Exhibit No.: Issue(s):

Witness/Type of Exhibit: Sponsoring Party: Case No.: Class Cost of Service/ Rate Design Kind/Direct Public Counsel ER-2011-0028

DIRECT TESTIMONY

OF

RYAN KIND

Submitted on Behalf of the Office of the Public Counsel

UNION ELECTRIC COMPANY D/B/A AMERENUE

Case No. ER-2011-0028

February 10, 2011

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

In the Matter of Union Electric Company d/b/a AmerenUE's Tariff to Increase Its Annual Revenues for Electric Service

Case No. ER-2011-0028

AFFIDAVIT OF RYAN KIND

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STATE OF MISSOURI)) ss COUNTY OF COLE)

Ryan Kind, of lawful age and being first duly sworn, deposes and states:

- 1. My name is Ryan Kind. I am a Chief Utility Economist for the Office of the Public Counsel.
- 2. Attached hereto and made a part hereof for all purposes is my direct testimony.
- 3. I hereby swear and affirm that my statements contained in the attached affidavit are true and correct to the best of my knowledge and belief.

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Subscribed and sworn to me this 10th day of February 2011.



JERENE A. BUCKMAN My Commission Expires August 23, 2013 Cole County Commission #09754037

Jerene A. Buckman

Notary Public

My commission expires August 23, 2013.

1		DIRECT TESTIMONY
2		OF
3		RYAN KIND
4		UNION ELECTRIC COMPANY
5		CASE NO. ER-2011-0028
6	Q.	PLEASE STATE YOUR NAME, TITLE, AND BUSINESS ADDRESS.
7	А.	Ryan Kind, Chief Energy Economist, Office of the Public Counsel, P.O. Box 2230,
8		Jefferson City, Missouri 65102.
9	Q.	ARE YOU THE SAME RYAN KIND THAT HAS PREVIOUSLY FILED DIRECT TESTIMONY IN
10		THIS CASE REGARDING REVENUE REQUIREMENT ISSUES?
11	А.	Yes.
12	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY?
13	A.	The purpose of this testimony is: (1) to present the results of Public Counsel's Class Cost
14		of Service (Class COS or CCOS) study in this case and describe the portions of Public
15		Counsel's study for which I am responsible and (2) to make OPC's rate design
16		recommendations.
17	Q.	WHAT ARE THE MAIN PURPOSES OF PERFORMING A CLASS COS STUDY?
18	А.	The primary purpose of a class COS Study is to determine the COS for each customer
19	I	class by allocating costs in a reasonable manner. Class COS studies also provide

guidance for determining how rates (e.g., customer charges) should be designed to collect revenues from customers within a class, depending on customer usage levels and patterns.

Q. PLEASE OUTLINE THE BASIC ELEMENTS OF THE CLASS COS STUDY THAT YOU PERFORMED FOR THIS CASE.

A. The three primary steps that must be taken in order to perform a class COS Study are the functionalization, classification, and allocation of costs.

Functionalization of costs involves categorizing accounts by the type of function with which an account is associated. Accounts are categorized as being related to Production, Transmission, Distribution, Customer Accounts, Administrative and General, etc., depending on the electric utility functions of which they are a part.

Once costs have been functionalized, they are classified as being customer (related to the number of customers), demand (related to the portion of peak usage), commodity (related to annual energy consumption), or "other" costs, depending on the function with which they are associated. For example, customer records and collection expense, meter plant, and meter reading expense are considered customer-related, since a company's expenditures in these areas are related to the number of customers that it serves. These expenses, although dependent to some extent on a customer's size, will be incurred for each customer whether or not the customer uses any electricity so it would not be reasonable to classify them as being commodity-related.

Finally, after costs have been classified, the analyst chooses allocation factors that will allocate a reasonable share of jurisdictional costs to each customer class. Allocation factors are based on ratios that represent the proportion of total units (total number of customers, total annual energy consumption, etc.) attributable to a certain customer class.

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These ratios are then used to calculate the proportions of various cost categories for which a class is responsible.

Q. WHICH CUSTOMER CLASSES HAVE YOU USED IN YOUR CLASS COS STUDY?

A. I have used the Residential (Res), Small General Service (SGS), Large General Service (LGS), Small Primary Service (SPS), Large Primary Service (LPS) and Large Transmission Service (LTS) classes. The LGS and SPS classes were combined into one class for this CCOS study but that combination should not be interpreted as an OPC endorsement of combining these two separate rate classes.

Q. ON WHAT DATA IS YOUR CLASS COS STUDY BASED?

A. It is based on information from Union Electric Company (UE or Company) and the Commission Staff (Staff). I used financial information from Staff for the test year in this case. My use of this information should not be seen as an endorsement of Staff's or UE's methods for calculating accounting costs or billing determinants.

Q. NEXT, PLEASE DISCUSS THE METHODS THAT YOU USED TO ALLOCATE FUNCTIONALIZED COSTS.

 Public Counsel witness Barbara Meisenheimer calculated the Production allocator used in the class COS Study. Ms. Meisenheimer's Direct Testimony in this case describes how her allocator was developed.

Q. DID YOU FOLLOW THE COMMONLY ACCEPTED PRACTICE IN CCOS STUDIES OF HAVING EXPENSES FOLLOW PLANT?

21 A. Yes.

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Direct Testimony of Ryan Kind

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Q. WHAT DO YOU MEAN BY "EXPENSES FOLLOW PLANT"?

- A. I simply mean that operation and maintenance costs associated with a particular type of plant were allocated in the same manner as the corresponding plant.
- Q. How did you allocate General Plant?
- A. I developed a composite allocator based on previously allocated gross non-general plant and applied this to General Plant.
- Q. How did you allocate power production expenses?
- A. I started the allocation process by using the breakdown of fuel and other fuel-related costs that was part of the accounting information provided by Staff. I applied the Company's calculation of kWhs at generation by class to allocate the energy-related production and purchased power expenses.
 - I used the Average and 4 Coincident Peak (Average and 4 CP) production plant allocator to allocate the other production expenses. These "other" expenses consist of production expenses that for the most part do not vary directly with the amount of power being generated and include the fixed (capacity) charge portion of Purchased Power (Account 555).

Q. HOW DID YOU USE THE "EXPENSES FOLLOW PLANT" PRINCIPLE TO ALLOCATE DISTRIBUTION EXPENSES?

A. I applied the same allocators to distribution expenses that I had applied to the plant associated with those expenses. For expenses that are not associated with any particular

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category of distribution plant, such as Supervision and Engineering (Account 580), I used an allocator based on allocated gross distribution plant.

Q. HOW DID YOU ALLOCATE CUSTOMER ACCOUNTS?

A. Accounts 902, 903, and 904 were allocated using allocators that UE developed for its
 CCOS study in this case. I allocated Accounts 901 and 905 based on the costs that were allocated to accounts 902, 903, and 904.

Q. How did you allocate Customer Service and Sales Expenses?

A. Customer service expenses were allocated based on the percentage of Customer Accounts costs that were allocated to each customer class. I used my class COS allocator to allocate Sales Expenses. A class COS allocator allocates selected costs based on the sum of all other costs (except for those selected costs allocated based on class COS) that have been allocated to each customer class.

Q. How did you allocate Administrative and General (A & G) expenses?

A. I divided these expenses into three categories. I allocated Property Insurance expense (Account 924) on the basis of net plant since this expense is linked to the amount of net plant already allocated to each customer class. Injuries and Damages and Employee Pensions and Benefits (Accounts 925 and 926) are both payroll-related expenses so I allocated them on the basis of the amount of payroll expense that I had previously allocated to each class. I believe all of the remaining A & G accounts represent expenditures that support the company's overall operation, so I have allocated them based on each class's share of total cost of service. Direct Testimony of Ryan Kind

Q. HOW DID YOU ALLOCATE PROPERTY AND PAYROLL TAXES?

A. I allocated property taxes on the basis of allocated total net plant and payroll taxes on the basis of allocated payroll expenses.

Q. HOW DID YOU ALLOCATE STATE AND FEDERAL INCOME TAXES?

A. These taxes were allocated on the basis of rate base since a utility company's income taxes will be a function of the size of its rate base, and thus each class should contribute revenues for income taxes in proportion to the amount of rate base that is necessary to serve it.

Q. PLEASE DESCRIBE THE RESULTS OF PUBLIC COUNSEL'S CLASS COS STUDIES.

A. The results of Public Counsel's class COS study are summarized in Table 1 in Attachment A. Table 1 shows the results of OPC's CCOS study using the Average and 4 CP production allocator. This table shows the revenue neutral class revenue shifts (on both a dollar basis and a percentage of class revenues basis) that OPC's studies indicate would be necessary to equalize class rates of return. The study results show that residential customers are currently providing rate revenues that are roughly in line with the amount of total jurisdictional costs that were allocated to the residential class in OPC's CCOS study.

The CCOS results in Attachment A indicate that the amount of rate revenues generated by the current tariffs for the SGS and LTS classes are substantially different from the amount of costs being incurred by UE to provide service to these classes. In the case of the SGS class, the current rate revenues for this class are substantially higher than the costs of providing service to this class. The opposite situation exists with the LTS class where the current rate revenues for this class are substantially less than the costs of

providing service to this class. For the LGS/SGS class and the LPS class, there is also a discrepancy between the current rate revenues and the level of allocated costs for these classes, but the discrepancy, while greater than the discrepancy that exists for the Residential class, is substantially less than the large discrepancies already noted for the SGS and LTS classes.

Q. ARE YOU MAKING ANY RATE DESIGN RECOMMENDATIONS FOR THE RESIDENTIAL CLASS AT THIS TIME?

A. Yes. I believe that these study results show that there is no need to make a revenue neutral class revenue requirement shift in this case for the Residential class.

Q. ARE YOU MAKING ANY RATE DESIGN RECOMMENDATIONS FOR THE OTHER CUSTOMER CLASSES AT THIS TIME?

A. Yes. OPC recommends making some revenue neutral class rate revenue shifts for the remaining classes to bring the amount of rate revenues collected from these classes closer to the level of costs that were allocated to these classes in OPC's CCOS study. We recommend making revenue neutral shifts (revenue neutral from a total company perspective) that move the class revenues half-way towards the class cost of service. There should be an additional constraint placed on the extent to which class revenues are moved towards class cost of service to ensure that no class receives an overall reduction in their rate revenues (the combined effect of a class's revenue neutral rate revenue decrease and the class's share of an overall increase in the company's revenue requirement) at the same time other customer classes are having overall increases in their rate revenues.

Direct Testimony of Ryan Kind

Q.	IS IT APPROPRIATE FOR THE COMMISSION TO CONSIDER FACTORS OTHER THAN THE
	RESULTS OF CCOS STUDIES WHEN DETERMINING THE MAGNITUDE OF REVENUE
	NEUTRAL SHIFTS, IF ANY, THAT ARE APPROPRIATE IN A SPECIFIC RATE CASE?
А.	Certainly. As the Commission stated in its Report and Order in UE's most recent rate
	case (Case No. ER-2010-0036):
	However, the Commission is not required to precisely set rates to match the indicated class cost of service. Instead, the Commission has a great deal of discretion to set just and reasonable rates, and can take into account other factors, such as public acceptance, rate stability and revenue stability in setting rates.
	Additional factors that the Commission may want to consider also include the perceived
	value of service, affordability of service, rate impacts, and rate continuity.
Q.	DOES THIS CONCLUDE YOUR DIRECT TESTIMONY ON CLASS COST OF SERVICE AND
	RATE DESIGN ISSUES?
A.	Yes.
	A. Q.

Results From OPC's CCOS Study

Table 1 - Results of OPC's CCOS Study Using the Avg. & 4 CP Production Allocator

	Res	SGS	LGS/SPS	LPS	LTS	System
Current	\$1,094,889,342	\$279,625,682	\$709,229,056	\$178,621,129	\$139,489,742	\$2,401,854,951
Rate Revenue	ΨT,004,000,042	ΨΖΙ 3,023,002	Ψ <i>1</i> 03,223,000	ψ170,021,123	φ100, 1 00,1 1 2	ΨΖ,+01,00+,001
Revenue	\$34,118,624	-\$31,385,597	-\$40,352,255	\$11,324,436	\$26,294,792	\$0
Shift	ψ34,110,024	-931,303,397	-940,332,233	φ11,324,430	\$20,294,792	90
% Revenue	3.12%	-11.22%	-5.69%	6.34%	18.85%	0.00%
Shift	3.1270	-11.2270	-5.09%	0.34%	10.00%	0.00%