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## Exhibit No. 750

MECG – Exhibit 750 Steve W. Chriss Direct Testimony File Nos. ER-2021-0240 & GR-2021-0241 Exhibit No: Issue(s): Class Cost of Service / Revenue Allocation / Rate Design Witness: Steve W. Chriss Sponsoring Party: Midwest Energy Consumers Group Type of Exhibit: File No.: ER-2021-0240 Date Testimony Prepared: September 17, 2021

#### MISSOURI PUBLIC SERVICE COMMISSION

#### FILE NO. ER-2021-0240

#### DIRECT TESTIMONY AND EXHIBITS OF

#### **STEVE W. CHRISS**

#### **ON BEHALF OF**

#### **MIDWEST ENERGY CONSUMERS GROUP**

#### **SEPTEMBER 17, 2021**

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

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

File No. ER-2021-0240

#### **AFFIDAVIT OF STEVE W. CHRISS**

STATE OF MISS	OURI	)						
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COUNTY OF CO	LE	)						- I

**COMES NOW** STEVE W. CHRISS and on his oath declares that he is of sound mind and lawful age; that he prepared the attached Direct Testimony; and that the same is true and correct according to his best knowledge and belief, under penalty of perjury.

Further the Affiant sayeth not.

<u>/s/\_Steve W. Chriss</u> Steve W. Chriss

#### 1 Introduction

#### 2 Q. PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND OCCUPATION.

A. My name is Steve W. Chriss. My business address is 2608 SE J St., Bentonville, AR
 72716-0550. I am employed by Walmart Inc. ("Walmart") as Director, Energy
 Services.

#### 6 Q. ON WHOSE BEHALF ARE YOU TESTIFYING IN THIS DOCKET?

- A. I am testifying on behalf of Midwest Energy Consumers Group ("MECG"), which is an
  incorporated association representing the interests of large commercial and
  industrial users of electricity. MECG members take electric service from Union
  Electric Company d/b/a Ameren Missouri ("Ameren" or "the Company") primarily on
  Service Classification No. 3(M) Large General Service Rate ("LGS"), Service
  Classification No. 4(M) Small Primary Service Rate ("SP"), and Service Classification
  No. 11(M) Large Primary Service Rate ("LP").
- 14

#### Q. PLEASE DESCRIBE YOUR EDUCATION AND EXPERIENCE.

A. In 2001, I completed a Master of Science in Agricultural Economics at Louisiana State University. From 2001 to 2003, I was an Analyst and later a Senior Analyst at the Houston office of Econ One Research, Inc., a Los Angeles-based consulting firm. My duties included research and analysis on domestic and international energy and regulatory issues. From 2003 to 2007, I was an Economist and later a Senior Utility Analyst at the Public Utility Commission of Oregon in Salem, Oregon. My duties included appearing as a witness for PUC Staff in electric, natural gas, and

- telecommunications dockets. I joined the energy department at Walmart in July
  2007 as Manager, State Rate Proceedings. I was promoted to Senior Manager,
  Energy Regulatory Analysis, in June 2011. I was promoted to my current position in
  October, 2016 and the position was re-titled in October, 2018. My Witness
  Qualifications Statement is attached as Exhibit SWC-1.
- Q. HAVE YOU PREVIOUSLY SUBMITTED TESTIMONY BEFORE THE MISSOURI PUBLIC
   SERVICE COMMISSION ("COMMISSION")?
- A. Yes. I submitted testimony in Docket Nos. ER-2010-0036, EO-2012-0009, EC-20140224, ER-2014-0258, ER-2016-0023, EA-2016-0208, ER-2016-0179, ER-2016-0358,
  ET-2018-0063, ER-2018-0146, EM-2018-0012, ER-2018-0145, ER-2019-0335, and ER2019-0374.

# 12Q.HAVE YOU PREVIOUSLY SUBMITTED TESTIMONY BEFORE OTHER STATE13REGULATORY COMMISSIONS?

Yes. I have submitted testimony in over 240 proceedings before 40 other utility 14 Α. 15 regulatory commissions. I have also submitted testimony before legislative committees in Kansas, Missouri, North Carolina, and South Carolina. My testimony 16 has addressed topics including, but not limited to, cost of service and rate design, 17 return on equity, revenue requirements, ratemaking policy, large customer 18 renewable programs, qualifying facility rates, telecommunications deregulation, 19 20 resource certification, energy efficiency/demand side management, fuel cost adjustment mechanisms, decoupling, and the collection of cash earnings on 21

1 construction work in progress.

#### 2 Q. ARE YOU SPONSORING EXHIBITS IN YOUR TESTIMONY?

3 A. Yes. I am sponsoring the exhibits listed in the Table of Contents.

#### 4 Q. DO MECG'S MEMBERS HAVE A SIGNIFICANT IMPACT ON MISSOURI'S ECONOMY?

- 5 A. Yes. For example, as shown on Walmart's website, Walmart operates 156 retail
- 6 units and four distribution centers and employs over 43,000 associates in Missouri.
- 7 In fiscal year ending 2021, Walmart purchased \$6.9 billion worth of goods and
- 8 services from Missouri-based suppliers, supporting over 68,000 supplier jobs.<sup>1</sup>
- 9
- 10 Purpose of Testimony and Summary of Recommendations

#### 11 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

- 12 A. The purpose of my testimony is to provide MECG's response to class cost of service
- 13 and rate design issues in Ameren's rate case filing and to provide recommendations
- 14 to assist the Commission in its thorough and careful consideration of the customer
- 15 impact of the Company's proposed rate increase.

#### 16 Q. PLEASE SUMMARIZE MECG'S RECOMMENDATIONS TO THE COMMISSION.

- 17 A. MECG's recommendations to the Commission are as follows:
- 18 1) MECG supports the allocation of production plant fixed costs using the Company's
- 19

proposed Average & Excess ("A&E") allocator based on the four non-coincident

<sup>&</sup>lt;sup>1</sup> http://corporate.walmart.com/our-story/locations/united-states#/united-states/missouri

1		peaks ("NCP") for each customer class (together, "A&E 4NCP") allocator as modified
2		slightly to comply with Section 393.1620.1(1) RSMo.
3	2)	MECG does not oppose the remainder of the Company's proposed cost of service
4		study. To the extent that alternative cost of service models or modifications to the
5		Company's model are proposed by other parties, MECG reserves the right to address
6		such changes in rebuttal testimony.
7	3)	Due to the level of the Company's proposed increase, if the Commission were to
8		award Ameren its proposed revenue requirement increase, the Commission should
9		reject the Company's revenue allocation proposal and assign an equal percentage
10		increase to all classes.
11	4)	If the Commission awards a revenue requirement increase that is lower than that
12		proposed by the Company, MECG recommends the Commission take significant
13		steps to address the above cost rates paid by Small General Service ("SGS"), LGS, SP,
14		and LPS. Specifically, MECG recommends that the Commission allocate the revenue
15		increase using the following steps:
16		a. Apply half of the difference between the approved revenue requirement and
17		Ameren's proposed revenue requirement as a reduction to SGS, LGS, SP, LPS,
18		and Company Owned Lighting based on the proportional contribution of
19		each class to the overall revenue neutral shift to cost of service from the
20		Company's proposed cost of service study; and
21		b. Apply the remaining half of the difference between the approved revenue

1	requirement and Ameren's proposed revenue requirement on an equal
2	percentage basis to all customer classes.
3	5) The Commission should require the Company to show all components of bill
4	calculation of Electronic Data Interchange ("EDI") bills.
5	6) For the purposes of this docket, at the Company's proposed revenue requirement
6	for the LGS and SP classes, MECG recommends that the Commission:
7	a. Accept Ameren's proposed customer charges and on-peak and off-peak
8	adjusters for both LGS and SP, and Ameren's proposed Rider B credits and
9	reactive charge for SP;
10	b. Increase the summer and winter demand charges for LGS and SP by three
11	times the percent class increases; and
12	c. Apply the remaining proposed increase on an equal percentage basis to the
13	summer and winter energy charges.
14	7) If the Commission awards an increase for these classes that is lower than that
15	proposed by the Company, then the Commission can then take larger steps to
16	address the over-recovery of demand-related costs through energy charges and
17	associated intra-class subsidies. Specifically, the Commission should set the demand
18	charges per MECG's recommendation above and apply the approved reduction in
19	the class revenue requirement by reducing all base rate energy charges on an equal
20	percentage basis.
21	

1	Q.	DOES THE FACT THAT YOU MAY NOT ADDRESS AN ISSUE OR POSITION
2		ADVOCATED BY THE COMPANY INDICATE MECG'S SUPPORT?
3	Α.	No. The fact that an issue is not addressed herein or in related filings should not be
4		construed as an endorsement of, agreement with, or consent to any filed position.
5		
6	General C	Concerns Regarding Ameren's Proposed Revenue Requirement
7	Q.	WHAT IS YOUR UNDERSTANDING OF THE COMPANY'S PROPOSED REVENUE
8		REQUIREMENT INCREASE IN THIS DOCKET?
9	Α.	My understanding is that Ameren has requested a revenue increase in this docket of
10		approximately \$299 million, or 11.97 percent, based on a test year ending December
11		31, 2020, with certain pro forma adjustments to include known and measurable
12		items through September 30, 2021. See Counsel Filing Letter, page 1 and Schedule 1
13		– Min. Filing Reqmt. 3(B)1.
14	Q.	HAVE THE COMPANY'S RATES SIGNIFICANTLY INCREASED FOR LARGE USERS OVER
15		THE LAST 13 YEARS?
16	Α.	Yes. For example, analysis for FERC Form 1 data shows that between 2008 and
17		2020, and not inclusive of the increases proposed in the instant docket, Ameren's
18		reported revenue per kWh sold to LGS customers has increased from \$0.0563/kWh
19		to \$0.0772/kWh, an increase of 37.1 percent. However, as recently as 2018,
20		revenue per kWh sold to LGS customers was 50.3 percent higher than 2008, with
21		relief brought about primarily by the Tax Cuts and Jobs Act. Figure 1 and Exhibit

percent increase over the period (right axis). 2 60.0% \$0.0900 \$0,0850 50.0% \$0.0800 40.0% \$0.0750 30.0% \$0.0700 \$0,0650 20.0% \$0.0600 10.0% \$0.0550 0.0% \$0.0500 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 - Revenue/kWh Sold - Cumulative Increase 3 4 Figure 1. FERC Form 1 Reported LGS Revenue Per kWh Sold and Cumulative Percent Increase, 2008 -2018. Source: Exhlbit SWC-2 5 6 HAVE LGS AND SP CUSTOMERS PAID RATES IN EXCESS OF COST OF SERVICE 7 Q.  $\alpha \in \{r \in I\}$ **DURING THIS PERIOD AS WELL?** 8 Yes. As I will discuss in more detail below, LGS and SP customers have paid rates in Α. 9 excess of cost of service for the time period shown in Figure 1. 10

SWC-2 show the increase in revenue per kWh sold (left axis) and the cumulative

#### 1 Q. PLEASE EXPLAIN.

A. An examination of the revenue neutral<sup>2</sup> results for Ameren rate cases filed since 2007 show that rates for the LGS and SP classes have been set well in excess of cost of service since the 2007 rate case.<sup>3</sup> Table 1 summarizes the Company's final class cost of service study results in each rate case.

Table 1. Summary of Revenue Changes, Per Ameren Cost of Service StudyResults, Required to Move LGS and SP to Cost of Service in Previous AmerenRate Cases.

	Revenue Change Required to	Move LGS/SP to Cost of			
Rate Case	Service				
	(\$)	(%)			
ER-2007-0002					
LGS	(\$43,441,000)	-10.2			
SP	(\$8,148,000)	-4.5			
ER-2008-0318 (LGS & SP)	(\$47,863,000)	-7.66			
ER-2010-0036 (LGS & SP)	(\$64,785,000)	-9.74			
ER-2011-0028 (LGS & SP)	(\$63,653,000)	-8.94			
ER-2012-0166 (LGS & SP)	(\$59,937,000)	-7.99			
ER-2014-0258 (LGS & SP)	(\$68,705,063)	-8.54			
ER-2016-0179 (LGS & SP)	(\$26,675,524)	-3.40			
ER-2019-0335 (LGS & SP)	(\$84,130,291)	-10.44			
Source: Direct Testimony of S	teve W. Chriss, Table 1 and Sche	dule SWC-3 on behalf of The			
Midwest Energy Consumers O	Froup, Case No. ER-2019-0335				

6

Q. HAS AMEREN PROPOSED A REVENUE REQUIREMENT CHANGE FOR LGS AND SP
 CUSTOMERS THAT REFLECTS MOVEMENT TOWARDS THE COST TO SERVE THOSE
 CUSTOMERS?

10 A. No. Per Ameren's cost of service study results in this case, at the Company's

<sup>&</sup>lt;sup>2</sup> Revenue neutral results represent the revenue change for each class necessary to bring that class to its cost of service level per the cost of service study results, as determined prior to any rate change granted to the utility.
<sup>3</sup> Since 2007, the LGS and SP classes have been treated together for purposes of conducting class cost of service studies.

proposed revenue requirement, the LGS and SP classes should receive a 1.4 percent 1 increase. Therefore, even if Ameren is granted the full proposed 11.93 percent rate 2 increase, Ameren's own cost of service study indicates that LGS and SP should 3 receive only a 1.4 percent rate increase. See Direct Testimony of Michael W. 4 Harding, page 5, Table 2. However, as I will discuss in more detail below, the 5 Company has proposed an 11.96 percent increase for LGS and an 11.98 percent 6 increase for SP. Id., page 6, Table 3. As such, Ameren is proposing that LGS rates be 7 set approximately \$53.5 million above cost of service and that SP rates be set 8 approximately \$23.3 million above cost of service. In total, Ameren's proposal 9 would mean that LGS and SP customers together would pay rates that are almost 10 \$77 million per year above cost of service levels. See Exhibit SWC-3. 11

12Q.SHOULD THE COMMISSION CONSIDER THE IMPACT OF THE PROPOSALS IN THIS13DOCKET ON LGS AND SP CUSTOMERS IN SETTING THE CLASS REVENUE14REQUIREMENTS AND RATE DESIGNS IN THE IMMEDIATE PROCEEDING?

Electricity represents a significant portion of operating costs for MECG 15 Α. Yes. members. When rates increase, that increase in cost puts pressure on the other 16 expenses required by a business to operate. The Commission should consider the 17 impact on customers thoroughly and carefully in their examination of all facets of 18 this case, to ensure that any increase in Ameren's rates is only the minimum amount 19 necessary for the utility to provide adequate and reliable service to each customer 20 21 class.

1	Cost of S	ervice and Revenue Allocation
2	Q.	GENERALLY, WHAT IS MECG'S POSITION ON SETTING RATES BASED ON THE
3		UTILITY'S COST OF SERVICE?
4	A.	MECG advocates that rates be set based on the utility's cost of service for each rate
5		class. This produces equitable rates that reflect cost causation, sends proper price
6		signals, and minimizes price distortions.
7	Ŧ	
8	Productio	on Plant Cost Allocation
9	Q.	WHAT IS YOUR UNDERSTANDING OF THE PURPOSE OF PRODUCTION PLANT FIXED
10		COST ALLOCATION?
11	Α.	Production plant cost allocation is the process of allocating to each customer class the
12		fixed costs of a utility's generation assets. Fixed costs are defined as costs that do not
13	÷	vary with the level of output and must be paid even if there is no output. <sup>4</sup>
14	Q.	DO A UTILITY'S FIXED PRODUCTION PLANT COSTS CHANGE WITH CHANGES IN THE
15	č.	AMOUNT OF ELECTRICITY GENERATED?
16	Α.	No. The utility's fixed production plant costs do not change with changes in the amount
17		of electricity generated. For example, if a generating unit is not dispatched and
18		produces no energy, the fixed costs are not avoided by the utility or customers.
19		Generation units can be built and operated for different reasons, such as lower fuel
20		costs, or reliability, but the way in which a generation unit is operated does not change

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<sup>&</sup>lt;sup>4</sup> Pindyck, Robert S. and Daniel L. Rubinfeld, "Microeconomics", 5<sup>th</sup> ed., 2001, page 206.

the fact that the fixed costs are, in fact, fixed, and should be treated as such in the
 production capacity cost allocation.

3 Q. IS IT YOUR UNDERSTANDING THAT PRODUCTION PLANT CAPACITY IS SIZED TO MEET 4 THE MAXIMUM DEMAND IMPOSED ON THE SYSTEM BY THE COMPANY'S 5 CUSTOMERS?

- A. Yes. It is my understanding that the timing and size of a utility's production plant
  capacity additions are generally made to meet the maximum demand placed on the
  utility's system by all customer classes, also known as its coincident peak ("CP"). All of a
  utility's generation units are needed to meet that demand, and removing any of the
  units from that stack will limit the utility's ability to do so.
- 11Q.WHY IS IT IMPORTANT FOR THE ALLOCATION OF PRODUCTION PLANT COST TO12RECOGNIZE THAT PRODUCTION CAPACITY IS DESIGNED TO MEET SYSTEM PEAK?
- Basing the allocation of production plant fixed costs on the utility's system peak ensures Α. 13 that the resulting rates reflect cost causation and minimizes cost responsibility shifts 14 Allocation of fixed production plant costs on a variable, or between rate classes. 15 energy, basis can introduce shifts in cost responsibility from lower load factor classes to 16 higher load factor classes. Under an energy allocator, two customer classes can have 17 the same contribution to system peak demand in the test year and cause the Company 18 to incur the same amount of fixed cost to meet that demand, but because one class 19 uses more kWh than the other, that class will pay more of the demand cost than the 20 class that uses fewer kWh. Additionally, use of an energy allocator implies that the 21 generation plant to which that allocator is applied has no fixed cost, which is plainly not 22

1 the case.

#### 2 Q. WHAT IS YOUR UNDERSTANDING OF CHANGES IN MISSOURI LAW REGARDING

- 3 PRODUCTION PLANT COST ALLOCATION?
- 4
- A. While I am not an attorney, my understanding is that Section 393.1620.2 RSMo
- 5 states:

6 "In determining the allocation of an electrical corporation's total revenue 7 requirement in a general rate case, the commission shall only consider class cost of 8 service study results that allocate the electrical corporation's production plant costs 9 from nuclear and fossil generating units using the average and excess method or one 10 of the methods of assignment or allocation contained within the National 11 Association of Regulatory Utility Commissioners 1992 manual or subsequent 12 manual."

13

Additionally, Section 393.1620.1(1) RSMo defines "Average and excess method" as:

14 "...a method for allocation of production plant costs using factors that consider the 15 classes' average demands and excess demands, determined by subtracting the 16 average demands from the noncoincident peak demands, for the four months with 17 the highest system peak loads. The production plant costs are allocated using the 18 class average and excess demands proportionally based on the system load factor, 19 where the system load factor determines the percentage of production plant costs 20 allocated using the average demands, and the remainder of production plant costs 21 are allocated using the excess demands;"

22 Q. ARE YOU GENERALLY FAMILIAR WITH THE PRODUCTION COST ALLOCATORS

23 INCLUDED IN THE ELECTRIC UTILITY COST ALLOCATION MANUAL PUBLISHED BY

- 24 THE NATIONAL ASSOCIATION OF REGULATORY UTILITY COMMISSIONERS IN
- 25 JANUARY, 1992 ("NARUC MANUAL")?
- A. Yes. The NARUC Manual describes 13 production plant allocation methods, as summarized below. In examining the methods, particularly those in which generation resources are assigned operating roles as baseload or peaking resources,

1	it is important to recognize that the NARUC Manual was published in 1992, several
2	years before the Federal Energy Regulatory Commission issued Order 888 in 1996
3	and Order 2000 in 1999, which enabled the creation of Independent System
4	Operators and Regional Transmission Organizations. The centralized operation of
5	these organizations across broader regions renders a utility-specific assignment of
6	generation resources to roles, and associated production plant cost allocators, less
7	relevant now than they would have been when the NARUC Manual was published.
8	1) Peak Demand Methods
9	a. Single Coincident Peak Method ("1CP"), which allocates production plant
10	costs according to customer class contributions to the utility's highest
11	measured one-hour demand in the test year. See NARUC Manual, page 44.
12	b. Summer and Winter Peak Method, which, if the summer and winter peaks
13	are close in value, allocates production plant costs according to the average
14	of customer class contributions to those seasonal peaks. Id., page 45.
15	c. The Sum of the Twelve Monthly Coincident Peak Method ("12CP"), which, if
16	monthly peaks "lie within a narrow range", allocates production plant costs
17	according to the average of customer class contributions to the CP in each
18	month of the year. <i>Id.,</i> page 46.
19	d. Multiple Coincident Peak Method, which allocates production plant costs
20	according to the average of customer class contributions to more than one
21	peak, which can represent more than one of the monthly CP, or more than

.

1	one specified hour across the year, even within a month. Id. In my
2	experience, in fully vertically integrated jurisdictions, this methodology uses
3	one or more of the monthly CP, typically focused on the traditional four
4	summer peak months. More generally, the NARUC Manual suggests
5	thresholds for inclusion of five and ten percent of the maximum system peak.
6	e. All Peak Hours Approach, which allocates production plant costs according to
7	the average of customer class contributions to all defined peak hours. Id.,
8	page 47.
9	2) Energy Weighting Methods
10	a. A&E, which I will discuss in more detail below, and is suggested by the
11	NARUC Manual as an appropriate method to use if the Commission
12	determines it appropriate to include average demand, which is essentially
13	energy, in production plant cost allocation. Id., page 49.
14	b. Equivalent Peaker Method, which is based on generation planning and
15	designates generation units as either demand (peaking) or energy (baseload),
16	or some mix thereof, to determine the percent of production plant costs that
17	are to be allocated to the customer classes based on demand and energy.
18	The NARUC Manual notes that this method ignores the relative fuel costs and
19	savings that can occur with different generation types. Id., page 52 to page
20	55.
21	c. Base and Peak Method, which is similar to the Equivalent Peaker Method,

1			but assigns the energy portion of production plant cost based on class
2			contributions to on-peak energy usage. <i>Id.</i> , page 55 to page 56.
3		d.	Judgmental Energy Weightings, which is essentially a catch all for the Peak
4			and Average Demand methodology, which the Commission has previously
5			rejected as it "has the effect of double counting average demand," <sup>5</sup> and the
6	· · · .		12CP and 1/13 <sup>th</sup> Average Demand methodology, which in my experience has
7			only been used at the Florida Public Service Commission. Id., page 57.
8	<b>3</b> )	Tir	ne-Differentiated Embedded Cost of Service Methods
9	ł.	a.	Production Stacking Methods, which, similarly to the Equivalent Peaker
10	*		Method, designate certain generation resources as baseload to be allocated
11			on an energy basis, with remaining generation to be allocated on a demand
12	1 S.	ī.	basis. <i>Id.,</i> page 59 to page 60. An antice and the
13		b.	Base-Intermediate-Peak Method, which assigns generation resources to peak
14			hours, secondary peak, or intermediate, hours, and baseload hours. Costs
15	4 - 4 <sup>- 1</sup>		for peak resources would then be allocated per a CP allocator, for
16		n X	intermediate resources would be allocated per class contributions to the
17		۰.,	intermediate period, and for baseload resources would be allocated per an
18	4 <sup></sup> -	17	energy allocator. Id., page 60 to page 62.
19		c.	Loss of Load Probability ("LOLP") Production Cost Method, in which hourly

<sup>5</sup> See File No. ER-2014-0258, Report and Order, April 29, 2015, page 71.

1		LOLPs are calculated and the hours grouped into on-peak, off-peak, and
2		shoulder periods. Production plant costs are allocated to rating periods
3		according to the relative proportions of LOLPs occurring in each, and then
4	. ÷	allocated to classes using the allocators determined to be appropriate for
5		each rating period. <i>Id.</i> , page 62.
6		d. Probability of Dispatch Method, which analyzes the hourly load curve for the
7		utility and the generation resources normally used to serve each hourly load.
8		The annual revenue requirement of each generation resource is then divided
9		by the number of hours it operates in the year to create a "per hour cost."
10		The per hour costs are then allocated to classes according to class energy
11		usage in each hour. Id.
12	Q.	WHAT IS YOUR UNDERSTANDING OF THE PRODUCTION COST ALLOCATOR
13		PROPOSED BY AMEREN IN THIS DOCKET?
14	Α.	My understanding is that Ameren proposes an A&E allocator based on the four non-
15		
		coincident peaks ("NCP") for each customer class, or A&E 4NCP. The Company
16		coincident peaks ("NCP") for each customer class, or A&E 4NCP. The Company proposes to use the four NCP for each customer class regardless of when during the
16 17		coincident peaks ("NCP") for each customer class, or A&E 4NCP. The Company proposes to use the four NCP for each customer class regardless of when during the year those NCP occurred, and those four NCP are averaged in the calculation of the
16 17 18		coincident peaks ("NCP") for each customer class, or A&E 4NCP. The Company proposes to use the four NCP for each customer class regardless of when during the year those NCP occurred, and those four NCP are averaged in the calculation of the allocator. Additionally, the Company proposes to manually adjust the Lighting
16 17 18 19		coincident peaks ("NCP") for each customer class, or A&E 4NCP. The Company proposes to use the four NCP for each customer class regardless of when during the year those NCP occurred, and those four NCP are averaged in the calculation of the allocator. Additionally, the Company proposes to manually adjust the Lighting Classes to recognize that the classes tend to peak during off-peak winter periods.

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1 Q. WHAT IS YOUR UNDERSTANDING OF AN A&E ALLOCATOR?

An A&E allocator is an allocator that recognizes the contribution of each class to the 2 Α. utility's average demand, which is total annual kWh divided by 8,760 hours in a 3 typical year, as well as the relative peak demand of each class. As such, A&E is a 4 methodology often used when a Commission determines that production plants are 5 used to provide energy as well as peak demand. However, the A&E allocator differs 6 from other allocators that have an energy component in that it does not double 7 count the energy portion of the allocator, as is the case with the Peak and Average 8 allocator as discussed above. Additionally, the A&E allocator does not rely on fixed 9 subjective resource weightings that are incompatible with the flexible nature of 10 regional transmission organization dispatch of generation, as is the case with the 11 Base-Intermediate-Peak allocator. As such, even with its use of energy as part of the 12 allocator, the A&E allocator is, in my experience, an objective, transparent, and 13 reasonable production plant cost allocator. 14

Mechanically, the CP or NCP peak demand value for each class – in Ameren's case, 4NCP – is subdivided into average demand and excess demand. The average demand, or energy portion for each class, is weighted by the system load factor. The excess demand portion, which is the difference between the average demand and the peak demand for each class, is weighted by 1 minus the system load factor. As a result, as system load factor increases and the system gets less peaky, the overall weighting of the average demand portion of the allocator increases, and

1		conversely, as the system load factor decreases and the system gets more peaky, the
2		overall weighting of the excess demand portion of the allocator increases. At a
3		theoretical maximum of 100 percent system load factor, the A&E allocator is
4		essentially an energy allocator.
5	Q.	HAVE YOU EXAMINED THE COMPANY'S PROPOSED A&E 4NCP ALLOCATOR?
6	Α.	Yes. Upon examination of the calculation of Ameren's proposed allocator, it appears
7		that allocator differs slightly from that specified in Section 393.1620.1(1) RSMo, in
8		that the months used for the 4NCP in the A&E 4NCP are "determinedfor the four
9	· · ** •,	months with the highest system peak loads." As shown in Exhibit SWC-4 row (9), the
10		four months with the highest system peak loads are February, June, July, and
11		August, but in rows (10) through (14) the class NCPs used for the calculation of the
12		allocator are, depending on the class, from January, March, April, May, June, July,
13		August, and September.
14	Q.	HAVE YOU CALCULATED THE 4NCP A&E PER THE LANGUAGE IN SECTION
15		393.1620.1(1) RSMo?
16	Α.	Yes, as shown in Exhibit SWC-5. This calculation uses the class NCPs from the four
17		months with the highest system peak loads (February, June, July, and August), and

also accepts Ameren's lighting proposal and the Company's use of a single CP for the
 calculation of the system load factor. As shown in Table 2, the difference in
 outcomes is relatively small, with the largest changes being an addition of 0.24
 percent to Residential and a reduction of 0.25 percent to LPS.

	<b>Customer Class</b>	Ameren Proposed A&E 4NCP (%)	Per 393.1620.1(1) A&E 4NCP (%)	Difference (%)				
	Residential	52.53	52.76	+0.24				
	SGS	10.93	10.89	-0.03				
	LGS/SP	28.71	28.77	+0.05				
	LPS	7.50	7.24	-0.25				
	Lighting	0.34	0.33	-0.01				
	Source: Exhibit SWC	-5	t d' de la					
~								
<b>L</b> .	HAVE YOU CALLU	LATED ALLOCATORS	ruk offer Production					
	ALLOCATION METH	ODS INCLUDED IN TH	E NARUC MANUAL THAT	MECG BELIE				
	ARE ALSO REASONA	ABLE?						
•	Vac Decad on the	liceuccione abovo roga	rding the nature of produc	tion plant o				
4.	Yes. Based on the t	iscussions above rega	rung the nature of produc					
	and allocators inclu	ided in the NARUC N	Aanual and an examination	on of Amer				
				and anocators included in the WAROC Wandai and an examination of Amere				
	system peaks from	their proposed test ve	ar data it would be reason					
	, ,	then proposed test ye	ai uata, it would be leason	hable to allo				
	production plant or	osts on a 1CP hasis o	ar multiple CP basis at eit	hable to allo				
	production plant co	osts on a 1CP basis o	or multiple CP basis at eit	hable to allo ther five or				
	production plant co	osts on a 1CP basis on system peak.	or multiple CP basis at eit	hable to allo ther five or				
	production plant co	osts on a 1CP basis on system peak.	or multiple CP basis at eit	hable to allo				
2.	production plant co percent of maximum BASED ON YOUR A	nsen proposed test ye osts on a 1CP basis o n system peak. NALYSIS, HOW MANY	or multiple CP basis at eit CPS SHOULD BE INCLUDI	hable to allo ther five or ED IN THE T				
Q.	production plant co percent of maximum BASED ON YOUR A	nsystem peak. NALYSIS, HOW MANY	or multiple CP basis at eit CPS SHOULD BE INCLUDI	hable to allo ther five or E <b>D IN THE 1</b>				
ς.	production plant co percent of maximum BASED ON YOUR A MULTIPLE CP ALLOC	osts on a 1CP basis on n system peak. NALYSIS, HOW MANY CATORS?	or multiple CP basis at eit	hable to allo ther five or E <b>D IN THE T</b>				
<b>Q.</b>	production plant co percent of maximum BASED ON YOUR A MULTIPLE CP ALLOC Based on my analys	osts on a 1CP basis on n system peak. NALYSIS, HOW MANY CATORS? sis of Ameren's mont	or multiple CP basis at eit CPS SHOULD BE INCLUDI	hable to allo ther five or E <b>D IN THE T</b> r, a multiple				
<b>Q.</b>	production plant co percent of maximum BASED ON YOUR A MULTIPLE CP ALLOC Based on my analys	osts on a 1CP basis on n system peak. NALYSIS, HOW MANY CATORS? sis of Ameren's month	or multiple CP basis at eit CPS SHOULD BE INCLUDI	hable to allo ther five or E <b>D IN THE 1</b> r, a multiple				
<b>2.</b>	production plant co percent of maximum BASED ON YOUR A MULTIPLE CP ALLOO Based on my analys production plant co	osts on a 1CP basis on n system peak. NALYSIS, HOW MANY CATORS? sis of Ameren's month st allocator should use	or multiple CP basis at eit CPS SHOULD BE INCLUDI hly peaks for the test yea e a 2CP based on the syste	hable to allo ther five or E <b>D IN THE T</b> r, a multiple em peaks in				
<b>2.</b> 4.	production plant co percent of maximum BASED ON YOUR A MULTIPLE CP ALLOC Based on my analys production plant co	osts on a 1CP basis of n system peak. NALYSIS, HOW MANY CATORS? sis of Ameren's month st allocator should use	or multiple CP basis at eit CPS SHOULD BE INCLUDI hly peaks for the test yea e a 2CP based on the syste	hable to allo ther five or ED IN THE 1 r, a multiple em peaks in a 3CP based				
<b>2.</b>	production plant co percent of maximum BASED ON YOUR A MULTIPLE CP ALLOC Based on my analys production plant co and August at the f	osts on a 1CP basis on n system peak. NALYSIS, HOW MANY CATORS? sis of Ameren's month st allocator should use ive percent of maximu	or multiple CP basis at eit <b>CPS SHOULD BE INCLUDI</b> hly peaks for the test year e a 2CP based on the syste um system peak level and	hable to allo ther five or ED IN THE T r, a multiple em peaks in a 3CP base				
<b>).</b>	production plant co percent of maximum <b>BASED ON YOUR A</b> <b>MULTIPLE CP ALLOO</b> Based on my analys production plant co and August at the f the system peaks in	osts on a 1CP basis of n system peak. NALYSIS, HOW MANY CATORS? sis of Ameren's month st allocator should use ive percent of maximu n June, July, and Augu	or multiple CP basis at eit <b>CPS SHOULD BE INCLUD</b> hly peaks for the test year e a 2CP based on the syster um system peak level and ist at the 10 percent of m	hable to allo ther five or ED IN THE T r, a multiple em peaks in a 3CP base				
<b>t.</b>	production plant co percent of maximum <b>BASED ON YOUR A</b> <b>MULTIPLE CP ALLOC</b> Based on my analys production plant co and August at the f the system peaks in	osts on a 1CP basis on n system peak. NALYSIS, HOW MANY CATORS? sis of Ameren's month st allocator should use ive percent of maximu n June, July, and Augu	or multiple CP basis at eit <b>CPS SHOULD BE INCLUDI</b> hly peaks for the test yea e a 2CP based on the syste um system peak level and list at the 10 percent of m	hable to allo ther five or ED IN THE 1 em peaks in a 3CP base haximum sys				

#### The Midwest Energy Consumers Group Direct Testimony of Steve W. Chriss Missouri File No. ER-2021-0240



Figure 2. Ameren Monthly System CP as a Percentage of Maximum System CP. Source: Exhibit SWC-6

### 4 Q. WHAT ARE THE RESULTING REASONABLE CP-BASED ALLOCATORS BASED ON 5 AMEREN'S PROPOSED TEST YEAR DATA?

1 2

3

A. The resulting reasonable CP-based allocators are shown in Table 3 along with the
 Ameren Proposed and Section 393.1620.1(1) 4NCP allocators for comparison
 purposes. One notable difference between the CP-based allocators and the A&E
 allocators is that a portion of production plant cost is allocated to Lighting by the
 A&E allocators.

		Table 3. Cor 393.1620.1(	npariso 1) A&E 4	n of CP-Based INCP Results.	Allocators w	vith Ameren Propo	sed and Section
		Customer	1CP (%)	2CP @ 5% of Max (%)	3CP @ 10% of Max (%)	Per Section 393.1620.1(1) A&E 4NCP (%)	Ameren Proposed A&E 4NCP (%)
		Residential	53.34	53.36	53.08	52.76	52.53
		SGS	10.86	10.85	10.79	10.89	10.93
		LGS/SP	28.56	28.36	28.52	28.77	28.71
		LPS	7.23	7.42	7.61	7.24	7.50
		Lighting	0.00	0.00	0.00	0.33	0.34
		Sources: Exh	ibits SW	/C-5 and SWC-	6		
1		the second	ž		e.	ч У.	
2	Q.	WHAT IS ME	ECG'S RE	COMMENDA	TION TO THE	COMMISSION ON	THIS ISSUE?
3	A.	For the purp	ooses of	this docket,	MECG suppo	orts the allocation of	of production plant
4		cost using t	the Com	npany's propo	osed A&E 4	NCP allocator as n	nodified slightly to
5		comply with	n Sectio	n 393.1620.1	(1) RSMo.	MECG believes th	nat the A&E 4NCP
6		methodolog	y is reas	onable, and fo	or commercia	al and industrial cus	stomers, the results
7		of the Com	pany's p	proposed allo	cator are ge	nerally similar to	the reasonable CP-
-			tors oal	aulated above		ીસ તમાર કરવા છે. તેને તેમ	(194) - 1
8		based alloca	tors cal	culated above	4	· ·	
9						a a triff i farma a f	141 s
10	Revenue	Allocation					
11	Q.	HOW DOES	THE CO	MPANY REPR	ESENT WHE	THER RATES FOR A	CUSTOMER CLASS
12		ACCURATEL	Y REFLE	CT THE UNDE	RLYING COST	OF SERVICE?	r
13	Α.	The Compar	ny repre	sents this rela	tionship in il	ts cost of service st	udy results through
14		the use of c	lass-spe	cific rates of r	eturn. <i>See</i> S	Schedule TH-D1. Th	nese rates of return
15		can be conv	erted in	to a rate of re	eturn index ('	"RRI"), which is an i	ndexed measure of
16		the relation	ship of t	the rate of ret	urn for an ir	ndividual rate class	to the total system

6	Q.	HAVE YOU CALCULATED A RRI FOR EACH CUSTOMER CLASS BASED ON AMEREN'S
5		responsibility for the classes with an RRI less than 1.0.
4		those rate classes with an RRI greater than 1.0 shoulder some of the revenue
3		the rate class is paying rates less than the costs incurred to serve that class. As such,
2		excess of the costs incurred to serve that class, and an RRI less than 1.0 means that
1		rate of return. An RRI greater than 1.0 means that the rate class is paying rates in

- 7 COST OF SERVICE RESULTS?<sup>6</sup>
- 8 A. Yes, as shown in Table 4 below.

Customer Class	Rate of Return (%)	RRI
Residential	3.10	0.65
Small General Service	5.15	1.08
Large General	7.35	1.54
Service/Small Primary		
Service	9. 	
Large Primary Service	7.70	1,62
Company Owned Lighting	9.02	1.89
Customer Owned Lighting	-4.57	(0.96)

10 Q. DO THE RATES FOR THE LGS AND SP CLASSES PROVIDE A RATE OF RETURN FOR

11 THE COMPANY IN EXCESS OF THEIR COST OF SERVICE LEVELS?

12 A. Yes. As shown in Table 4, Ameren's cost of service results show that LGS and SP,

#### 13 with an RRI of 1.54, provide a rate of return significantly above the cost of service

<sup>&</sup>lt;sup>6</sup> The slight modification to Ameren's A&E methodology discussed above would not materially change the rate of return index calculated for each class.

level for the class. Additionally, SGS, LPS, and Company Owned Lighting are also
 paying rates in excess of their respective cost of service levels, though SGS is much
 closer to cost of service than the other rate classes.

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#### Q. HAVE LGS AND SP RATES PROVIDED A RATE OF RETURN ABOVE THEIR COST OF

#### SERVICE LEVELS SINCE THE COMPANY'S 2007 RATE CASE?

6 A. Yes. As shown in Table 5, LGS and SP rates have provided a rate of return above 7 their cost of service levels in every rate case back to and including the Company's 8 2007 rate case. In total, as shown in Table 1 earlier in this testimony, this has 9 resulted in LGS and SP customers paying rates well in excess of the Company's cost 10 to serve them since 2007.<sup>7</sup> As such, rate relief is long overdue.

Table 5. LGS/SP Rate of Return, Ameren Cost of Service Study Results, Past Rate Cases.

	LGS/SP Rate of	Total Missouri	Rate of Return
Case	Return (%)	Rate Of Return (76)	
ER-2007-0002 (LGS)	5.86	2.74	2.14
ER-2007-0002 (SP)	4.47	2.74	1.63
ER-2008-0318	7.01	4.06	1.73
ER-2010-0036	6.12	1.89	3.24
ER-2011-0028	8.26	4.59	1,80
ER-2012-0166	6.32	2.89	2.19
ER-2014-0258	7.57	4,44	1.71
ER-2016-0179	9,73	5.41	1.80
ER-2019-0335	11.35	7.37	1.54
Present Case	7.35	4.76	1.54
Source: Table 4, Dir	ect Testimony of St	eve W. Chriss, Table 3	3, on behalf of The
Midwest Energy Cons	sumers Group, Case	No. ER-2019-0335	

<sup>&</sup>lt;sup>7</sup> Prior to 2007 Ameren had not had a general rate case for approximately 20 years.

- 1 Q. HAS THE COMPANY CALCULATED THE REVENUE NEUTRAL<sup>8</sup> REVENUE CHANGES
- 2 REQUIRED TO BRING EACH CLASS TO COST OF SERVICE PER THE COMPANY'S COST
- 3 OF SERVICE STUDY IN THIS CASE?
- 4 A. Yes, as shown in Table 6.

t Results, Ameren Propos	ed Cost of Service Study.	
Revenue Neutral Shift		
(\$000)	(%)	
\$93,202	7.32	
(\$4,258)	-1.55	
(\$66,501)	-9.14	
(\$17,855)	-9.47	
(\$6,183)	-17.35	
\$1,594	55,96	
SCH 1		
	t Results, Ameren Propos Revenue Ne (\$000) \$93,202 (\$4,258) (\$66,501) (\$66,501) (\$6,183) \$1,594 SCH 1	

- 6 For LGS and SP specifically, the revenue neutral change required is a reduction of
- 7 approximately \$66.5 million.

#### 8 Q. DOES THE COMPANY STATE THAT EQUAL RATES OF RETURN FOR EACH CLASS ARE

- 9 AN APPROPRIATE STARTING POINT WHEN DESIGNING RATES?
- 10 A. Yes. The Company states that equal rates of return (i.e., rates set at cost of service)
- 11 for all customer classes are an appropriate starting point for designing rates for
- 12 three reasons:

5

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1) Equity and fairness to all electric customers;

<sup>&</sup>lt;sup>8</sup> Revenue neutral refers to the changes necessary to bring each class to cost of service assuming no overall change in the utility's revenues.

1		2) Encouraging cost-effective utilization of electricity; and
2		3) Competition, in that cost-based electric rates permit the Company to
3		compete with alternative fuels, co-generation, and other electric providers
4		for new commercial and industrial customers. See Direct Testimony of
5		Michael W. Harding, page 3, line 13 to page 4, line 10.
6	Q.	HAS THE COMPANY STATED IN THE PAST THE ROLE OF A REGULATOR RELATIVE TO
7		COST OF SERVICE IN THE SETTING OF RATES?
8	Α.	Yes. In Case No. EC-2014-0224, Ameren witness Terry M. Jarrett states that "[t]he
9		regulator's job is to make sure the rates are fair according to the cost of service for
10		each class." See Case No. EC-2014-0224, Rebuttal Testimony of Terry M. Jarrett,
11		page 6, line 9 to line 10.
12	Q.	WHAT IS YOUR UNDERSTANDING OF AMEREN'S PROPOSED REVENUE ALLOCATION
13		IN THIS CASE?
14	A.	My understanding is that Ameren has put forth a two-step revenue allocation
15		proposal:
16		1) Increase or decrease current base retail revenues on a revenue neutral basis
17		for the two Lighting classes; and
18		2) Allocate the increase or decrease on an equal percentage basis after any
19		potential revenue neutral adjustments in step 1. See Direct Testimony of
20		Michael W. Harding, page 5, line 8 to page 6, line 2.
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1	Q.	IS THE COMPANY'S PROPOSAL EFFECTIVELY AN EQUAL PERCENTAGE INCREASE
2		FOR ALL CUSTOMER CLASSES WITH THE EXCEPTION OF CUSTOMER-OWNED
3		LIGHTING?
4	Α.	Yes, Ameren's proposal is effectively an equal percent increase as all classes, with
5		the exception of Customer-Owned Lighting, are proposed to receive increases
6		between 11.80 percent and 11.99 percent, versus an average increase of 11.93
7		percent. See Direct Testimony of Michael W. Harding, page 6, Table 3.
8	Q.	HOW DOES THE COMPANY CHARACTERIZE ITS REVENUE ALLOCATION PROPOSAL?
9	Α.	The Company characterizes its revenue allocation proposal as "a modest departure
10		from establishing class revenue requirements on the basis of equal class rates of
11		return as shown in its CCOSS." Id., page 5, line 4 to line 5. This characterization is, at
12	,	best, a complete misrepresentation of the Company's proposal, which not only
13		departs from establishing class revenue requirements on the basis of equal class
14		rates of return, but charges headlong to move rates further from cost-based levels.
15		As an example, the Company actually proposes an above average increase for both
16		LGS and SP – 11.96 percent and 11.98 percent, respectively. This proposed increase
17		is greater than the 11.93 percent system average increase counter to their own
18		evidence that supports a 1.4 percent cost-based increase and moves LGS and SP
19		further from cost-based rates. Id., page 6, Table 3.

1	Q.	WHAT IS MECG'S RECOMMENDATION TO THE COMMISSION IF THE COMMISSION
2	e.	WERE TO AWARD AMEREN ITS PROPOSED REVENUE REQUIREMENT INCREASE?
3	Α.	Due to the level of the Company's proposed increase, if the Commission were to
4		award Ameren its proposed revenue requirement increase, the Commission should
5		reject the Company's revenue allocation proposal and assign an equal percentage
б	i - 1	increase to all classes.
7	Q.,	WHAT IS MECG'S RECOMMENDATION TO THE COMMISSION IF THE COMMISSION
8		AWARDS A REVENUE REQUIREMENT DECREASE LOWER THAN THAT PROPOSED BY
9		THE COMPANY?
10	Α.	If the Commission awards a revenue requirement increase lower than that proposed
11	1	by the Company, MECG recommends the Commission take significant steps to bring
12		the rates paid by SGS, LGS, SP, and LPS closer to their cost of service-based levels.
13	· 1	Specifically, MECG recommends that the Commission allocate the revenue increase
14	, <sup>11</sup>	using the following steps:
15		1) Apply half of the difference between the approved revenue requirement and
16		Ameren's proposed revenue requirement as a reduction to SGS, LGS, SP, LPS,
17		and Company Owned Lighting based on the proportional contribution of
18		each class to the overall revenue neutral shift to cost of service from the
19		Company's proposed cost of service study; and