440	\$	248,440	\$	-			
Res STEM Education J0HXC	\$	401,250	\$	401,250	\$	-			
Res Code Complaince J0HXD	\$	365,240	\$	365,240	\$	-			
Res Smart Home Energy Management J0HXG		165,041	\$	164,081	\$	960			
Res Real Estate Audits J0HXH	\$	188,609	\$	165,309	\$	23,300			
Res Employee Education J0HXJ	\$	73,447	\$	73,447	\$	-			
MEEIA Pay As You Save (PAYS) J0QW4	\$	1,516,286	\$	1,213,454	\$	302,832			
Subtotal Residential Programs	\$	59,441,040	\$	26,855,572	\$	32,585,468			

MEEIA SUMMARY ON ALL PROJECTS								
Program Description	Pe	for the Review eriod Ending ember 30, 2022	Administrative Costs		e Incentives Paid			
Business Programs								
Biz Standard J06D8	\$	(120,410)	\$	(118,022)	\$	(2,388)		
Biz Custom J06D9	\$	(8,612)	\$	5,278	\$	(13,890)		
Biz Retro-Commissioning J06DB	\$	-	\$	(245,586)	\$	245,586		
Biz New Construction J06DC	\$	101,622	\$	(33,880)	\$	135,502		
Biz Program Gen Expense J06DD	\$	-	\$	-	\$	-		
Small Business Direct J0006	\$	(5,651)	\$	(5,651)	\$	-		
Biz Standard J0HV3	\$	20,955,621	\$	5,006,993	\$	15,948,628		
Biz Custom J0HV4	\$	13,683,409	\$	4,552,952	\$	9,130,457		
Biz Retro-Commissioning J0HV5	\$	3,048,212	\$	1,390,493	\$	1,657,719		
Biz New Construction J0HV6	\$	9,261,837	\$	2,037,429	\$	7,224,408		
Small Business Direct Ins (SBDI) J0HV7	\$	2,100,354	\$	305,347	\$	1,795,007		
Biz Demand Response J0HV9	\$	7,545,750	\$	7,545,750	\$	-		
Biz General Expense J0HVB	\$	2,759,276	\$	2,759,276	\$	-		
Biz Building Operator Cert (BOC) J0HXK	\$	48,243	\$	48,243	\$	-		
Subtotal Business Programs	\$	59,369,651	\$	23,248,622	\$	36,121,029		
Overhead								
Education J06D3	\$	_	\$	_	\$	_		
Data Tracking J06D6	\$	_	\$	_	\$			
Potential Study J0HV1	\$	122,012	\$	122,012	\$			
Incremental Labor JOHWD	\$	-	\$	-	\$			
Portfolio General Expense J0HDX	\$	711,642	\$	711,642	\$	-		
Communications J0HV0	\$	2,799,783	\$	2,799,783	\$			
EMV Income Eligible Programs J0HVQ	\$	410,435	\$	410,435	\$			
EMV Res Programs J06DN	\$	-	\$	-110,-135	\$			
EMV Res Programs JOHVR	\$	1,570,469	\$	1,570,469	\$			
EMV Biz Programs J06DP	\$	19,538	\$	19,538	\$	-		
EMV Biz Programs J0HVS	\$	1,151,479	\$	1,151,479	\$			
EMV Res Demand Response J0HVV	\$	636,264	\$	636,264	\$			
EMV Biz Demand Response J0HVW	\$	324,627	\$	324,627	\$			
EMV Gen Expense J06DQ	\$	J2 - 7,027	\$	J27,027	\$			
EMV Gen Expense J00DQ EMV Gen Expense J0HXB	\$	45,390	\$	45,390	۰ ۶	-		
Subtotal Overhead Costs	\$	7,791,639	۰ ۶	7,791,639	۰ ۶			
Subtorn C (Cincar Costs	Ψ	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Ψ	.,.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Ψ			
Total Program Costs	\$	146,932,079	\$	65,668,636	~	81,263,443		

Table 2 (continued)

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Programs' Costs October 1, 2020 through September 30, 2022								
MEEIA CYCLE 2	NON	-LONG LE	CAD	PROJE	CTS	5		
Program Description		for the Review riod Ending mber 30, 2022	Administrative Costs		Incentives Paid			
Residential Programs								
Res Lighting J06DF	\$	-	\$	-	\$	-		
Res Energy Efficient Products J06DG	\$	-	\$	-	\$	-		
Res HVAC J06DH	\$	-	\$	-	\$	-		
Res Low Income J06DK	\$	-	\$	-	\$	-		
Res Kits J06DL	\$	-	\$	-	\$	-		
Res Program Gen Expense J06DM	\$	-	\$	-	\$	-		
Res Smart Thermostat J0C9S	\$	-	\$	-	\$	-		
Home Energy Reports J0005	\$	-	\$	-	\$	-		
Subtotal Residential Programs	\$	-	\$	-	\$	-		
Business Programs								
Biz Standard J06D8	\$	(250,981)	\$	(139,431)	\$	(111,550)		
Biz Custom J06D9	\$	(27,942)	\$	3,375	\$	(31,317)		
Biz Retro-Commissioning J06DB	\$	-	\$	-	\$	-		
Biz New Construction J06DC	\$	85,116	\$	85,116	\$	-		
Biz Program Gen Expense J06DD	\$	-	\$	-	\$	-		
Small Business Direct J0006	\$	(5,651)	\$	(5,651)	\$	-		
Subtotal Business Programs	\$	(199,458)	\$	(56,591)	\$	(142,867)		
Overhead								
Education J06D3	\$	-	\$	-	\$	-		
Data Tracking J06D6	\$	_	\$	_	\$	_		
EMV Gen Expense J06DQ	\$	_	\$	_	\$	_		
EMV Res Programs J06DN	\$	-	\$	_	\$	_		
EMV Biz Programs J06DP	\$	19,538	\$	19,538	\$	_		
Subtotal Overhead Costs	\$	19,538	\$	19,538	\$	-		
Total Program Costs	\$	(179,920)	\$	(37,053)	\$	(142,867)		

Table 2A

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Programs' Costs October 1, 2020 through September 30, 2022								
MEEIA CYCL			U	•		,		
Program Description	Per	or the Review iod Ending nber 30, 2022	Administrative Costs		Incentives Paid			
Residential Programs								
Res Lighting J06DF	\$	1	\$	1	\$	-		
Res Energy Efficient Products J06DG	\$	(259)	\$	(259)	\$	-		
Res HVAC J06DH	\$	133	\$	133	\$	-		
Res Low Income J06DK	\$	101	\$	101	\$	-		
Res Kits J06DL	\$	19	\$	19	\$	-		
Res Program Gen Expense J06DM	\$	-	\$	-	\$	-		
Res Smart Thermostat J0C9S	\$	-	\$	-	\$	-		
Home Energy Reports J0005	\$	5	\$	5	\$	-		
Subtotal Residential Programs	\$	-	\$	-	\$	-		
Business Programs								
Biz Standard J06D8	\$	130,571	\$	21,409	\$	109,162		
Biz Custom J06D9	\$	19,330	\$	1,903	\$	17,427		
Biz Retro-Commissioning J06DB	\$	-	\$	(122,793)	\$	122,793		
Biz New Construction J06DC	\$	16,506	\$	(118,996)	\$	135,502		
Subtotal Business Programs	\$	166,407	\$	(218,477)	\$	384,884		
Overhead								
Education J06D3	\$	-	\$	-	\$	-		
Data Tracking J06D6	\$	-	\$	-	\$	-		
EMV Gen Expense J06DQ	\$	-	\$	-	\$	-		
EMV Res Programs J06DN	\$	-	\$	-	\$	-		
EMV Biz Programs J06DP	\$	-	\$	-	\$	-		
Subtotal Overhead Costs	\$	-	\$	-	\$	-		
Total Program Costs	\$	166,407	\$	(218,477)	\$	384,884		

Table 2B

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Programs' Costs October 1, 2020 through September 30, 2022 MEEIA CYCLE 3 PROJECTS							
Program Description	Total for the Review			S Iministrative Costs	Incentives Paid		
Low Income Programs		10.006.100	¢	4 002 204	<i>•</i>		
IE Multifamily J0HVM IE Single Family J0HVN	\$	10,906,430	\$	4,092,384 3,297,381	\$	6,814,046	
IE Efficiency Housing Grant J0HX9	\$	6,905,410	\$		\$	3,608,029	
IE Social Service for Business J0HVP	\$	1,872,007	\$ \$	311,289 60,986	\$	<u>1,560,718</u> 799,204	
MEEIA Co-Delivery Res Kits J0Q82	\$	860,190	ه	(175,268)	\$		
MEEIA Co-Delivery Kes Kits J0Q82 MEEIA Co-Delivery LI Multifamily J0Q83	\$ \$	(478,691)	\$	(208,314)	<u>\$</u> \$	(303,423) (41,227)	
MEEIA Co-Delivery LI Multianily 50085 MEEIA Co-Delivery LI Single Family J0Q84	\$ \$	(249,541)	\$	(234,652)	\$	(277,160)	
Targeted Community Lighting JORMT	\$ \$	(511,812) 1,025,756	\$	628,997	\$	396,759	
Subtotal Low Income Programs	\$ \$	20,329,749	э \$	7,772,803	Գ Տ	12,556,946	
Subtotal Low Income Programs	Э	20,329,749	3	7,772,803	Э	12,550,940	
Residential Program							
PY21 HVAC Extension J0VT6	\$	2,092,602	\$	1,132,852	\$	959,750	
Res Lighting J0HVC	\$	10,893,540	\$	4,432,327	\$	6,461,213	
Res Products J0HVD	\$	5,241,951	\$	2,380,073	\$	2,861,878	
Res HVAC J0HVF	\$	24,027,848	\$	6,723,548	\$	17,304,300	
Res Kits J0HVG	\$	1,557,386	\$	712,851	\$	844,535	
Res Home Energy Report J0HVH	\$	2,175,959	\$	2,175,959	\$	-	
Res Appliance Recycling J0HVJ	\$	306,223	\$	183,223	\$	123,000	
Res Demand Response J0HVK	\$	8,525,019	\$	5,707,544	\$	2,817,475	
Res MF Market Rate J0HX8	\$	1,662,199	\$	775,974	\$	886,225	
Res General Expenses J0HVL	\$	248,440	\$	248,440	\$	-	
Res STEM Education J0HXC	\$	401,250	\$	401,250	\$	-	
Res Code Complaince J0HXD	\$	365,240	\$	365,240	\$	-	
Res Smart Home Energy Management J0HXG	\$	165,041	\$	164,081	\$	960	
Res Real Estate Audits J0HXH	\$	188,609	\$	165,309	\$	23,300	
Res Employee Education J0HXJ	\$	73,447	\$	73,447	\$	-	
MEEIA Pay As You Save (PAYS) J0QW4	\$	1,516,286	\$	1,213,454	\$	302,832	
Subtotal Residential Programs	\$	59,441,040	\$	26,855,572	\$	32,585,468	
Business Program							
Biz Standard J0HV3	\$	20,955,621	\$	5,006,993	\$	15,948,628	
Biz Custom J0HV4	\$	13,683,409	\$	4,552,952	\$	9,130,457	
Biz Retro-Commissioning J0HV5	\$	3,048,212	\$	1,390,493	\$	1,657,719	
Biz New Construction J0HV6	\$	9,261,837	\$	2,037,429	\$	7,224,408	
Small Business Direct Ins (SBDI) J0HV7	\$	2,100,354	\$	305,347	\$	1,795,007	
Biz Demand Response J0HV9	\$	7,545,750	\$	7,545,750	\$	-	
Biz General Expense J0HVB	\$	2,759,276	\$	2,759,276	\$	-	
Biz Building Operator Cert (BOC) J0HXK	\$	48,243	\$	48,243	\$	-	
Subtotal Business Programs	\$	59,402,702	\$	23,646,483	\$	35,756,219	
Overhead							
Potential Study J0HV1	\$	122,012	\$	122,012	\$	-	
Incremental Labor J0HWD	\$	-	\$	-	\$	-	
Portfolio General Expense J0HDX	\$	711,642	\$	711,642	\$	-	
Communications J0HV0	\$	2,799,783	\$	2,799,783	\$	-	
EMV Income Eligible Programs J0HVQ	\$	410,435	\$	410,435	\$	-	
EMV Res Programs J0HVR	\$	1,570,469	\$	1,570,469	\$	-	
EMV Biz Programs J0HVS	\$	1,151,479	\$	1,151,479	\$	-	
EMV Res Demand Response J0HVV	\$	636,264	\$	636,264	\$	-	
EMV Biz Demand Response J0HVW	\$	324,627	\$	324,627	\$	-	
EMV Gen Expense J0HXB	\$	45,390	\$	45,390	\$	-	
Subtotal Overhead Costs	\$	7,772,101	\$	7,772,101	\$	-	
Total Duageners Conta	\$	146,945,592	\$	66,046,959	\$	80,898,633	
Total Program Costs	Φ	140,943,392	Ф	00,040,939	Э	00,070,033	

Table 2C

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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.¹⁸ 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 Cycle 2 Plan is budgeted for administrative and incentive program costs.¹⁹ Table 3A²⁰ provides a comparison for the 3-year Cycle 2 2016-2018 Plan in total, for administrative and incentive program costs. Ameren Missouri's Cycle 2 2016-2018 Plan in Table 3A anticipated 52%²¹ of the total program costs to be used toward incentives, and the other 48%²² toward administrative costs. The results in Table 4 indicate that Ameren Missouri improved this ratio, as it shows actual incentives were 62%²³ of the total Cycle 2 costs and the other 38% toward administrative costs. The results of the Cycle 2 2016-2018 Plan of categorizing program costs, administrative and incentives, are provided in Table 3A below.

Table $3B^{24}$ provides a comparison for the 3-year Cycle 3 2019-2021 Plan in total, for 14 15 administrative and incentive program costs. Ameren Missouri's Cycle 3 2019-2021 Plan in Table 3B anticipated 51% of the total program costs to be used toward incentives, and the other 16 49% toward administrative costs. The results in table 2C show actual incentives were 55%²⁵ 17 18 during the Review Period compared to the 51% in Ameren Missouri's Cycle 3 2019-2021 Plan. 19 Even though this ratio has been exceeded, based on the Cycle 3 2019-2021 Plan, Staff will 20 continue to monitor the actual results compared to the Cycle 3 Plan throughout the life of 21 Cycle 3. The results of the Cycle 3 2019-2021 Plan of categorizing program costs, 22 administrative and incentives, are provided in Table 3B below, as well.

¹⁸ 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. ¹⁹ Revised Appendix B and Appendix H of the February 5, 2016 Non-Unanimous Stipulation and Agreement.

²⁰ Table 3A was created from Revised Appendix B from the March 16, 2017 Non-Unanimous Stipulation and Agreement approved by the Commission on April 13, 2017 in Case No. EO-2015-0055.

²¹ This percentage is calculated from total incentives over total portfolio in Table 3A.

²² This percentage is calculated from total administrative costs over total portfolio in Table 3A.

²³ This percentage is calculated from total incentives over total portfolio in Table 4.

²⁴ Table 3B was created from updated Appendix A from the October 13, 2021 Non-Unanimous Stipulation and Agreement approved by the Commission on October 27, 2021 in Case No. EO-2018-0211.

²⁵ This percentage is calculated from total incentives over total program costs in Table 2C.

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Ameren Missouri 2016-2018 plan	for Adminis		ncent	ive Progr	am C	osts
MEEIA Programs	Admi	nistrative	Inc	entives	r	Fotal
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 Dusiness Trograms	¥					
Total Portfolio *Learning Thermostats were incorporate of being implemented as a separate progr	\$ d into the Effi ram.	77.57 cient Product		_	-	
Total Portfolio *Learning Thermostats were incorporate	\$ d into the Effi ram.	77.57 cient Product	s and	HVAC pr	ogran	ns instea
Total Portfolio *Learning Thermostats were incorporate of being implemented as a separate progr **This total includes the \$4 million budg	\$ d into the Effi ram.	77.57 cient Product	s and	HVAC pr	ogran	ns instead
Total Portfolio *Learning Thermostats were incorporate of being implemented as a separate progr **This total includes the \$4 million budg	\$ d into the Effi ram.	77.57 cient Product	s and	HVAC pr	ogran	ns instead
Total Portfolio *Learning Thermostats were incorporate of being implemented as a separate progr **This total includes the \$4 million budg	\$ d into the Effi ram.	77.57 cient Product	s and	HVAC pr	ogran	ns instead
Total Portfolio *Learning Thermostats were incorporate of being implemented as a separate progr **This total includes the \$4 million budg	\$ d into the Effi ram.	77.57 cient Product	s and	HVAC pr	ogran	ns instead
Total Portfolio *Learning Thermostats were incorporate of being implemented as a separate progr **This total includes the \$4 million budg	\$ d into the Effi ram.	77.57 cient Product	s and	HVAC pr	ogran	ns instead
Total Portfolio *Learning Thermostats were incorporate of being implemented as a separate progr **This total includes the \$4 million budg	\$ d into the Effi ram.	77.57 cient Product	s and	HVAC pr	ogran	ns instead
Total Portfolio *Learning Thermostats were incorporate of being implemented as a separate progr **This total includes the \$4 million budg	\$ d into the Effi ram.	77.57 cient Product	s and	HVAC pr	ogran	ns instead
Total Portfolio *Learning Thermostats were incorporate of being implemented as a separate progr **This total includes the \$4 million budg	\$ d into the Effi ram.	77.57 cient Product	s and	HVAC pr	ogran	ns instead

Table 3A

-	able 5	D				
Ameren Missouri 2019-2021 Plan for Administrative and Incentive						
Program Co	Program Costs (in millions) *					
MEEIA Programs	Adm	inistrative	Incentives Total			tal
Multifamily Low-Income	\$	10.08	\$	16.60	\$	26.68
Single Family Low-Income	\$	10.72	\$	10.85	\$	21.57
Business Social Services	\$	1.43	\$	5.24	\$	6.67
Targeted Community LED Lighting	\$	2.48	\$	1.61	\$	4.09
Total Low Income Programs	\$	24.71	\$	34.30	\$	59.01
Residential Demand Response	\$	28.95	\$	-	\$	28.95
Business Demand Response	\$	18.10	\$	-	\$	18.10
Total Demand Response	\$	47.05	\$	-	\$	47.05
Residential Appliance Recycling	\$	1.12	\$	0.59	\$	1.71
Efficient Products	\$	4.62	\$	6.00	\$	10.62
Energy Efficient Kits	\$	1.43	\$	2.41	\$	3.84
Home Energy Report	\$	1.51	\$	4.34	\$	5.85
HVAC***	\$	27.81	\$	36.47	\$	64.28
Lighting	\$	2.73	\$	2.99	\$	5.72
Multifamily Market Rate	\$	4.35	\$	2.89	\$	7.24
PAYS	\$	1.94	\$	4.35	\$	6.29
Residential Education	\$	2.85	\$	-	\$	2.85
Total Residential Programs	\$	48.36	\$	60.04	\$	108.40
Custom	\$	24.45	\$	39.60	\$	64.05
New Construction	\$	2.13	\$	2.98	\$	5.11
Retro-Commissioning	\$	2.68	\$	4.67	\$	7.35
Small Business Direct Install	\$	4.47	\$	8.61	\$	13.08
Standard	\$	17.18	\$	30.10	\$	47.28
Strategic Energy Management	\$	-	\$	-	\$	-
Business Education	\$	0.24	\$	-	\$	0.24
Total Business Programs**	\$	51.15	\$	85.96	\$	137.11
Total Portfolio	\$	171.27	\$	180.30	\$	351.57
* EM&V and Other Portfolio Costs are included						
** This does not include an additional \$6.7 million for Standard and Custom programs that was approved on 5/25/22						
*** This does not include an additional \$2.5 million that was approved for the						
HVAC program that	t was	approved on	7/27	7/22		

Table 3B

2

3 4 Ameren Missouri provides incentive payments to its customers as part of its Cycle 3 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 compared to the cost of less efficient measures. Incentive payments can also complement other

FILE NO. EO-2023-0180

efficiency policies such as appliance standards and energy codes to help overcome market
 barriers for cost-effective technologies. All of the business programs are tracked in TRC's
 database (TRC²⁶ Solutions is the contractor for the business programs) and residential programs
 are tracked in Franklin Energy's database (Franklin Energy is the contractor for the residential
 programs). Enel X is the contractor for the Demand Response Business Program.

TRC enters incentives and energy savings submitted by the customer into the TRC database for each energy efficiency program project. Upon completion, the energy efficiency project is flagged to be invoiced. Then, on the last Friday of each month TRC's accounting group submits the month's invoice that includes incentives, and the month-end energy savings reports are provided to Ameren Missouri. After Ameren Missouri performs month-end invoice and savings validation procedures, the invoice is approved to be paid. Once the invoice is approved, the payment date is generated, and the activity posts to the general ledger on the same day that the payment is executed.²⁷ Starting in PY22, the incentive invoices are sent directly from TRC to the Ameren Missouri Principal Accounting Clerk by email. Those emails are then received in the Oracle processing system for payment. The incentive invoices are preapproved and do not require any additional approvals upon receipt. As a result, payment of the invoices generate automatically and invoices are paid within 1-2 business days after the invoice has been received into Oracle. The activity posts to the general ledger on the same day that the payment is executed.²⁸

Franklin Energy's vendors input incentives and energy savings into Franklin Energy's efficiency manager database. The kWh and incentive amounts are recorded in the end of month reports as well as the monthly invoices sent to Ameren. After Ameren Missouri performs month-end invoice and savings validation procedures the invoice is approved to be paid. The Franklin Energy incentives invoices are sent directly from Franklin Energy Services to the Ameren Missouri Principal Accounting Clerk by email. Those emails are then received in the Oracle processing system for payment. The incentive invoices are preapproved and do not require any additional approvals upon receipt. As a result, payment of the invoices generate automatically and invoices are paid within 1-2 business days after the invoice has been received

²⁶ Per the response to Data Request No. 0007 in EO-2021-0157, Lockheed Martin Corporation sold its distributed energy solutions business to TRC on November 18, 2019.

²⁷ Data Request No. 0009.3 in EO-2021-0157.

²⁸ Data Request No. 0009.3 in EO-2021-0157.

into Oracle. The activity posts to the general ledger on the same day that the payment is
 executed.²⁹

3 Ameren Missouri has explained to Staff that these systems can be difficult to navigate and pull live data that matches historical invoices and reporting since those historical invoices 4 5 represent snapshots of the data at those times. Ameren Missouri has provided Staff with reports that contain project level data from TRC and Franklin Energy. For each project, the incentive 6 7 cost and corresponding invoice are provided as well as the kWh savings. As requested by Staff, 8 Ameren Missouri provided a reconciliation of the TRC and Franklin Energy summary of 9 incentives by invoice from the TRC and Franklin Energy tracking system reports, compared to 10 the general ledger and compared to the actual invoices provided in Data Request No. 0014. 11 Ameren Missouri provided additional reconciliations for incentives and supporting workpapers 12 for those differences. Most of the differences were due to the prudence review lag inherent in 13 the process. Other differences were due to: 1) errors in the original mapping, but once Franklin 14 manually corrected the invoice numbers the project level detail aligned, and 2) for Residential 15 Demand Response, in which Franklin reported incentive costs for customers that received a bill 16 credit. Lastly, Ameren Missouri identified several transactions that were either charged to the 17 wrong account, invoice variances, bill credits over-invoiced or erroneously not posted. Staff 18 found Ameren Missouri's additional follow-up reconciliations and work papers very helpful during this review process. As a result of these reconciliations provided by Ameren Missouri, along with the additional invoices and/or invoice corrections that were reflected outside of the Review Period, and adjusting entries recorded in February, March, and April 2023, Staff was able to reconcile the general ledger total to the invoices provided by project.

Please refer to Table 4³⁰ for all costs for MEEIA Cycle 2. Please refer to Table 5³¹ for a
comparison of the total actual costs and proposed (budgeted) costs for MEEIA Cycle 2. Ameren
Missouri's MEEIA Cycle 2 actual costs were approximately \$6 million under the proposed
budget and provided more incentives in the program with less administrative costs.

²⁹ Data Request No. 0009.3 in EO-2021-0157.

³⁰ Table 4 was created from a total of this prudence review Periods total Program Cost (from Data Request No. 0003) and the last three prudence Review Periods total Program Costs. The Long-Lead projects are also included since they were part of the Cycle 2 expenses.

³¹ Table 5 was created from total Program Costs (from Data Request No. 0003) and the total Program Cost budget (Revised Appendix B from the March 16, 2017 Non-Unanimous Stipulation and Agreement).

		ole 4				
Programs' Costs Marc				uary 31,	202	2
UYCLE	2 PROG		515			
Program Description	Period	the Review ls Ending y 31, 2022		nistrative Costs	-	entives Paid
Residential Programs						
Res Lighting J06DF	\$	7.67	\$	3.62	\$	4.05
Res Energy Efficient Products J06DG	\$	3.59	\$	1.26	\$	2.33
Res HVAC J06DH	\$	33.58	\$	9.97	\$	23.60
Res Low Income J06DK	\$	8.33	\$	3.51	\$	4.82
Res Kits J06DL	\$	2.44	\$	0.85	\$	1.58
Res Program Gen Expense J06DM	\$	0.21	\$	0.21	\$	-
Res Smart Thermostat J0C9S	\$	2.91	\$	0.76	\$	2.15
Home Energy Reports J0005	\$	2.40	\$	2.40	\$	-
Subtotal Residential Programs	\$	61.12	\$	22.58	\$	38.54
Business Programs						
Biz Standard J06D8	\$	39.41	\$	9.44	\$	29.97
Biz Custom J06D9	\$	29.67	\$	11.00	\$	18.66
Biz Retro-Commissioning J06DB	\$	2.05	\$	0.61	\$	1.44
Biz New Construction J06DC	\$	6.89	\$	1.76	\$	5.12
Biz Program Gen Expense J06DD	\$	2.17	\$	2.17	\$	-
Biz Benchmarking J0DH0	\$	0.13	\$	0.13	\$	-
Small Business Direct J0006	\$	4.91	\$	0.58	\$	4.33
Subtotal Business Programs	\$	85.22	\$	25.69	\$	59.52
Quarkaad						
Overhead Education J06D3	<u>خ</u>	0.08	\$	0.08	\$	_
Marketing J06D4	\$ \$	0.08	ې \$	0.08	ې \$	
Potential Study J06D5	\$	0.01	\$ \$	0.01	ې \$	-
Data Tracking J06D6	\$	0.47	\$	0.47	\$	
General Expense J06D7	\$	0.33	\$ \$	0.33	\$ \$	-
Communications J06DR	\$	2.45	\$	2.45	\$	
Research and Development J000P	\$	0.22	\$	0.22	\$	_
EMV Gen Expense J06DQ	\$	0.22	\$	0.05	\$	_
EMV Res Programs J06DN	\$	2.99	\$	2.99	\$	_
EMV Biz Programs J06DP	\$	3.62	\$	3.62	\$	-
Subtotal Overhead Costs	\$	10.62	\$	10.62	\$	-
		450.05	ć	F0 00	<i>~</i>	00.00
Total Program Costs	\$	156.95	\$	58.89	\$	98.06

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Table 5

Actual vs Proposed Costs March 1, 2016 through September 30, 2020 (in millions)

Cycle 2 Program Costs

Actual vs Proposed Costs March 1, 2016 through September 30, 2020

			Су	cle 2 Pro	gra	am C	os	ts					
(in millions)													
Program Description	Actua Total Costs		Proposed Total Costs	Var	A	Actual Admin Costs	A	oposed Admin Costs	Var	Ī	Actual Incentives Paid	oposed centives Paid	Var
Residential Program										Ī			
Res Lighting J06DF	\$ 7.6	7	\$ 14.29	\$ (6.62)	\$	3.62	\$	6.65	\$ (3.03)	ſ	\$ 4.05	\$ 7.64	\$ (3.59)
Res Energy Efficient Products J06DG	\$ 3.5	9	\$ 5.06	\$ (1.47)	\$	1.26	\$	2.53	\$ (1.27)	ſ	\$ 2.33	\$ 2.53	\$ (0.20)
Res HVAC J06DH	\$ 33.5	8	\$ 25.29	\$ 8.29	\$	9.97	\$	12.28	\$ (2.31)		\$ 23.60	\$ 13.01	\$ 10.59
Learning Thermostats*	\$ -		\$ 3.88	\$ (3.88)	\$	-	\$	1.07	\$ (1.07)		\$-	\$ 2.81	\$ (2.81)
Res Low Income J06DK	\$ 8.3	3	\$ 10.75	\$ (2.42)	\$	3.51	\$	3.94	\$ (0.43)		\$ 4.82	\$ 6.81	\$ (1.99)
Res Kits J06DL	\$ 2.4	4	\$ 4.14	\$ (1.70)	\$	0.85	\$	2.54	\$ (1.69)		\$ 1.58	\$ 1.60	\$ (0.02)
Res Program Gen Expense J06DM	\$ 0.2	1	\$-	\$ 0.21	\$	0.21	\$	-	\$ 0.21		\$-	\$ -	\$ -
Res Smart Thermostat J0C9S	\$ 2.9	1 :	\$-	\$ 2.91	\$	0.76	\$	-	\$ 0.76		\$ 2.15	\$ -	\$ 2.15
Home Energy Reports J0005	\$ 2.4	0	\$ 4.30	\$ (1.90)	\$	2.40	\$	4.30	\$ (1.90)		\$-	\$ -	\$ -
Subtotal Residential Programs	\$ 61.1	2	\$ 67.71	\$ (6.59)	\$	22.58	\$	33.31	\$ (10.73)		\$ 38.54	\$ 34.40	\$ 4.14
Business Program													
Biz Standard J06D8	\$ 39.4	1	\$ 22.03	\$ 17.38	\$	9.44	\$	10.50	\$ (1.06)		\$ 29.97	\$ 11.53	\$ 18.44
Biz Custom J06D9	\$ 29.6	7	\$ 51.98	\$ (22.31)	\$	11.00	\$	24.71	\$ (13.71)		\$ 18.66	\$ 27.27	\$ (8.61)
Biz Retro-Commissioning J06DB	\$ 2.0	5	\$ 6.92	\$ (4.87)	\$	0.61	\$	2.94	\$ (2.33)		\$ 1.44	\$ 3.98	\$ (2.54)
Biz New Construction J06DC	\$ 6.8	9	\$ 4.82	\$ 2.07	\$	1.76	\$	2.08	\$ (0.32)		\$ 5.12	\$ 2.74	\$ 2.38
Biz Program Gen Expense J06DD	\$ 2.1	7	\$-	\$ 2.17	\$	2.17	\$	-	\$ 2.17		\$-	\$ -	\$ -
Biz Benchmarking JODH0	\$ 0.1	3	\$-	\$ 0.13	\$	0.13	\$	-	\$ 0.13		\$-	\$ -	\$ -
Small Business Direct J0006	\$ 4.9	1	\$ 9.73	\$ (4.82)	\$	0.58	\$	4.03	\$ (3.45)	l	\$ 4.33	\$ 5.70	\$ (1.37)
Subtotal Business Programs	\$ 85.2	2	\$ 95.48	\$ (10.26)	\$	25.69	\$	44.26	\$ (18.57)		\$ 59.52	\$ 51.22	\$ 8.30
Education J06D3	\$ 0.0	8	\$-	\$ 0.08	\$	0.08	\$	-	\$ 0.08	ſ	\$ -	\$ -	\$ -
Marketing J06D4	\$ 0.0	1	; \$-	\$ 0.01	\$	0.01	\$	-	\$ 0.01	ľ	\$ -	\$ -	\$ -
Potential Study J06D5	\$ 0.4	_	\$ -	\$ 0.47	\$	0.47	\$	-	\$ 0.47	ſ	\$ -	\$ -	\$ -
Data Tracking J06D6	\$ 0.3	3	\$ -	\$ 0.33	\$	0.33	\$	-	\$ 0.33	Ī	\$ -	\$ -	\$ -
General Expense J06D7	\$ 0.4	0	\$-	\$ 0.40	\$	0.40	\$	-	\$ 0.40	ſ	\$-	\$ -	\$ -
Communications J06DR	\$ 2.4	5	; \$-	\$ 2.45	\$	2.45	\$	-	\$ 2.45	ſ	\$ -	\$ -	\$ -
Research and Development J000P	\$ 0.2	2	\$ -	\$ 0.22	\$	0.22	\$	-	\$ 0.22	ſ	\$-	\$ -	\$ -
EMV Gen Expense J06DQ	\$ 0.0	5	\$-	\$ 0.05	\$	0.05	\$	-	\$ 0.05	ſ	\$ -	\$ -	\$ -
EMV Res Programs J06DN	\$ 2.9	9	\$-	\$ 2.99	\$	2.99	\$	-	\$ 2.99	ſ	\$ -	\$ -	\$ -
EMV Biz Programs J06DP	\$ 3.6	2	\$-	\$ 3.62	\$	3.62	\$	-	\$ 3.62	ſ	\$-	\$ -	\$ -
Subtotal Overhead Costs	\$ 10.6	2	\$-	\$ 10.62	\$	10.62	\$	-	\$ 10.62	-	\$-	\$ -	\$ -
Total Program Costs	\$ 156.9	6	\$ 163.19	\$ (6.23)	\$	58.89	\$	77.57	\$ (18.68)		\$ 98.06	\$ 85.62	\$ 12.44

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Staff also reviewed a list of customer purchases from Ameren Missouri's online store (specific to thermostats, smart sensors, and LED bulbs) that includes the number of specific products sold per purchase, dollar amount for each product, the rebate associated with each transaction, the online store limit of products per transaction, and the total amount for each transaction. During the course of Staff's review, Ameren Missouri stated in Data Request No. 0031 that there were instances where customers were able to purchase more than the online

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store limit. In program years 2020-2021 the limits were three thermostats per residential electric account, and in program year 2022 the limit was one thermostat per residential electric account. There were 23 customers in 2020-2021 who purchased over the limit of three thermostats and there were two customers who purchased over one thermostat in 2022. Staff then sent a follow-up Data Request No. 0031.1 to determine if any adjustments have been made for these instances. Ameren Missouri stated:

> There were no adjustments made in the aforementioned general electric rate reviews for instances where customers were able to purchase over the limit for on-line purchases, as we were not aware that customers were able to purchase above the limit at the time customers made the purchase. However, an adjustment of \$1,650 will be recorded in February 2023 monthly close to remove this expense from the MEEIA program and move to a "below the line" 426005 account.

Staff has reviewed the February 2023 monthly close adjustment and the supporting calculationsand can confirm the correcting adjustment was made.

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2. Summary of Cost Implications

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

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3. Conclusion

Staff found no indication that Ameren Missouri has acted imprudently regarding any of
the program costs associated with its Energy Efficiency Programs.

23 4. Documents Reviewed 24 a. Ameren Missouri's 2016-2018 Energy Efficiency Plan; 25 b. Ameren Missouri's 2019-2021 Energy Efficiency Plan; 26 c. Approved MEEIA Energy Efficiency and Demand Side Management 27 Programs Tariff Sheets; 28 d. Staff Data Requests: 0001, 0002, 0003, 0003.1, 0003.2, 0003.3, 0003.4, 29 0003.5, 0010, 0014, 0015, 0021, 0023, and 0024; and 30 e. General Ledger FERC Accounts 908. 31 Staff Experts: Teresa Denney (Program Cost); Brooke Mastrogiannis (Tracking System)

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B. Implementation Contractors

1. Description

Ameren Missouri hired business partners for design, implementation and delivery of its portfolio of residential and business energy efficiency programs. Contracting with competent, experienced, and reliable program implementers is extremely important to the success of Ameren Missouri's energy efficiency programs and for affording Ameren Missouri's customers the greatest benefits.

Ameren Missouri selected and contracted with the organizations identified in Table 6 to implement individual MEEIA programs. All of the implementers identified in Table 6 are nationally recognized contractors that have solid histories of energy efficiency programs' design and implementation.

continued on next page

Table 6						
Review Period October 1, 2020 through September 30, 2022						
	Planned Annual	Planned Annual				
	Energy Savings	Demand Savings	Program	Program EM&V		
MEEIA Programs	(kWh)	(kW)	Implementers	Contractors		
Appliance Recycling	5,426,405	781	Franklin Energy	Opinion Dynamics		
Efficient Products	24,312,803	6,935	Franklin Energy	Opinion Dynamics		
Energy Efficient Kits	6,485,258	1,220	Franklin Energy	Opinion Dynamics		
Home Energy Report	-	-	Franklin Energy			
HVAC	91,447,244	49,937	Franklin Energy	Opinion Dynamics		
Lighting	22,523,482	3,362	Franklin Energy	Opinion Dynamics		
Multifamily Income Eligible	10,407,638	3,840	Franklin Energy	Opinion Dynamics		
Multifamily Market Rate	8,662,880	2,832	Franklin Energy	Opinion Dynamics		
Res Demand Response	3,774,614	32,258	Franklin Energy	Opinion Dynamics		
Single Family Income Eligible	7,736,087	2,469	Franklin Energy	Opinion Dynamics		
Single Family Income Grants	6,905,518	1,031	Franklin Energy	Opinion Dynamics		
Pay As You Save	10,918,161	5,089	EEtility	Opinion Dynamics		
HVAC Extension	-	-	Franklin Energy	Opinion Dynamics		
Targeted Community Lighting	423,535	63	Franklin Energy	Opinion Dynamics		
Business Social Services	6,723,739	1,550	TRC	Opinion Dynamics		
Custom	183,732,772	53,702	TRC	Opinion Dynamics		
New Construction	15,150,396	4,021	TRC	Opinion Dynamics		
Retro-Commissioning	20,849,591	7,647	TRC	Opinion Dynamics		
Small Business Direct Install	23,586,764	4,146	TRC	Opinion Dynamics		
Standard	133,808,568	26,640	TRC	Opinion Dynamics		
Strategic Energy Management	-	-	TRC			
Biz Demand Response	1,000,000	50,000	Enel X	Opinion Dynamics		
Total Portfolio	583,875,454	257,520				

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Staff examined the contracts between Ameren Missouri and the implementers in an effort to
determine if the terms of the contract were followed during the implementation of the residential
and business programs. During the review of invoices, Franklin Energy, TRC, EEtility, and
Enel X invoices were cross-checked to the general ledger³² and all invoices were reviewed.

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2. Summary of Cost Implications

If Ameren Missouri was imprudent in its decisions relating to the supervision of its program implementers, ratepayer harm could result in an increase in the future EEIC amounts.

³² General Ledger for the period under review was provided in response to Data Request No. 0003.

1	3. Conclusion
2	Staff found no indication that Ameren Missouri has acted imprudently regarding the
3	supervision of its program implementers.
4	4. Documents Reviewed
5	a. Ameren Missouri's 2019-2021 Energy Efficiency Plan;
6	b. Approved MEEIA Energy Efficiency and Demand Side Management
7	Programs Tariff Sheets;
8	c. Staff Data Requests: 0002, 0003, 0007, 0008, 0014 and 0020.
9	Staff Expert: Brooke Mastrogiannis
10	C. Billed Program Costs
11	1. Description
12	For the Review Period, Ameren Missouri billed customers through a separate line item
13	on customers' bills titled "Energy Efficiency Investment Charge" to recover estimated energy
14	efficiency programs' costs and estimated Company's TD. The "Energy Efficiency Investment
15	Charge" is based on the customer's monthly consumption and the applicable energy efficiency
16	investment rates approved by the Commission in Case No. ER-2023-0178. ³³ During the
17	Review Period of October 1, 2020 through September 30, 2022, Ameren Missouri billed
18	customers \$1,711,112 to recover its estimated energy efficiency programs' costs for MEEIA
19	Cycle 2. For the same period, Ameren Missouri actually spent \$(13,513) on its energy
20	efficiency programs. Thus, Ameren Missouri over-collected \$1,724,625 from its customers
21	during the Review Period for MEEIA Cycle 2 Program Costs. During this same Review Period,
22	Ameren Missouri billed customers \$158,132,632 to recover its estimated energy efficiency
23	programs' costs for MEEIA Cycle 3. For the same period, Ameren Missouri actually spent
24	\$146,945,593 on its energy efficiency programs. Thus, Ameren Missouri over-collected
25	\$11,187,039 from its customers during the Review Period for MEEIA Cycle 3 program costs.
26	The monthly amounts that are either over- or under-collected from customers are tracked in a
27	regulatory asset account, along with monthly interest, until Ameren Missouri files for rate

³³ 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, 1st Revised Sheet No. 91.23 in Case No ER-2021-0158, 2nd Revised Sheet No. 91.23 in Case No. ER-2022-0146, and 3rd Revised Sheet No. 91.23.

adjustments under its Rider EEIC and new energy efficiency investment rates are approved by
 the Commission. The interest associated with these over- or under-collected amounts are
 provided in Section V of this Report.

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2. Summary of Cost Implications

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

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3. Conclusion

9 Staff found no indication that Ameren Missouri has acted imprudently regarding the 10 calculation of the estimated billed program costs related to the cost recovery of its MEEIA 11 program costs. The monthly amounts that were over- or under-collected from customers are 12 tracked in a regulatory asset account, along with monthly interest, and will be reflected in a 13 future Ameren Missouri rate adjustment filing under its Rider EEIC.

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4. Documents Reviewed

- a. Ameren Missouri's 2016-2018 Energy Efficiency Plan;
- b. Ameren Missouri's 2019-2021 Energy Efficiency Plan;
- c. Approved MEEIA Energy Efficiency and Demand Side Management Programs Tariff Sheets;
 - d. EEIC Rider Case No. ER-2023-0178; and
 - e. Staff Data Requests: 0001, 0002, 0003, and 0005.

Staff Expert: Brooke Mastrogiannis and Teresa Denney

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D. Throughput Disincentive Costs Billed and Actual

1. Description

According to Ameren's current tariff, Throughput Disincentive (TD) means to represent the utility's lost margins associated with the successful implementation of MEEIA programs.³⁴ For a utility that operates under a traditional regulated utility model, a "throughput incentive" is created when a utility's increase in revenues is linked directly to its increase in sales. This

³⁴ Tariff MO P.S.C. Schedule No. 6, 2nd revised, Sheet No. 91.1.

relationship between revenues and sales creates a TD, when the utility engages in any activity
 that would decrease sales, such as utility sponsored energy efficiency programs. The TD allows
 the utility to recover its lost margin revenues associated with the successful implementation of
 the MEEIA programs.

5 Ameren Missouri calculates TD monthly based upon all end use measures installed during the month and the savings associated with each installed measure. For Cycle 2, the 6 7 TD calculation is prescribed in the Rider EEIC where $TD = MS \times NMR \times NTGF^{35}$. 8 Staff reviewed the various components of the TD calculation for the accuracy and proper 9 timing of measure counts. TD is also billed to customers through the "Energy Efficiency 10 Investment Charge" line item on the customers' bill by combining net program cost with 11 net throughput disincentive (\$/kWh) rates as prescribed in Ameren Missouri's Rider EEIC. 12 For Cycle 2, TD is taken from each cumulative TD calculation file, so that any difference to 13 previous months' TD is captured in the current month's over/under accounting if there was a 14 correction made to a prior month. During the Review Period, Ameren Missouri billed 15 customers \$(4,067,988) for the Cycle 2 estimated Company TD. The actual Company TD for 16 Cycle 2 during the Review Period was \$564,441. Of this actual Company TD, \$564,441 17 was from the Long Lead TD, and \$0.00 was from the Non-Long Lead TD. The total cumulative TD for the entire Cycle 2 period to date is \$90,235,713³⁶. Thus, Ameren Missouri 18 19 under-collected \$(4,632,430) from its customers during the Review Period for Cycle 2 TD.

For Cycle 3, the TD calculation is prescribed in the Rider EEIC where $TD = MS \times NMR \times NTGF^{37}$. Cycle 3 TD is taken from each cumulative TD calculation file as described above. In addition, TD is summarized separately for plan years 2019, 2020, 2021 and 2022, and those four calculations are then combined. During the Review Period, Ameren Missouri billed customers \$47,524,271 for the Cycle 3 estimated Company TD. The actual company TD for Cycle 3 during the Review Period and the total cumulative TD for the entire Cycle 3 period was \$50,498,261. Thus, Ameren Missouri under-collected \$2,973,990 from its customers during the Review Period for Cycle 3 TD.

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³⁵ Throughput Disincentive = Monthly Savings x Net Margin Revenue x Net to Gross Factor. Union Electric Company Rider EEIC MO P.S.C. Schedule No. 6, Original Sheet No. 91.6.

³⁶ This total cumulative TD includes Cycle 2 Non-Long Lead TD and Long Lead TD.

³⁷ Throughput Disincentive = Monthly Savings x Net Margin Revenue x Net-to-Gross Factor. Union Electric Company Rider EEIC MO P.S.C. Schedule No. 6, Original Sheet No. 91.17.

1	As described in the TD calculation process above, at various times there are revisions
2	made to past months' TD. These revisions could reflect corrections to errors, updates to TD
3	calculation methodology, updates to program year savings, etc. As requested, Ameren Missouri
4	provided a monthly TD comparison file ³⁸ to explain historical changes in detail for each TD
5	cycle, including a description for each occurrence of revisions to the monthly TD from the
6	previous month. With this TD calculation comparison file, Staff was able to reconcile the
7	revisions made to past months' TD to the total cumulative TD for Cycle 2 and Cycle 3.
8	2. Summary of Cost Implications
9	If Ameren Missouri was imprudent in its tracking, reporting and/or calculating the
10	Company's estimated billed TD or actual TD cost, ratepayer harm could result in an increase
11	in future Energy Efficiency Investment Charge amounts.
12	3. Conclusion
13	Staff found no indication that Ameren Missouri has acted imprudently regarding the
14	calculation of the TD billed or the actual TD calculation related to the cost recovery of its
15	MEEIA TD costs or recovery of those costs.
16	4. Documents Reviewed
17	a. Ameren Missouri's 2016-2018 Energy Efficiency Plan;
18	b. Ameren Missouri's 2019-2021 Energy Efficiency Plan;
19	c. Ameren Missouri's MEEIA EEIC Rider, ER-2023-0178;
20	d. Approved MEEIA Energy Efficiency and Demand Side Management
21	Programs Tariff Sheets;
22	e. Ameren Missouri's Surveillance Monitoring Reports;
23	f. Direct Testimony of Antonio M. Lozano, Case No ER-2023-0178;
24	g. Rate Case No. ER-2021-0240; and,
25	h. Staff Data Requests: 0003, 0005, 0011, 0016, 0017, and 0018.
26	Staff Expert: Cynthia M. Tandy

³⁸ Data Request No. 0018.

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E. Demand Response

1. Description

The Business and Residential Demand Response Programs were new demand response programs starting in Ameren Missouri's MEEIA 2019 – 2021 Plan. The purpose of the Business and Residential Demand Response Programs is to proactively impact customer energy use in such a way as to reduce demand and/or energy.³⁹ The program season for which demand response events may be called is May through September.

The Business Demand Response Program is operated by a demand response aggregator to obtain energy and demand reductions from existing facilities by incentivizing customers to reduce energy usage through direct load control, manual response, and/or the use of behind the meter assets such as energy management systems or other properly permitted dispatchable assets. Customers can receive a demand reduction incentive based on their average demand reduction during the events of the program season. Customers can also receive an energy reduction incentive based on the energy reduction for each event. During the Review Period the maximum number of events per program season was ten and the minimum number of events per program season was two.

The Residential Demand Response Program obtains energy and demand reductions from residences that have installed program-eligible devices by incentivizing them to allow the Program Administrator to control their device's operation during peak events for demand reduction and non-peak periods for energy reduction. Participants receive incentives for participating in the program, which may include upfront enrollment incentives, an annual incentive, and an installation incentive. During the Review Period the maximum number of events per program season was ten and the minimum number of events per program season was three with at least one event per program season dispatching all participants.

In response to Staff Data Request No. 0027, Ameren Missouri stated that for the Residential Demand Response Program, the program can call either a peak shaving event or a "test" event. Peak shaving events are triggered by Ameren Missouri when the forecasted day ahead peak demand exceeds 99% of the forecasted annual peak load. Test events are ideally called when the day-ahead temperature at the St. Louis Lambert International Airport is

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³⁹ MO P.S.C. Schedule No. 6 1st Revised Sheet No. 247.

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1 forecasted to equal or exceed 95 degrees Fahrenheit. The Business Demand Response Program 2 is contractually bound to five emergency demand response events triggered per MISO MaxGen 3 Event Stage 2 criteria and five peak shaving events when the day-ahead forecasted daily peak 4 demand exceeds 99% of forecasted annual summer peak demand limited to two events across 5 two consecutive days. Two "test" events are allowed in absence of emergency or peak events after August 15th and before September 30th. 6

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In response to Staff Data Request No. 0028, Ameren Missouri stated:

The business DR program called seven (7) events during the review period - four (4) in 2021 and three (3) in 2022. The residential demand response program called a total of fourteen events during the review period - five in the 2021 event season and nine in 2022. The number of events called during this period is that permitted by the terms of the tariff and Stipulation and Agreement, and in accordance with implementer contracts and program design. While the residential program allowed for up to ten events per event season and business allowed for up to ten in 2021 and 15 in 2022, the number of events which are actually called is governed by 1) business demand response need to reserve five events for 2021 and 10 for 2022 for the ability to respond to potential MISO emergency events, to ensure the program meets the minimum qualifications under the MISO tariff to permit an offset against the Company's planning reserve requirement; 2) event triggering criteria that the day ahead forecast be at least 99% of the forecasted annual peak demand; 3) Business demand response contractual maximum of two test events per event season; 4) a minimum of two business events required by tariff; 5) and two residential event filing elements - in 2021 a minimum of three residential events required by tariff and in 2022 the maximum number of qualifying residential demand response events (8) for the purpose of earnings opportunity. An additional two residential test events were called in 2021 and one additional in 2022 for operational purposes. As the residential program had already been dispatched the minimum three events per event season and additional triggering events did not occur, no justification for calling additional events existed.

Staff would additionally note that for PY23 Ameren Missouri will conduct a max of 15 residential demand response events. No more than ten events will qualify for the earnings opportunity performance bonus and no more than five test events will be included for the earnings opportunity performance bonus unless additional test events above the first five test events are specifically called for locational demand purposes or off-peak capability such as 38 during a winter peaking period.

1 2. Summary of Cost Implications 2 If Ameren Missouri was imprudent in its decisions to call demand response events, 3 ratepayer harm could result in an increase in future Energy Efficiency Investment Charge 4 amounts and Fuel and Adjustment Clause amounts. 5 3. Conclusion 6 Staff found no indication that Ameren Missouri acted imprudently in its decisions to 7 call, or not to call, demand response events for this Review Period. Ameren Missouri's demand 8 response programs are new to its MEEIA 2019 – 2021 Plan. Ameren Missouri has specific 9 protocols in place for if, and when, it will call demand response events. 10 4. Documents Reviewed 11 a. Ameren Missouri's 2019-2021 Energy Efficiency Plan; 12 b. Approved MEEIA Energy Efficiency and Demand Side Management 13 Programs Tariff Sheets; 14 c. Staff Data Requests: 0026, 0027, and 0028. 15 Staff Expert/Witness: Jordan T. Hull IV. 16 **GROSS ANNUAL ENERGY AND DEMAND SAVINGS (kWh and kW)** 17 1. Description 18 The purpose of Ameren Missouri's energy efficiency programs is for customers to use 19 less energy and therefore everything else being equal reduces the need for more generation. In 20 the 2019 Stipulation, Ameren Missouri planned for cumulative annual energy savings of 1,275,507,000 kWh and demand savings of 572,080 kW⁴⁰ for MEEIA Cycle 3. On August 5, 21 22 2020, the Commission issued its Order Approving Stipulation and Agreements approving 23 additional modifications for Cycle 3 regarding the implementation of certain MEEIA programs 24 through PY22, which added a new Pay As You Save program starting in PY21 and continuing 25 through PY22. On October 27, 2021, the Commission issued its Order Approving Stipulation 26 and Agreement Regarding MEEIA Plan Year 2023, Approving Tariff Sheet, and Granting

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Variances extending MEEIA Cycle 3 through 2023.

⁴⁰ These savings were updated on October 27, 2021. The 2019 Stipulation planned energy savings was 793,970,000 kWh and demand savings of 360,800 kW.

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In the 2016 Stipulation, Ameren Missouri planned for cumulative annual energy savings of 570,980,000 kWh and demand savings of 166,642 kW for MEEIA Cycle 2. However, for the Review Period, Ameren Missouri planned for no annual energy or demand savings for MEEIA Cycle 2, and it planned for cumulative annual energy savings of 583,875,454 kWh and demand savings of 257,520 kW for MEEIA Cycle 3⁴¹. For the Review Period for MEEIA Cycle 3, Ameren Missouri reported actual gross energy and demand savings based upon installed measures of 601,314,357 kWh and 203,954 kW, respectively. During the same Review Period for MEEIA Cycle 2, Ameren Missouri reported actual gross energy and demand savings based upon installed measures of 3,429,447 kWh and 910 kW, respectively. Ameren Missouri monetizes the actual energy savings through its TD calculation as discussed earlier.

11 Achieved cumulative deemed annual energy and demand savings relative to the planned 12 cumulative annual energy and demand savings for the same period is important to 13 understanding the overall performance of Ameren Missouri's energy efficiency programs. 14 Table 7A provides a comparison of achieved savings and planned savings for Ameren 15 Missouri's residential and business programs specifically for MEEIA Cycle 3 for the Review Period. If Ameren Missouri was unable to achieve its planned energy and demand savings 16 17 levels, that could be an indication the programs were not being prudently administered by the 18 implementers and by Ameren Missouri.

19 The results in Table 7A⁴² below indicate that Ameren Missouri exceeded its plan for 20 cumulative deemed annual energy savings by 3%⁴³ during the Review Period of Ameren 21 Missouri's MEEIA 2019-2021 Plan. Table 7B provides a comparison of achieved savings and 22 planned savings for Ameren Missouri's residential and business programs specifically for 23 MEEIA Cycle 2 for the Review Period. There were only achieved annual energy savings for 24 Cycle 2 Long-Lead projects, so Cycle 2 Non Long-Lead projects are not show in the 25 following tables:

⁴¹ Data Request No. 0020.

⁴² Tables 7Å and 7B were created from Data Request No. 0020.

⁴³ This calculation derived from the total variance divided by the total planned energy savings (kWh).

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MEEIA 3 Cycle 3 Totals (kWh & kW) October 1, 2020 through September 30, 2022 Achieved Annual Planned Annual **Planned Annual** Achieved **Energy Savings** Annual Demand Demand Savings **Energy Savings** (kWh) **MEEIA Programs** (kWh) Variance Savings (kW) (kW) Variance Appliance Recycling 1.970.894 5.426.405 (3,455,511) 293 781 (488)6,935 **Efficient Products** 18,715,392 24,312,803 (5,597,411) 7,396 462 1.883 663 **Energy Efficient Kits** 10,254,313 6.485.258 3,769,055 1.220 (9,945,500) (9,945,500) (4,635) -(4, 635)Home Energy Report (13,068,928) HVAC 78,378,316 91,447,244 53,395 49,937 3,458 150,434,202 22,523,482 127,910,720 23,085 19,724 Lighting 3,362 12,894,456 10,407,638 3,807 (32) Multifamily Income Eligible 2,486,818 3.840 8,662,880 (2,299,190)(1,278) Multifamily Market Rate 6,363,690 1,554 2,832 Res Demand Response 2,193,169 3,774,614 (1,581,445) 17,109 32,258 (15, 149)Single Family Income Eligible 2,677,128 7,736,087 (5,058,959) 1,253 2,469 (1, 215)Single Family Income Eligible- Grants 5,096,266 6,905,518 (1,809,252) 1,043 1,031 13 Pay As You Save 1,429,748 10,918,161 (9,488,413) 768 5,089 (4, 320)**HVAC Extension** 4,809,550 4,809,550 3,039 3,039 -Targeted Community Lighting 1,370,757 423,535 947,222 213 63 149 110.204 389 **Total Residential Programs** 286,642,381 199,023,624 87,618,757 109.815 **Business Social Services** 2,113,530 6,723,739 (4,610,209) 398 1,550 (1,152) 77,224,586 (106, 508, 186)31,269 (22, 432)183,732,772 53,702 Custom **New Construction** 65,349,698 15,150,396 50,199,302 20,869 4,021 16,849 **Retro-Commissioning** 12,872,749 20,849,591 (7,976,842) 5,367 7,647 (2,280) Small Business Direct Install 2,085 11,005,509 23,586,764 (12,581,255) 4,146 (2,060)9,489 Standard 146,661,428 133,808,568 12,852,860 36,128 26.640 -Strategic Energy Management -_ ---**Biz Demand Response** (555, 525)(1,555,525)(2,367) 50.000 (52.367) 1.000.000 **Total Business Programs** 314,671,975 384,851,830 93,750 147,705 (53, 955)(70,179,855) Total Portfolio 601,314,356 583,875,454 17,438,902 203,954 257,520 (53,566)

Table 7A

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[M	EIA 2			
Cycle	2 Long Load Tota	als (kWh & kW) O		hrough Sontomh	or 20, 2022	
MEEIA Programs	Achieved Annual Energy Savings (kWh)	Planned Annual Energy Savings (kWh)	Variance	Achieved Annual Demand Savings (kW)	Planned Annual	Variance
Lighting	-	-	-	-	-	-
Efficient Products	-	-	-	-	-	-
HVAC	-	-	-	-	-	-
Smart Thermostats	-	-	-	-	-	-
Low Income	-	-	-	-	-	-
EE Kits	-	-	-	-	-	-
Home Energy Reports	-	-	-	-	-	-
Total Residential Programs	-	-	-	-	-	-
Standard	1,636,352	-	1,636,352	311	-	311
Custom	167,365	-	167,365	101	-	101
Retro-Commissioning	-	-	-	-	-	-
New Construction	1,625,730	-	1,625,730	498	-	498
SBDI	-	-	-	-	-	-
Cust Ext Lighting	-	-	-	-	-	-
Total Business Programs	3,429,447	-	3,429,447	910	-	910
Total Portfolio	3,429,447	-	3,429,447	910	-	910

Table 7B

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In previous MEEIA prudence reviews of Ameren Missouri's MEEIA Cycle 2 Plan, Staff
noted an issue with the reporting kWh values. The following notation was made between Staff
and OPC with Ameren Missouri that a reconciliation explanation and detail would be provided:

Ameren Missouri shall modify its process to eliminate timing differences between its sources for reporting information. The Company will implement processes so that retroactive adjustments are not made to the previous month's results. If differences occur among the sources of reporting information, Ameren Missouri shall provide reconciliations to explain the nature of the differences among the sources of information.

12 Staff requested in Data Request No. 0020 that Ameren Missouri perform a detailed 13 reconciliation in an effort to determine the most accurate determination of energy savings 14 associated with the MEEIA Plan for the Review Period. Staff notes that the Company provided 15 the following sources of information for the total energy savings (kWh): a reconciliation 16 provided in Data Request No. 0020, the tracking system reports (included with Data Request

No. 0010)⁴⁴, the TD calculation spreadsheets (included with Data Requests Nos. 0016 and 1 2 0018), and the SMRs. The sources provided in Data Request No. 0020, the tracking system 3 reports, and the TD calculation spreadsheets provided in Data Request No. 0016 reconcile with 4 each other. The Company explained that the SMRs are based on a snapshot in time when the 5 reports were created and are fluid documents due to savings adjustments that can be made to previous months. Staff and Ameren Missouri had discussions in regard to submitting any 6 7 changes to the SMRs at the time of any adjustment, so Staff would be aware of any changes 8 prior to the next prudence review. Ameren Missouri has agreed that going forward they will 9 provide a more granular savings tracking report for deemed savings.

When comparing the kWh values provided in Data Request No. 0020 and the SMRs, there was a discrepancy in the 3rd quarter of 2021, in the 12 month ended total, solely for Home Energy Reports ("HER"). HER values were initially communicated as reflecting the correct counting method of paper reports mailed in a current month, but was discovered that the report counts reflected an incorrect method of growing number of customers who received a paper report in the plan year. This was updated once it was discovered, and was reflected correctly in the SMRs after the 3rd quarter of 2021.

17 Once the HER adjustment as explained above was reflected correctly in the SMR after the 3rd guarter of 2021, all sources reflect a cumulative total of 601,314,357 kWh and 18 19 203,954 kW for MEEIA Cycle 3 and 3,429,447 kWh and 910 kW for MEEIA Cycle 2 during 20 the Review Period. As stated above, the cumulative totals from the SMRs reflect the most up 21 to date revisions. Staff was able to verify these amounts in the reconciliation provided in 22 Data Request No. 0020, the tracking system reports (included with Data Request No. 0010), 23 and the TD calculation spreadsheets (included with Data Request No. 0016) for MEEIA 2 and 24 MEEIA 3 kWh.

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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 ratepayer harm could result in an increase in future Energy Efficiency Investment Charge amounts.

⁴⁴ Staff chose a sample of program measures and compared the kWh savings as reported in the Company details to the measure savings as reported in the TRM and subsequent updates to the TRM.

1	3. Conclusion
2	Staff found no indication that Ameren Missouri has acted imprudently regarding the
3	calculation of the energy savings.
4	4. Documents Reviewed
5	a. Ameren Missouri's 2016-2018 Energy Efficiency Plan and Technical
6	Resource Manual;
7	b. Ameren Missouri's 2019-2023 MEEIA Energy Efficiency Plan and
8	Technical Resource Manual;
9	c. Stipulations and Agreements in Cases Nos. EO-2015-0055 and
10	EO-2018-0211;
11	d. Approved MEEIA Energy Efficiency and Demand Side Management
12	Programs Tariff Sheets;
13	e. Ameren Missouri's Surveillance Monitoring Reports;
14	f. Phone conversation with Ameren on reconciliation report;
15	g. Staff Data Requests: 0001, 0013, and 0020; and,
16	h. Reports pulled from TRC and Franklin Energy's database tracking system.
17	Staff Expert: Cynthia M. Tandy
18	V. INTEREST
19	1. Description
20	Staff reviewed the interest calculations for program costs and throughput disincentive,
21	broken out by rate class, as provided in Ameren Missouri's response to Data Request No. 0005
22	for the Review Period of October 1, 2020 through September 30, 2022. Ameren Missouri's
23	tariff sheets provide that for program costs and TD: "Such amounts shall include monthly
24	interest charged at the Company's monthly short-term borrowing rate." Staff verified the
25	Company's average monthly short-term borrowing rates were applied correctly (except what is
26	explained in the paragraph below) to the over- or under-recovered balances for program costs
27	and TD. Ameren Missouri calculates interest associated with TD by each rate class.
28	During Staff's review of the Company's average monthly short-term borrowing rates,
29	Staff discovered the rate used for December 2020 was incorrect. Staff sent Data Request
No. 0005.1 to get more information on the interest rate used. Ameren Missouri responded: "The incorrect rate for this month was used in the over/under calculation (i.e. the AMC rate instead of the UEC rate). Accordingly, we have a proposed combined MEEIA 2 and MEEIA 3 adjustment of (\$507.36), which will be recorded as part of January 2023 GL." Staff reviewed the supporting work papers for the interest adjustment provided in this response, and verified the adjustment was made with the correct December 2020 interest rate.

7 During the Review Period Ameren Missouri's total for the interest amount accrued for8 the Company's program costs were as follows:

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INTEREST						
	For Review Period October 1, 2020 through September 30, 2022	(Over)/ Under Billed			Cumulative Interest	(Over)/ Under Billed
MEEIA Cycle 2	\$ 40	Under		\$	259,388	Over
MEEIA Cycle 3	\$ 194,252	Over		\$	185,275	Over
TD Cycle 2	\$ 13,460	Over		\$	36,480	Over
TD Cycle 3	\$ 32,604	Under		\$	21,506	Under

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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.

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3. Conclusion

Staff found no indication that Ameren Missouri's interest calculations were incorrect after they made an adjustment for December 2020 with the correct interest rate, and found them reasonable; therefore, Staff found no indication that Ameren Missouri acted imprudently regarding the calculation of the interest.

1 4. Documents Reviewed 2 a. Ameren Missouri's Quarterly Surveillance Monitoring Reports for Review 3 Period; b. Approved MEEIA Energy Efficiency and Demand Side Management 4 5 Programs Tariff Sheets; and, c. Staff Data Requests: 0003, 0005 and 0011. 6 7 Staff Expert: Amy L. Eichholz 8 VI. **EARNINGS OPPORTUNITY (EO)** 9 1. Description Ameren Missouri's EO is designed to provide a substitute for earnings lost on physical 10 11 plant that was not built by Ameren Missouri because of the energy and demand savings 12 achieved by Ameren Missouri's MEEIA programs. The MEEIA 2019-2021 Plan includes 13 annual targets, with EO payout amounts calculated for each Program Year. Ameren Missouri's 14 tariff sheet defines Earnings Opportunity Award Determination as: 15 An Earnings Opportunity Award shall be calculated for each Program 16 Year using the EO Calculator submitted with the MEEIA 2019-21 Plan 17 as Appendix N. The Earnings Opportunity Award will not go below zero 18 dollars (\$0). If Commission-approved new programs are added to the 19 Program, the Company may seek Commission approval to have the 20 targets and the cap of the Earnings Opportunity Award adjusted. For 21 each Program Year the Earnings Opportunity Award shall be adjusted 22 for the difference, with carrying cost at the Company's monthly 23 short-term interest rate, between TD revenues billed resulting from the 24 application of the EEIR and what those revenues would have been if: 25 1) the ME used in the calculation were the normalized savings for each 26 Measure at customer meter per Measure determined through EM&V ex-27 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.⁴⁵ 28 29 Staff reviewed the Cycle 2 and Cycle 3 EO from the calculations provided in response to Data Request No. 0017 and the calculations in the EEIC Riders in dockets ER-2020-0147,

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⁴⁵ 3rd Revised Sheet No. 91.21. Ameren Missouri's previous tariff sheets that defines EO are attached to this report in Attachment A and B.

ER-2021-0158, and EO-2022-0146 for the months in this Review Period⁴⁶. During this review,
 Staff was able to verify that Ameren Missouri did not recover more than its approved EO for
 Cycle 2 and Cycle 3. During this Review Period, the Cycle 2 total EO recovered was
 \$29,438,135, and the Cycle 3 EO recovered was \$13,550,462.

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2. Summary of Cost Implications

6 If Ameren Missouri was imprudent in its reporting and/or calculation of the EO,
7 ratepayer harm could result in an increase in future EEIC Charge amounts.

3. Conclusion

Staff has verified that Ameren Missouri has not recovered earnings opportunity in excess of the amounts awarded.

- 4. Documents Reviewed
 - a. Ameren Missouri's 2016-2018 Energy Efficiency Plan;
 - b. Ameren Missouri's 2019-2021 Energy Efficiency Plan;
 - c. Ameren Missouri Tariff Sheet 91.16 and 91.21;
 - d. Ameren Missouri Cycle 3 Stipulation and Agreement;
 - e. EEIC Rider filings EO-2020-0147, EO-2021-0158, and EO-2022-0146; and,
 - f. Staff Data Requests: 0003, 0011, and 0017.
- 18 Staff Expert: Brooke Mastrogiannis

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1. Description

In the MEEIA 2019-2021 Plan, Ameren Missouri agreed⁴⁷ 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

VII. EVALUATION MEASUREMENT AND VERIFICATION (EM&V)

⁴⁶ In Case No. ER-2020-0147 the effective dates were February 2020 through January 2021, which is 4 months of this Review Period (October 2020 through January 2021). In Case No. ER-2021-0158 the effective dates were February 2021 through January 2022, which is 12 months of this Review Period. In Case No. ER-2022-0146 the effective dates were February 2022 through January 2023, which is 8 months of this Review Period (February 2022 through September 2022).

⁴⁷ Stipulation and Agreement approved by the Commission on June 25, 2021, Paragraph 2 reference to the Revised Ameren Missouri's 2019-21 Energy Efficiency Plan.

Missouri's evaluators filed eight evaluation reports: four for PY2020 and four for PY2021.48 Ameren Missouri submitted the "PY 2020 EM&V" report on June 11, 2021. On September 23, 2021, the Commission issued its Order Approving Stipulation and Agreement, which approved the resolutions to the issues raised in the PY 2020 EM&V report. Ameren Missouri submitted the "PY 2021 EM&V" report on June 22, 2022 and June 28, 2022. On August 3, 2022, the Commission issued its Order Accepting EM&V Program Year 2021 Report, which accepted the EM&V and audit reports for PY 2021. The cost of EM&V work performed by Ameren Missouri's independent evaluator for the Review Period for Cycle 3 is \$4,440,541.

Ameren Missouri contracted with Opinion Dynamics Corporation (Opinion) to be the evaluator for the Cycle 3 programs. Ameren Missouri holds back or retains 5% of the total amount of each invoice submitted by Opinion. The 5% retainage will be payable after Opinion submits an acceptable and timely final annual report, unless issues are identified that result in forfeiture of the retainage amount. Therefore, only 95% of the invoices submitted are paid and reflected in the transactions that Staff reviewed. Staff requested from Ameren Missouri, copies of the EM&V evaluators' invoices. EM&V invoices submitted by Ameren Missouri reflected the entire 100% invoice total, including the 5% retainage portion. Staff was able to verify the recording of invoices at 95% of the total invoiced amount in the responses provided to Data Request Nos. 0003 and 0009.

Ameren Missouri contracted with ADM to perform impact measurement and verification ("IM&V") of the MEEIA Cycle 2 Long Lead Projects and to provide the results in two annual reports. The first annual report was submitted in May 2020, for the period of March 2019 through February 2020. The second annual report was submitted in June 2021, for the period of October 2020 through September 2021. The cost of impact measurement and verification work performed by ADM for the Review Period for Cycle 2 Long Lead Projects is \$19,538.

Commission rules allow Ameren Missouri to spend up to 5% of its total program costs budget for EM&V.⁴⁹ During the Review Period, Ameren Missouri expended \$19,538 for Cycle 2 EM&V. This amount, combined with the \$6,635,863 EM&V Cycle 2 cumulative costs

⁴⁸ The ten evaluation reports are provided in response to Data Request No. 0006 and Case No EO-2018-0211 Item Nos. 155, 204, and 206.

⁴⁹ 20 CSR 4240-20.093(8)(A) Each utility's EM&V budget shall not exceed five percent (5%) of the utility's total budget for all approved demand-side program costs.

reported previously, amounts to \$6,655,401 or 4.08% of the \$163,190,000 total Cycle 2 budget for program costs. Thus, the costs associated with the Cycle 2 EM&V costs did not exceed the 5% maximum cap. During the Review Period, Ameren Missouri expended \$4,440,541⁵⁰ for Cycle 3 EM&V, which represents 2.82% of the \$351.57 million total Cycle 3 budget for programs' costs. Thus, the costs associated with the Cycle 3 EM&V costs did not exceed the 5% maximum cap. Staff will continue to monitor EM&V costs throughout the life of Cycle 3, to ensure Ameren Missouri does not exceed the 5% maximum cap of the total Cycle 3 budget.

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2. Summary of Cost Implications

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

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3. Conclusion

Staff found no indication that Ameren Missouri acted imprudently regarding the
administration of EM&V contracts concerning its Cycle 3 EM&V for the review period.

14 4. Documents Reviewed 15 a. Ameren Missouri's 2016-2018 Energy Efficiency Plan; 16 b. Ameren Missouri's 2019-2021 Energy Efficiency Plan; 17 c. Ameren Missouri Cycle 3 Stipulation and Agreement, EO-2018-0211; d. Approved MEEIA Energy Efficiency and Demand Side Management 18 19 Programs Tariff Sheets; 20 e. Staff Report, Case No. EO-2019-0376, Second Prudence Review of Cycle 2 21 of Costs Related to the Demand-Side Programs Investment Mechanism; 22 f. Staff Report, Case No. EO-2021-0157, First Prudence Review of Cycle 3 of 23 Costs Related to the Demand-Side Programs Investment Mechanism; 24 g. Opinion Dynamics invoices; 25 h. ADM invoices; and,

⁵⁰ This number does not match the EM&V total from Table 2 because there are entries coded in the general ledger under vendor name as "N/A". As stated in Data Request No. 0009.3, "These are for accruals made during each monthly close cycle to estimate the expense incurred during the period, and they automatically reverse the following month to coincide with the receipt of actual invoiced amounts." Staff has verified the amounts listed here do match the invoices provided in Data Request No. 0009.

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 i. Staff Data Requests: 0002, 0003, 0006, 0007, 0008, 0009, 0009.1, 0009.2,

 2
 0009.3 and 0011.
- 3 Staff Expert: Amanda C. Conner
- 4 See attached Attachment A and B and Confidential Attachment C and D

	MO.P.S.C. SCHEDULE NO. 6	2nd Revised	SHEET NO.	91
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CANCELLING MO.P.S.C. SCHEDULE NO. 6

1st Revised

SHEET NO. 91

APPLYING TO

MISSOURI 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 <u>myhomeamerenmissouri@ameren.com</u>, or via regular mail to <u>Ameren</u> Missouri, P.O. Box 790098, St. Louis, MO 63179-0098

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 lowincome 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. FILED Those charges include Missouri Public Social Commission

Service Commission JE-2020-0023

DATE OF ISSUE _	August 2, 2019	DATE EFFECTIVE	,,
ISSUED BY	Michael Moehn	President	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS
			EO 2022 0190 A44a ahman4 A Daga 1 af 11

EO-2023-0180, Attachment A, Page 1 of 11

MO.P.S.C. SCHEDULE NO. 6

CANCELLING MO.P.S.C. SCHEDULE NO. 6

2nd Revised SHEET NO. 91.1

1st Revised

SHEET NO. 91.1

APPLYING TO

MISSOURI SERVICE AREA

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

APPLICABILITY (Cont'd.)

- 1) Program Costs, Company's Throughput Disincentive ((TD) and Earnings Opportunity (EO) Award (if any) for each Effective Period (EP)
- 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) months beginning with February and ending with January. 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 month of June or October and end the subsequent January.

"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. Missouri Public

Service Commission ER-2020-0147; YE-2020-0090

*Indicates Change.

DATE OF ISSUE	November 22, 2019	DATE EFFECTIVE	February 1, 2020
ISSUED BY	Michael Moehn	President	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS

EO-2023-0180, Attachment A, Page 2 of 11

MO.P.S.C. SCHEDULE NO. 6

CANCELLING MO.P.S.C. SCHEDULE NO. 6

2nd Revised SHEET NO. 91.2

1st Revised SHEET NO. 91.2

APPLYING TO

MISSOURI SERVICE AREA

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-togross 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. E0-2012-0142 and its corresponding tariff sheets.

"MEEIA 2016-18 Plan" means Company's "2016-18 Energy Efficiency Plan" submitted in File No. E0-2015-0055 and modified by the Stipulation.

"Programs" means MEEIA 2016-18 programs listed in tariff sheet no. 174.

*Indicates Reissue. **Indicates Addition.

"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.

FILED Missouri Public Service Commission EO-2015-0055; YE-2017-0275

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

EO-2023-0180, Attachment A, Page 3 of 11

MO.P.S.C. SCHEDULE NO. 6

CANCELLING MO.P.S.C. SCHEDULE NO.

APPLYING TO

MISSOURI SERVICE AREA

RIDER EEIC ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.)

Original SHEET NO. 91.3

SHEET NO.

FILED Missouri Public

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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:

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.

			Service Commission EO-2015-0055; YE-2016-0198
DATE OF ISSUE	February 5, 2016	DATE EFFECTIVE	March 6, 2016
ISSUED BY	Michael Moehn	President	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS EO-2023-0180, Attachment A, Page 4 of 11

MO.P.S.C. SCHEDULE NO. 6

CANCELLING MO.P.S.C. SCHEDULE NO.

Original SHEET NO. 91.4

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.

FILED Missouri Public Service Commission EO-2015-0055; YE-2016-0198

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

EO-2023-0180, Attachment A, Page 5 of 11

MO.P.S.C. SCHEDULE NO. 6

CANCELLING MO.P.S.C. SCHEDULE NO.

_____ ____

Original SHEET NO. 91.5

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 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.

FILED Missouri Public Service Commission EO-2015-0055; YE-2016-0198

DATE OF ISSUE	February 5, 2016	DATE EFFECTIVE	March 6, 2016
ISSUED BY	Michael Moehn	President	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS
			EO-2023-0180, Attachment A, Page 6 of 11

MO.P.S.C. SCHEDULE NO. 6

CANCELLING MO.P.S.C. SCHEDULE NO.

MISSOURI SERVICE AREA

SHEET NO.

Original SHEET NO. 91.6

APPLYING TO

RIDER EEIC 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:

$TD = MS \times NMR \times NTGF$

Where:

- = Throughput Disincentive, in dollars, to be collected for a given month, ТD 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:

- 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.
 - ΜE = 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).

FIL FD Missouri Public Service Commission EO-2015-0055; YE-2016-0198

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ISSUED BY	Michael Moehn	President	St. Louis, Missouri
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		I	EO-2023-0180, Attachment A, Page 7 of 11

MO.P.S.C. SCHEDULE NO. 6

CANCELLING MO.P.S.C. SCHEDULE NO. 6

2nd Revised 1st Revised

 SHEET NO.
 91.7

 SHEET NO.
 91.7

APPLYING TO

MISSOURI SERVICE AREA

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

TD DETERMINATION (Cont'd.)

- a. 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:

	Service Classifications				
Month	1 (M) Res	2 (M) SGS	3(M)LGS	4 (M) SPS	11 (M) LPS
	\$/kWh	\$/kWh	\$/kWh	\$/kWh	\$/kWh
January	0.041430	0.045700	0.034588	0.035639	0.028725
February	0.042148	0.045551	0.035551	0.036287	0.031331
March	0.044040	0.048054	0.036561	0.036895	0.030147
April	0.045920	0.050473	0.037263	0.036579	0.030010
Мау	0.048148	0.052224	0.038191	0.038374	0.031032
June	0.103081	0.089681	0.077969	0.078589	0.056455
July	0.103081	0.089681	0.076643	0.077954	0.058907
August	0.103081	0.089681	0.076994	0.078763	0.057650
September	0.103081	0.089681	0.077319	0.078028	0.058389
October	0.045144	0.050437	0.037248	0.037245	0.031531
November	0.048189	0.051888	0.037606	0.037399	0.031034
December	0.043856	0.048895	0.035990	0.036578	0.029560

FILED Missouri Public Service Commission ER-2018-0362; YE-2019-0004

* Indicates Change.

DATE OF ISSUE	July 16, 2018	DATE EFFECTIVE	August 1,2018 August 15, 2018
ISSUED BY	Michael Moehn	President	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS

EO-2023-0180, Attachment A, Page 8 of 11

MO.P.S.C. SCHEDULE NO. 6

CANCELLING MO.P.S.C. SCHEDULE NO. 6

1st Revised SHEET NO. 91.8

Original SHEET NO. 91.8

FILED Missouri Public

APPLYING TO

MISSOURI 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.

*Indicate	es Change. **Indicates Ado	dition.	Service Commission EO-2015-0055; YE-2017-0275
DATE OF ISSUE	June 29, 2017	DATE EFFECTIVE	July 29, 2017
ISSUED BY	Michael Moehn	President	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS EO-2023-0180, Attachment A, Page 9 of 11

MO.P.S.C. SCHEDULE NO. 6

CANCELLING MO.P.S.C. SCHEDULE NO. 6

1st Revised SHEET NO. 91.9

Original SHEET NO. 91.9

APPLYING TO

MISSOURI SERVICE AREA

RIDER EEIC 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.

Performance Metric		Ameren Missouri							
		yout 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%	ş	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	s	7.50	\$/MWh	15.11%	s	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	\$/MW	71.22%	\$	19,800,000	140	150%	\$ 29,700,000
Number of Learning Thermostats Installed	\$	30.62	\$/Unit	1.80%	\$	500,000	16,331	150%	\$ 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

*EARNINGS OPPORTUNITY MATRIX

FILED Missouri Public Service Commission EO-2015-0055; YE-2017-0202

*Indicates Change

DATE OF ISSUE	April 18, 2017	DATE EFFECTIVE	May 18, 2017
ISSUED BY	Michael Moehn	President	St. Louis, Missouri
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		EC	D-2023-0180, Attachment A, Page 10 of 11

MO.P.S.C. SCHEDULE NO. 6 1st Revised SHEET NO. 91.10
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CANCELLING MO.P.S.C. SCHEDULE NO. 6

Original SHEET NO. 91.10

FILED **Missouri Public** Service Commission

APPLYING TO

MISSOURI SERVICE AREA

RIDER EEIC 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 application to the usage on and after the first day of the subsequent February. 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 the first day of June or October. 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 20 CSR 4240-20.093(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.

*Indicate	es Change.		Service Commission ER-2020-0147; YE-2020-0090
DATE OF ISSUE	November 22, 2019		February 1, 2020
ISSUED BY	Michael Moehn	President	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS EO-2023-0180, Attachment A, Page 11 of 11
			20-2025-0100, machinelle A, I age 11 01 11

CANCELLING MO.P.S.C. SCHEDULE NO. 6

Original SH

SHEET NO. 91.12

APPLYING TO

MISSOURI SERVICE AREA

RIDER EEIC ENERGY EFFICIENCY INVESTMENT CHARGE For MEEIA 2019-21 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 exempt 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 <u>myhomeamerenmissouri@ameren.com</u>, or via regular mail to <u>Ameren Missouri</u>, P.O. Box **790098**, St. Louis, MO 63179-0098

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 within 12 billing months following the documented receipt of energy assistance 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;
- c. Upon receipt of the documentation, for the remainder of the 12 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) 2019-21 Plan and any remaining unrecovered balances from the MEEIA 2016-18 Plan. Those charges include:

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DATE OF ISSUE _	August 2, 2019	DATE EFFECTIVE	September 1, 2019
ISSUED BY	Michael Moehn NAME OF OFFICER	President TITLE EO-20	St. Louis, Missouri ADDRESS 23-0180, Attachment B, Page 1 of 19

MO.P.S.C. SCHEDULE NO. 6

CANCELLING MO.P.S.C. SCHEDULE NO. 6

1st Revised SHEET NO. 91.13

Original

SHEET NO. 91.13

APPLYING TO

MISSOURI SERVICE AREA

RIDER EEIC ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.) For MEEIA 2019-21 Plan

APPLICABILITY (Cont'd.)

- 1) Program Costs, Company's Throughput Disincentive (TD) and Earnings Opportunity Award (if any) for each Effective Period (EP).
- 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 2019-21 Plan and/or remaining unrecovered Program Cost balances for MEEIA 2016-18;
 - ii) Company's TD incurred in the MEEIA 2019-21 Plan and/or remaining unrecovered TD balances for MEEIA 2016-18;
 - iii) Amortization of Earnings Opportunity Award ordered by the Missouri Public Service Commission (Commission) for the MEEIA 2019-21 Plan and/or remaining unrecovered EO balances for MEEIA 2016-18.
- 3) Any Ordered Adjustments.

Charges under this Rider EEIC shall continue after the anticipated December 31, 2021 end of the non-low-income portions of the MEEIA 2019-21 Plan and after December 31, 2024 for the low-income portion of the MEEIA 2019-21 Plan until such time as the charges described in items 1), 2), and 3) above have been billed. Any programs and/or balance associated with the low-income portions of the MEEIA 2019-21 Plan may be rolled into the recovery mechanism for an approved MEEIA program that commences in 2022.

Charges arising from the MEEIA 2019-21 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 previous MEEIA plans.

DEFINITIONS

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

"Deemed Savings Table" means a list of Measures derived from the Company's TRM that characterizes associated gross energy and demand savings with Company-specific Measure parameters where available, as outlined in Appendix F to the MEEIA 2019-21 Plan and updated as provided for herein based on EM&V ex-post gross adjustments.

"Earnings Opportunity Award" (EO) means the dollar amount calculated for each Program Year by the EO Calculator as described in the Earnings Opportunity Award Determination section below.

* "Effective Period" (EP) means the months for which an approved EEIR is to be effective, i. e., the twelve (12) months beginning with February and ending with January unless there is an additional Rider EEIC filing made to change the Energy Efficiency Investment Rate components during a calendar year, the EP for such a filing shall begin with the either June or October and end with the subsequent January.

"End Use Category" means the unique summary category of end-use load shapes. The FILED list of End Use Categories is included in Appendix G to the MEEIA 2019-21 Plan Missouri Public

Service Commission ER-2020-0147; YE-2020-0090

*Indicates Change.

DATE OF ISSUE	November 22, 2019	DATE EFFECTIVE	February 1, 2020
ISSUED BY	Michael Moehn	President	St. Louis, Missouri
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MO.P.S.C. SCHEDULE NO. 6

CANCELLING MO.P.S.C. SCHEDULE NO.

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SHEET NO. 91.14

FILED Missouri Public

SHEET NO.

APPLYING TO

MISSOURI SERVICE AREA

RIDER EEIC ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.) For MEEIA 2019-21 Plan

DEFINITIONS (Cont'd.)

"Incremental Internal Labor Cost and Associated Benefits" (IIL) means the labor costs and associated benefits of personnel 1) hired by Ameren Missouri after Commission approval of the MEEIA 2019-21 Plan that were (a) not hired to replace an Ameren Missouri or Ameren Services Company employee whose labor and benefit costs were accounted for in Ameren Missouri's prior general rate proceeding, (b) hired by Ameren Missouri and assigned exclusively to support Ameren Missouri's MEEIA Programs; and 2) were not an Ameren Missouri or Ameren Services Company employee whose labor and benefit costs were accounted for in Ameren Missouri's prior general rate proceeding.

"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.

"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.

"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 the same as defined in 4 CSR 240-20.092(1)FF.

"MEEIA 2016-18 Plan" means Company's "2016-18 Energy Efficiency Plan" approved in File No. EO-2015-0055.

"MEEIA 2019-21 Plan" means Company's "2019-21 MEEIA Energy Efficiency Plan" approved in File No. EO-2018-0211 as may be amended.

"Programs" means MEEIA 2019-21 programs listed in tariff sheet nos. 174 and 174.1.

"Program Costs" means any prudently incurred Program expenditures, including such items as Program planning, education Programs, Program design, administration, delivery, end-use Measures and Incentive payments, advertising expense, EM&V, market potential studies, work on a Company and/or statewide Technical Resource Manual, and IIL.

"Program Year" means the period of Programs that ends on December 31 of each year of the MEEIA 2019-21 Plan. The first Program Year will be 10 months long and each subsequent Program Year will be 12 months long.

"TRM" means the Company's Technical Resource Manual (attached as Appendices G-I to the MEEIA 2019-21 Plan) and updated based on EM&V *ex-post* gross adjustments.

			Service Commission EO-2018-0211; YE-2019-0	
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ISSUED BY	Michael Moehn	President	St. Louis, Missouri	
	NAME OF OFFICER	TITLE EO-20	ADDRESS 23-0180, Attachment B, Page 3 of 19	

MO.P.S.C. SCHEDULE NO. 6

CANCELLING MO.P.S.C. SCHEDULE NO.

SHEET NO.

SHEET NO. 91.15

Original

APPLYING TO

MISSOURI SERVICE AREA

RIDER EEIC ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.) For MEEIA 2019-21 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 2016-18 shall be rolled into the PCR calculation starting February 2022.
- 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 91.17.
- 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 2016-18 shall be rolled into the TDR calculation starting February 2024.

FILED Missouri Public Service Commission EO-2018-0211; YE-2019-0133

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MO.P.S.C. SCHEDULE NO. 6

CANCELLING MO.P.S.C. SCHEDULE NO.

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SHEET NO. 91.16

SHEET NO.

APPLYING TO

MISSOURI SERVICE AREA

RIDER EEIC ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.) For MEEIA 2019-21 Plan

EEIR DETERMINATION (Cont'd.)

NEO = Net Earnings Opportunity for the applicable EP as defined below,

NEO = EO + EOR

EO = Earnings Opportunity is equal to the sum of the monthly amortizations of each Program Year's Earnings Opportunity Award multiplied by the number of billing months in the applicable EP.

> A monthly amortization shall be determined by dividing each Program Year's Earnings Opportunity Award by 12. The monthly amortization of each Program Year's Earnings Opportunity Award will continue through each subsequent EEIR determination until such time that the total Earnings Opportunity Award for that Program Year has been fully amortized.

- EOR = Earnings Opportunity Reconciliation is equal to the cumulative difference, if any, between the EO revenues billed resulting from the application of the EEIR and the monthly amortization of the EO 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 EO balance from MEEIA 2016-18 shall be rolled into the EOR calculation starting February 2022.
- 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 EEIR 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.

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	NAME OF OFFICER	TITLE	ADDRESS
		EO-2	2023-0180, Attachment B, Page 5 of 19

MO.P.S.C. SCHEDULE NO. 6

CANCELLING MO.P.S.C. SCHEDULE NO.

Original

SHEET NO.

FILED Missouri Public Service Commission

APPLYING TO

MISSOURI SERVICE AREA

RIDER EEIC ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.) For MEEIA 2019-21 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 will be made in accordance with the MEEIA 2019-21 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.

TD DETERMINATION

Monthly TD is the sum of the TD calculation for all End Use Categories and Demand Response Event Net Energy (DRENE).

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

 $TD = MS \times NMR \times NTGF$

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:

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

Where:

 $\mbox{MAS}_{\mbox{\tiny CM}}$ = 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.

DATE OF ISSUE December 21, 2018 DATE EFFECTIVE January 20, 2019 ISSUED BY Michael Moehn President St. Louis, Missouri NAME OF OFFICER TITLE ADDRESS EO-2023-0180, Attachment B, Page 6 of 19

MO.P.S.C. SCHEDULE NO. 6

CANCELLING MO.P.S.C. SCHEDULE NO.

Original S

SHEET NO. 91.18

SHEET NO.

APPLYING TO

MISSOURI SERVICE AREA

RIDER EEIC ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.) For MEEIA 2019-21 Plan

TD DETERMINATION (Cont'd.)

ME = Measure Energy. ME will be determined as follows, for each Measure:

- a. For Measures in the Deemed Savings Table (including Residential Demand Response energy savings not included in DRENE_{CM}), the ME is the annual total of normalized savings for each Measure at customer meter per Measure defined in the Company's current Deemed Savings Table.
- b. For Measures not in the Deemed Savings Table, the ME will be the annual value attributable to the installations reported monthly by the Program administrator.
- CM = Current calendar month.
- CAS = Cumulative sum of MAS of all prior calendar months for each End Use Category for the MEEIA 2019-21 Plan.
- 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 2019-21 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 2019-21 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 (included in the MEEIA 2019-21 Plan).
- DRENE_{CM} = Demand Response Event Net Energy for the Current Month. DRENE_{CM} is the net energy savings resulting from demand response events during the month as reported by the program administrator consistent with TRM guidance. DRENE_{CM} incurred during the time period used for establishing billing determinants in general rate proceedings will be added back to those billing determinants and will not be included in the Rebasing Adjustment.

FILED Missouri Public Service Commission EO-2018-0211; YE-2019-0133

DATE OF ISSUE	December 21, 2018	DATE EFFECTIVE	January 20, 2019
ISSUED BY	Michael Moehn	President	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS
		EO	-2023-0180, Attachment B, Page 7 of 19

MO.P.S.C. SCHEDULE NO. 6 2nd Revised SHEET NO. 91

CANCELLING MO.P.S.C. SCHEDULE NO. 6

1st Revised SHEET NO. 91

APPLYING TO

MISSOURI SERVICE AREA

RIDER EEIC ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.) For MEEIA 2019-21 Plan

* TD DETERMINATION (Cont'd.)

NMR = Net Margin Revenue. NMR values for each applicable Service Classification and by End Use Category where applicable are as follows:

	Service Clas	ssifications
Month	1 (M) Res \$/kWh	2 (M) SGS \$/kWh
January	0.051041	0.055283
February	0.051569	0.055595
March	0.052598	0.057380
April	0.054791	0.063914
Мау	0.056398	0.068912
June	0.115657	0.099557
July	0.115657	0.099557
August	0.115657	0.099557
September	0.115657	0.099557
October	0.055871	0.063349
November	0.055909	0.063200
December	0.052723	0.059422

		C./AIR CON OCESS/MOTO		COOLING			EXT LIGHTING			
Month	ЗM	4M	11M	ЗM	4M	11M	ЗM	4M	11M	
January	0.037309	0.037862	0.029121	0.037989	0.038909	0.020648	0.029585	0.027383	0.022197	
February	0.037735	0.038270	0.028996	0.038844	0.039213	0.020648	0.029943	0.026421	0.022083	
March	0.038400	0.038303	0.030049	0.039697	0.039617	0.020648	0.030326	0.026467	0.020893	
April	0.039986	0.039909	0.029556	0.047394	0.049125	0.030579	0.031985	0.027631	0.021997	
Мау	0.041888	0.041752	0.031981	0.053057	0.059047	0.046979	0.032126	0.027195	0.020916	
June	0.078059	0.075856	0.053500	0.096769	0.100907	0.078361	0.052953	0.042217	0.023053	
July	0.073399	0.072593	0.053107	0.088381	0.090298	0.062687	0.049581	0.041651	0.022516	
August	0.075392	0.073981	0.054892	0.092608	0.095770	0.073023	0.050102	0.041998	0.023172	
September	0.074381	0.072086	0.055126	0.096898	0.101619	0.086083	0.051369	0.041888	0.023124	
October	0.040178	0.040322	0.035233	0.048348	0.052329	0.034047	0.031073	0.026916	0.020895	
November	0.040493	0.040530	0.033248	0.047795	0.045545	0.020648	0.031452	0.026819	0.020675	
December	0.038907	0.037974	0.031798	0.040001	0.041320	0.020648	0.030643	0.026338	0.020853	

*Indicate	es Change.		FILED Missouri Public Service Commission ER-2021-0240; YE-2022-0222
Issued p DATE OF ISSUE	ursuant to the Order of February 14,	in Case No. ER-202. DATE EFFECTIVE	 February 28, 2022
ISSUED BY	Mark C. Birk NAME OF OFFIC	& President TITLE EO-202	Louis, Missouri ADDRESS ttachment B, Page 8 of 19

MO.P.S.C. SCHEDULE NO. 6

CANCELLING MO.P.S.C. SCHEDULE NO. 6

1st Revised SHEET NO. 91.19

Original

SHEET NO. 91.19

APPLYING TO

MISSOURI SERVICE AREA

RIDER EEIC ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.) For MEEIA 2019-21 Plan

* TD DETERMINATION (Cont'd.)

NMR = Net Margin Revenue. NMR values for each applicable Service Classification and by End Use Category where applicable are as follows:

	Service Clas	ssifications
Month	1(M)Res \$/kWh	2 (M) SGS \$/kWh
January	0.044375	0.053661
February	0.045622	0.055252
March	0.047230	0.057794
April	0.047618	0.058522
May	0.049702	0.061238
June	0.104792	0.090992
July	0.104792	0.090992
August	0.104792	0.090992
September	0.104792	0.090992
October	0.046772	0.059083
November	0.049328	0.060646
December	0.046037	0.056723

		C./AIR CON OCESS/MOTO			COOLING		E	XT LIGHTIN	IG
Month	ЗM	4M	11M	ЗM	4M	11M	ЗM	4M	11M
January	0.032900	0.032612	0.026759	0.025861	0.023079	0.018069	0.025881	0.024801	0.019697
February	0.033629	0.033309	0.027253	0.026528	0.023200	0.018069	0.026544	0.023220	0.019747
March	0.034622	0.033845	0.027386	0.027113	0.023356	0.018069	0.027131	0.023622	0.018321
April	0.033775	0.034296	0.027399	0.037753	0.036687	0.028390	0.028126	0.024779	0.019553
Мау	0.036715	0.036755	0.031260	0.049020	0.055877	0.046776	0.028293	0.023963	0.018366
June	0.068381	0.067156	0.053324	0.085725	0.089526	0.077183	0.045440	0.037585	0.020588
July	0.066040	0.065258	0.050240	0.079928	0.081437	0.059184	0.044249	0.037499	0.020010
August	0.068091	0.066149	0.049954	0.083828	0.086016	0.065846	0.045361	0.037610	0.020626
September	0.066093	0.064668	0.050927	0.086550	0.091348	0.077816	0.045532	0.037858	0.020587
October	0.035712	0.035715	0.032402	0.038227	0.036561	0.031288	0.027123	0.023675	0.018308
November	0.036135	0.035963	0.030643	0.027736	0.023477	0.018069	0.027875	0.023669	0.018096
December	0.033574	0.031724	0.028852	0.026528	0.023245	0.018069	0.026684	0.023265	0.018274

CANCELLED February 28, 2022 FILED Missouri Public Missouri Public Service Commission Service Commission ER-2021-0240; YE-2022-0222 dicates Change. ER-2019-0335; YE-2020-0164 Issued pursuant to the Order of the Mo.P.S.C. in Case No. ER-2019-0335. March 18, 2020 DATE EFFECTIVE April 1, 2020 DATE OF ISSUE ISSUED BY ____ Martin J. Lyons Chairman & President St. Louis, Missouri NAME OF OFFICER ADDRESS TITLE EO-2023-0180, Attachment B, Page 9 of 19

MO.P.S.C. SCHEDULE NO. 6 d Revised SHEET NO. 91

CANCELLING MO.P.S.C. SCHEDULE NO. 6

1st Revised SHEET NO. 91.20

APPLYING TO

MISSOURI SERVICE AREA

RIDER EEIC ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.) For MEEIA 2019-21 Plan

* TD DETERMINATION (Cont'd.)

	HVAC/	BUILDING	SHELL		LIGHTING			REFRIG.	
Month	ЗM	4M	11M	ЗM	4M	11M	ЗM	4M	11M
January	0.040160	0.044258	0.034141	0.038845	0.040167	0.030648	0.036127	0.036018	0.027630
February	0.041162	0.043584	0.033355	0.039110	0.040316	0.029906	0.036473	0.036333	0.027564
March	0.042527	0.043881	0.032818	0.039933	0.040568	0.031117	0.037089	0.037147	0.029700
April	0.042640	0.043124	0.030006	0.042049	0.043178	0.032096	0.039087	0.038649	0.029179
Мау	0.047013	0.049967	0.039079	0.044007	0.044923	0.034242	0.040485	0.039657	0.030497
June	0.095857	0.099685	0.077214	0.082470	0.081758	0.058727	0.074873	0.071591	0.050507
July	0.087962	0.089771	0.062258	0.077553	0.077189	0.056832	0.070266	0.068379	0.047402
August	0.092042	0.095052	0.072377	0.079730	0.079470	0.058724	0.072265	0.070027	0.050280
September	0.093056	0.096576	0.080800	0.076447	0.074792	0.057965	0.071320	0.068070	0.050914
October	0.043665	0.046002	0.034237	0.042173	0.043266	0.038826	0.038855	0.038376	0.033203
November	0.044188	0.044788	0.041385	0.042112	0.043156	0.034846	0.039157	0.038571	0.030951
December	0.041579	0.043465	0.030730	0.040073	0.039748	0.032697	0.037668	0.036103	0.030261

		COOK.			DHW		HEAT.		
Month	ЗM	4M	11M	ЗM	4M	11M	ЗM	4M	11M
January	0.038309	0.038790	0.028787	0.037960	0.037747	0.027586	0.038061	0.041205	0.034141
February	0.038568	0.039440	0.028711	0.038076	0.038658	0.027537	0.038934	0.040433	0.033374
March	0.039270	0.040865	0.032619	0.038562	0.040170	0.031768	0.040449	0.040971	0.033221
April	0.042201	0.043346	0.032873	0.041709	0.042594	0.032106	0.041125	0.040950	0.033129
Мау	0.043770	0.044565	0.033993	0.043366	0.043942	0.033545	0.041331	0.040859	0.030651
June	0.083546	0.083197	0.060467	0.083459	0.083081	0.062476	0.052466	0.041567	0.022435
July	0.078424	0.078469	0.053040	0.078426	0.077269	0.050458	0.049122	0.041016	0.022435
August	0.080909	0.080961	0.058612	0.080837	0.080870	0.057805	0.049611	0.041378	0.022435
September	0.078895	0.078001	0.061331	0.077884	0.076676	0.059940	0.076653	0.075063	0.058249
October	0.041924	0.042894	0.038235	0.041547	0.042325	0.038202	0.040395	0.040543	0.036738
November	0.041909	0.043184	0.033287	0.041629	0.042594	0.032144	0.041298	0.039838	0.042414
December	0.040132	0.039292	0.033829	0.039898	0.038570	0.033377	0.039199	0.039428	0.030735

		OFFICE			VENT	
Month	ЗM	4M	11M	ЗM	4M	11M
January	0.037286	0.038071	0.029552	0.036081	0.036558	0.028162
February	0.037561	0.037999	0.028928	0.036454	0.036269	0.027610
March	0.038187	0.038071	0.029822	0.037074	0.036538	0.028433
April	0.039892	0.039801	0.029494	0.039225	0.038787	0.029095
Мау	0.041760	0.041566	0.031849	0.040794	0.040117	0.030815
June	0.076344	0.073561	0.051306	0.074454	0.071029	0.049180
July	0.071827	0.070685	0.052198	0.070473	0.068997	0.050253
August	0.073708	0.071853	0.053187	0.072308	0.070082	0.051634
September	0.071698	0.068567	0.051435	0.070775	0.067355	0.050164
October	0.040076	0.040178	0.035084	0.039165	0.038832	0.033621
November	0.040238	0.040078	0.032832	0.038925	0.038057	0.030410
December	0.038433	0.037453	0.030533	0.037820	0.036716	0.030011

*Indicates Change.

FILED Missouri Public Service Commission ER-2021-0240; YE-2022-0222

Teened nurement +	o the Order of the Mo.P.S.C.	in Case No EP-2021-0240	. February 28, 2022
issued puisdant t	o the order of the Mo.L.b.C.	IN CASE NO. EN 2021 0240	. i cordary 20, 2022
	1 1.4 0.000		1 1 0 0 0 0 0
DATE OF ISSUE Fe	bruary 14, 2022	DATE EFFECTIVE	March 10, 2022

ISSUED BY	Mark C. Birk	Chairman & President	St. Louis, Missouri
	NAME OF OFF	TITLE	ADDRESS

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MO.P.S.C. SCHEDULE NO. 6

CANCELLING MO.P.S.C. SCHEDULE NO. 6

1st Revised SHEET NO. 91.20

Original SHEET NO. 91.20

APPLYING TO

MISSOURI SERVICE AREA

RIDER EEIC ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.) For MEEIA 2019-21 Plan

* TD DETERMINATION (Cont'd.)

	HVAC/	BUILDING	SHELL	LIGHTING				REFRIG.			
Month	ЗM	4M	11M	ЗM	4M	11M	ЗM	4M	11M		
January	0.034640	0.038339	0.031730	0.034154	0.034350	0.028287	0.031757	0.031025	0.025268		
February	0.036376	0.037276	0.032064	0.034537	0.034615	0.028269	0.032324	0.031559	0.025719		
March	0.038793	0.038233	0.030006	0.035791	0.035557	0.028425	0.033226	0.033444	0.027040		
April	0.034113	0.033239	0.027835	0.035679	0.037511	0.029861	0.033493	0.033976	0.027033		
May	0.042518	0.045739	0.039120	0.038560	0.039603	0.033858	0.035508	0.035005	0.029512		
June	0.084877	0.088426	0.076134	0.072455	0.072404	0.058526	0.065449	0.055448	0.050269		
July	0.079539	0.080952	0.058800	0.069884	0.069434	0.053755	0.063150	0.061512	0.044695		
August	0.083309	0.085358	0.065285	0.072041	0.071117	0.053427	0.065251	0.062669	0.045773		
September	0.083042	0.086756	0.073496	0.067956	0.067096	0.053491	0.063332	0.061168	0.047068		
October	0.035901	0.035979	0.031467	0.037663	0.038461	0.035627	0.034427	0.033943	0.030495		
November	0.038133	0.034794	0.037912	0.037126	0.037867	0.032129	0.034856	0.034333	0.028386		
December	0.034440	0.034887	0.027827	0.033944	0.032253	0.029716	0.032491	0.030253	0.027377		

		COOK.			DHW			HEAT.	
Month	ЗM	4M	11M	ЗM	4M	11M	ЗM	4M	11M
January	0.033317	0.032232	0.026424	0.033896	0.030868	0.025223	0.034640	0.038340	0.031731
February	0.033644	0.033331	0.026935	0.033889	0.032405	0.025691	0.036391	0.037298	0.032084
March	0.034613	0.036345	0.029822	0.034447	0.035561	0.029033	0.039224	0.038760	0.030380
April	0.036261	0.038190	0.030592	0.036945	0.037340	0.029871	0.036453	0.036565	0.030831
May	0.038356	0.039289	0.033580	0.039467	0.038724	0.033069	0.035633	0.035091	0.029693
June	0.073451	0.073688	0.060207	0.073371	0.073584	0.062138	0.045009	0.037016	0.019928
July	0.070691	0.070597	0.050174	0.070692	0.069507	0.047691	0.043836	0.036937	0.019928
August	0.073116	0.072469	0.053325	0.073050	0.072387	0.052594	0.044944	0.037067	0.019928
September	0.070168	0.069982	0.056531	0.069254	0.068789	0.055276	0.068142	0.067339	0.053748
October	0.037338	0.038002	0.035099	0.038316	0.037496	0.035069	0.037690	0.038499	0.033761
November	0.036955	0.038397	0.030680	0.038210	0.037851	0.029561	0.038654	0.035365	0.038768
December	0.034237	0.031730	0.030777	0.035224	0.030961	0.030358	0.034444	0.034893	0.027832

		OFFICE			VENT		
	Month	ЗM	4M	11M	ЗM	4M	11M
	January	0.032964	0.033103	0.027191	0.031426	0.031522	0.025799
	February	0.033396	0.032974	0.027177	0.032013	0.030991	0.025768
	March	0.034302	0.033567	0.027161	0.032890	0.031910	0.025782
	April	0.033729	0.034260	0.027339	0.033430	0.033711	0.026952
	May	0.036608	0.036591	0.031105	0.035766	0.035296	0.029886
	June	0.066802	0.065117	0.051097	0.065063	0.062870	0.048893
	July	0.064588	0.063533	0.049365	0.063340	0.062005	0.047494
	August	0.066562	0.064227	0.048408	0.065290	0.062630	0.047000
CANCELLED February 28, 2022 Missouri Public Service Commission	September	0.063673	0.061513	0.047550	0.062841	0.060431	0.046374
	October	0.035672	0.035658	0.032262	0.034778	0.034402	0.030888
	November	0.035710	0.035164	0.030237	0.033876	0.032368	0.027854
	December	0.032831	0.030960	0.027638	0.032515	0.030851	0.027136
ER-2021-0240; YE-2022-02	Hidicates	Change.					

FILED Missouri Public Service Commission ER-2019-0335; YE-2020-0164

Issue	d pursuant to the Order	of the Mo.P.S.C.	in Case No. ER	R-2019-0335.	
DATE OF ISSU	E March 18,	2020	DATE EFFECTIVE	April 1,	2020
ISSUED BY	Martin J. Lyons	Chairman	& President	St. Louis	, Missouri
	NAME OF OFFICER		TITLE		RESS
			EO-	2023-0180, Attachme	nt B, Page 11 of 19

MO.P.S.C. SCHEDULE NO. 6

CANCELLING MO.P.S.C. SCHEDULE NO. 6

rd Revised SHEET NO. 91.2

2nd Revised

SHEET NO. 91.21

APPLYING TO

MISSOURI SERVICE AREA

RIDER EEIC ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.) For MEEIA 2019-21 Plan

TD DETERMINATION (Cont'd.)

- The Company shall file an update to NMR rates by month by Service Classification and by end-use category 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 in the Marginal Rate Analysis section of the MEEIA 2019-21 Plan.
- NTGF = Net-To-Gross Factor. For each Program Year, all TD calculations will assume a NTGF of 0.85 until such time as a NTGF is determined through EM&V for that Program Year. Thereafter, for each given Program Year, the NTGF determined through EM&V will be used prospectively starting with the month in which the Earnings Opportunity Award is determined. The NTGF for the 2022 and 2023 Program Years will be 0.825.

Annual kWh savings per Measure will be updated prospectively in the Company's TRM and Deemed Savings Table.

* EARNINGS OPPORTUNITY AWARD DETERMINATION

An Earnings Opportunity Award shall be calculated for each Program Year using the EO Calculator submitted with the MEEIA 2019-21 Plan as Appendix N except for the 2022 and 2023 Program Years where the Earnings Opportunity Award will be determined as described in Company's Application for MEEIA Extension and the terms set forth in item ten (10) of the Unanimous Stipulation and Agreement Regarding The Implementation Certain MEEIA Programs Through Plan Year 2022 and item (11) of the Non-Unanimous Stipulation And Agreement Regarding The Implementation Certain Meeia Programs Through Plan Year 2023 And Motion For Expedited Treatment in File No. EO-2018-0211. The Earnings Opportunity Award will not go below zero dollars (\$0). If Commission-approved new programs are added to the Program, the Company may seek Commission approval to have the targets and the cap of the Earnings Opportunity Award adjusted. For each Program Year the Earnings Opportunity Award shall be adjusted for the difference, with carrying cost at the Company's monthly short-term interest rate, between TD revenues billed resulting from the application of the EEIR and what those revenues 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 for the 2022 and 2023 Program Years the NTGF will remain 0.825.

FILING

The Company shall make a Rider EEIC filing each calendar year to be effective for application to the usage on and after the first date of the subsequent February. 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 the first day of June or October. Rider EEIC filings shall be made at least 60 days prior to their effective dates.

*Indicates Change.

FILED Missouri Public Service Commission EO-2018-0211; YE-2022-0154

	NAME OF OFFICER	TITLE	ADDRESS
ISSUED BY	Martin J. Lyons	Chairman & President	St. Louis, Missouri
DATE OF ISSUE	November 19,	2021 DATE EFFECTIVE	December 19, 2021

EO-2023-0180, Attachment B, Page 12 of 19

MO.P.S.C. SCHEDULE NO. 6

CANCELLING MO.P.S.C. SCHEDULE NO. 6

2nd Revised 1st Revised

SHEET NO. 91.21

APPLYING TO

MISSOURI SERVICE AREA

RIDER EEIC ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.) For MEEIA 2019-21 Plan

TD DETERMINATION (Cont'd.)

- The Company shall file an update to NMR rates by month by Service Classification and by end-use category 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 in the Marginal Rate Analysis section of the MEEIA 2019-21 Plan.
- NTGF = Net-To-Gross Factor. For each Program Year, all TD calculations will assume a NTGF of 0.85 until such time as a NTGF is determined through EM&V for that Program Year. Thereafter, for each given Program Year, the NTGF determined through EM&V will be used prospectively starting with the month in which the Earnings Opportunity Award is determined. The NTGF for the 2022 Program Year will be 0.825.

Annual kWh savings per Measure will be updated prospectively in the Company's TRM and Deemed Savings Table.

* EARNINGS OPPORTUNITY AWARD DETERMINATION

An Earnings Opportunity Award shall be calculated for each Program Year using the EO Calculator submitted with the MEEIA 2019-21 Plan as Appendix N except for the 2022 Program Year where the Earnings Opportunity Award will be determined as described in Company's Application for MEEIA Extensionon and the terms set forth in item ten (10) of the Unanimous Stipulation and Agreement Regarding The Implementation Certain MEEIA Programs Through Plan Year 2022 in File No. EO-2018-0211. The Earnings Opportunity Award will not go below zero dollars (\$0). If Commission-approved new programs are added to the Program, the Company may seek Commission approval to have the targets and the cap of the Earnings Opportunity Award adjusted. For each Program Year the Earnings Opportunity Award shall be adjusted for the difference, with carrying cost at the Company's monthly short-term interest rate, between TD revenues billed resulting from the application of the EEIR and what those revenues 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 for the 2022 Program Year the NTGF will remain 0.825.

FILING

CANCELLED

The Company shall make a Rider EEIC filing each calendar year to be effective for application to the usage on and after the first date of the subsequent February. 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 the first day of June or October. Rider EEIC filings shall be made at least 60 days prior to their effective dates.

December 19, 2021 P1101 CC Missouri Public Service Commission EO-2018-0211; YE-2022-0154			FILED Missouri Public
*Indicat	ces Change.		Service Commission EO-2018-0211; YE-2021-0119
DATE OF ISSUE	November 18,	2020 DATE EFFECTIVE	December 18, 2020
ISSUED BY	Martin J. Lyons NAME OF OFFICER	Chairman & President TITLE	St. Louis, Missouri ADDRESS

EO-2023-0180, Attachment B, Page 13 of 19

MO.P.S.C. SCHEDULE NO. 6

CANCELLING MO.P.S.C. SCHEDULE NO. 6

lst Revised SHEET NO. 91.21

Original

SHEET NO. 91.21

APPI YING TO

MISSOURI SERVICE AREA

RIDER EEIC ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.) For MEEIA 2019-21 Plan

TD DETERMINATION (Cont'd.)

- The Company shall file an update to NMR rates by month by Service Classification and by end-use category 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 in the Marginal Rate Analysis section of the MEEIA 2019-21 Plan.
- NTGF = Net-To-Gross Factor. For each Program Year, all TD calculations will assume a NTGF of 0.85 until such time as a NTGF is determined through EM&V for that Program Year. Thereafter, for each given Program Year, the NTGF determined through EM&V will be used prospectively starting with the month in which the Earnings Opportunity Award is determined.

Annual kWh savings per Measure will be updated prospectively in the Company's TRM and Deemed Savings Table.

EARNINGS OPPORTUNITY AWARD DETERMINATION

An Earnings Opportunity Award shall be calculated for each Program Year using the EO Calculator submitted with the MEEIA 2019-21 Plan as Appendix N. The Earnings Opportunity Award will not go below zero dollars (\$0). If Commission-approved new programs are added to the Program, the Company may seek Commission approval to have the targets and the cap of the Earnings Opportunity Award adjusted. For each Program Year the Earnings Opportunity Award shall be adjusted for the difference, with carrying cost at the Company's monthly short-term interest rate, between TD revenues billed resulting from the application of the EEIR and what those revenues 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.

* FILING

Missouri Public * Indicates Change.

CANCELLED

The Company shall make a Rider EEIC filing each calendar year to be effective for application to the usage on and after the first date of the subsequent February. 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 the first day of June or October. Rider EEIC filings shall be made at least 60 days prior to their effective dates.

PRUDENCE REVIEWS

A prudence review shall be conducted no less frequently than at 24-month intervals in accordance with 20 CSR 4240-20.093(11). 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. December 18, 2020

FILED Missouri Public Service Commission ER-2020-0147; YE-2020-0090

Service Cor EO-2018-0211;	mmission 11010a08 YE-2021-0119	es change.	ER-2020-0147; YE-2020		
	DATE OF ISSUE	November 22, 2019	DATE EFFECTIVE	February 1, 2020	
	ISSUED BY	Michael Moehn	President	St. Louis, Missouri	
		NAME OF OFFICER	TITLE EO-20	ADDRESS 023-0180, Attachment B, Page 14 of 19	

MO.P.S.C. SCHEDULE NO. 6 3rd Revised SHEET NO. 91.22

CANCELLING MO.P.S.C. SCHEDULE NO. 6

2nd Revised

SHEET NO. 91.22

FILED Missouri Public

APPLYING TO

MISSOURI SERVICE AREA

RIDER EEIC ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.) For MEEIA 2019-21 Plan

* PRUDENCE REVIEWS

A prudence review shall be conducted no less frequently than at 24-month intervals in accordance with 20 CSR 4240-20.093(11). 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.

*Indicates Reissue.					rvice Commission 3-0211; YE-2021-0119
DATE OF ISSUE _	November 18,	2020	DATE EFFECTIVE	December 18	, 2020
ISSUED BY	Martin J. Lyons NAME OF OFFICER		& President TITLE EO-		, Missouri RESS It B, Page 15 of 19

MO.P.S.C. SCHEDULE NO.	6	2nd Revised	SHEET NO.	91.22

CANCELLING MO.P.S.C. SCHEDULE NO. 6

1st Revised SHEET NO. 91.22

APPLYING TO

MISSOURI SERVICE AREA

RIDER EEIC

ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.)

* (Applicable To Service Provided Beginning June 2019 through January 31, 2020)

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	\$0.000039	\$0.000000
2(M)-Small General Service	\$0.000000	\$0.000000	\$0.000055	\$0.000000
3(M)-Large General Service	\$0.000000	\$0.000000	\$0.000112	\$0.000000
4(M)-Small Primary Service	\$0.000000	\$0.000000	\$0.000094	\$0.000000
11(M)-Large Primary Service	\$0.000000	\$0.000000	\$0.000185	\$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	(\$0.000614)	\$0.001109	\$0.000000	\$0.000005
2(M)-Small General Service	\$0.000580	\$0.002301	\$0.000000	(\$0.000002)
3(M)-Large General Service	\$0.000584	\$0.001802	\$0.000000	(\$0.000002)
4(M)-Small Primary Service	\$0.000598	\$0.001492	\$0.000000	(\$0.000002)
11(M)-Large Primary Service	\$0.000687	\$0.000648	\$0.000000	(\$0.000002)
12(M)-Large Transmission Service	\$0.000000	\$0.000000	\$0.000000	\$0.000000

MEEIA 2019-21 EEIR Components (Applicable to MEEIA Cycle 3 Plan)

Service Class	NPC/PE (\$/kWh)	NTD/PE (\$/kWh)	NEO/PE (\$/kWh)	NOA/PE (\$/kWh)
1(M)-Residential Service	\$0.003679	\$0.000357	\$0.000000	\$0.000000
2(M)-Small General Service	\$0.002247	\$0.000239	\$0.000000	\$0.000000
3(M)-Large General Service	\$0.002247	\$0.000181	\$0.000000	\$0.000000
4(M)-Small Primary Service	\$0.002247	\$0.000179	\$0.000000	\$0.000000
11(M)-Large Primary Service	\$0.002247	\$0.000065	\$0.000000	\$0.000000
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	\$0.003065	\$0.001466	\$0.000039	\$0.000005	\$0.004575
2(M)-Small General Service	\$0.002827	\$0.002540	\$0.000055	(\$0.000002)	\$0.005420
3(M)-Large General Service	\$0.002831	\$0.001983	\$0.000112	(\$0.000002)	\$0.004924
4(M)-Small Primary Service	\$0.002845	\$0.001671	\$0.000094	(\$0.000002)	\$0.004608
11(M)-Large Primary Service	\$0.002934	\$0.000713	\$0.000185	(\$0.000002)	\$0.003830
12(M)-Large Transmission Service	\$0.000000	\$0.000000	\$0.000000	\$0.000000	\$0.000000

CANCELLED December 18, 2020 Missouri Public Service Commission EO-2018-0211; YE-2021-0119 DATE OF ISSUE ____

*Indicates Change.

November 22, 2019

NAME OF OFFICER

DATE EFFECTIVE

President

TITLE

January 27, 2020

ISSUED BY Michael Moehn

FILED

January 21, 2020

Missouri Public St. Louis, Missouri Service Commission ADDRESS ADDRESS

MO.P.S.C. SCHEDULE NO. 6 2nd Revised SHEET NO. 91

CANCELLING MO.P.S.C. SCHEDULE NO. 6

1st Revised SHEET NO. 91.23

APPLYING TO

MISSOURI SERVICE AREA

RIDER EEIC

ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.)

(Applicable To Service Provided Beginning February 1, 2022 through January 31, 2023

* 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	(\$0.000005)	(\$0.000010)	(\$0.000038)	\$0.000001
2(M)-Small General Service	(\$0.000050)	(\$0.000014)	(\$0.000046)	(\$0.000001)
3(M)-Large General Service	(\$0.000040)	(\$0.000055)	\$0.000001	\$0.000000
4(M)-Small Primary Service	(\$0.000032)	(\$0.000041)	\$0.000024	\$0.000000
11(M)-Large Primary Service	(\$0.000013)	(\$0.000027)	\$0.000138	(\$0.000001)
12(M)-Large Transmission Service	\$0.000000	\$0.000000	\$0.000000	\$0.000000

* MEEIA 2019-21 EEIR Components (Applicable to MEEIA Cycle 3 Plan)

Service Class	NPC/PE (\$/kWh)	NTD/PE (\$/kWh)	NEO/PE (\$/kWh)	NOA/PE (\$/kWh)
1(M)-Residential Service	\$0.002804	\$0.000632	\$0.000382	(\$0.000009)
2(M)-Small General Service	\$0.002430	\$0.000775	\$0.000343	(\$0.000007)
3(M)-Large General Service	\$0.002445	\$0.000562	\$0.000356	(\$0.000007)
4(M)-Small Primary Service	\$0.002529	\$0.000385	\$0.000369	(\$0.000007)
11(M)-Large Primary Service	\$0.002438	\$0.000071	\$0.000380	(\$0.000006)
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	\$0.002799	\$0.000622	\$0.000344	(\$0.000008)	\$0.003757
2(M)-Small General Service	\$0.002380	\$0.000761	\$0.000297	(\$0.00008)	\$0.003430
3(M)-Large General Service	\$0.002405	\$0.000507	\$0.000357	(\$0.000007)	\$0.003262
4(M)-Small Primary Service	\$0.002497	\$0.000344	\$0.000393	(\$0.000007)	\$0.003227
11(M)-Large Primary Service	\$0.002425	\$0.000044	\$0.000518	(\$0.000007)	\$0.002980
12(M)-Large Transmission Service	\$0.000000	\$0.000000	\$0.000000	\$0.000000	\$0.000000

*Indicates Change.

DATE OF ISSUE	December 1,	2021	DATE EFFECTIN	/EFel	bruary 1,	2022
ISSUED BY	Martin J. Lyons	Chairman	& Presider	t FILED S	St. Louis,	Missouri
	NAME OF OFFICER		TITLE	Missouri Public Service Commission	ADDRI	ESS

MO.P.S.C. SCHEDULE NO. 6 1st Revised SHEET NO. 91.23

CANCELLING MO.P.S.C. SCHEDULE NO. 6

Original SHEET NO. 91.23

APPLYING TO

MISSOURI SERVICE AREA

RIDER EEIC

ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.)

(Applicable To Service Provided Beginning February 1, 2021 through January 31, 2022)

* 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	(\$0.000058)	(\$0.000283)	\$0.000702	\$0.000001
2(M)-Small General Service	\$0.000135	(\$0.000392)	\$0.000899	(\$0.000001)
3(M)-Large General Service	\$0.000125	(\$0.000221)	\$0.000922	(\$0.000001)
4(M)-Small Primary Service	\$0.000116	(\$0.000118)	\$0.000937	(\$0.000001)
11(M)-Large Primary Service	\$0.000115	\$0.000012	\$0.001192	(\$0.000001)
12(M)-Large Transmission Service	\$0.000000	\$0.000000	\$0.000000	\$0.000000

* MEEIA 2019-21 EEIR Components (Applicable to MEEIA Cycle 3 Plan)

Service Class	NPC/PE (\$/kWh)	NTD/PE (\$/kWh)	NEO/PE (\$/kWh)	NOA/PE (\$/kWh)
1(M)-Residential Service	\$0.003200	\$0.001528	\$0.000228	\$0.000000
2(M)-Small General Service	\$0.003477	\$0.001447	\$0.000246	\$0.000000
3(M)-Large General Service	\$0.003471	\$0.001052	\$0.000244	\$0.000000
4(M)-Small Primary Service	\$0.003458	\$0.000878	\$0.000233	\$0.000000
11(M)-Large Primary Service	\$0.003560	\$0.000475	\$0.000237	\$0.000000
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	\$0.003142	\$0.001245	\$0.000930	\$0.000001	\$0.005318
2(M)-Small General Service	\$0.003612	\$0.001055	\$0.001145	(\$0.000001)	\$0.005811
3(M)-Large General Service	\$0.003596	\$0.000831	\$0.001166	(\$0.000001)	\$0.005592
4(M)-Small Primary Service	\$0.003574	\$0.000760	\$0.001170	(\$0.000001)	\$0.005503
11(M)-Large Primary Service	\$0.003675	\$0.000487	\$0.001429	(\$0.000001)	\$0.005590
12(M)-Large Transmission Service	\$0.000000	\$0.000000	\$0.000000	\$0.000000	\$0.000000

*Indicates Change.

DATE OF ISSUE	December 3,	2020	DATE EFFECTIVE	February 1,	FILED <u>2021</u> Missouri Public Service Commission
February 1, 2022 Missouri Public ISSUED BY	Martin J. Lyons	Chairman	& President	St. Louis,	ER-2021-0158; YE-2021-0131 Missouri
Service Commission ER-2022-0146; YE-2022-0171	NAME OF OFFICER		TITLE EO-	ADDR 2023-0180, Attachment	

MO.P.S.C. SCHEDULE NO. 6 Original SHEET NO. 91.23

CANCELLING MO.P.S.C. SCHEDULE NO.

_____ SHEET NO. _____

APPLYING TO

MISSOURI SERVICE AREA

RIDER EEIC

ENERGY EFFICIENCY INVESTMENT CHARGE (Cont'd.)

(Applicable To Service Provided Beginning February 1, 2020 through January 31, 2021)

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	\$0.000126	\$0.000108	\$0.000822	\$0.000000
2(M)-Small General Service	\$0.000112	\$0.000321	\$0.000806	\$0.000000
3(M)-Large General Service	\$0.000043	\$0.000556	\$0.000833	\$0.000000
4(M)-Small Primary Service	(\$0.000006)	\$0.000541	\$0.000862	\$0.000000
11(M)-Large Primary Service	(\$0.000182)	\$0.000481	\$0.000995	\$0.000000
12(M)-Large Transmission Service	\$0.000000	\$0.000000	\$0.000000	\$0.000000

MEEIA 2019-21 EEIR Components (Applicable to MEEIA Cycle 3 Plan)

Service Class	NPC/PE (\$/kWh)	NTD/PE (\$/kWh)	NEO/PE (\$/kWh)	NOA/PE (\$/kWh)
1(M)-Residential Service	\$0.002501	\$0.000389	\$0.000000	\$0.000000
2(M)-Small General Service	\$0.002225	\$0.000279	\$0.000000	\$0.000000
3(M)-Large General Service	\$0.002226	\$0.000181	\$0.000000	\$0.000000
4(M)-Small Primary Service	\$0.002249	\$0.000174	\$0.000000	\$0.000000
11(M)-Large Primary Service	\$0.002314	\$0.000237	\$0.000000	\$0.000000
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	\$0.002627	\$0.000497	\$0.000822	\$0.000000	\$0.003946
2(M)-Small General Service	\$0.002337	\$0.000600	\$0.000806	\$0.000000	\$0.003743
3(M)-Large General Service	\$0.002269	\$0.000737	\$0.000833	\$0.000000	\$0.003839
4(M)-Small Primary Service	\$0.002243	\$0.000715	\$0.000862	\$0.000000	\$0.003820
11(M)-Large Primary Service	\$0.002132	\$0.000718	\$0.000995	\$0.000000	\$0.003845
12(M)-Large Transmission Service	\$0.000000	\$0.000000	\$0.000000	\$0.000000	\$0.000000

Missouri Public Service Commission DATE OF ISSUE ER-2021-0158; YE-2021-0131	January 15,		FILED	uary 1, 2020 h 15, 2020	
ISSUED BY	Martin J. Lyons	Chairman		Louis, Missouri	
	NAME OF OFFICER		ervice Commission	ADDRESS	

ATTACHMENT C

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ATTACHMENT D

HAVE BEEN DEEMED

CONFIDENTIAL

IN ENTIRETY

File No. EO-2023-0180

OF THE STATE OF MISSOURI

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In the Matter of the Second Prudence Review of the Missouri Energy Efficiency Investment Act (MEEIA) Cycle 3 Energy Efficiency Programs and Cycle 2 Long-Lead Projects of Union Electric Company d/b/a Ameren Missouri

File No. EO-2023-0180

AFFIDAVIT OF AMANDA C. CONNER

STATE OF MISSOURI)) ss. COUNTY OF COLE)

COMES NOW AMANDA C. CONNER and on her oath declares that she is of sound mind and lawful age; that she contributed to the foregoing *Staff Report*; and that the same is true and correct according to her best knowledge and belief.

Further the Affiant sayeth not.

onner

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 27 day of April, 2023.

Notary Public

OF THE STATE OF MISSOURI

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In the Matter of the Second Prudence Review of the Missouri Energy Efficiency Investment Act (MEEIA) Cycle 3 Energy Efficiency Programs and Cycle 2 Long-Lead Projects of Union Electric Company d/b/a Ameren Missouri

File No. EO-2023-0180

AFFIDAVIT OF TERESA DENNEY

STATE OF MISSOURI)) ss. COUNTY OF COLE)

COMES NOW TERESA DENNEY and on her oath declares that she is of sound mind and lawful age; that she contributed to the foregoing *Staff Report*; and that the same is true and correct according to her best knowledge and belief.

Further the Affiant sayeth not.

Jeresa Denner TERESA DENNE

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 24+ day of April, 2023.

Dianie L Vaurt Notary Public ()

OF THE STATE OF MISSOURI

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In the Matter of the Second Prudence Review of the Missouri Energy Efficiency Investment Act (MEEIA) Cycle 3 Energy Efficiency Programs and Cycle 2 Long-Lead Projects of Union Electric Company d/b/a Ameren Missouri

File No. EO-2023-0180

AFFIDAVIT OF AMY L. EICHHOLZ

STATE OF MISSOURI)	
)	SS.
COUNTY OF COLE)	

COMES NOW AMY L. EICHHOLZ and on her oath declares that she is of sound mind and lawful age; that she contributed to the foregoing *Staff Report*; and that the same is true and correct according to her best knowledge and belief.

Further the Affiant sayeth not.

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 27^{tr} day of April, 2023.

Dianne L. Vauet-Notary Public (

OF THE STATE OF MISSOURI

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In the Matter of the Second Prudence Review of the Missouri Energy Efficiency Investment Act (MEEIA) Cycle 3 Energy Efficiency Programs and Cycle 2 Long-Lead Projects of Union Electric Company d/b/a Ameren Missouri

File No. EO-2023-0180

AFFIDAVIT OF JORDAN T. HULL

STATE OF MISSOURI)	
)	SS.
COUNTY OF COLE)	

COMES NOW JORDAN T. HULL and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing *Staff Report*; and that the same is true and correct according to his best knowledge and belief.

Further the Affiant sayeth not.

JORD

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 274 day of April, 2023.

Dianna L. Vaunt-Notary Public ()

OF THE STATE OF MISSOURI

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In the Matter of the Second Prudence Review of the Missouri Energy Efficiency Investment Act (MEEIA) Cycle 3 Energy Efficiency Programs and Cycle 2 Long-Lead Projects of Union Electric Company d/b/a Ameren Missouri

File No. EO-2023-0180

AFFIDAVIT OF BROOKE MASTROGIANNIS

STATE OF MISSOURI)) ss. COUNTY OF COLE)

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

Further the Affiant sayeth not.

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 26% day of April, 2023.

Dianna L. Vaunt-Notary Public

OF THE STATE OF MISSOURI

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In the Matter of the Second Prudence **Review of the Missouri Energy Efficiency** Investment Act (MEEIA) Cycle 3 Energy Efficiency Programs and Cycle 2 Long-Lead Projects of Union Electric Company d/b/a Ameren Missouri

File No. EO-2023-0180

AFFIDAVIT OF CYNTHIA M. TANDY

STATE OF MISSOURI)	
)	SS.
COUNTY OF COLE)	

COMES NOW CYNTHIA M. TANDY and on her oath declares that she is of sound mind and lawful age; that she contributed to the foregoing Staff Report; and that the same is true and correct according to her best knowledge and belief,

Further the Affiant sayeth not.

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 _21+ day of April, 2023.

Dianne L. Vaugu Notary Public