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MISSOURI PUBLIC SERVICE COMMISSION

CASE NO. ER-2011-0028

DIRECT TESTIMONY

OF

WILBON L. COOPER

ON

BEHALF OF

UNION ELECTRIC COMPANY d/b/a AmerenUE

St. Louis, Missouri September, 2010

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1	DIRECT TESTIMONY		
2	OF		
3	WILBON L. COOPER		
4	CASE NO. ER-2011-0028		
5	I. <u>INTRODUCTION</u>		
6	Q. Please state your name and business address.		
7	A. My name is Wilbon L. Cooper. My business address is One Ameren		
8	Plaza, 1901 Chouteau Avenue, St. Louis, Missouri 63103.		
9	Q. By whom are you employed and in what capacity?		
10	A. I am employed by Union Electric Company d/b/a AmerenUE		
11	("AmerenUE" or the "Company") as the Manager of the Rates and Tariff Department.		
12	Q. Please describe your educational background and employment		
13	experience.		
14	A. I have a Bachelor of Science degree in Electrical Engineering from the		
15	University of Missouri-Rolla.		
16	I was employed as an Assistant Engineer in the Rate Engineering Department of		
17	Union Electric in June 1980. My work included assignments relating to the general		
18	analyses and administration of various aspects of Union Electric's electric, gas, and steam		
19	rates. In October 1989, I was appointed Supervising Engineer - Rate Analysis in the		
20	Rate Engineering Department of Corporate Planning at Ameren Services Company. In		
21	this position, I was responsible for meeting the analytical requirements for the Company's		
22	retail gas and electric rates and wholesale electric rates, including load research and		

1 various cost of service and rate design studies, as assigned. I was appointed to my 2 present position of Manager of Rates and Tariffs in March 2003. 3 I currently have responsibility for the general policies and practices associated 4 with the day-to-day administration and design of AmerenUE's electric and gas rate 5 tariffs, riders and rules and regulations tariffs on file with the Missouri Public Service 6 Commission ("Commission") and in the participation in various proceedings before this 7 regulatory agency. In addition, Rates and Tariffs is responsible for conducting class cost 8 of service and rate design studies and the participation in other projects of a general 9 corporate nature, as requested by the Company's Vice President Regulatory and 10 Legislative Affairs. 11 I have previously submitted testimony before the regulatory commissions of 12 Missouri, Illinois, and Iowa. 13 II. PURPOSE AND SUMMARY OF TESTIMONY 14 **Q**. What is the purpose of your direct testimony in this proceeding? 15 A. My direct testimony discusses: a) the revenue increase being proposed for the Company's electric retail rate classes; b) the development and results of a class cost 16 17 of service study being submitted in connection with the direct testimony of AmerenUE 18 witness William M. Warwick as part of this case; c) the design and development of the 19 individual class rates; and (d) a study addressing declining block Residential winter rates. 20 Q. Are you sponsoring any schedules for presentation to the Commission 21 in this proceeding?

A. Yes. I am sponsoring eight schedules. The first three, discussed
 immediately below, provide a summary of the rate increase requested in this case. I
 discuss the remaining schedules throughout my direct testimony.

4

Q. Please identify Schedule WLC-E1.

A. Schedule WLC-E1 consists of thirty-four (34) tariff sheets, which reflect the revised rate tariffs. These tariffs, taken as a whole, would provide an increase in the Company's net Missouri electric jurisdictional normalized test year revenues of approximately \$263.3 million, or approximately 10.8%, over the annualized test year base rate¹ revenue that would be realized from the tariffs which are effective at the time of filing.

11

Q. Please identify Schedule WLC-E2.

A. Schedule WLC-E2 shows the distribution of the proposed net revenue increase to the Company's various proposed rate service classifications resulting from the rates contained in the proposed tariffs in Schedule WLC-E1, excluding gross receipts taxes levied on customer billings by the various municipalities within the Company's service area.

17

Q. Please identify Schedule WLC-E3.

A. Schedule WLC-E3 illustrates the effects of the proposed rates in the tariffs in Schedule WLC-E1 upon typical monthly bills of customers served under the Company's non-lighting rate service classifications.

¹ The test year in this case is the 12 months ending March 31, 2010, with certain pro forma adjustments discussed in the direct testimony of AmerenUE witness Gary S. Weiss, including as adjusted for customer growth through February 28, 2011.

1	III. <u>CLASS COST OF SERVICE STUDY</u>
2	A. <u>Class Cost of Service Concepts and Operating System Components</u>
3	Q. Please explain what is meant by "class cost of service."
4	A. The Company currently provides service to its customers in a number of
5	rate classifications that are designated for residential or non-residential service. The non-
6	residential customer group is differentiated by customer size and the voltage level at
7	which the Company provides service. The current customer classes are Residential,
8	Small General Service ("SGS") and Large General Service ("LGS") (all of which have
9	their service delivered at a low secondary voltage level); Small Primary Service ("SPS")
10	and Large Primary Service ("LPS") (delivery at a high voltage level); Large
11	Transmission Service ("LTS") (delivery at a "transmission" voltage level) and Lighting
12	Service (both area and street lighting). A class cost of service study provides a basis for
13	allocating and/or assigning the Company's total jurisdictional cost of providing electric
14	service to these various customer classes in a manner that reflects cost causation. The
15	results of a class cost of service study with equalized rates of return are often referred to
16	as "class revenue requirements." Mr. Warwick conducted a class cost of service study
17	for this case, under my supervision, and he is sponsoring that study in direct testimony
18	filed in this proceeding.
19	Q. How are the results of a class cost of service study used by the

20 **Company**?

A. These study results are typically used to develop the target level of annual revenue that the Company should recover from each customer class through the

application of the rates or charges within the Company tariffs under which the various
 customer classes are being served.

3

Q. Please explain your use of the term "rate design."

4 The term "rate design" refers both to the process of establishing the A. 5 specific charges (e.g. monthly customer charges, dollars per kilowatt of demand and/or 6 cents per kilowatt-hour energy charges) for each customer class, as well as to the actual 7 structure of an individual class rate. The rate design, or structure, of a given class rate 8 may range in complexity from a simple structure consisting of a monthly customer 9 charge and a flat charge per kilowatt-hour (such as the Company's summer Residential 10 rate), to a more complex set of customer, demand, energy and reactive charges (such as 11 the Company's SPS, LPS and LTS rates). In all instances, however, the charges within a 12 specific rate classification are established such that the application of these individual 13 charges to the total annual customer class electrical usage will result in the collection of 14 the targeted annual revenue requirement of each of the Company's retail rate classes.

Q. As background for additional discussion on the class cost of service study the Company is sponsoring in this case, please provide a general description of the various facilities utilized by the Company in producing and delivering electricity to its customers.

A. Schedule WLC-E4 of my testimony is a simplified diagram illustrative of the AmerenUE electric system, showing how power flows from the generating station and is then transmitted and distributed to the home of a residential customer. Other customers receiving service at higher voltage levels are also served from various points on the same system.

- 1 Q. Please describe, in more detail, how the Company's system operates. 2 As illustrated in Schedule WLC-E4, electrical power is produced at the A. 3 Company's generating stations at voltage levels ranging from 11,000 to 23,750 volts. To 4 achieve transmission operating economies, this voltage is raised, or stepped up, by power 5 transformers at the generating station sites to voltages generally ranging from 138,000 to 6 345,000 volts for transmission to the Company's bulk substations that are strategically 7 located throughout its service area.
- 8

Q. What is the function of the Company's bulk substations?

9 A. Bulk substations receive electrical power at transmission voltage levels. 10 They then lower, or step-down, this power to transmission or distribution voltages 11 generally ranging from 138,000 volts to 34,500 or 69,000 volts. Such power is then 12 distributed over the Company's 34,500 or 69,000 volt distribution lines to distribution 13 substations located throughout the Company's service area.

14

Q. What function do distribution substations perform?

A. Distribution substations, which are far more numerous than bulk substations, provide a further reduction in the electrical power voltage to a range of 4,160 to 13,800 volts within various portions of the Company's service area. The power is then distributed over the Company's 4,160 to 13,800 volt distribution lines to points at or near the premises of the Company's customers.

- 20 Q. After electrical power at 4,160 to 13,800 volts is delivered to a point at 21 or near a customer's premises, do any further reductions in voltage take place?
- A. Yes, in most instances. While approximately 650 of the Company's largest industrial and commercial customers in Missouri take service at the 4,160 to

1 13,800 volt range or higher, the majority of the Company's customers are served at lower 2 voltages, ranging from 120 to 480 volts. The lower voltages are achieved through the use 3 of numerous line transformers located at or near the customer's premises. This low 4 voltage electrical power from the line transformer is delivered to a customer's premises 5 over low voltage lines referred to as "secondary" and "service" lines.

6

Q. What voltages are utilized in providing electric service to residential customers? 7

- 8 A. Residential customers are served at either 120 or 240 volts depending 9 upon the customer's service entrance panel size and connected appliances.
- 10

Q. What voltages are utilized to serve non-residential customers?

11 A. Non-residential customers on the Company's SGS or LGS rates are served 12 at voltages from 120 to 480 volts due to the wide variety of electrical consuming devices 13 utilized by such customers. Customers in the latter voltage range are often referred to as 14 "secondary" voltage customers. Other larger non-residential customers receiving service 15 at 4,160 to 13,800 volts are referred to as "primary" voltage customers. The Company 16 also serves approximately 75 customers in Missouri at voltages above the 13,800 volt 17 level. These are referred to as "high voltage" or Rider B customers. Additionally, the 18 Company serves its only current LTS customer at 161 kilovolts ("kV") via a unique 19 transmission service arrangement.

20

21

Q. In your description of the AmerenUE generation, transmission and distribution system are you using the term "lines" in a general sense?

22

23

A. Yes. Those "lines" may be overhead conductors or underground cables. Overhead "lines" include all poles, towers, insulators, crossarms and all other hardware

associated with such installations. Underground "lines" include direct buried cable, as
 well as that installed in single or multi-duct conduit, and other associated hardware.

3

B. <u>Costs and Revenues in Class Cost of Service Study</u>

4

5

Q. Please describe the components of costs and revenues that are contained in the class cost of service study that the Company is filing in this case.

6 A. A traditional cost of service study incorporates the aggregate jurisdictional 7 (Missouri or Federal Energy Regulatory Commission ("FERC")) accounting and 8 financial data normally submitted to a regulatory commission by a utility in support of a 9 request for an adjustment in its overall rate levels. Such a study is required to determine 10 the level of revenues necessary for the Company to recover its operating and maintenance 11 expenses, depreciation applicable to its investment in utility plant, property taxes, income 12 and other taxes, and provide a fair rate of return to the Company's investors, through its 13 The Company's class cost of service study allocates, or distributes, these total rates. 14 jurisdictional costs to the various customer classes in a cost based manner that fairly and 15 equitably reflects the cost of the service being provided to each customer class.

16 Q. Was a Missouri jurisdictional cost of service study performed by the 17 Company's Regulatory Accounting group the starting point for the class cost of 18 service study performed and sponsored by Mr. Warwick?

A. Yes, it was. As I indicated above, the Company's class cost of service study is a continuation and refinement of the Missouri jurisdictional cost of service study discussed in the direct testimony of Mr. Weiss, resulting in a determination of the costs incurred in providing electric service to each of the Company's customer classes.

Q. What major categories of cost were examined in the development of the class cost of service study being sponsored by Mr. Warwick in this case?

A. A detailed analysis was made of all elements of the Company's Missouri jurisdictional rate base investment and expenses during the test year for the purpose of allocating such items to the Company's present customer classes. This analysis consisted of classifying the various elements of cost into their customer-related, energy-related and demand-related cost categories.

8

Q. Why are the Company's costs classified into these three categories?

9 A. It is generally accepted within the industry that the costs in each of these 10 categories result from different cost causation factors and, hence, should be allocated 11 among the various customer classes by different methodologies which consider such cost 12 causation.

13

Q. What are customer-related costs?

14 A. Customer-related costs are the minimum costs necessary to just make 15 electric service available to the customer, regardless of the extent to which such service is 16 utilized. Examples of such costs include monthly meter reading, billing, postage, 17 customer accounting and customer service expenses, as well as a portion of the costs 18 associated with the required investment in a meter, the service line, the transformer and 19 other distribution system facilities. The customer components of the distribution system 20 are those costs necessary to simply make service available to a customer, without the 21 consideration of the amount of the customer's electrical use. The January 1992 edition of 22 the Electric Utility Cost Allocation Manual, published by the National Association of 23 Regulatory Utility Commissioners ("NARUC"), references both customer-related and 1 demand-related cost components for all distribution plant and operating expense accounts

2 other than for substations and street lighting plant accounts.

3

Q. What are energy-related costs?

A. Energy-related costs are those costs related directly to the customer's consumption of electrical energy (kilowatt-hours) and consist primarily of fuel, fuel handling, interchange power costs, and a portion of production plant maintenance expenses.

8 Q. What are demand-related costs, which are the third category of costs 9 to which you referred?

10 A. Demand-related costs are rate base investment and related operating 11 expenses associated with the facilities necessary to supply a customer's service 12 requirements during periods of maximum, or peak, levels of power consumption each 13 month. During such peak periods, this usage is expressed in terms of the customer's 14 maximum power consumption, commonly referred to as kilowatts of demand. As so 15 defined, demand-related costs include those costs in excess of the aforementioned 16 customer and energy-related costs. The major portion of demand-related costs consists of 17 generation and transmission plant and the non-customer-related portion of distribution 18 plant.

19Q.Was there an additional category of cost that was examined in this20analysis?

A. Yes, as discussed in Mr. Warwick's testimony, costs associated with the Company's energy efficiency programs were categorized by affected (i.e., non-lighting and non-Large Transmission Service) customer class.

1

C. **Cost Allocations**

2 After the Company's costs are categorized into one of the three major Q. 3 classifications, how are they allocated to the various rate classes?

4 A. Customer-related costs are normally allocated on the basis of the number 5 of customers associated with each rate class. In some instances involving non-residential 6 customer multiple metering installations, weighting factors may also be used. In 7 addition, where specific costs can be identified as being attributable to one or more 8 specific customer classes, such as credit and collection expenses, a direct assignment of 9 such costs will be made.

10 Energy-related costs are allocated to the customer classes on the basis of their 11 respective energy (kilowatt-hour) requirements at the generation level of the Company's 12 system, which includes applicable system energy losses. The use of this common point 13 on the Company's system to allocate such costs ensures that each customer class will be 14 assigned the appropriate portion of the Company's total incurred variable fuel and 15 purchased power costs.

16 Demand-related distribution costs are allocated to customer classes using one or 17 more allocation factors based upon customer class coincident, class non-coincident or 18 individual customer non-coincident kilowatt demands. Demand-related transmission 19 costs are allocated to customer classes on a 12 coincident peak ("CP") basis, as that 20 methodology is consistent with the method utilized to assign cost responsibility of the 21 demands of the Ameren operating companies and all of the other utilities participating in 22 the Midwest Independent Transmission System Operator, Inc. ("MISO"), per the MISO's 23 Attachment O Rate Formulae in the Open Access Transmission, Energy and Operating

Reserve Markets Tariff on file at the FERC. Demand-related production costs are allocated on the basis of the Average & Excess ("A&E") Demand Method referenced in the NARUC cost allocation manual. As not all customers have demand meters, customer class and individual customer kilowatt demand data is obtained from the Company's ongoing load research program.

6 Q. As generation (production) plant consists of more than half of the 7 Company's total plant investment, please summarize the most common cost 8 allocation methodologies employed within the electric utility industry for the 9 allocation of generation plant.

10 A. The most common and generally accepted methodologies used for the 11 allocation of generation plant can be grouped into the following three categories:

12 <u>Peak Responsibility</u> – Costs are allocated on the basis of the relative customer 13 class demands at the time of occurrence of the company's system peak during the 14 period of study (referred to as the "coincident peak" or "CP" method). One or 15 more system peak hours, or a number of monthly or seasonal system peaks, are 16 normally used in applying the CP methodology.

<u>Non-Coincident Peak</u> – Costs are allocated on the basis of the maximum peak
 demand of each customer class at any time during the study period, without
 regard to the time of occurrence or magnitude of the company's coincident system
 peaks (referred to as the "NCP" method). As with the CP method, the NCP
 methodology can employ one or more customer class peaks in its application.

<u>Average and Excess</u> - Costs are allocated based upon a weighting of average class
 demand throughout the year (kilowatt-hours ÷ 8,760 hours) and class "excess"

1	demand(s). The excess demand(s) used in this determination are the class NCP
2	demand(s) in excess of the average class demand during the study period. As
3	with the CP and NCP methodologies, this method can also employ the use of one
4	or more customer class NCP demands to determine class excess demands.
5	Average class demands are weighted by the Company's annual system load factor
6	("LF") (LF = average demand \div peak demand) and excess class demands are
7	weighted by the complement of the load factor $(1.0 - LF)$ in the development of
8	cost allocation factors using this methodology.

9 Q. Which cost allocation methodology is the Company using for 10 production plant in its class cost of service study in this case?

A. The Company is utilizing the 4 NCP version of the Average and Excess
("A&E") demand methodology for allocating production plant in this case.

Q. From a generation perspective, what were the considerations associated with the Company's election to utilize the A&E demand allocation methodology for production plant in this case?

16 A. Two major factors associated with generation capacity planning prompted 17 the use of the A&E demand cost allocation methodology. Generally, system peak 18 demands and, to a somewhat lesser extent, excess customer demands, are the motivating 19 factors which influence the amount of capacity the Company must add to its generation 20 system to provide for its customers' maximum demands. However, the type of capacity 21 (base, intermediate or peaking) which the Company must add is not dictated by 22 maximum customer demand alone, but also by the annual energy, or kilowatt-hours, 23 which will be required to be generated by such capacity, i.e., the generation unit's

1 utilization factor. A cost allocation methodology that gives weight to both a) class peak 2 demands and b) class energy consumption (average demands) is required to properly 3 address both of the above considerations associated with capacity planning. The A&E methodology gives weight to both of these considerations by its inclusion of both average 4 5 class demands, which are kilowatt-hours divided by total hours in the year (8,760) and 6 the excess NCP demands of each class. As indicated earlier, the Company's A&E cost 7 allocation study used both the 4 NCP and average class demands in the determination of 8 class excess demands.

9

Q. Is there also quantitative support for the Company's selection of the 10 4 NCP version of the A&E demand allocation methodology for production plant?

11 A. Yes. The 4 NCP version of the A&E methodology, which uses the four 12 maximum non-coincident monthly peak demands for each customer class during the test 13 year, was selected due to the fact that 16 of the 20 maximum 4 NCP monthly demands 14 for the Company's major (i.e., non-lighting) customer classes occurred during the 15 Company's summer peak demand months of June-September. The use of the 4 NCP demand option, rather than a lesser number of monthly NCP demands, also prevents the 16 17 demand allocator for any customer class from being unduly influenced by any extreme 18 demand in a given month.

19

20

Q. Is there any additional support for the Company's selection of the 4 NCP version of the A&E demand allocation methodology for production plant?

21 A. Yes. The Commission's order in the Company's most recently 22 adjudicated electric rate case (Case No. ER-2010-0036) found that the Company's A&E 23 method was the most reliable of the submitted methods.

Q. After the determination of customer, energy and demand allocation factors for the various components of the Company's costs, what was the next step in the completion of the Company's class cost of service study?

4 The next step was to apply the allocation factors developed for each class A. 5 to each component of rate base investment and each of the elements of expense specified 6 in the jurisdictional cost of service study. The aggregation of such cost allocations 7 indicates the total annual costs, or annual revenue requirement, at equalized rates of 8 return associated with serving a particular customer class. The operating revenues of 9 each customer class minus its total operating expenses provide the resulting net operating 10 income for each class. This net operating income divided by the rate base allocated to 11 each class will indicate the percentage rate of return being earned by the Company from a 12 particular customer class. This application of allocation factors to Missouri electrical 13 jurisdictional costs, the aggregation of the total annual cost to each of the customer 14 classes and a summary of the results of the Company's class cost of service study are 15 described in detail in Mr. Warwick's direct testimony.

16Q. Earlier you mentioned the categorization of energy efficiency related17costs. How were these costs allocated to the affected customer classes?

A. As discussed in the testimony of Mr. Warwick, the program costs were directly assigned to the benefiting class and associated administrative and general expenses were allocated based on each class' proportionate responsibility of total energy efficiency program costs.

- 1 D.

Study Results

- 2 Referring now to the results of the Company's class cost of service **Q**. 3 study performed by Mr. Warwick in this case, please identify Schedule WLC-E5.
- 4 A. Schedule WLC-E5 (which is the same as Mr. Warwick's Schedule 5 WMW-E1) summarizes the results of the Company's class cost of service study, 6 indicating the rate of return on rate base currently being earned on the service being 7 provided to the Company's major retail customer classes. As indicated earlier, the basic 8 starting point for this study was the Missouri jurisdictional cost of service study.
- 9

Q. What general conclusions can be drawn from the information 10 contained in Schedule WLC-E5?

- 11 A. The Residential, Large Transmission and Lighting Service classes are 12 providing a below average rate of return, while all other classes are providing above 13 average rates of return. Overall, as is suggested by the filing of this case, the Company is 14 earning an inadequate return on its rate base.
- 15

E.

Class Revenue Proposals

16

Q. Please identify Schedule WLC-E6.

17 A. Schedule WLC-E6 summarizes the class revenue requirements necessary 18 to give the Company an opportunity, based upon test year figures with the pro forma 19 adjustments made by Mr. Weiss, to achieve an equal rate of return from each of its 20 customer classes. This information was developed from the cost of service data 21 contained in Schedules WMW-E1 and WMW-E2 of Mr. Warwick's direct testimony, and 22 is based upon the Company's proposed level of Missouri retail revenues.

1 Q. Why are the equal rates of return for all customer classes an 2 appropriate starting point when designing electric utility rates?

A. There are several reasons why equal class rates of return are an appropriate starting point in the consideration of rate design. First and foremost is the consideration of equity and fairness to all electric customers. Purely from a cost perspective and ignoring all other factors, to overcharge one customer class in order to subsidize another class is not supportable.

A second important consideration in support of equal class rates of return is the goal of encouraging cost effective utilization of electricity by customers. To make appropriate decisions regarding the most efficient and effective use of electricity, as well as the acquisition of electrical consuming equipment, customers require correct and appropriate price signals from the Company's electric rates.

A third consideration is that of competition. Cost-based electric rates permit the
Company to compete effectively with alternative fuels, co-generation and other electric
utilities for new commercial and industrial customers.

Q. Once the annual cost-based revenue requirements are developed by this process for all of the Company's customer classes, would the design of specific rates for each class be the next and final step in the overall rate development process?

A. If one was to base class rates solely on class cost of service and ignore other relevant factors, the response would be yes. However, the results of Mr. Warwick's study produced the following revenue increases by customer class:

Customer Class	Cost of Service Increase
Residential Service	19%
Small General Service	1%
Large General and Small Primary Service	0.5%
Large Primary Service	8%
Large Transmission Service	14%
Lighting Service	36%

3	Q. Is the Company proposing that these cost based class revenue		
4	requirements be utilized in developing class rates in the case?		
5	A. No, the Company is proposing a departure from class revenue		
6	requirements or rate design being established solely on the basis of equal class rates of		
7	return as shown in its class cost of service study.		
8	Q. Why is the Company proposing to vary from the cost based revenue		
9	requirements?		
10	A. The Company recognizes that factors other than cost of service are		
11	relevant to determining class revenue requirements. These factors may include, but are		
12	not limited to, revenue stability, rate stability, effectiveness in yielding total revenue		
13	requirements, public acceptance, and value of service.		
14	Q. What is the Company's proposal for allocating the revenue increase		
15	requested in this case?		

- A. The Company is proposing to allocate the revenue increase requested in
 this case on an equal percentage of present revenue basis.
- Q. Please explain the Company's proposal to allocate the revenue increase in this case on an equal percentage or across-the-board basis rather than based solely on class cost of service study results.
- A. While cost based rates are an important starting point in developing class revenue targets and rate design, the aforementioned other factors of revenue stability, rate stability, effectiveness in yielding total revenue requirements, public acceptance, and value of service should be considered when determining class revenue requirements and designing rates. Considering the prolonged nature of the country's challenging economic conditions, these other factors take on more importance. Judgmental weighting of all these factors drove the Company's equal percentage of increase proposal.
- Q. Did the Commission's order in Case No. ER-2010-0036 contain any
 language to support establishing class revenue requirements based on factors other
 than class cost of service results?
- A. Yes. At pages 87-88 the order states, "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."

1	Q.	Please identify Schedule WLC-E7.	
2	А.	Schedule WLC-E7 summarizes the proposed class revenue requirements	
3	necessary to give the Company an opportunity, based upon test year figures, to achieve		
4	its jurisdictio	nal rate of return.	
5	Q.	What was the source of the billing unit data used in the design of the	
6	Company's	proposed rates?	
7	А.	AmerenUE witness James R. Pozzo is providing direct testimony	
8	discussing th	e billing unit data used in the design of the proposed rates. The data	
9	contained in	Schedules JRP-E1 through JRP-E6 of Mr. Pozzo's direct testimony in this	
10	case was use	ed as a resource for the individual class billing units. The data in these	
11	schedules are	based upon the Company's weather normalized sales, as adjusted to reflect	
12	expectations	of LTS billing data, during the test year in this case as discussed in the direct	
13	testimony of	AmerenUE witness Steven M. Wills.	
14		IV. <u>CLASS RATES</u>	
15	Q.	Please describe the Company's specific rate design proposal in this	
16	case.		
17	А.	The Company's rate design proposal in this case is as follows:	
18		(1) Energy Efficiency Charge(s). For the affected classes, the energy	
19	efficie	ency charges were set to achieve the "unbundled" annual energy efficiency	
20	relate	d revenue requirement as developed in Mr. Warwick's class cost of service	
21	study	, and the charges were seasonally differentiated based on the existing	
22	propo	rtionality of the class' summer and winter non-customer charge revenues.	

1 (2)Residential Rate Design. The Customer Charge was the initial rate 2 component developed. Mr. Warwick's class cost of service study produced a 3 customer charge of approximately \$18 per month. Although the existing 4 customer charge of \$8.00 per month is only 75ϕ greater than its level of \$7.25 per 5 month in March 2000, the Company has limited this charge to \$10.00 in its 6 proposed Residential Rate. The remaining energy charges of the Residential Rate 7 were increased to achieve the annual revenue target or across-the-board increase 8 less the unbundled energy efficiency revenue requirement for this class.

9 (3) Small General Service Rate Design. The Customer Charge was 10 the initial rate component developed. Mr. Warwick's class cost of service study 11 produced a weighted customer charge of approximately \$21 per month for 12 customers in this class. The current level is \$9.28 per month for single phase 13 service and \$18.26 for three phase service. The Company has limited this charge 14 to \$11 for single phase service and \$22 for three phase service in its proposed 15 Small General Service Rate. The remaining energy charges of the Small General 16 Service Rate were increased to achieve the annual revenue target or across-theboard increase less the unbundled energy efficiency revenue requirement for this 17 18 class.

19 (4) Retention of Certain Prior Uniform Features of the Company's non
 20 -Residential, Commercial and Industrial Customer classes. The Company is
 21 proposing to retain the following rate design features that are currently in effect.
 22 Remaining rate designs for these Service Classifications will be discussed later.

1	(a) The customer charges on the SPS, LPS, and LTS rate schedules are
2	proposed to remain the same.
3	(b) The rates (\$ per kW) for Rider B voltage credits are proposed to
4	remain the same under all applicable rate schedules.
5	(c) The rate (\$ per billed kVar) associated with the Reactive Charge is
6	proposed to remain the same under all applicable rate schedules.
7	(d) The rate (\$ per month) associated with the Time-of-Day meter
8	charge is proposed to remain the same under all applicable rate schedules.
9	(5) Large General Service and Small Primary Service Rate Design.
10	The demand and energy charges on the LGS and SPS rate schedules were
11	increased uniformly to achieve the annual revenue requirement of these classes
12	less the unbundled energy efficiency revenue requirement after uniformity
13	adjustments were made, as described in (4) above.
14	(6) Large Primary Service Rate Design. The demand and energy
15	charges on the LPS rate schedule were increased uniformly to achieve the annual
16	revenue requirement less the unbundled energy efficiency revenue requirement of
17	this class after uniformity adjustments were made, as described in (4) above.
18	(7) Large Transmission Service Rate Design. The demand and energy
19	charges on the LTS rate schedule were increased uniformly to achieve the annual
20	revenue requirement of this class after uniformity adjustments were made, as
21	described in (4) above.
22	(8) Lighting Service – The Company has three active lighting service
23	classifications: 1) Street & Outdoor Area Lighting - Company-Owned 5(M);

2) Street and Outdoor Area Lighting – Customer-Owned 6(M); and 3) Municipal
 Street Lighting – Incandescent 7(M). The Company is proposing to withdraw
 tariffs associated with Service Classification No. 8(M) – Private Ornamental
 Street Lighting – Rate of Limited Application, as there are no customers currently
 receiving service under this rate.

6 Mr. Warwick's class cost of service study combined the Lighting Service 7 classification, excluding Service Classification No. 8(M), and, as noted above, produced 8 a cost-based increase of 36%. However, as mentioned above, the Company is proposing 9 an across-the-board increase (i.e., 10.8%) for its major customer classes in this case. As 10 described in AmerenUE witness Philip B. Difani's direct testimony, the next step in the 11 development of Lighting rates was to refine Mr. Warwick's study to properly apportion 12 the class cost of service based increase for the Lighting Service among the 5(M), 6(M), 13 and 7(M) service classifications. With regard to 5(M) and 6(M), Mr. Difani utilized 14 current cost data as a proxy to properly allocate the class cost of service based increase 15 and then to align rates between these classifications. It should be noted that, because the 16 7(M) classification has very limited use, all rates therein were simply increased by 17 10.8%. Mr. Difani's "current cost" analysis, as adjusted to achieve the cost based 18 increase of 36%, produced an increase of 15% for 5(M) and 216% for 6(M). As the 19 proportionality of the 6(M) "cost based" rate increase was materially higher than the 20 5(M) increase, the Company is proposing to mitigate this result by limiting the 6(M)21 increase to 20%. Due consideration of other relevant factors such as public acceptance, 22 value of service, revenue stability, rate stability, etc. support this mitigation approach.

Said mitigation results in a 9.7% increase for the 5(M) classification in order to achieve
 the aforementioned 10.8% overall Lighting Service increase.

Q. Proposed monthly customer charges for both the Residential and Small General Service Classifications reflect percentage increases larger than the across-the-board percentage increase level proposed for these classes. Please explain.

7 First, it should be noted that the combination of proposed customer and A. 8 energy charges for each of these respective classes produces the overall percentage 9 increase being requested for each of the classes in this case (i.e. 10.8%). Second, as 10 discussed in the testimony of Company witness William R. Davis, AmerenUE has 11 embarked on an energy efficiency and demand response effort to give customers more 12 control over their energy usage and to lower their bills via reduced consumption. 13 Therefore, the Company is proposing larger increases in customer charges and 14 corresponding reductions in the percentage of revenue derived from volumetric or 15 consumption charges for these classes. This proposal reflects cost causation principles 16 (i.e., moves customer charges closer to class cost of service study results), helps to 17 mitigate the negative financial impact, if any, on the Company associated with decreased 18 volumetric or energy use, and, at the same time, does not discourage energy efficiency. 19 Shifting more of the class' revenue requirement to monthly customer charges helps to 20 remove some of the financial disincentive to embark on an energy efficiency campaign, 21 and affords the Company a more reasonable opportunity to earn a fair rate of return 22 regardless of weather conditions. Excluding the impacts of the Low Income Pilot 23 Program Charges, approximately 91% and 93%, respectively, of the present test year

revenues of these classes are collected via current energy or volumetric charges with the
 remaining 9% and 7%, respectively, being collected via customer charges. The proposed
 customer charges would increase the customer charge contribution to total revenues for
 the Residential and Small General Service classes to 10% and 7%, respectively.

5 6

7

V. <u>STUDY ADDRESSING ELIMINATION OF RESIDENTIAL</u> <u>DECLINING BLOCK RATE</u>

Q. Paragraph 12b. (page 7) of the First Nonunanimous Stipulation And Agreement in the Company's most recent rate case (Case No. ER-2010-0036) states the following: "prior to its next general rate case, [the Company shall] conduct a study addressing the elimination of declining block rates for residential service in a revenue neutral manner, and will file the results of this study in its next general electric rate case." Has the Company completed this study?

14 A. Yes, it has. I would note that the Company's existing residential rate 15 design contains a declining block for the winter billing season only. Therefore, the 16 Company performed this analysis and its impact on accounts coded as residential electric 17 space heating. This group of approximately 217,000 residential customers was chosen as 18 their higher than average winter usage is more likely to be negatively impacted by a 19 revenue neutral elimination of the declining block rate. Schedule WLC-E8 depicts the 20 results of the analysis. As shown on Schedule WLC-E8-1, the overall average increase 21 for the residential class is 10.8% under the proposed across-the-board approach, while the 22 increase would average 15.8% during the winter months for residential customers with 23 electric space heating if the declining block rate was eliminated with revenue neutrality. 24 Additionally, as shown on Schedule WLC-E8-2, the monthly dollar impact on residential 25 space heating bills would vary significantly from retention of the declining block rate,

depending on kWh usage, versus a revenue neutral elimination of the declining block
rate. If the declining block rate design were eliminated, monthly winter bill amounts
would decrease by \$1.78 per month at 700 kWh, increase by \$53.85 per month at 4,000
kWh, and increase by \$157.05 per month at 10,000 kWh from the current rate levels. On
the other hand, the Company's proposed rate design, which retains the declining block,
would result in winter monthly bill increases of \$6.20, \$17.88, and \$38.88 respectively, at
these same usage levels.

8 Q. Is the Company proposing to eliminate the declining block of its

9

winter residential rate?

10 A. No, as discussed above, the elimination of this block would have a 11 material bill impact beyond the magnitude of the across-the-board increase recommended 12 by the Company in this case. Additionally, the Company's declining block rate has been 13 in place for decades and is warranted because winter space heating makes more efficient 14 use of existing production and transmission capacity installed to meet the higher summer 15 demands for electricity. Also, from an energy perspective, additional winter demand can be served by the Company at a variable cost lower than its average running costs of 16 17 generation.

18 Q. Does this conclude your direct testimony?

Yes, it does.

19 A.

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

)

)

In the Matter of Union Electric Company d/b/a AmerenUE for Authority to File Tariffs Increasing Rates for Electric Service Provided to Customers in the Company's Missouri Service Area.

Case No. ER-2011-0028

AFFIDAVIT OF WILBON L. COOPER

STATE OF MISSOURI)) ss CITY OF ST. LOUIS)

Wilbon L. Cooper, being first duly sworn on his oath, states:

1. My name is Wilbon L. Cooper. I work in the City of St. Louis, Missouri, and I am employed by Union Electric Company d/b/a AmerenUE as Manager, Rates and

Tariffs.

2. Attached hereto and made a part hereof for all purposes is my Direct

Testimony on behalf of Union Electric Company d/b/a AmerenUE consisting of 26 pages, Schedules WLC-E1 through WLC-E8, all of which have been prepared in written form for introduction into evidence in the above-referenced docket.

3. I hereby swear and affirm that my answers contained in the attached

testimony to the questions therein propounded are true and correct.

lbon L.

Subscribed and sworn to before me this 3 day of September, 2010.

Notary Public

My commission expires:

Amanda Tesdail - Notary Public Notary Seal, State of Missouri - St. Louis County Commission #07158967 My Commission Expires 7/29/2011

	h. David and	
MO.P.S.C. SCHEDULE NO. 5	h Revisea	SHEET NO. 27
CANCELLING MO.P.S.C. SCHEDULE NO. 5 27t	h Revised	SHEET NO. 27
APPLYING TO MISSOURI SERVICE AREA		
TABLE OF CONTENTS		
• • • • •		
RATES		
	Service	Sheet
Active Rates Cla	assification	No.
	1 (14)	
Residential Service	\perp (M)	∠8 20
Small General Service	∠(№)	3∠ 24
Large General Service	3 (M)	34
Small Primary Service	4(M)	37
Street & Outdoor Area Lighting - Company-Owned	5(M)	39
Street & Outdoor Area Lighting - Customer-Owned	6(M)	45
Large Primary Service	11(M)	67.1
Large Transmission Service	12(M)	68
*Rates of Limited Application		
Municipal Street Lighting - Incandescent	7(M)	50
Multerpar sereet brynting meandestent	/ (11)	20
Miscellaneous Charges	_	67.4

*Indicates Change.

DATE OF ISSUE September 3, 2010 DATE EFFECTIVE October 3, 2010

ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
NAME OF OFFICER		TITLE	ADDRESS

MO.P.S.C. SCHEDUL	e no. <u>5</u>	39th Revised	змеет NO. <u>28</u>
CANCELLING MO.P.S.C. SCHEDUL	e no. <u>5</u>	38th Revised	1 SHEET NO. 28
PLYING TO	MISSOURI SE	RVICE AREA	
SE	RVICE CLASSIF	ICATION NO. 1(M) SERVICE RATE	
Rate Based on Monthly Meter	r Readings		
Summer Rate (Applica	able during 4 s of June thro	monthly billing	
Customer Charge	e - per month		\$10 00
	t Drogram Cha	waa non month	¢10.00
		rge – per montin	\$0.03
Energy Charge -	- per kwn	11	10.4/¢
Energy Efficien	icy Program Ch	arge – per kWh	0.11¢
<u>Winter Rate</u> (Applica periods	able during 8 s of October t	monthly billing hrough May)	
Customer Charge	e - per month		\$10.00
Low-Income Pilc	ot Program Cha	rge – per month	\$0.03
Energy Charge -	- per kWh		
First 750 kV	Wh		7.47¢
Over 750 kWh	n		4.96¢
Energy Efficien	ncy Program Ch	arge – per kWh	0.06¢
Optional Time-of-Day	Rate		
Customer Charge	e – per month		\$20.00
Low-Income Pilo	ot Program Cha	rge – per month	\$ 0.03
Energy Charge -	- per kWh (1)		
Summer (June	e-September bi	lling periods)	
All	On Peak kWh		15.23¢
All	Off Peak kWh		6.24¢
Energy Effic	ciency Program	Charge - per kWh	0.11¢
Winter (Octo	ober-May billi	ng periods)	
All	On Peak kWh		8.99¢
All	Off Peak kWh		4.44¢
Energy Effic	ciency Program	Charge – per kWh	0.06¢
(1) On-peak specified	and Off-peak ł d in Rider I,	nours applicable herein paragraph A.	ı shall be as
Fuel and Purchased Power	Adjustment	(Rider FAC). Applical	ble to all metered
kilowatt-hours (kWh) of ene	ergy.		
Payments. Bills are due a become delinguent after twe	and payable wa	ithin ten (10) days fr days from date of bill	com date of bill and
	2 ()		
days' notice.	10a one (1)	year, terminable ther	ealter on three (3)
Tax Adjustment. Any lice	nse, franchis	e, gross receipts, oc	cupation or similar
charge or tax levied by an be so designated and added	y taxing auth as a separate	ority on the amounts b e item to bills rendere	illed hereunder will ed to customers under
the jurisdiction of the tay	xing authority	•	
* Indicates Change.			
EOFISSUE September 3	, 2010	DATE EFFECTIVE (October 3, 2010

ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
NAME OF OFFICER		TITLE	ADDRESS

MO.P.S.C. SCHEDULE NO. 5 27th Revised SHEET NO. 32 5 26th Revised SHEET NO. 32 CANCELLING MO.P.S.C. SCHEDULE NO. APPLYING TO MISSOURI SERVICE AREA SERVICE CLASSIFICATION NO. 2(M) SMALL GENERAL SERVICE RATE * Rate Based on Monthly Meter Readings Summer Rate (Applicable during 4 monthly billing periods of June through September) Customer Charge - per month Single Phase Service \$11.00 Three Phase Service \$22.00 Low-Income Pilot Program Charge - per month \$0.05 Energy Charge - per kWh 10.11¢ Energy Efficiency Program Charge - per kWh (3) 0.03¢ Winter Rate (Applicable during 8 monthly billing periods of October through May) Customer Charge - per month Single Phase Service \$11.00 Three Phase Service \$22.00 Low-Income Pilot Program Charge - per month \$0.05 Energy Charge - per kWh Base Use 7.54¢ Seasonal Use(1) 4.36¢ Energy Efficiency Program Charge - per kWh (3) 0.02¢ Optional Time-of-Day Rate Customer Charge - per month Single Phase Service \$20.45 Three Phase Service \$40.88 Low-Income Pilot Program Charge - per month \$0.05 Energy Charge - per kWh (2) Summer (June-September billing periods) All On Peak kWh 15.02¢ All Off Peak kWh 6.11¢ Energy Efficiency Program Charge - per kWh (3) 0.03¢ Winter (October-May billing periods) All On Peak kWh 9.88¢ All Off Peak kWh 4.53¢ Energy Efficiency Program Charge - per kWh (3) 0.02¢ (1) The winter seasonal energy use shall be all kWh in excess of 1,000 kWh per month \underline{and} in excess of the lesser of a) the kWh use during the preceding \overline{May} billing period, or b) October billing period, or c) the

- (2) On-peak and Off-peak hours applicable herein shall be as specified in Rider I, paragraph A.
 - (3) Not applicable to customers that have satisfied the opt-out provisions of Section 393.1075, RSMo.

 \underline{Fuel} and $\underline{Purchased}$ \underline{Power} $\underline{Adjustment}$ $(\underline{Rider}$ $\underline{FAC}). Applicable to all metered kilowatt-hours (kWh) of energy.$

*Indicates Change.

DATE OF ISSUE	September 3, 2	2010 DAT	TE EFFECTIVE C	October 3,	2010
-					

maximum monthly kWh use during any preceding summer month.

SSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS

MO.P.S.C. SCHEDULE	NO. <u>5</u>	30th Re	evised	
CANCELLING MO.P.S.C. SCHEDULE	NO. <u>5</u>	29th Re	evised	
PPLYING TO	MISSOURI SER	VICE AREA		
<u>SERV</u> Li	ICE CLASSIF ARGE GENERAL	ICATION NO. 3(M SERVICE RATE)	
* <u>Rate Based on Monthly Met</u>	er Readings			
<u>Summer Rate</u> (Appl peri	icable duri ods of June	ng 4 monthly bi through Septem	lling ber)	
Customer Charge - Low-Income Pilot	per month Program Cha	rge - per month	\$. \$	87.24 0.50
Energy Charge - p	er kWh	illing Domand		0 774
Next 200 kWh	per kW of B	illing Demand		9.77¢ 7.35¢
All Over 350 k	Wh per kW o	f Billing Deman	.d	4.95¢
Demand Charge - p	er kW of To	tal Billing Dem	and \$	4.56
Energy Efficiency	^v Charge – p	er kWh (1)		0.07¢
<u>Winter Rate</u> (Appl peri	icable duri ods of Octol	ng 8 monthly bi ber through May	lling)	
Customer Charge -	per month		\$8	37.24
Low-Income Pilot	Program Cha	rge – per month	\$	0.50
Base Energy Charc	ge - per kWh			
First 150 kWh	per kW of B	ase Demand		6.15¢
Next 200 kWh	per kW of B	ase Demand		4.56¢
All Over 350 K	wn per kw o bargo Soa	I Base Demand		3.599
Seasonal Energy C	llarge - Sea	SONAL KWN		3.594
Demand Charge - p	er kW of To	tal Billing Dem	and \$	1.69
Energy Efficiency	^v Charge – p	er kWh (1)		0.05¢
(1) Not applicable to provisions of Sect	customers t ion 393.107	hat have satisf 5, RSMo.	ied the opt	-out
Optional Time-of-Day 2	<u>Adjustments</u>			
Additional Custom	er Charge -	per Month	\$18.66 per	month
Energy Adjustment	- per kWh		On-Peak Hours(2)	Off-Peak <u>Hours(2)</u>
Summer kWh(June- Winter kWh(Octob	September bi er-May billi	llling periods) ing periods)	+1.15¢ +0.35¢	-0.65¢ -0.20¢
(2) On-peak and o specified in	ff-peak hou Rider I, pai	rs applicable he agraph A.	erein shall	be as
Fuel and Purchased Power A kilowatt-hours (kWh) of en	Adjustment (ergy.	<u>Rider FAC)</u> . App	plicable to	all metered
*Indicates Change.				
ATE OF ISSUE September 3,	2010	DATE EFFECTIVE	October	3, 2010

ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS

MO.P.S.C. SCHEDULE NO.	5 37th :	Revised	SHEET NO.	37
CANCELLING MO.P.S.C. SCHEDULE NO.	5 36th 3	Revised	SHEET NO.	37
PPLYING TO MISSO	URI SERVICE AREA			
<u>SERVICE</u> SMALL	CLASSIFICATION NO. 4 PRIMARY SERVICE RATE	<u>(M)</u>		
* Rate Based on Monthly Meter Re	adings			
<u>Summer Rate</u> (Applicab) periods o	le during 4 monthly b of June through Septe	oilling ember)		
Customer Charge - per	month	:	\$286.72	
Low-Income Pilot Prog	ram Charge - per mon	th	\$0.50	
Energy Charge – per ku First 150 kWh per ku Next 200 kWh per ku All Over 350 kWh per	Wh W of Billing Demand W of Billing Demand r kW of Billing Deman	nd	9.42¢ 7.09¢ 4.76¢	
Demand Charge - per ki	N of Total Billing De	emand	\$3.77	
Reactive Charge - per	kVar		33.00¢	
Energy Efficiency Char	rge – per kWh (1)		0.08¢	
<u>Winter Rate</u> (Applicab) periods o	le during 8 monthly b of October through Ma	oilling ay)		
Customer Charge - per	month	:	\$286.72	
Low-Income Pilot Prog	ram Charge - per mon	th	\$0.50	
Base Energy Charge – j First 150 kWh per kW Next 200 kWh per kW All Over 350 kWh per	per kWh N of Base Demand N of Base Demand r kW of Base Demand		5.93¢ 4.41¢ 3.45¢	
Seasonal Energy Charge	e - Seasonal kWh		3.45¢	
Demand Charge - per k	N of Total Billing D	emand	\$1.37	
Reactive Charge - per	kVar		33.00¢	
Energy Efficiency Char	rge – per kWh (1)		0.06¢	
(1) Not applicable to cust provisions of Section	omers that have sati 393.1075, RSMo.	sfied the op	ot-out	
<u>Optional Time-of-Day Adjus</u> Additional Customer Ch	<u>tments</u> narge - per Month	\$18.66 pe	r month	
Energy Adjustment - pe	er kWh	On-Peak <u>Hours(2)</u>	Off-Peal <u>Hours(2</u>	<)_
Summer kWh(June-Septe Winter kWh(October-Ma	mber billing periods y billing periods)	s) +0.84¢ +0.32¢	-0.47¢ -0.16¢	
(2) On-peak and Off- specified within t	peak hours applicak his service classifi	ole herein ication.	shall be	as
Fuel and Purchased Power Adjus kilowatt-hours (kWh) of energy.	tment (Rider FAC). A	applicable t	o all mete	red
*Indicates Change.				
TE OF ISSUE September 3, 2010	DATE EFFECTIVE	Octobe	er 3, 2010	

ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS

MO.P.S.C.SCHEDULE NO. 5 28th Revised SHEET NO. 39

	CANCELLING MO.P.S	S.C. SCHEDULE NO.	5	27th Re	vised	SHEET NO.
PLYING TO)	MISS	SOURI SERVIC	E AREA		
		SERVICE	CLASSIFICA	TION NO. 5(M)	
	STR	EET AND OUTDO	OR AREA LIC	GHTING - COMP	ANY-OWNED	
Data		Marath				
Lamp	and Fixture	<u>Montin</u>				
Damp	<u>ana rincaro</u>					
A.	Standard h	orizontal bu	ırning, enc	losed lumina	aire on ex	xisting wo
	pole:					
	High Dress	ire Sodium		Mercu	ry Vapor (1	1)
	Lumens	Rate		Lumens	ry vapor (1 Ra	<u>t</u> ate
	9,500	\$10.50		6,8	00 \$10	.50
	25,500	\$15.17		20,0	00 \$15	5.17
	50,000	\$27.03		54,0	00 \$27	2.03
				108,0	00 \$54	.09
B	Standard s	ide mounted.	hood with	open bottom	alassware	on existi
2.	wood pole:	ide mourreed,		open beecom	grabbilare	
	-					
	<u>High Pressu</u>	<u>ire Sodium</u>		Merci	ury Vapor (_	(1)
	Lumens	<u>Rate</u>		Lume	<u>ens Ra</u>	<u>te</u>
	9,500	\$0.49		5,3	00 \$8. 00 \$9.	29
	-,			-,-		
C.	Standard po	st-top lumin	aire includ	ing standard	17-foot po	st:
	Ilich Drogov	wo Codium		Mong	Non Manaka ((1)
	Lumens	Rate		<u>Merci</u> Lum	ens R	(\perp)
	9,500	\$19.44		3,3	00 \$18	8.38
				6,8	00 \$19	9.44
5			<u></u>			
D.	Pole-mounte	to Company b	1 Ilood lu asket truck	minaire; lin	nited to i	Installatio
	accessible	co company b	abree crack	•		
	<u>High Pressu</u>	ire Sodium	Metal	Halide	Mercury	Vapor (1)
	Lumens	Rate	Lumens	Rate	Lumens	<u>Rate</u>
	25,500	\$19.25	34,000	\$19.25	20,000	\$19.25
	50,000	\$30.44	100,000	\$60.86	54,000	\$30.44
	(1) Mercur	v Vapor lamps	and fixtu	res are limit	ed to cust	omers serv
	under	contracts in	itiated pri	or to Septem	ber 27, 19	88. Compa
	will c	ontinue to m	naintain th	ese lamps an	nd fixtures	s so long
	parts	are economica	ally availab	ole.		
*Indi	cates Change	2.				

ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
_	NAME OF OFFICER	TITLE	ADDRESS

	MO.P.S.C. SCHEDULE N	o. <u>5</u>	26th Revised	SHEET NO.	4
	CANCELLING MO.P.S.C. SCHEDULE N	0. 5	25th Revised	SHEET NO.	4
PPLYING T	о <u> М</u>	ISSOURI	SERVICE AREA		
	STREET AND OUTDOOR	CE CLAS AREA L	SSIFICATION NO. 5(M) IGHTING - COMPANY-OWNED (Con	t'd.)	
* E.	All poles and cable, 1. The installation for in advance k	where r of all by custo	required to provide lighting standard poles and cables omer, with all subsequent re	service: shall be p placements	aic of
* F.	Incandescent lamps September 30, 1963, Company after June 30	provide provide which), 1981:	ed under contracts initiat facilities will not be r	ed prior naintained	to by
	Lamp and F	<u>ixture</u>	Per Ur <u>Monthly</u>	nit <u>Rate</u>	
	1,000 Lu	umens	\$10.06	5	
	2,500	"	13.58	3	
	4,000	"	15.67	7	
	6,000	"	17.39)	
	10,000	"	23.61	-	
*Ind:	icates Change				

DATE OF ISSUE _____ September 3, 2010 DATE EFFECTIVE _____ October 3, 2010 St. Louis, Missouri ADDRESS ISSUED BY Warner L. Baxter NAME OF OFFICER President & CEO TITLE
	MO.P.S.C.SCHEDULE NO. 5	32nd Revised	SHEET NO. 41
	CANCELLING MO.P.S.C. SCHEDULE NO. 5	31st Revised	SHEET NO. 41
APPLYING TO	MISSOURI SER	VICE AREA	
*G.	SERVICE CLASSIF STREET AND OUTDOOR AREA LIGHT Former Subsidiary Company ligh initiated prior to April 9, 1 maintained by Company so long present stock:	CATION NO. 5(M) ING - COMPANY-OWNED (C ting units provided .986, which facilitie as parts are availab	cont'd.) under contracts s will only be le in Company's
			*Per Unit
	Lamp and Fixture		Monthly Rate
	11,000 Lumens, Mercury Vapor,	Post-Top	\$19.44
	11,000 Lumens, Mercury Vapor,	Open Bottom	9.29
	11,000 Lumens, Mercury Vapor,	Horizontal Enclosed	10.50
	42,000 Lumens, Mercury Vapor,	Horizontal Enclosed	27.07
	16,000 Lumens, H.P. Sodium, Ho	orizontal Enclosed	10.51
	34,200 Lumens, H.P. Sodium, Di	rectional(2)	19.25
	140,000 Lumens, H.P. Sodium, Di	rectional	60.86
	20,000 Lumens, Metal Halide, I	Directional	19.28
	(2) This lamp represents a mer lamp.	cury vapor fixture w	ith H.P. Sodium
<u>Term</u> facil insta	<u>of Contract</u> . Minimum term of ities are installed; ten (10) lled.	three (3) years wher years where post-top	e only standard luminaires are
Disco appli rates has a above There condi elect Compa light	unt for Franchised Municipal C ed to bills rendered for lighti and currently contracted for by n ordinance granted electric fra discount shall only apply for after, the above discount shall tions are met: 1) any initi ric franchise must be for a mini ny must have a contract for al ing service provided by Company i	<u>dustomers</u> . A 10% di ng facilities served municipalities with w nchise as of September or the duration of apply only when th al or subsequent or mum term of twenty (2 .1 lighting facilitie .n effect.	scount will be under the above whom the Company 27, 1988. The said franchise. e following two dinance granted 20) years and 2) s for municipal
<u>Tax A</u> simil hereu rende	<u>djustment</u> . Any license, franc ar charge or tax levied by any t nder will be so designated and red to customers under the juriso	hise, gross receipts axing authority on the added as a separate liction of the taxing	occupation or a amounts billed item to bills authority.
*Indi	cates Change.		

ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
_	NAME OF OFFICER	TITLE	ADDRESS

MO.P.S.C. SCHEDULE NO.517th RevisedSHEET NO.45CANCELLING MO.P.S.C. SCHEDULE NO.516th RevisedSHEET NO.45

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)

MISSOURI SERVICE AREA

SERVICE CLASSIFICATION NO. 6(M)						
STREET AND OUTDOOR AREA LIGHTING - CUSTOMER-OWNED						
*Monthly Rate For Metered Service						
Customer Charge Per Meter	\$6.20	per month				
Energy Charge	4.19¢	per kWh				
* <u>Rate Per Unit Per Month For Unmete</u>	red Service					
Customer Charge per account	\$6.20	per month				
<u>H.P. Sodium</u>	Energy & Maintenance(1)	Energy Only(2)				
9,500 Lumens, Standard	\$ 3.33	\$ 1.62				
16,000 Lumens, Standard	N/A	2.75				
25,500 Lumens, Standard	5.81	4.14				
50,000 Lumens, Standard	8.38	6.49				
<u>Metal Halide</u>						
5,500 Lumens, Standard	\$ 4.82	N/A				
12,900 Lumens, Standard	5.77	N/A				
<u>Mercury Vapor</u>	(3)					
3,300 Lumens, Standard	\$ 3.34	\$ 1.72				
6,800 Lumens, Standard	4.33	2.78				
11,000 Lumens, Standard	5.87	3.96				
20,000 Lumens, Standard	7.79	6.12				
42,000 Lumens, Standard	N/A	10.19				
54,000 Lumens, Standard	16.63	14.56				
 * (1) Company will furnish electric energy, furnish and replace lamps, and adjust and replace control mechanisms, as required. (2) Limited to lamps served under contracts initiated prior to September 27, 1988. (3) Maintenance of lamps and fixtures limited to customers served under contracts prior to November 15, 1991. N/ANot Available. 						
<u>Term of Contract</u> . One (1) year, terminable thereafter on three (3) days' notice.						
Discount For Franchised Municipal Customers. A 10% discount will be applied to bills rendered for lighting facilities served under the above rates and currently contracted for by municipalities with whom the Company has an ordinance granted electric franchise as of September 27, 1988. The above discount shall only apply for the duration of said franchise. Thereafter, the above discount shall apply only when the following two conditions are met: 1) any initial or subsequent ordinance granted electric franchise must be for a minimum term of twenty (20) years and 2) Company must have a contract for all lighting facilities for municipal lighting service provided by Company in effect.						

*Indicates Change.

DATE OF ISSUE	September 3,	2010 DATE EFFECTIVE	October 3, 2010
ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS

MO.P.S.C. SCHEDULE NO. 5 27th Revised SHEET NO. 50

CANCELLING MO.P.S.C. SCI	HEDULE NO. 5		26th Revi	sed	SHEET NO.	50
APPLYING TO	MISSOURI SE	RVICE ARE	ΞA			
<u></u>	<u>SERVICE CLASSI</u> JNICIPAL STREET LI RATE OF LIMI	FICATION N IGHTING - I TED APPLIC	IO. 7(M) INCANDESCEI CATION	<u>NT</u>		
* <u>Rate per Lamp per Month</u>						
]	Incandescer	nt		
	1,000	2,500	4,000	6,000	10,000	
<u>Wood Pole Rates</u>	<u>Lumen</u> \$3.89	<u>Lumen</u> \$5.92	<u>Lumen</u> \$8.07	<u>Lumen</u> \$10.73	<u>Lumen</u> \$14.68	
<u>Ornamental Pole</u> . Add	\$6.38 per month p	er pole to	above Woo	d Pole Rat	es.	
* <u>Customer-Owned Street L</u> owns all street lightin	<u>ighting Facilitie</u> g facilities, ser	<u>s</u> . Where vice will	customer f be supplie	Turnishes, d as follo	installs ws:	and
For Metered Serv:	ice:					
Customer Charge]	per Meter		\$13.	34 per mor	ıth	
1) Secondary Serv	vice		3.	89¢ per kW	Ih	
2) Primary Servio	ce - Rider C shall	L be applie	ed.			
Customer shall : loop, space and r	install suitable mounting facilitie	switching es for Comj	and prote pany meter:	ective equ ing device:	ipment, m s.	eter
Tax Adjustment. Any charge or tax levied by be so designated and ad the jurisdiction of the	license, franchis y any taxing auth ded as a separate taxing authority	e, gross ority on t e item to	receipts, the amount; bills rend	occupatic s billed h ered to cu	n or sim ereunder v stomers u	ilar will nder
<u>Payments</u> . Bills are du	e and payable wit	hin ten (1	0) days fr	om date of	bill.	
Term of Contract. Ten for all of an initial of agreement for the maxim and said agreement wi periods unless terminat sixty (60) days prior t	(10) years. Cust r succeeding ten- mum period for wh ll continue in ted by either par o any annual term	omer, if r year contr hich it is force the rty by wr ination da	not legally fact term a s legally a preafter fo itten noti te.	v authorize at one time authorized or success ce given n	d to cont , may sign to contr sive one- not less	ract n an act, year than
*Indicates Change.						

SSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
_	NAME OF OFFICER	TITLE	ADDRESS

MO.	.P.S.C. SCHEDULE NO. 5	20th Revis	ed SHEET NO.	55
CANCELLING MO.	.P.S.C. SCHEDULE NO. 5	19th Revis	sed SHEET NO.	55
	MISSOURI SE	ERVICE AREA		
	*This Sheet Rese	rued For Future Use		
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DATE OF ISSUE Se	eptember 3, 2010	DATE EFFECTIVE	October 3, 2010)

ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS

	MO.P.S.C. SCHEDULE	NO. 5	1	st Revised	SHEET N	0. <u>55.1</u>
CA	NCELLING MO.P.S.C. SCHEDULE	NO. 5		Original	SHEET N	0. <u>55.</u> 1
APPLYING TO		MISSOU	NI SERVICE AREA			
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	Sentember 3	2010			per 3 201	1.0
	Warner L. Boytor	2010	Dregident & CEO	<u></u>		iggouri
1330ED BT	NAME OF OFFICER		TITLE	ы.	ADDRESS	LINCER

CANCELLING MO.P.S.C. SCHEDULE NO. 5 7th Revised SHEET NO APPLYING TO MISSOURI SERVICE AREA *This Sheet Reserved For Future Use	D. <u>56</u>
APPLYING TO MISSOURI SERVICE AREA *This Sheet Reserved For Future Use	
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ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
-	NAME OF OFFICER	TITLE	ADDRESS

	MO.P.S.C. SCHEDULE NO. 5		6th Revise	dSHEET NO.	57
CANCELLI	NG MO.P.S.C. SCHEDULE NO. 5		5th Revise	d SHEET NO.	57
APPLYING TO	MISSOU	RI SERVICE	AREA		
	*This Sheet	Reserved Fo	or Future Use		
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*Indicates (Change.				
DATE OF ISSUE	September 3, 2010	DATE	EFFECTIVE	October 3. 2010	

ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS

	MO.P.S.C. SCHED	ULE NO. <u>5</u>	20th Revis	sed SHEET NO	. 58
	CANCELLING MO.P.S.C. SCHED	ULE NO. <u>5</u>	19th Revis	sed SHEET NO	. 58
APPLYING 1	-o	MISSOURI SER	VICE AREA		
	*Th	is Sheet Reserv	ved For Future Use	1	
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DATE OF IS	soe september	J, ZUIU		OCLODEL 3, 2010	0

ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS

CANCELLING MO.P.S.C.SCHEDULE NO. <u>5</u> PPLYING TO <u>MISSOURI SERVICE ARE</u> <u>SERVICE CLASSIFICATION NO LARGE PRIMARY SERVICE</u> * <u>Rate Based on Monthly Meter Readings</u> <u>Summer Rate</u> (Applicable during 4 monthl periods of June through Se Customer Charge - per month Low-Income Pilot Program Charge - per mont Energy Charge - per kWh Demand Charge - per kWh Demand Charge - per kWar Energy Efficiency Charge - per kWh (1) Winter Rate (Applicable during 8 monthl	13th Revised EA D. 11(M) RATE y billing optember) th \$28 th \$5 \$28 \$1 3 y billing \$28 th \$5 \$28 th \$5 \$45 \$45 \$45 \$45 \$45 \$45 \$45 \$	SHEET NO. <u>67.1</u> 36.72 50.00 3.21¢ 9.12 33.00¢ 0.02¢ 36.72	
* Rate Based on Monthly Meter Readings Summer Rate (Applicable during 4 monthl periods of June through Se Customer Charge - per month Low-Income Pilot Program Charge - per mont Energy Charge - per kWh Demand Charge - per kWar Energy Efficiency Charge - per kWh (1) Winter Rate (Applicable during 8 monthl	EA D. 11(M) RATE y billing ptember) th \$28 th \$5 y billing May) \$28 th \$1 3 y billing May) \$28 th \$1 \$28 th \$5 \$28 \$1 \$3 \$28 \$1 \$3 \$28 \$1 \$3 \$28 \$1 \$3 \$28 \$1 \$3 \$28 \$1 \$3 \$4 \$5 \$5 \$4 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5	96.72 50.00 3.21¢ 9.12 3.00¢ 0.02¢	
SERVICE CLASSIFICATION NG LARGE PRIMARY SERVICE * Rate Based on Monthly Meter Readings Summer Rate (Applicable during 4 monthl periods of June through Se Customer Charge - per month Low-Income Pilot Program Charge - per month Energy Charge - per kWh Demand Charge - per kW of Billing Demand Reactive Charge - per kVar Energy Efficiency Charge - per kWh (1) Winter Rate (Applicable during 8 monthl)	D. 11(M) RATE y billing ptember) th \$28 th \$1 3 y billing May) \$28 th \$1 3	6.72 50.00 3.21¢ 9.12 53.00¢ 0.02¢	
<u>Rate Based on Monthly Meter Readings</u> <u>Summer Rate</u> (Applicable during 4 monthl periods of June through Se Customer Charge - per month Low-Income Pilot Program Charge - per mont Energy Charge - per kWh Demand Charge - per kWh Demand Charge - per kWof Billing Demand Reactive Charge - per kVar Energy Efficiency Charge - per kWh (1) Winter Rate (Applicable during 8 monthl)	y billing ptember) th \$28 th \$5 th \$1 3 y billing t May) \$28 th \$1	96.72 50.00 3.21¢ 9.12 3.00¢ 0.02¢	
Summer Rate (Applicable during 4 monthl periods of June through Se Customer Charge - per month Low-Income Pilot Program Charge - per month Energy Charge - per kWh Demand Charge - per kWh Demand Charge - per kW of Billing Demand Reactive Charge - per kVar Energy Efficiency Charge - per kWh (1) Winter Rate (Applicable during 8 monthl)	y billing pptember) %28 %h \$28 %1 %1 %3 %y billing % May) %28 %h \$1	6.72 50.00 3.21¢ 9.12 53.00¢ 0.02¢	
periods of June through Se Customer Charge - per month Low-Income Pilot Program Charge - per mont Energy Charge - per kWh Demand Charge - per kW of Billing Demand Reactive Charge - per kVar Energy Efficiency Charge - per kWh (1) Winter Rate (Applicable during 8 month)	<pre>ptember) \$28 th \$28 th \$5 \$1 \$1 3 y billing (May) \$28 th \$1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$</pre>	6.72 50.00 3.21¢ 9.12 53.00¢ 0.02¢	
Customer Charge - per month Low-Income Pilot Program Charge - per mont Energy Charge - per kWh Demand Charge - per kW of Billing Demand Reactive Charge - per kVar Energy Efficiency Charge - per kWh (1) Winter Rate (Applicable during 8 month)	\$28 :h \$5 \$1 3 .y billing . May) \$28 :h \$1	<pre>36.72 50.00 3.21¢ 9.12 3.00¢ 0.02¢</pre>	
Low-Income Pilot Program Charge - per mont Energy Charge - per kWh Demand Charge - per kW of Billing Demand Reactive Charge - per kVar Energy Efficiency Charge - per kWh (1) Winter Rate (Applicable during 8 month)	th \$5 \$1 3 y billing (May) \$28 th \$1	50.00 3.21¢ 9.12 33.00¢ 0.02¢	
Energy Charge - per kWh Demand Charge - per kW of Billing Demand Reactive Charge - per kVar Energy Efficiency Charge - per kWh (1) Winter Rate (Applicable during 8 month)	\$1 3 y billing (May) \$28 :h \$1	3.21¢ 9.12 3.00¢ 0.02¢	
Demand Charge - per kW of Billing Demand Reactive Charge - per kVar Energy Efficiency Charge - per kWh (1) Winter Rate (Applicable during 8 month)	\$1 3 y billing (May) \$28 :h \$1	9.12 33.00¢ 0.02¢	
Reactive Charge - per kVar Energy Efficiency Charge - per kWh (1) Winter Rate (Applicable during 8 month)	3 y billing May) \$28 :h \$1	3.00¢ 0.02¢ 96.72	
Energy Efficiency Charge - per kWh (1) Winter Rate (Applicable during 8 month)	y billing May) \$28	0.02¢	
Winter Rate (Applicable during 8 month)	y billing (May) \$28	86.72	
periods of October through	\$28 :h \$	6.72	
Customer Charge - per month	:h \$!		
Low-Income Pilot Program Charge - per mont		50.00	
Energy Charge - per kWh		2.83¢	
Demand Charge - per kW of Billing Demand	Ş	8.68	
Reactive Charge - per kVar	3	33.00¢	
Energy Efficiency Charge - per kWh (1)		0.01¢	
(1) Not applicable to customers that have provisions of Section 393.1075, RSMo.	satisfied the op	pt-out	
Optional Time-of-Day Adjustments			
Additional Customer Charge - per month	\$18.66 pe	r month	
Energy Adjustment - per kWh	On-Peak Hours(2)	Off-Peak Hours(2)	
Summer kWh(June-September billing period Winter kWh(October-May billing periods)	ds) +0.62¢ +0.29¢	-0.34¢ -0.14¢	
(2) On-peak and off-peak hours applicab within this service classification.	le herein shall b	pe as specified	
Fuel and Purchased Power Adjustment (Rider FAC). A kilowatt-hours (kWh) of energy.	Applicable to all	metered	
<u>Payments</u> . Bills are due and payable within ten (become delinquent after twenty-one (21) days from	10) days from date date of bill.	of bill and	
Term of Use. One (1) year, terminable thereafter	on three (3) days	' notice.	
Tax Adjustment. Any license, franchise, gross charge or tax levied by any taxing authority on be so designated and added as a separate item to the jurisdiction of the taxing authority.	receipts, occupa the amounts billed bills rendered to	tion or similar d hereunder will customers under	
*Indicates Change.			
		2 0010	

ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
_	NAME OF OFFICER	TITLE	ADDRESS

	MO.P.S.C. SCHEDULE NO. 5 9th	Revised	SHEET NO. 67.4				
	CANCELLING MO.P.S.C.SCHEDULE NO. 5 8th	Revised	SHEET NO. 67.4				
APPLYING TO	MISSOURI SERVICE AREA						
	MISCELLANEOUS CHARGES						
A.	Reconnection Charges per Connection Point						
	Sheet No. 106, Par. B-3 (Annually Recurring Sheet No. 184, Par. I (Reconnection of Servi	Service) .ce)	\$30.00 \$30.00				
*В.	Supplementary Service Minimum Monthly Charge	25					
	Sheet No. 103, Par. C-3						
	Charges applicable during 4 monthly billing periods of June through September	Primary Serv	ice Rate				
	Customer Charge per month, plus Low-Income Pilot Program Charge - per month All kW @	\$286. \$50. \$19.	72 00 12				
	Charges applicable during 8 monthly billing periods of October through May	Primary Serv	ice Rate				
	Customer Charge per month, plus Low-Income Pilot Program Charge - per month All kW @	\$286. \$50. \$8.	72 00 68				
с.	Service Call Charge. Customer's reporting charged a \$50.00 fee for a service call, problem is within the customer's electrical	service prob if it is det system.	lems may be cermined the				
Tax Adjustment. Any license, franchise, gross receipts, occupation or similar charge or tax levied by any taxing authority on the amounts billed hereunder will be so designated and added as a separate item to bills rendered to customers under the jurisdiction of the taxing authority.							
*Indio	cates Change.						

DATE OF ISSUE	September 3,	2010 DATE EFFECTIVE	October 3, 2010
ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS

MO. P. S. C	. SCHEDULE NO. <u>5</u>	14th Rev	ised	SHEET NO. <u>68</u>
CANCELLING MO. P.S.C	. SCHEDULE NO. <u>5</u>	13th Rev	ised	SHEET NO. <u>68</u>
PPLYING TO	MISSOURI SE	RVICE AREA		
	SERVICE CLASSIF	ICATION NO. 12(M) SION SERVICE RATE	<u>-</u>	
* Rate Based on Mont	thly Meter Readings	<u>s</u>		
Summer Rate	(Applicable dur periods of Ju	ing four (4) mont une through Septer	thly billing mber)	
Customer Ch	arge – per month		\$286.72	
Low-Income	Pilot Program Char	ge – per month	\$1,500.00	
Demand Char	ge – per kW of Bil	ling Demand	\$14.14	
Energy Char	rge – per kWh		2.682	¢
Reactive Ch	narge – per kVar		33.000	¢
Winter Rate	(Applicable dur periods of Oc	ring eight (8) mor ctober through Ma	nthly billin y)	a
Customer Ch	narge – per month		\$286.72	
Low-Income	Pilot Program Char	ge – per month	\$1,500.00	
Demand Char	rge – per kW of Bil	ling Demand	\$5.40	
Energy Char	rge - per kWh		2.362	¢
Reactive Ch	narge – per kVar		33.000	¢
Optional Time-c	of-Day Adjustments			
Additional	Customer Charge -	per month	\$18.66	
Energy Adj	ustment – per kWh		On-Peak Hours(1)	Off-Peak Hours(1)
Summer k	Wh (June-September	Billing Periods)	+0.54¢	-0.31¢
Winter k	Wh (October-May Bi	lling Periods)	+0.24¢	-0.13¢
(1) On-peal specif:	k and off-peak hour ied within this ser	rs applicable her rvice classificat	ein shall be ion.	as
Fuel and Purchased kilowatt-hours (kW	d Power Adjustment Wh) of energy.	(Rider FAC). App	licable to a	ll metered
* Indicates Change.				

ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
	NAME OF OFFICER	TITI F	ADDRESS

MO. P. S. C. SCHEDULE NO. 5 4th Revised SHEET NO. 68.1

CANCELLING MO. P.S.C. SCHEDULE NO. 5

3rd Revised SHEET NO. 68.1

APPLYING TO

MISSOURI SERVICE AREA

SERVICE CLASSIFICATION NO. 12(M) LARGE TRANSMISSION SERVICE RATE (Cont'd.)

* Energy Line Loss Rate. Compensation for Customer's energy line losses from use of the transmission system(s) outside Company's control area shall be in the form of energy solely supplied by Company to the transmission owner(s) and compensated by payment at a monthly rate of \$0.0362 per kWh after appropriate Rider C adjustment of meter readings.

1. Transmission Service Requirements. Company's obligation to provide service under this rate is conditioned upon receipt of approval from the appropriate Regional Transmission Organization ("RTO") to incorporate Customer's load within Company's Network Integration Transmission Service agreement without the obligation or requirement that Company construct, upgrade, or improve any existing or new transmission plant or facilities.

* Indicates Change

DATE OF ISSUE September 3, 2010 DATE EFFECTIVE October 3, 2010

ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
_	NAME OF OFFICER	TITLE	ADDRESS

MO.P.S.C. SCHEDULE NO. 5

CANCELLING MO.P.S.C. SCHEDULE NO. 5

Original

lst Revised

SHEET NO. 98.8

APPLYING TO

MISSOURI SERVICE AREA

RIDER FAC FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE

(Applicable To Service Provided Between June 21, 2010 And The Effective Date Of This Tariff)

APPLICABILITY

This rider is applicable to kilowatt-hours (kWh) of energy supplied to customers served by the Company under Service Classification Nos. 1(M), 2(M), 3(M), 4(M), 5(M), 6(M), 7(M), 8(M), 11(M), and 12(M).

Costs passed through this Fuel and Purchased Power Adjustment Clause (FAC) reflect differences between actual fuel and purchased power costs, including transportation, net of Off-System Sales Revenues (OSSR) (i.e., Actual Net Fuel Costs) and Net Base Fuel Costs (factor NBFC, as defined below), calculated and recovered as provided for herein.

The Accumulation Periods and Recovery Periods are as set forth in the following table:

Accumulation Period (AP)	Filing Date	Recovery Period (RP)
February through May	By August 1	October through September
June through September	By December 1	February through January
October through January	By April 1	June through May

Accumulation Period (AP) means the historical calendar months during which fuel and purchased power costs, including transportation, net of OSSR for all kWh of energy supplied to Missouri retail customers are determined.

Recovery Period (RP) means the billing months as set forth in the above table during which the difference between the Actual Net Fuel Costs during an Accumulation Period and NBFC are applied to and recovered through retail customer billings on a per kWh basis, as adjusted for service voltage level.

The Company will make a Fuel and Purchased Power Adjustment (FPA) filing by each Filing Date. The new FPA rates for which the filing is made will be applicable starting with the Recovery Period that begins following the Filing Date. All FPA filings shall be accompanied by detailed workpapers supporting the filing in an electronic format with all formulas intact.

FPA DETERMINATION

Ninety five percent (95%) of the difference between Actual Net Fuel Costs and NBFC for all kWh of energy supplied to Missouri retail customers during the respective Accumulation Periods shall be reflected as an FPA_c credit or debit, stated as a separate line item on the customer's bill and will be calculated according to the following formulas.

For the FPA filing made by each Filing Date, the FPA_c rate, applicable starting with the Recovery Period following the applicable Filing Date, to recover fuel and purchased power costs, including transportation, net of OSSR, to the extent they vary from Net Base Fuel Costs (NBFC), as defined below, during the recently-completed Accumulation Period is calculated as:

 DATE OF ISSUE
 September 3, 2010
 DATE EFFECTIVE
 October 3, 2010

 ISSUED BY
 Warner L. Baxter
 President & CEO
 St. Louis, Missouri

 NAME OF OFFICER
 TITLE
 ADDRESS

MO.P.S.C. SCHEDULE NO. 5 1st Revised SHEET NO. 98.9 SHEET NO. 98.9 Original CANCELLING MO.P.S.C. SCHEDULE NO. 5 APPLYING TO MISSOURI SERVICE AREA RIDER FAC FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (CONT'D.) (Applicable To Service Provided Between June 21, 2010 And The Effective Date Of This Tariff) $FPA_{(RP)} = [[(CF+CPP-OSSR-TS-S-W) - (NBFC \times S_{AP})] \times 95\% + I + R - N]/S_{RP}$ The FPA rate, which will be multiplied by the voltage level adjustment factors set forth below, applicable starting with the following Recovery Period is calculated as: $FPA_{C} = FPA_{(RP)} + FPA_{(RP-1)} + FPA_{(RP-2)}$ where: FPA_a = Fuel and Purchased Power Adjustment rate applicable starting with the Recovery Period following the applicable Filing Date. FPA_{RP} = FPA Recovery Period rate component calculated to recover under/over collection during the Accumulation Period that ended prior to the applicable Filing Date. $FPA_{(RP-1)}$ = FPA Recovery Period rate component from prior FPA_{RP} calculation, if any. FPA(RP-2) = FPA Recovery Period rate component from FPARP calculation prior to $FPA_{(RP-1)}$, if any. CF= Fuel costs incurred to support sales to all retail customers and Off-System Sales allocated to Missouri retail electric operations, including transportation, associated with the Company's generating plants. These costs consist of the following: For fossil fuel or hydroelectric plants: a) (i) the following costs reflected in Federal Energy Regulatory Commission (FERC) Account Number 501: coal commodity, applicable taxes, gas, alternative fuels, fuel additives, Btu adjustments assessed by coal suppliers, quality adjustments related to the sulfur content of coal assessed by coal suppliers, costs and revenues for SO_2 and NO_x emission allowances, railroad transportation, switching and demurrage charges, railcar repair and inspection costs, railcar depreciation, railcar lease costs, similar costs associated with other applicable modes of transportation, fuel hedging costs (for purposes of factor CF, hedging is defined as realized losses and costs minus realized gains associated with mitigating volatility in the Company's cost of fuel and purchased power, including but not limited to, the Company's use of futures, options and over-the-counter derivatives including, without limitation, futures contracts, puts, calls, caps, floors, collars, and swaps), hedging costs

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associated with SO2 and fuel oil

UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 5	1st Revised	SHEET NO. 98.10
CANCELLING MO.P.S.C. SCHEDULE NO. 5	Original	SHEET NO. 98.10
APPLYING TO MISSOURI SERV	/ICE AREA	
RIDER FUEL AND PURCHASED POWER AN (Applicable To Service Provided Between This Ta	FAC DJUSTMENT CLAUSE (CONT June 21, 2010 And The Ef wriff)	<u>'D.)</u> fective Date Of
adjustments include costs, broker commi price hedges, oil o expenses, and rever and transportation and	ed in commodity and tr lssions and fees assoc costs, ash disposal re nues and expenses resu portfolio optimizatio	ansportation iated with venues and lting from fuel n activities;
(ii) the followi Number 547: natura commodity, oil, tra reservation charges revenues and expens transportation port	ng costs reflected in al gas generation cost ansportation, storage, s, fuel losses, hedgin ses resulting from fue cfolio optimization ac	FERC Account s related to capacity g costs, and l and tivities;
b) Costs in FERC Accou Expense).	unt Number 518 (Nuclea	r Fuel
CPP = Costs of purchased power 555, 565, and 575, exclude under MISO Schedules 10, capacity charges for cont (1) year, incurred to sup customers and Off-System electric operations. Als are insurance premiums in replacement power insuran Sauk Plant) to the extent base rates. Changes in n (other than those relating level reflected in base n purchased power costs. A power will be reduced by recoveries (other than the qualifying as assets unde Principles. Notwithstand the date the "TS" factor this tariff, the premiums replacement power insuran shall be included in this	reflected in FERC Acc ding MISO administrati 16, 17, and 24, and e cracts with terms in e oport sales to all Mis Sales allocated to Mi so included in factor h FERC Account Number nee (other than relati t those premiums are n replacement power insu g to the Taum Sauk Pl rates shall increase o Additionally, costs of expected replacement hose relating to the T er Generally Accepted ing the foregoing, con is eliminated as prov s and recoveries relat nee coverage for the T s CPP Factor.	ount Numbers ve fees arising xcluding xcess of one souri retail ssouri retail "CPP" 924 for ng to the Taum ot reflected in rance premiums ant) from the r decrease purchased power insurance aum Sauk Plant) Accounting currently with ided for in ing to aum Sauk Plant
OSSR = Revenues from Off-System operations. Off-System Sales shall in (including MISO revenues excluding Missouri retail partial requirements sale are associated with (1) A generating units, (2) pow retail load, and (3) any	Sales allocated to Mi in FERC Account Numbe sales and long-term es to Missouri municip AmerenUE Missouri juri ver purchases made to related transmission.	ssouri electric actions r 447), full and alities, that sdictional serve Missouri

DATE OF ISSUE	September 3,	2010 DATE EFFECTIVE	October 3, 2010
ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS

MO.P.S.C. SCHEDULE NO.51st RevisedSHEET NO.98.11CANCELLING MO.P.S.C. SCHEDULE NO.5OriginalSHEET NO.98.11

A

	MISSOURI SERVICE AREA
(Applica)	RIDER FAC FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (CONT'D.) ble To Service Provided Between June 21, 2010 And The Effective Date Of This Tariff)
	Adjustment For Reduction of Service Classification 12(M) Billing Determinants:
	Should the level of monthly billing determinants under Service Classification 12(M) fall below the level of normalized 12(M) monthly billing determinants as established in Case No. ER-2010- 0036 an adjustment to OSSR shall be made in accordance with the following levels:
	a) A reduction of less than 40,000,000 kWh in a given month - No adjustment will be made to OSSR.
	b) A reduction of 40,000,000 kWh or greater in a given month - All Off-System revenues derived from all kWh of energy sold off-system due to the entire reduction shall be excluded from OSSR.
TS	The Accumulation Period value of Taum Sauk. This factor will be used to reduce actual fuel costs to reflect the value of Taum Sauk, and will be credited in FPA filings (of which there are three each year as shown in the table above), until the next rate case or, if sooner, until Taum Sauk is placed back in service. This value is \$26.8 million annually, one third of which (i.e., \$8.93 million) will be applied to each Accumulation Period.
S	The Accumulation Period value of Blackbox Settlement Amount of \$3 million annually, which shall expire on September 1, 2010. One third of the annual value (\$1 million) shall be applied to each Accumulation Period. For the Accumulation Period during which the factor expires, the factor shall be prorated according to the number of days during which it was effective during that Accumulation Period.
W	<pre>= \$300,000 per month for the months, July 1, 2010 through, June 30, 2011. This factor "W" expires on June 30, 2011.</pre>
N	The positive amount by which, over the course of the Accumulation Period, (a) revenues derived from the off-system sale of power made possible as a result of reductions in the level of 12(M) sales (as addressed in the definition of OSSR above) exceeds (b) the reduction of 12(M) revenues compared to normalized 12(M) revenues as determined in Case No. ER- 2010-0036.
I	= Interest applicable to (i) the difference between Actual Net Fuel Costs (adjusted for Taum Sauk, factor "S", and factor "W") and NBFC for all kWh of energy supplied to Missouri retail customers during an Accumulation Period until those costs have been recovered; (ii) refunds due to prudence reviews (a portion of factor R, below); and (iii) all under- or over-recovery

ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
_	NAME OF OFFICER	TITLE	ADDRESS

UNION ELECTRIC COMPANY

ELECTRIC SERVICE

	MO.P.S.C. SCHEDULE NO. 5	1st Revised	SHEET NO. 98.12
CANCELLING	MO.P.S.C. SCHEDULE NO. 5	Original	SHEET NO. 98.12
APPLYING TO	MISSOURI SER	VICE AREA	
<u>F</u> (Applicable	RIDED TUEL AND PURCHASED POWER A To Service Provided Between This T	<u>R FAC</u> DJUSTMENT CLAUSE (CONT June 21, 2010 And The Ef ariff)	<u>'D.)</u> fective Date Of
	balances created through in the true-up filings p factor R, below). Inter rate equal to the weight Company's short-term deb of items (i) through (ii	operation of this FAC rovided for herein (a p est shall be calculated ed average interest ra t, applied to the mont i) in the preceding set	, as determined portion of d monthly at a te paid on the h-end balance ntence.
R =	Under/over recovery (if Recovery Periods as dete adjustments, and modific the Commission (other th already reflected in the prudence reviews or othe with interest as defined	any) from currently ac rmined for the FAC tru ations due to adjustment an the adjustment for TS factor), as a resu r disallowances and re- in item I.	tive and prior e-up nts ordered by Taum Sauk as lt of required conciliations,
S _{AP} =	Supplied kWh during the to the applicable Filing the kWh reductions up to associated with the 12(M	Accumulation Period th Date, at the generation the kWh of energy solution OSSR adjustment above	at ended prior on level, plus d off-system e.
S _{RP} =	Applicable Recovery Peri level, subject to the FP	od estimated kWh, at the A_{RP} to be billed.	he generation
NBFC =	Net Base Fuel Costs are Commission's order as the reflecting an adjustment term TS) for the sum of the term CF), plus cost the term CPP), less rever (consistent with the ter (consistent with the ter per kWh, at the generati Company's retail rates. through September calend 1.236 cents per kWh. The through May calendar mon cents per kWh.	the net costs determine e normalized test year for Taum Sauk, consis allowable fuel costs (of purchased power (cost nues from off-system so m OSSR), less adjustm ms "S" and "W"), expre on level, as included The NBFC rate applicat ar months ("Summer NBF e NBFC rate applicable ths ("Winter NBFC Rate	ed by the value (and tent with the consistent with nsistent with ales ents ssed in cents in the ble to June C Rate") is to October ") is 1.044
To determine Classificatio will be mult:	the FPA rates applicable ons, the FPA rates applicable ons, the FPA_c rate determing the following version of the foll	to the individual Serv ned in accordance with oltage level adjustment	vice the foregoing factors:
Seconda Primar Large	ary Voltage Service y Voltage Service Fransmission Voltage Serv:	1.0789 1.0459 1.0124)) E
The FPA rates rounded to th each applicat	s applicable to the indivine nearest 0.001 cents, to old kWh billed.	idual Service Classific o be charged on a cents	ations shall be s/kWh basis for

DATE OF ISSUE	September 3,	2010 DATE EFFECTIVE	October 3, 2010
ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS

MO.P.S.C. SCHEDULE NO. 5

CANCELLING MO.P.S.C. SCHEDULE NO. 5

Original

1st Revised SHEET NO. 98.13 SHEET NO. 98.13

APPLYING TO

MISSOURI SERVICE AREA

RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (CONT'D.)

(Applicable To Service Provided Between June 21, 2010 And The Effective Date Of This Tariff)

TRUE-UP OF FAC

After completion of each Recovery Period, the Company will make a true-up filing in conjunction with an adjustment to its FAC, where applicable. The true-up filings shall be made on the first Filing Date that occurs at least two (2) months after completion of each Recovery Period. Any true-up adjustments or refunds shall be reflected in item R above, and shall include interest calculated as provided for in item I above.

The true-up adjustments shall be the difference between the revenues billed and the revenues authorized for collection during the Recovery Period.

GENERAL RATE CASE/PRUDENCE REVIEWS

The following shall apply to this Fuel and Purchased Power Adjustment Clause, in accordance with Section 386.266.4, RSMo. and applicable Missouri Public Service Commission Rules governing rate adjustment mechanisms established under Section 386.266, RSMo:

The Company shall file a general rate case with the effective date of new rates to be no later than four years after the effective date of a Missouri Public Service Commission order implementing or continuing this Fuel and Purchased Power Adjustment Clause. The four-year period referenced above shall not include any periods in which the Company is prohibited from collecting any charges under this Fuel and Purchased Power Adjustment Clause, or any period for which charges hereunder must be fully refunded. In the event a court determines that this Fuel and Purchased Power Adjustment Clause is unlawful and all moneys collected hereunder are fully refunded, the Company shall be relieved of the obligation under this Fuel and Purchased Power Adjustment Clause to file such a rate case.

Prudence reviews of the costs subject to this Fuel and Purchased Power Adjustment Clause shall occur no less frequently than every eighteen months, and any such costs which are determined by the Missouri Public Service Commission to have been imprudently incurred shall be returned to customers with interest at a rate equal to the weighted average interest rate paid on the Company's short-term debt.

ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS

MO.P.S.C. SCHEDULE NO. 5 CANCELLING MO.P.S.C. SCHEDULE NO. 5

lst Revised

2nd Revised SHEET NO 98.14

SHEET NO. 98.14

alculation Accumula 1. Tot. 2. Bas 2.1 2.2 3. 4. Cus 5. Adj 6. rec R - 7. 8. Est 9. FPA	<pre></pre>	- x *	May 31, 20: \$159,987,59 \$85,013,1: \$0.006 12,320,741,54 \$74,974,48 99 \$71,225,79 \$392,76
alculation Accumula 1. Tot 2. Bas 2.1 2.2 3. 4. Cus 5. Adj 6. rec R - 7. 8. Est 9. FPA	<pre>c of Current FPA_c Rate: tion Period Ending: al Energy Cost (CF+CPP-OSSR-TS-S-W) e Energy Cost NBFC (\$/kWh) Accumulation Period Sales kWh (S_{AP}) First Subtotal (12.) comer Responsibility Second Subtotal astment for Interest plus Under / Over overy for Prior Periods less Factor N: (I - N) Third Subtotal</pre>	- x x + ±	May 31, 20: \$159,987,59 \$85,013,11 \$0.006 12,320,741,54 \$74,974,48 99 \$71,225,79 \$392,76
Accumula 1. Tot 2. Bas 2.1 2.2 3. 4. Cus 5. Adj 6. rec R - 7. 8. Est 9. FPA	<pre>tion Period Ending: al Energy Cost (CF+CPP-OSSR-TS-S-W) e Energy Cost NBFC (\$/kWh) Accumulation Period Sales kWh (S_{AP}) First Subtotal (12.) comer Responsibility Second Subtotal astment for Interest plus Under / Over overy for Prior Periods less Factor N: (I - N) Third Subtotal</pre>	- x *	May 31, 20: \$159,987,59 \$85,013,1: \$0.006 12,320,741,54 \$74,974,48 99 \$71,225,75 \$392,76
 Tot. Bas 2.1 2.2 Cus Cus Cus rec R - R - Est FPA 	<pre>al Energy Cost (CF+CPP-OSSR-TS-S-W) e Energy Cost NBFC (\$/kWh) Accumulation Period Sales kWh (S_{AP}) First Subtotal (12.) comer Responsibility Second Subtotal astment for Interest plus Under / Over overy for Prior Periods less Factor N: (I - N) Third Subtotal</pre>	- x x + ±	\$159,987,5 \$85,013,1 \$0.006 12,320,741,5 \$74,974,48 95 \$71,225,75 \$392,76
 Bas 2.1 2.2 Cus Cus Cus rec rec rec rec FPA 	e Energy Cost NBFC (\$/kWh) Accumulation Period Sales kWh (S _{AP}) First Subtotal (12.) comer Responsibility Second Subtotal astment for Interest plus Under / Over overy for Prior Periods less Factor N: (I - N) Third Subtotal	- x x + ±	\$85,013,1: \$0.004 12,320,741,54 \$74,974,48 95 \$71,225,75
2.1 2.2 3. 4. Cus 5. Adj 6. rec R - 7. 8. Est 9. FPA	<pre>NBFC (\$/kWh) Accumulation Period Sales kWh (S_{AP}) First Subtotal (12.) comer Responsibility Second Subtotal astment for Interest plus Under / Over overy for Prior Periods less Factor N: (I - N) Third Subtotal</pre>	x x + ±	\$0.000 12,320,741,54 \$74,974,48 99 \$71,225,79
2.2 3. 4. Cus 5. Adj 6. rec R - 7. 8. Est 9. FPA	Accumulation Period Sales kWh (S _{AP}) First Subtotal (12.) comer Responsibility Second Subtotal astment for Interest plus Under / Over overy for Prior Periods less Factor N: (I - N) Third Subtotal	x + ±	12,320,741,5 \$74,974,48 99 \$71,225,79
 Cus Cus R dj rec R - R - Est FPA 	First Subtotal (12.) comer Responsibility Second Subtotal astment for Interest plus Under / Over overy for Prior Periods less Factor N: (I - N) Third Subtotal	x + ±	\$74,974,48 99 \$71,225,79
 4. Cus 5. Adj 6. rec R - 7. 8. Est 9. FPA 	comer Responsibility Second Subtotal astment for Interest plus Under / Over overy for Prior Periods less Factor N: (I - N) Third Subtotal	x + ±	9! \$71,225,7! \$392,7(
5. Adj 6. rec R - 7. 8. Est 9. FPA	Second Subtotal Istment for Interest plus Under / Over Interest plus Under	+ ±	\$71,225,7
Adj 6. rec R - 7. 8. Est 9. FPA	astment for Interest plus Under / Over overy for Prior Periods less Factor N: (I - N) Third Subtotal	+ ±	¢392 71
7. 8. Est 9. FPA	Third Subtotal		φ <u>σ</u> σ <u>σ</u> , π
8. Est 9. FPA			\$71,618,40
9. FPA	mated Recovery Period Sales kWh (Spp)	÷	40.791.485.00
		-	\$0.001
10. FPA	۔ ۱	+	\$0.001
11. FPA	- 1 - 2	+	\$0.000
12. FPA	(without Voltage Level Adjustment)		\$0.003
13. Vol	age Level Adjustment Factor		
13.	Secondary	x	1.08
13.	2 Primary	x	1.04
13.	Large Transmission	x	1.01
14. FPA	(with voltage level adjustment)		
14.	Secondary		\$0.003
14.	2 Primary		\$0.003
14.	Large Transmission		\$0.003

ISSUED BY <u>Warner L. Baxter</u> <u>President & CEO</u> NAME OF OFFICER TITLE <u>St. Louis, Missouri</u> ADDRESS

UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 5

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

Original SHEET NO. 98.15

SHEET NO.

APPLYING TO

MISSOURI SERVICE AREA

RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE

Applicable To Service Provided On The Effective Date Of This Tariff And Thereafter

APPLICABILITY

This rider is applicable to kilowatt-hours (kWh) of energy supplied to customers served by the Company under Service Classification Nos. 1(M), 2(M), 3(M), 4(M), 5(M), 6(M), 7(M), 8(M), 11(M), and 12(M).

Costs passed through this Fuel and Purchased Power Adjustment Clause (FAC) reflect differences between actual fuel and purchased power costs, including transportation, net of Off-System Sales Revenues (OSSR) (i.e., Actual Net Fuel Costs) and Net Base Fuel Costs (factor NBFC, as defined below), calculated and recovered as provided for herein.

The Accumulation Periods and Recovery Periods are as set forth in the following table:

Accumulation Period (AP)	Filing Date	Recovery Period (RP)
February through May	By August 1	October through September
June through September	By December 1	February through January
October through January	By April 1	June through May

Accumulation Period (AP) means the historical calendar months during which fuel and purchased power costs, including transportation, net of OSSR for all kWh of energy supplied to Missouri retail customers are determined.

Recovery Period (RP) means the billing months as set forth in the above table during which the difference between the Actual Net Fuel Costs during an Accumulation Period and NBFC are applied to and recovered through retail customer billings on a per kWh basis, as adjusted for service voltage level.

The Company will make a Fuel and Purchased Power Adjustment (FPA) filing by each Filing Date. The new FPA rates for which the filing is made will be applicable starting with the Recovery Period that begins following the Filing Date. All FPA filings shall be accompanied by detailed workpapers supporting the filing in an electronic format with all formulas intact.

FPA DETERMINATION

Ninety five percent (95%) of the difference between Actual Net Fuel Costs and NBFC for all kWh of energy supplied to Missouri retail customers during the respective Accumulation Periods shall be reflected as an FPA_c credit or debit, stated as a separate line item on the customer's bill and will be calculated according to the following formulas.

For the FPA filing made by each Filing Date, the FPA_c rate, applicable starting with the Recovery Period following the applicable Filing Date, to recover fuel and purchased power costs, including transportation, net of OSSR, to the extent they vary from Net Base Fuel Costs (NBFC), as defined below, during the recently-completed Accumulation Period is calculated as:

DATE OF ISSUE <u>September 3, 2010</u> DATE EFFECTIVE <u>October 3, 2010</u>

ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
_	NAME OF OFFICER	TITLE	ADDRESS

ELECTRIC SERVICE UNION ELECTRIC COMPANY

MO.P.S.C. SCHEDULE NO. 5

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

Original SHEET NO. 98.16

SHEET NO.

MISSOURI SERVICE AREA APPLYING TO RIDER FAC FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (CONT'D.) Applicable To Service Provided On The Effective Date Of This Tariff And Thereafter $FPA_{(RP)} = [[(CF+CPP-OSSR-W) - (NBFC \times S_{AP})] \times 95\% + I + R - N]/S_{RP}$ The FPA rate, which will be multiplied by the voltage level adjustment factors set forth below, applicable starting with the following Recovery Period is calculated as: $FPA_{C} = FPA_{(RP)} + FPA_{(RP-1)} + FPA_{(RP-2)}$ where: FPA_{C} = Fuel and Purchased Power Adjustment rate applicable starting with the Recovery Period following the applicable Filing Date. FPA_{RP} = FPA Recovery Period rate component calculated to recover under/over collection during the Accumulation Period that ended prior to the applicable Filing Date. $FPA_{(RP-1)} = FPA$ Recovery Period rate component from prior FPA_{RP} calculation, if any. FPA(RP-2) = FPA Recovery Period rate component from FPARP calculation prior to $FPA_{(RP-1)}$, if any. CF= Fuel costs incurred to support sales to all retail customers and Off-System Sales allocated to Missouri retail electric operations, including transportation, associated with the Company's generating plants. These costs consist of the following: For fossil fuel or hydroelectric plants: a) (i) the following costs reflected in Federal Energy Regulatory Commission (FERC) Account Number 501: coal commodity, applicable taxes, gas, alternative fuels, fuel additives, Btu adjustments assessed by coal suppliers, quality adjustments related to the sulfur content of coal assessed by coal suppliers, railroad transportation, switching and demurrage charges, railcar repair and inspection costs, railcar depreciation, railcar lease costs, similar costs associated with other applicable modes of transportation, fuel hedging costs (for purposes of factor CF, hedging is defined as realized losses and costs minus realized gains associated with mitigating volatility in the Company's cost of fuel and purchased power, including but not limited to, the Company's use of futures, options and over-the-counter derivatives including, without limitation, futures contracts, puts, calls, caps, floors, collars, and swaps), hedging costs associated with SO2 and fuel oil

ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS

UNION ELECTRIC COMPANY

ELECTRIC SERVICE

SHEET NO. 98.17

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

MO.P.S.C. SCHEDULE NO. 5

SHEET NO.

Original

	MIDDOWL DERVICE AREA
<u>FU</u> Applicable To	<u>RIDER FAC</u> JEL AND PURCHASED POWER ADJUSTMENT CLAUSE (CONT'D.) Service Provided On The Effective Date Of This Tariff And Thereafter
	adjustments included in commodity and transportation costs, broker commissions and fees associated with price hedges, oil costs, ash disposal revenues and expenses, and revenues and expenses resulting from fuel and transportation portfolio optimization activities; and
	(ii) the following costs reflected in FERC Account Number 547: natural gas generation costs related to commodity, oil, transportation, storage, capacity reservation charges, fuel losses, hedging costs, and revenues and expenses resulting from fuel and transportation portfolio optimization activities; and
	(iii) costs and revenues for ${\rm SO}_2$ and ${\rm NO}_{\rm x}$ emission allowances;
	b) Costs in FERC Account Number 518 (Nuclear Fuel Expense).
	555, 565, and 575, excluding MISO administrative fees arising under MISO Schedules 10, 16, 17, and 24, and excluding capacity charges for contracts with terms in excess of one (1) year, incurred to support sales to all Missouri retail customers and Off-System Sales allocated to Missouri retail electric operations. Also included in factor "CPP" are insurance premiums in FERC Account Number 924 for replacement power insurance to the extent those premiums are not reflected in base rates. Changes in replacement power insurance premiums from the level reflected in base rates shall increase or decrease purchased power costs. Additionally, costs of purchased power will be reduced by expected replacement power insurance recoveries qualifying a assets under Generally Accepted Accounting Principles.
OSSR =	Revenues from Off-System Sales allocated to Missouri electric operations. Off-System Sales shall include all sales transactions
	(including MISO revenues in FERC Account Number 447), that are associated with (1) AmerenUE Missouri jurisdictional generating units, (2) power purchases made to serve Missouri retail load, and (3) any related transmission.

ISSUED BYWarner L. BaxterPresident & CEOSt. Louis, MissouriNAME OF OFFICERTITLEADDRESS

MO.P.S.C. SCHEDULE NO.	5
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CANCELLING MO.P.S.C. SCHEDULE NO.

 Original
 SHEET NO.
 98.18

 SHEET NO.
 SHEET NO.

APPLYING TO

MISSOURI SERVICE AREA

Applicable	RIDER FAC FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (CONT'D.) To Service Provided On The Effective Date Of This Tariff And Thereafter
	Adjustment For Reduction of Service Classification 12(M) Billing Determinants: Should the level of monthly billing determinants under Service
	Classification 12(M) fall below the level of normalized 12(M) monthly billing determinants as established in Case No. ER-2010- 0036 an adjustment to OSSR shall be made in accordance with the following levels:
	a) A reduction of less than 40,000,000 kWh in a given month - No adjustment will be made to OSSR.
	 b) A reduction of 40,000,000 kWh or greater in a given month All Off-System Sales revenues derived from all kWh of energy sold off-system due to the entire reduction shall be excluded from OSSR.
W	<pre>= \$300,000 per month for the months, July 1, 2010 through, June 30, 2011. This factor "W" expires on June 30, 2011.</pre>
Ν	The positive amount by which, over the course of the Accumulation Period, (a) revenues derived from the off-system sale of power made possible as a result of reductions in the level of 12(M) sales (as addressed in the definition of OSSR above) exceeds (b) the reduction of 12(M) revenues compared to normalized 12(M) revenues as determined in Case No. ER- 2010-0036.
I	= Interest applicable to (i) the difference between Actual Net Fuel Costs (adjusted for factor "W") and NBFC for all kWh of energy supplied to Missouri retail customers during an Accumulation Period until those costs have been recovered; (ii) refunds due to prudence reviews (a portion of factor R, below); and (iii) all under- or over-recovery balances created through operation of this FAC, as determined in the true-up filings provided for herein (a portion of factor R, below). Interest shall be calculated monthly at a rate equal to the weighted average interest rate paid on the Company's short-term debt, applied to the month-end balance of items (i) through (iii) in the preceding sentence.

UNION ELECTRIC COMPANY

ELECTRIC SERVICE

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

Original SHEET NO. 98.19

SHEET NO.

MISSOURI SERVICE AREA

RIDER FAC FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (CONT'D.) Applicable To Service Provided On The Effective Date Of This Tariff And Thereafter = Under/over recovery (if any) from currently active and prior R Recovery Periods as determined for the FAC true-up adjustments, and modifications due to adjustments ordered by the Commission , as a result of required prudence reviews or other disallowances and reconciliations, with interest as defined in item I. S_{AP} = Supplied kWh during the Accumulation Period that ended prior to the applicable Filing Date, at the generation level, plus the kWh reductions up to the kWh of energy sold off-system associated with the 12(M) OSSR adjustment above. = Applicable Recovery Period estimated kWh, at the generation S_{RP} level, subject to the FPA_{RP} to be billed. NBFC = Net Base Fuel Costs are the net costs determined by the Commission's order as the normalized test year value for the sum of allowable fuel costs (consistent with the term CF), plus cost of purchased power (consistent with the term CPP), less revenues from off-system sales (consistent with the term OSSR), less an adjustment (consistent with the term "W"), expressed in cents per kWh, at the generation level, as included in the Company's retail rates. The NBFC rate applicable to June through September calendar months ("Summer NBFC Rate") is 1.312 cents per kWh. The NBFC rate applicable to October through May calendar months ("Winter NBFC Rate") is 1.275 cents per kWh. To determine the FPA rates applicable to the individual Service Classifications, the FPA_c rate determined in accordance with the foregoing will be multiplied by the following voltage level adjustment factors: Secondary Voltage Service 1.0789 Primary Voltage Service 1.0459 Large Transmission Voltage Service 1.0124 The FPA rates applicable to the individual Service Classifications shall be rounded to the nearest 0.001 cents, to be charged on a cents/kWh basis for each applicable kWh billed.

ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS

UNION ELECTRIC COMPANY

ELECTRIC SERVICE

MO.P.S.C. SCHEDULE NO. 5

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

SHEET NO.

Original SHEET NO. 98.20

MISSOURI SERVICE AREA RIDER FAC

FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (CONT'D.)

Applicable To Service Provided On The Effective Date Of This Tariff And Thereafter

TRUE-UP OF FAC

APPLYING TO

After completion of each Recovery Period, the Company will make a true-up filing in conjunction with an adjustment to its FAC, where applicable. The true-up filings shall be made on the first Filing Date that occurs at least two (2) months after completion of each Recovery Period. Any true-up adjustments or refunds shall be reflected in item R above, and shall include interest calculated as provided for in item I above.

The true-up adjustments shall be the difference between the revenues billed and the revenues authorized for collection during the Recovery Period.

GENERAL RATE CASE/PRUDENCE REVIEWS

The following shall apply to this Fuel and Purchased Power Adjustment Clause, in accordance with Section 386.266.4, RSMo. and applicable Missouri Public Service Commission Rules governing rate adjustment mechanisms established under Section 386.266, RSMo:

The Company shall file a general rate case with the effective date of new rates to be no later than four years after the effective date of a Missouri Public Service Commission order implementing or continuing this Fuel and Purchased Power Adjustment Clause. The four-year period referenced above shall not include any periods in which the Company is prohibited from collecting any charges under this Fuel and Purchased Power Adjustment Clause, or any period for which charges hereunder must be fully refunded. In the event a court determines that this Fuel and Purchased Power Adjustment Clause is unlawful and all moneys collected hereunder are fully refunded, the Company shall be relieved of the obligation under this Fuel and Purchased Power Adjustment Clause to file such a rate case.

Prudence reviews of the costs subject to this Fuel and Purchased Power Adjustment Clause shall occur no less frequently than every eighteen months, and any such costs which are determined by the Missouri Public Service Commission to have been imprudently incurred shall be returned to customers with interest at a rate equal to the weighted average interest rate paid on the Company's short-term debt.

ISSUED BY	Warner L. Baxter	President & CEO	<u>St. Louis, Missouri</u>
	NAME OF OFFICER	TITLE	ADDRESS

MO.P.S.C. SCHEDULE NO. 5

Original SHEET NO. 98.21

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

SHEET NO.

APF	۷LY	ING	то

MISSOURI SERVICE AREA RIDER FAC FUEL AND PURCHASED POWER ADJUSTMENT CLAUSE (CONT'D.) (Applicable for the billing months beginning TBD, 2011 and thereafter) Calculation of Current FPA_C Rate: Accumulation Period Ending: mm/dd/yy 1. Total Energy Cost (CF+CPP-OSSR-W) \$0 2. Base Energy Cost 2.1 NBFC (\$/kWh) \$0.0000 х 2.2 Accumulation Period Sales kWh (S_{AP}) 0 First Subtotal (1.-2.) 3. \$0 4. Customer Responsibility 95% х 5. Second Subtotal \$0 Adjustment for Interest plus Under / Over recovery 6. ± \$0 for Prior Periods less Factor N: (I + R - N) 7. Third Subtotal \$0 8. Estimated Recovery Period Sales kWh $(\,S_{\text{RP}}\,)$ 0 ÷ 9. FPA_{RP} \$0.0000 10. FPA_{RP-1} \$0.0000 + 11. FPA_{RP-2} \$0.0000 + 12. FPA_C (without Voltage Level Adjustment) \$0.0000 13. Voltage Level Adjustment Factor 13.1 Secondary 1.0789 х 13.2 Primary 1.0459 х 13.3 Large Transmission 1.0124 х 14. FPA_{C} (with voltage level adjustment) 14.1 Secondary \$0.0000 14.2 Primary \$0.0000 14.3 Large Transmission \$0.0000

MO.P.S.C. SCHEDULE NO. 5

CANCELLING MO.P.S.C. SCHEDULE NO. 5

20th Revised SHEET NO. 99

21st Revised

SHEET NO. 99

APPLYING TC

MISSOURI SERVICE AREA

Rider B DISCOUNTS APPLICABLE FOR SERVICE TO SUBSTATIONS OWNED BY CUSTOMER IN LIEU OF COMPANY OWNERSHIP

Where a Customer served under rate schedules 4(M) or 11 (M) takes delivery of power and energy at a delivery voltage of 34kV or higher, Company will allow discounts from its applicable rate schedule as follows:

- *1. A monthly credit of \$1.10/kW of billing demand for customers taking service at 34.5 or 69kV
- *2. A monthly credit of \$1.30/kW of billing demand for customers taking service at 115kV or higher

*Indicates Change.

ISSUED BY	Warner L. Baxter	President & CEO	St. Louis, Missouri
	NAME OF OFFICER	TITLE	ADDRESS

AmerenUE <u>CASE NO. ER-2011-0028</u> <u>PRESENT AND PROPOSED CLASS REVENUE REQUIREMENTS</u> (\$000's)

Customer Class		Current Base Revenue		Proposed Base Revenue	F F Ad	Required Revenue djustment	% Change
Residential	\$	1,094,131	\$	1,212,316	\$	118,185	10.8%
Small General Service	\$	280,137	\$	310,379	\$	30,242	10.8%
Large General Service	\$	515,986	\$	571,696	\$	55,710	10.8%
Small Primary Service	\$	195,932	\$	217,090	\$	21,158	10.8%
Large Primary Service	\$	181,019	\$	200,579	\$	19,560	10.8%
Large Transmission Service	\$	139,375	\$	154,426	\$	15,052	10.8%
Lighting	<u>\$</u>	31,160	<u>\$</u>	34,526	\$	3,366	<u>10.8%</u>
Total	\$	2,437,740	\$	2,701,012	\$	263,273 (1)	10.8%

 Targeted increase from Company witness Mr. Gary Weiss testimony is \$263,313; however, rate rounding resulted in a shortfall of approximately \$40K.

MISSOURI RESIDENTIAL SERVICE CLASSIFICATION NO. 1(M) TYPICAL MONTHLY BILLS - EXCLUDING TAXES

	AVERAGE MONTHLY
kWh	BILL
100	\$18.58
150	\$22.85
200	\$27.12
250	\$31.40
300	\$35.67
350	\$39.95
400	\$44.22
450	\$48.49
500	\$52.76
550	\$57.04
600	\$61.31
650	\$65.59
700	\$69.86
750	\$74.13
800	\$77.57
850	\$81.01
900	\$84.44
950	\$87.88
1000	\$91.32
1100	\$98.19
1200	\$105.06
1300	\$111.94
1400	\$118.81
1500	\$125.68
1600	\$132.56
1700	\$139.43
1800	\$146.30
1900	\$153.18
2000	\$160.05
2500	\$194.42
3000	\$228.78
3500	\$263.15
4000	\$297.52
4500	\$331.88
5000	\$366.25

MISSOURI SMALL GENERAL SERVICE CLASSIFICATION NO. 2 (M) TYPICAL MONTHLY BILLS - EXCLUDING TAXES

SINGLE-PHASE	SERVICE
	AVERAGE
kWh	MONTHLY BILL
2	411 0 5
0	\$11.05
50	\$15.26
100	\$19.47
300	\$36 31
500	¢30.51
400	\$44.73
500	\$53.15
600	\$61 57
700	¢ < 0 0 0
700	Ş09.99
800	\$78.41
900	\$86.83
1000	\$95.25
2 000	6170 AF
2,000	Ş⊥/9.45
3,000	\$263.65
4,000	\$347.85
5,000	\$432.05
-,	4
C 000	
6,000	\$516.25
7,000	\$600.45
8,000	\$684.65
9 000	\$768 85
10,000	¢953.05
10,000	\$853.05
11,000	\$937.25
12,000	\$1,021.45
13.000	\$1,105,65
14 000	¢1 100 0E
14,000	\$1,109.00 \$1
15,000	\$1,274.05
16,000	\$1,358.25
17 000	\$1 442 45
10,000	$\dot{\varphi}_{1}$, \dot{z}_{2} , \dot{z}_{3}
18,000	\$1,526.65
19,000	\$1,610.85
20,000	\$1,695.05
21 000	\$1 779 25
22,000	
22,000	γ 1,863.45
23,000	ŞI,947.65
24,000	\$2,031.85
25,000	\$2,116.05
- /	·····
30 000	40 F07 0F
30,000	⊋∠,53/.U5
35,000	\$2,958.05
40,000	\$3,379.05
45,000	\$3,800.05
50 000	\$4 001 OF
50,000	YT, ZZI. UD

(1) - WINTER BILLS EXCLUDE SEASONAL USAGE EFFECT, IF ANY.

MISSOURI SMALL GENERAL SERVICE CLASSIFICATION NO. 2(M) TYPICAL MONTHLY BILLS - EXCLUDING TAXES THREE-PHASE SERVICE

	AVERAGE
	MONTHLY
kWh	BILL
0	\$22.05
50	\$26.26
100	\$30.47
300	\$47.31
400	\$55.73
500	\$64.15
600	\$72.57
700	\$80.99
800	\$89.41
900	\$97.83
1000	\$106.25
2,000	\$190.45
3,000	\$274.65
4,000	\$358.85
5,000	\$443.05
6,000	\$527.25
7,000	\$611.45
8,000	\$695.65
9,000	\$779.85
10,000	\$864.05
11,000	\$948.25
12,000	\$1,032.45
13,000	\$1,116.65
14,000	\$1,200.85
15,000	\$1,285.05
16,000	\$1,369.25
17,000	\$1,453.45
18,000	\$1,537.65
19,000	\$1,621.85
20,000	\$1,706.05
21,000	\$1,790.25
22,000	\$1,874.45
23,000	\$1,958.65
24,000	\$2,042.85
25,000	\$2,127.05
30,000	\$2,548.05
35,000	\$2,969.05
40,000	\$3,390.05
45,000	\$3,811.05
50,000	\$4,232.05

(1) - WINTER BILLS EXCLUDE SEASONAL USAGE EFFECT, IF ANY.

MISSOURI LARGE GENERAL SERVICE CLASSIFICATION NO. 3(M) TYPICAL MONTHLY BILLS - EXCLUDING TAXES

			AVERAGE
kW	kWh/kW	kWh	MONTHLY BILL
100	100	10,000	\$1,093.74
	200	20,000	\$1,741.74
	300	30,000	\$2,296.41
	400	40,000	\$2,778.74
	500	50,000	\$3,188.74
	600	60,000	\$3,598,74
	700	70,000	\$4 008 74
	,	, , , , , , , , , , , , , , , , , , , ,	<i>q</i> 17000.71
500	100	50,000	\$5,117.74
	200	100.000	\$8,357,74
	300	150,000	\$11 131 07
	400	200,000	¢13 542 74
	400 E00	200,000	215, 512.71
	500	230,000	\$15,592.74
	600	300,000	\$17,642.74
	700	350,000	\$19,692.74
1000	100	100 000	¢10 147 74
1000	200	200,000	$\phi_{10}, \pm 1,, \phi_{10}$
	200	200,000	\$16,627.74
	300	300,000	\$22,174.41
	400	400,000	\$26,997.74
	500	500,000	\$31,097.74
	600	600,000	\$35,197.74
	700	700,000	\$39,297.74
2 000	100		¢20 207 74
2,000	100	200,000	\$20,207.74
	200	400,000	\$33,167.74
	300	600,000	\$44,261.07
	400	800,000	\$53,907.74
	500	1,000,000	\$62,107.74
	600	1,200,000	\$70,307.74
	700	1,400,000	\$78,507.74
2 000	100	200 000	
3,000	100	300,000	\$30,267.74
	200	600,000	\$49,707.74
	300	900,000	\$66,347.74
	400	1,200,000	\$80,817.74
	500	1,500,000	\$93,117.74
	600	1,800,000	\$105,417.74
	700	2,100,000	\$117,717.74
F 000	100		
5,000	T00	500,000	\$50,387.74
	200	1,000,000	\$82,787.74
	300	1,500,000	\$110,521.07
	400	2,000,000	\$134,637.74
	500	2,500,000	\$155,137.74
	600	3,000,000	\$175,637.74
	700	3,500,000	\$196,137.74

(1) - WINTER BILLS EXCLUDE SEASONAL USAGE EFFECT, IF ANY.

MISSOURI SMALL PRIMARY SERVICE CLASSIFICATION NO. 4(M) TYPICAL MONTHLY BILLS - EXCLUDING TAXES

			AVERAGE
kŴ	kWh/kW	kWh	MONTHLY BILL
100	100	10 000	\$1 220 22
100	200	20,000	\$1 846 72
	200	20,000	$\phi_{1}, \phi_{2}, \phi_{3}, \phi_{2}$
	400	30,000	\$2,383.72 \$2,940.90
	400	40,000	\$2,849.89
	500	50,000	\$3,245.22
	600	60,000	\$3,640.55
	700	70,000	\$4,035.89
500	100	50,000	\$4,952.22
	200	100,000	\$8,084.72
	300	150,000	\$10,769.72
	400	200,000	\$13,100.55
	500	250,000	\$15,077.22
	600	300,000	\$17.053.89
	700	350,000	\$19,030.55
		· · · , · · · ·	, , , , , , , , , , , , , , , , , , , ,
1000	100	100,000	\$9,617.22
	200	200,000	\$15,882.22
	300	300,000	\$21,252.22
	400	400,000	\$25,913.89
	500	500,000	\$29,867.22
	600	600,000	\$33,820.55
	700	700,000	\$37,773.89
0.000	1.0.0		
2,000	100	200,000	\$18,947.22
	200	400,000	\$31,477.22
	300	600,000	\$42,217.22
	400	800,000	\$51,540.55
	500	1,000,000	\$59,447.22
	600	1,200,000	\$67,353.89
	700	1,400,000	\$75,260.55
3,000	100	300,000	\$28,277.22
	200	600,000	\$47,072.22
	300	900,000	\$63,182.22
	400	1,200,000	\$77,167.22
	500	1,500,000	\$89,027.22
	600	1,800,000	\$100.887.22
	700	2,100,000	\$112,747.22
5,000	T00	500,000	\$46,937.22
	200	1,000,000	\$78,262.22
	300	1,500,000	\$105,112.22
	400	2,000,000	\$128,420.55
	500	2,500,000	\$148,187.22
	600	3,000,000	\$167,953.89
	700	3,500,000	\$187,720.55
(1) - WINTER	BILLS	EXCLUDE SEASONAL	USAGE EFFECT, IF ANY.

MISSOURI LARGE PRIMARY SERVICE CLASSIFICATION NO. 11(M) TYPICAL MONTHLY BILLS - EXCLUDING TAXES

-	kW	kWh/kW	k₩h	AVERAGE MONTHLY BILL
*	4,000	300	1,200,000	\$96,776.72
		400	1,600,000	\$108,656.72
		500	2,000,000	\$120,536.72
		600	2,400,000	\$132,416.72
		700	2,800,000	\$144,296.72
	5,000	300	1,500,000	\$105,686.72
		400	2,000,000	\$120,536.72
		500	2,500,000	\$135,386.72
		600	3,000,000	\$150,236.72
		700	3,500,000	\$165,086.72
	10,000	300	3,000,000	\$211,036.72
		400	4,000,000	\$240,736.72
		500	5,000,000	\$270,436.72
		600	6,000,000	\$300,136.72
		700	7,000,000	\$329,836.72
	20,000	300	6,000,000	\$421,736.72
		400	8,000,000	\$481,136.72
		500	10,000,000	\$540,536.72
		600	12,000,000	\$599,936.72
		700	14,000,000	\$659,336.72
	30,000	300	9,000,000	\$632,436.72
		400	12,000,000	\$721,536.72
		500	15,000,000	\$810,636.72
		600	18,000,000	\$899,736.72
		700	21,000,000	\$988,836.72
	50,000	300	15,000,000	\$1,053,836.72
		400	20,000,000	\$1,202,336.72
		500	25,000,000	\$1,350,836.72
		600	30,000,000	\$1,499,336.72
		700	35,000,000	\$1,647,836.72
	100,000	300	30,000,000	\$2,107,336.72
		400	40,000,000	\$2,404,336.72
		500	50,000,000	\$2,701,336.72
		600	60,000,000	\$2,998,336.72
		700	70,000,000	\$3,295,336.72

* - BILLS REFLECT MINIMUM BILLING DEMAND OF 5,000 kW.

MISSOURI LARGE TRANSMISSION SERVICE CLASSIFICATION NO. 12(M) TYPICAL MONTHLY BILLS - EXCLUDING TAXES

				AVERAGE
	kW	kWh/kW	kWh	MONTHLY BILL
*	4,000	300	1,200,000	\$72,977.67
		400	1,600,000	\$82,852.33
		500	2,000,000	\$92,727.00
		600	2,400,000	\$102,601.67
		700	2,800,000	\$112,476.33
			, ,	, ,
	5,000	300	1,500,000	\$80,383.67
	-,	400	2,000,000	\$92,727.00
		500	2,500,000	\$105,070,33
		600	3 000 000	\$117 413 67
		700	3 500 000	\$129 757 00
		700	3,500,000	Ş129,797.00
	10 000	300	3 000 000	\$158 980 33
	10,000	400	4 000 000	\$183 667 00
		500	5,000,000	\$208 353 67
		500	5,000,000	\$222,555.07
		700	7,000,000	2255,040.55
		700	7,000,000	ŞZ57,1Z7.00
	20 000	300	6 000 000	\$316 173 67
	20,000	400	8 000 000	\$365 547 00
		500	10,000,000	\$111 920 33
		500	12,000,000	e^{4}
		700	14,000,000	\$404,293.07 \$E12 667 00
		700	14,000,000	\$2T2,001.00
	30,000	300	9,000,000	\$473,367,00
	50,000	400	12 000 000	\$547 427 00
		500	15 000 000	\$621 487 00
		600	18 000 000	\$695 547 00
		700	21 000 000	\$769 607 00
		700	21,000,000	<i>ç</i> ,0 <i>5</i> ,007.00
	50.000	300	15,000,000	\$787.753.67
	,	400	20,000,000	\$911.187.00
		500	25,000,000	\$1,034,620,33
		600	30,000,000	\$1,158,053,67
		700	35,000,000	\$1 281 487 00
		, 00	33,000,000	91,201,107.00
	100,000	300	30,000.000	\$1,573,720.33
	,	400	40,000,000	\$1,820,587.00
		500	50,000,000	\$2,067.453.67
		600	60,000,000	\$2.314 320 33
		700	70 000 000	\$2,511,520.55
		,	,0,000,000	Υ2,301,107.00

GENERATING AND POWER DISTRIBUTION SYSTEM



Schedule WLC-E4
AmerenUE MISSOURI ELECTRIC OPERATIONS CLASS COST OF SERVICE ALLOCATION STUDY

TITLE: SUMMARY CURRENT ROR RESULTS (\$000'S)		<u>)</u>			SMALL		LARGE G.S. /		LARGE		LARGE		
		MISSOURI	RESIDENTIAL	<u>GEN SERV</u>		SMALL PRIMARY		PRIMARY		TRANS		LIGHTING	
1	BASE REVENUE	\$ 2,437,740	\$ 1,094,131	\$	280,137	\$	711,918	\$	181,019	\$	139,375	\$	31,160
2	OTHER REVENUE	\$ 71,988	\$ 39,753	\$	6,841	\$	16,621	\$	4,333	\$	3,808	\$	632
3	LIGHTING REVENUE	\$ -	\$ -	\$	-	\$	-	\$	-	\$	_	\$	-
4	SYSTEM, OFF-SYS SALES & DISP OF ALLOW	\$ 389,344	\$ 146,722	\$	37,697	\$	122,978	\$	38,947	\$	41,027	\$	1,972
5	RATE REVENUE VARIANCE	\$ -	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-
6	TOTAL OPERATING REVENUE	\$ 2,899,072	\$ 1,280,607	\$	324,676	\$	851,517	\$	224,299	\$	184,209	\$	33,764
7													
8	TOTAL PROD, T&D, CUST, AND A&G EXP	\$ 1,791,698	\$779,227	\$	180,071	\$	511,553	\$	155,008	\$	145,300	\$	20,538
9	TOTAL DEPR AND AMMORT EXPENSES	\$ 426,931	\$ 228,733	\$	46,677	\$	103,579	\$	23,754	\$	15,286	\$	8,903
10	REAL ESTATE AND PROPERTY TAXES	\$ 135,868	\$ 70,713	\$	15,062	\$	33,662	\$	8,150	\$	5,760	\$	2,521
11	INCOME TAXES	\$ 208,419	\$ 106,629	\$	22,350	\$	53,140	\$	13,222	\$	9,731	\$	3,346
12	PAYROLL TAXES	\$ 23,610	\$ 11,399	\$	2,441	\$	6,243	\$	1,757	\$	1,349	\$	422
13	FEDERAL EXCISE TAX	\$ -	\$ -	\$	-	\$	-	\$	_	\$	-	\$	-
14	REVENUE TAXES	\$ -	\$ -	\$		\$	-	\$		\$		\$	_
15													
16	TOTAL OPERATING EXPENSES	\$ 2,586,527	\$ 1,196,701	\$	266,602	\$	708,176	\$	201,892	\$	177,426	\$	35,729
17													
18	NET OPERATING INCOME	\$ 312,545	\$ 83,906	\$	58,074	\$	143,341	\$	22,407	\$	6,783	\$	(1,965)
19													
20	GROSS PLANT IN SERVICE	\$14,123,637	\$ 7,352,563	\$	1,562,544	\$	3,505,018	\$	845,473	\$	596,896	\$	261,144
21	RESERVES FOR DEPRECIATION	\$ 5,937,666	\$ 3,112,141	\$	660,658	\$	1,452,001	\$	346,466	\$	243,881	\$	122,519
22													
23	NET PLANT IN SERVICE	\$ 8,185,971	\$ 4,240,422	\$	901,886	\$	2,053,017	\$	499,007	\$	353,014	\$	138,625
24													
25	MATERIALS & SUPPLIES - FUEL	\$ 371,450	\$ 139,979	\$	35,965	\$	117,326	\$	37,157	\$	39,142	\$	1,881
26	MATERIALS & SUPPLIES -LOCAL	\$ 45,574	\$ 28,896	\$	5,327	\$	7,875	\$	1,575	\$	1	\$	1,900
27	CASH WORKING CAPITAL	\$ 25,804	\$ 11,223	\$	2,593	\$	7,368	\$	2,232	\$	2,093	\$	296
28	CUSTOMER ADVANCES & DEPOSITS	\$ (19,537)	\$ (23)	\$	(16,017)	\$	(3,498)	\$	-	\$	-	\$	-
29	ACCUMULATED DEFERRED INCOME TAXES	\$(1,799,209)	\$ (936,408)	\$	(199,459)	\$	(445,761)	\$	(107,929)	\$	(76,274)	\$	(33,377)
30													
31	TOTAL NET ORIGINAL COST RATE BASE	\$ 6,810,054	\$ 3,484,089	\$	730,296	\$	1,736,328	\$	432,042	\$	317,976	\$	109,324
32													
33	RATE OF RETURN	4.589%	2.408%		7.952%		8.255%		5.186%		2.133%		-1.798%

AmerenUE MISSOURI ELECTRIC OPERATIONS CLASS COST OF SERVICE ALLOCATION STUDY EQUALIZED CLASS RATES OF RETURN ANALYSIS

<u>TITLE: SUMMARY EQUAL ROR (\$000's)</u>						SMALL	LA	ARGE G.S. /		LARGE		LARGE		
		MISSOURI	RE	SIDENTIAL		<u>GEN SERV</u>	SM	ALL PRIMARY		PRIMARY		TRANS	Ī	IGHTING
BASE REVENUE	\$	2,701,053	\$	1,304,840	\$	283,817	\$	715,401	\$	195,146	\$	159,480	\$	42,370
OTHER REVENUE	\$	71,988	\$	39,753	\$	6,841	\$	16,621	\$	4,333	\$	3,808	\$	632
LIGHTING REVENUE	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
SYSTEM, OFF-SYS SALES & DISP OF ALLOW RATE REVENUE VARIANCE	\$ \$	389,344	\$ \$	146,722	\$ \$	37,697	\$ \$	122,978	\$ \$	38,947 -	\$ \$	41,027	\$ \$	1,972
TOTAL OPERATING REVENUE	\$	3,162,385	\$	1,491,316	\$	328,356	\$	855,000	\$	238,425	\$	204,314	\$	44,974
TOTAL PROD., T&D, CUSTOMER, AND A&G EXP.	\$	1,791,698	\$	779,227	\$	180,071	\$	511,553	\$	155,008	\$	145,300	\$	20,538
TOTAL DEPR. AND AMMOR. EXPENSES	\$	426,931	\$	228,733	\$	46,677	\$	103,579	\$	23,754	\$	15,286	\$	8,903
REAL ESTATE AND PROPERTY TAXES	\$	135,868	\$	70,713	\$	15,062	\$	33,662	\$	8,150	\$	5,760	\$	2,521
INCOME TAXES	\$	208,419	\$	106,629	\$	22,350	\$	53,140	\$	13,222	\$	9,731	\$	3,346
PAYROLL TAXES	\$	23,610	\$	11,399	\$	2,441	\$	6,243	\$	1,757	\$	1,349	\$	422
FEDERAL EXCISE TAX	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
REVENUE TAXES	\$		\$	-	\$	-	\$	-	\$	-	\$		\$	
TOTAL OPERATING EXPENSES	\$	2,586,527	\$	1,196,701	\$	266,602	\$	708,176	\$	201,892	\$	177,426	\$	35,729
NET OPERATING INCOME	\$	575,858	\$	294,615	\$	61,754	\$	146,824	\$	36,534	\$	26,888	\$	9,244
GROSS PLANT IN SERVICE	\$:	14,123,637	\$	7,352,563	\$	1,562,544	\$	3,505,018	\$	845,473	\$	596,896	\$	261,144
RESERVES FOR DEPRECIATION	\$	5,937,666	\$	3,112,141	\$	660,658	\$	1,452,001	\$	346,466	\$	243,881	\$	122,519
NET PLANT IN SERVICE	\$	8,185,971	\$	4,240,422	\$	901,886	\$	2,053,017	\$	499,007	\$	353,014	\$	138,625
MATERIALS & SUPPLIES - FUEL	\$	371,450	\$	139,979	\$	35,965	\$	117,326	\$	37,157	\$	39,142	\$	1,881
MATERIALS & SUPPLIES -LOCAL	\$	45,574	\$	28,896	\$	5,327	\$	7,875	\$	1,575	\$	1	\$	1,900
CASH WORKING CAPITAL	\$	25,804	\$	11,223	\$	2,593	\$	7,368	\$	2,232	\$	2,093	\$	296
CUSTOMER ADVANCES & DEPOSITS	\$	(19,537)	\$	(23)	\$	(16,017)	\$	(3,498)	\$	_	\$	_	\$	-
ACCUMULATED DEFERRED INCOME TAXES	\$	(1,799,209)	\$	(936,408)	\$	(199,459)	\$	(445,761)	\$	(107,929)	\$	(76,274)	\$	(33,377)
TOTAL NET ORIGINAL COST RATE BASE	\$	6,810,054	\$	3,484,089	\$	730,296	\$	1,736,328	\$	432,042	\$	317,976	\$	109,324
RATE OF RETURN		8.456%		8.456%		8.456%		8.456%		8.456%		8.456%		8.456%
	TITLE: SUMMARY EQUAL ROR (\$000's) BASE REVENUE OTHER REVENUE LIGHTING REVENUE SYSTEM, OFF-SYS SALES & DISP OF ALLOW RATE REVENUE VARIANCE TOTAL OPERATING REVENUE TOTAL OPERATING REVENUE TOTAL DEPR. AND AMMOR. EXPENSES REAL ESTATE AND PROPERTY TAXES INCOME TAXES PAYROLL TAXES FEDERAL EXCISE TAX REVENUE TAXES TOTAL OPERATING EXPENSES NET OPERATING INCOME GROSS PLANT IN SERVICE RESERVES FOR DEPRECIATION NET PLANT IN SERVICE MATERIALS & SUPPLIES - FUEL MATERIALS & SUPPLIES - LOCAL CASH WORKING CAPITAL CUSTOMER ADVANCES & DEPOSITS ACCUMULATED DEFERRED INCOME TAXES TOTAL NET ORIGINAL COST RATE BASE RATE OF RETURN	TITLE:SUMMARY EQUAL ROR (\$000's)BASE REVENUE\$OTHER REVENUE\$LIGHTING REVENUE\$SYSTEM, OFF-SYS SALES & DISP OF ALLOW\$RATE REVENUE VARIANCE\$TOTAL OPERATING REVENUE\$TOTAL DEPR. AND AMMOR. EXPENSES\$REAL ESTATE AND PROPERTY TAXES\$INCOME TAXES\$PAYROLL TAXES\$FEDERAL EXCISE TAX\$REVENUE TAXES\$NET OPERATING INCOME\$GROSS PLANT IN SERVICE\$RESERVES FOR DEPRECIATION\$MATERIALS & SUPPLIES - FUEL\$MATERIALS & SUPPLIES - FUEL\$CUSTOMER ADVANCES & DEPOSITS\$ACCUMULATED DEFERRED INCOME TAXES\$TOTAL NET ORIGINAL COST RATE BASE\$RATE OF RETURN\$	TITLE: SUMMARY EQUAL ROR (\$000'5)BASE REVENUE\$ 2,701,053OTHER REVENUE\$ 71,988LIGHTING REVENUE\$ -SYSTEM, OFF-SYS SALES & DISP OF ALLOW\$ 389,344RATE REVENUE VARIANCE\$ -TOTAL OPERATING REVENUE\$ 3,162,385TOTAL PROD., T&D, CUSTOMER, AND A&G EXP.\$ 1,791,698TOTAL DEPR. AND AMMOR. EXPENSES\$ 426,931REAL ESTATE AND PROPERTY TAXES\$ 135,868INCOME TAXES\$ 208,419PAYROLL TAXES\$ 23,610FEDERAL EXCISE TAX\$ -REVENUE TAXES\$ 2,586,527NET OPERATING EXPENSES\$ 2,586,527NET OPERATING INCOME\$ 575,858GROSS PLANT IN SERVICE\$ 14,123,637RESERVES FOR DEPRECIATION\$ 5,937,666NET PLANT IN SERVICE\$ 3,71,450MATERIALS & SUPPLIES - FUEL\$ 3,71,450MATERIALS & SUPPLIES - LOCAL\$ 45,574CASH WORKING CAPITAL\$ 25,804CUSTOMER ADVANCES & DEPOSITS\$ (19,537)ACCUMULATED DEFERED INCOME TAXES\$ 6,810,054RATE OF RETURN8.456*	TITLE: SUMMARY EQUAL ROR (\$000's)MISSOURIMISSOURIPHBASE REVENUE\$ 2,701,053\$OTHER REVENUE\$ 71,988\$LIGHTING REVENUE\$ 71,988\$SYSTEM, OFF-SYS SALES & DISP OF ALLOW\$ 389,344\$RATE REVENUE VARIANCE\$ -\$TOTAL OPERATING REVENUE\$ 3,162,385\$TOTAL DEPR. AND AMMOR. EXPENSES\$ 426,931\$REAL ESTATE AND PROPERTY TAXES\$ 135,866\$INCOME TAXES\$ 208,419\$PAYROLL TAXES\$ 23,610\$FEDERAL EXCISE TAX\$ -\$REVENUE TAXES\$ 2,586,527\$NET OPERATING EXPENSES\$ 2,586,527\$NET OPERATING INCOME\$ 575,858\$RESERVES FOR DEPRECIATION\$ 14,123,637\$NET PLANT IN SERVICE\$ 14,123,637\$RESERVES FOR DEPRECIATION\$ 371,450\$MATERIALS & SUPPLIES - FUEL\$ 371,450\$MATERIALS & SUPPLIES -LOCAL\$ 45,574\$CUSTOMER ADVANCES & DEPOSITS\$ (19,537)\$ACCUMULATED DEFERRED INCOME TAXES\$ (1,799,209)\$TOTAL NET ORIGINAL COST RATE BASE\$ 6,810,054\$RATE OF RETURN8.456*	TITLE: SUMMARY EQUAL ROR (\$000's) MISSOURI RESIDENTIAL BASE REVENUE \$ 2,701,053 \$ 1,304,840 OTHER REVENUE \$ 71,988 \$ 39,753 LIGHTING REVENUE \$ 71,988 \$ 39,753 LIGHTING REVENUE \$ - \$ - SYSTEM, OFF-SYS SALES & DISP OF ALLOW \$ 389,344 \$ 146,722 RATE REVENUE VARIANCE \$ - \$ - TOTAL OPERATING REVENUE \$ 3,162,385 \$ 1,491,316 TOTAL DEPR. AND AMMOR. EXPENSES \$ 426,931 \$ 228,733 REAL ESTATE AND PROPERTY TAXES \$ 135,868 \$ 70,713 INCOME TAXES \$ 208,419 \$ 106,629 PAYROLL TAXES \$ 23,610 \$ 11,399 FEDERAL EXCISE TAX \$ - \$ - REVENUE TAXES \$ 2,586,527 \$ 1,196,701 NET OPERATING INCOME \$ 575,858 \$ 294,615 GROSS PLANT IN SERVICE \$ 14,123,637 \$ 7,352,563 RESERVES FOR DEPRECIATION \$ 5,937,666 \$ 3,112,141 NET PLANT IN SERVICE \$ 371,450 \$ 139,979	TITLE: JUMMARY EQUAL ROR (\$000's) MISSOURI RESIDENTIAL BASE REVENUE \$ 2,701,053 \$ 1,304,840 \$ OTHER REVENUE \$ 71,988 \$ 39,753 \$ LIGHTING REVENUE \$ - \$ - \$ SYSTEM, OFF-SYS SALES & DISP OF ALLOW \$ 389,344 \$ 146,722 \$ RATE REVENUE VARIANCE \$ - \$ - \$ - \$ TOTAL OPERATING REVENUE \$ 3,162,385 \$ 1,491,316 \$ \$ TOTAL OPERATING REVENUE \$ 1,791,698 \$ 779,227 \$ \$ TOTAL DERR. AND AMMOR. EXPENSES \$ 426,931 \$ 228,733 \$ REAL ESTATE AND PROPERTY TAXES \$ 135,868 \$ 70,713 \$ INCOME TAXES \$ 208,419 \$ 106,629 \$ PATROLL TAXES \$ 23,610 \$ 11,399 \$ FEDERAL EXCISE TAX \$ - \$ - \$ NET OPERATING INCOME \$ 575,858 294,615 \$ GROSS PLANT IN SERVICE \$ 14,123,637 \$ 7,352,563 \$	TITLE: SUMMARY EQUAL ROR (\$000's) SMALL MISSOURI RESIDENTIAL GEN SERV BASE REVENUE \$ 2,701,053 \$ 1,304,840 \$ 283,817 OTHER REVENUE \$ 71,988 \$ 39,753 \$ 6,841 LIGHTING REVENUE \$ - \$ - \$ - SYSTEM, OFF-SYS SALES & DISP OF ALLOW \$ 389,344 \$ 146,722 \$ 37,697 RATE REVENUE VARIANCE \$ - \$ - \$ - \$ - TOTAL OPERATING REVENUE \$ 3,162,385 \$ 1,491,316 \$ 328,356 TOTAL OPERATING REVENUE \$ 1,791,698 \$ 779,227 \$ 180,071 TOTAL DEPR. AND AMMOR. EXPENSES \$ 426,931 \$ 228,733 \$ 46,677 REAL ESTATE AND PROPERTY TAXES \$ 135,868 \$ 70,713 \$ 15,062 INCOME TAXES \$ 208,419 \$ 106,629 \$ 22,350 PATROLI TAXES \$ 2,586,527 \$ 1,196,701 \$ 266,602 NET OPERATING EXPENSES \$ 5,5937,666 \$ 3,112,141 \$ 660,658 NET OPERATING EXPENSES \$ 2,586,527 \$ 1,196,701 \$ 266,602 NET O	TITLE: SUMMARY EQUAL ROR (\$000's) SMALL L MISSOURI RESIDENTIAL GEN SERV SM BASE REVENUE \$ 2,701,053 \$ 1,304,840 \$ 283,817 \$ OTHER REVENUE \$ 71,988 \$ 39,753 \$ 6,841 \$ SYSTEM, OFF-SYS SALES & DISP OF ALLOW \$ 389,344 \$ 166,722 \$ 37,697 \$ RATE REVENUE VARIANCE \$ - \$ - \$ - \$ <td>TITLE: SUMALY EQUAL ROP (\$2000's) MISSOURI RESIDENTIAL CANCE C.S. / GEN SERV SMALL PRIMARY BASE REVENUE \$ 2,701,053 \$ 1,304,840 \$ 283,817 \$ 715,401 OTHER REVENUE \$ 71,988 \$ 39,753 \$ 6,841 \$ 16,621 LIGHTING REVENUE \$ - \$ - \$ - \$ - \$ - SYSTEM, OFF-SYS SALES & DISP OF ALLON \$ 389,344 \$ 146,722 \$ 37,697 \$ 122,978 RATE REVENUE VARIANCE \$ - \$ - \$ - \$ - \$ - TOTAL OPERATING REVENUE \$ 3,162,385 \$ 1,491,316 \$ 328,356 \$ 855,000 TOTAL OPERATING REVENUE \$ 3,162,385 \$ 1,991,698 \$ 707,227 \$ 180,071 \$ 511,553 TOTAL DEPR. AND AMMOR. EXPENSES \$ 426,931 \$ 228,733 \$ 46,677 \$ 103,579 REAL ESTATE AND REPOPERTY TAKES \$ 208,419 \$ 106,629 \$ 22,350 \$ 53,140 PAYGOLI TAKES \$ 208,419 \$ 106,629 \$ 22,350 \$ 53,140 PAYEDELI TAKES \$ 2,586,527 \$ 1,196,701 \$ 266,602 \$</td> <td>TITLE: SWALL LARGE (\$0.00's) MISSOURI RESIDENTIAL GEN SERV SMALL PRIMARY SMALPRIMARY<td>TITLE: SUMMARY BOUAL ROR (\$000's1) SMALL PERIMARY LARCE MISSOURI RESIDENTIAL GEN SERV SMALL PERIMARY PERMARY BASE REVENUE \$ 2,701,053 \$ 1,304,840 \$ 28,817 \$ 75,401 \$ 195,146 CHER REVENUE \$ 71,988 39,753 \$ 6,681 \$ 1,621 \$ 4,333 LIGHTING REVENUE \$ 71,988 \$ 39,753 \$ 6,697 \$ 122,978 \$ 33,425 TOTAL OPERATING REVENUE \$ 3,162,385 \$ 1,491,316 \$ 328,356 \$ 855,000 \$ 23,8425 TOTAL OPERATING REVENUE \$ 3,162,385 \$ 1,491,316 \$ 328,356 \$ 855,000 \$ 23,8425 TOTAL OPERATING REVENUE \$ 3,162,385 \$ 1,491,316 \$ 328,356 \$ 855,000 \$ 23,8425 TOTAL OPERATING REVENUE \$ 1,191,698 \$ 779,227 \$ 180,071 \$ 511,553 \$ 155,008 TOTAL OPERATING REVENUE \$ 208,419 \$ 106,629 \$ 2,2,350 \$ 5,140 \$ 13,222 PAYROLL TAXES \$ 206,419 \$ 106,629 \$ 2,2,350 \$ 5,140 \$ 1,32,229 PAYROL TAX</td><td>TITLE: SUMMARY BOULL ROR (\$000's) MISSOURI SMAL LARCE C.S. / LARCE MISSOURI RESIDENTIAL GEN SERV SMALL PRIMARY PRIMARY BASE REVENUE \$ 2,701.053 \$ 1,304.840 \$ 288.817 \$ 715.401 \$ 195.146 \$ CHTER REVENUE \$ 71.986 \$ 39.753 \$ 6.841 \$ 16.621 \$ 4,333 \$ LIGHTING REVENUE \$ - \$ - \$ - \$ - \$ <t< td=""><td>TITLE: SWALL LARGE G.S. / LARGE G.S. / LARGE LARGE MISSOURI RESIDENTIAL GEN SERV SMALL PRIMARY FRIMARY TRANS BASE REVENUE \$ 2,701.053 \$ 1,304,840 \$ 283,817 \$ 715,401 \$ 195,146 \$ 197,146 \$ 197,146 \$ 197,146 \$ 197,147 \$ 10,027 RATE REVENUE VARIANCE \$ 3,162,385 \$ 1,491,316 \$ 328,356 \$ 855,000 \$ 238,425 \$ 204,314 TOTAL OFFRATING REVENUE \$ 1,791,698 \$ 779,277 \$ 180,071 \$ 511,553 \$ 155,008 \$ 145,300 TOTAL OFFRATING RAWANGR. EXPENSES \$ 426,931 \$ 228,733 \$ 46,677 \$ 03,662 \$ 31,502 \$ 1,349 TOTAL OFFRATING AND ANDANGR</td><td>TITLE: SIMAL LARGE 0.5. LARGE LARGE</td></t<></td></td>	TITLE: SUMALY EQUAL ROP (\$2000's) MISSOURI RESIDENTIAL CANCE C.S. / GEN SERV SMALL PRIMARY BASE REVENUE \$ 2,701,053 \$ 1,304,840 \$ 283,817 \$ 715,401 OTHER REVENUE \$ 71,988 \$ 39,753 \$ 6,841 \$ 16,621 LIGHTING REVENUE \$ - \$ - \$ - \$ - \$ - SYSTEM, OFF-SYS SALES & DISP OF ALLON \$ 389,344 \$ 146,722 \$ 37,697 \$ 122,978 RATE REVENUE VARIANCE \$ - \$ - \$ - \$ - \$ - TOTAL OPERATING REVENUE \$ 3,162,385 \$ 1,491,316 \$ 328,356 \$ 855,000 TOTAL OPERATING REVENUE \$ 3,162,385 \$ 1,991,698 \$ 707,227 \$ 180,071 \$ 511,553 TOTAL DEPR. AND AMMOR. EXPENSES \$ 426,931 \$ 228,733 \$ 46,677 \$ 103,579 REAL ESTATE AND REPOPERTY TAKES \$ 208,419 \$ 106,629 \$ 22,350 \$ 53,140 PAYGOLI TAKES \$ 208,419 \$ 106,629 \$ 22,350 \$ 53,140 PAYEDELI TAKES \$ 2,586,527 \$ 1,196,701 \$ 266,602 \$	TITLE: SWALL LARGE (\$0.00's) MISSOURI RESIDENTIAL GEN SERV SMALL PRIMARY SMALPRIMARY <td>TITLE: SUMMARY BOUAL ROR (\$000's1) SMALL PERIMARY LARCE MISSOURI RESIDENTIAL GEN SERV SMALL PERIMARY PERMARY BASE REVENUE \$ 2,701,053 \$ 1,304,840 \$ 28,817 \$ 75,401 \$ 195,146 CHER REVENUE \$ 71,988 39,753 \$ 6,681 \$ 1,621 \$ 4,333 LIGHTING REVENUE \$ 71,988 \$ 39,753 \$ 6,697 \$ 122,978 \$ 33,425 TOTAL OPERATING REVENUE \$ 3,162,385 \$ 1,491,316 \$ 328,356 \$ 855,000 \$ 23,8425 TOTAL OPERATING REVENUE \$ 3,162,385 \$ 1,491,316 \$ 328,356 \$ 855,000 \$ 23,8425 TOTAL OPERATING REVENUE \$ 3,162,385 \$ 1,491,316 \$ 328,356 \$ 855,000 \$ 23,8425 TOTAL OPERATING REVENUE \$ 1,191,698 \$ 779,227 \$ 180,071 \$ 511,553 \$ 155,008 TOTAL OPERATING REVENUE \$ 208,419 \$ 106,629 \$ 2,2,350 \$ 5,140 \$ 13,222 PAYROLL TAXES \$ 206,419 \$ 106,629 \$ 2,2,350 \$ 5,140 \$ 1,32,229 PAYROL TAX</td> <td>TITLE: SUMMARY BOULL ROR (\$000's) MISSOURI SMAL LARCE C.S. / LARCE MISSOURI RESIDENTIAL GEN SERV SMALL PRIMARY PRIMARY BASE REVENUE \$ 2,701.053 \$ 1,304.840 \$ 288.817 \$ 715.401 \$ 195.146 \$ CHTER REVENUE \$ 71.986 \$ 39.753 \$ 6.841 \$ 16.621 \$ 4,333 \$ LIGHTING REVENUE \$ - \$ - \$ - \$ - \$ <t< td=""><td>TITLE: SWALL LARGE G.S. / LARGE G.S. / LARGE LARGE MISSOURI RESIDENTIAL GEN SERV SMALL PRIMARY FRIMARY TRANS BASE REVENUE \$ 2,701.053 \$ 1,304,840 \$ 283,817 \$ 715,401 \$ 195,146 \$ 197,146 \$ 197,146 \$ 197,146 \$ 197,147 \$ 10,027 RATE REVENUE VARIANCE \$ 3,162,385 \$ 1,491,316 \$ 328,356 \$ 855,000 \$ 238,425 \$ 204,314 TOTAL OFFRATING REVENUE \$ 1,791,698 \$ 779,277 \$ 180,071 \$ 511,553 \$ 155,008 \$ 145,300 TOTAL OFFRATING RAWANGR. EXPENSES \$ 426,931 \$ 228,733 \$ 46,677 \$ 03,662 \$ 31,502 \$ 1,349 TOTAL OFFRATING AND ANDANGR</td><td>TITLE: SIMAL LARGE 0.5. LARGE LARGE</td></t<></td>	TITLE: SUMMARY BOUAL ROR (\$000's1) SMALL PERIMARY LARCE MISSOURI RESIDENTIAL GEN SERV SMALL PERIMARY PERMARY BASE REVENUE \$ 2,701,053 \$ 1,304,840 \$ 28,817 \$ 75,401 \$ 195,146 CHER REVENUE \$ 71,988 39,753 \$ 6,681 \$ 1,621 \$ 4,333 LIGHTING REVENUE \$ 71,988 \$ 39,753 \$ 6,697 \$ 122,978 \$ 33,425 TOTAL OPERATING REVENUE \$ 3,162,385 \$ 1,491,316 \$ 328,356 \$ 855,000 \$ 23,8425 TOTAL OPERATING REVENUE \$ 3,162,385 \$ 1,491,316 \$ 328,356 \$ 855,000 \$ 23,8425 TOTAL OPERATING REVENUE \$ 3,162,385 \$ 1,491,316 \$ 328,356 \$ 855,000 \$ 23,8425 TOTAL OPERATING REVENUE \$ 1,191,698 \$ 779,227 \$ 180,071 \$ 511,553 \$ 155,008 TOTAL OPERATING REVENUE \$ 208,419 \$ 106,629 \$ 2,2,350 \$ 5,140 \$ 13,222 PAYROLL TAXES \$ 206,419 \$ 106,629 \$ 2,2,350 \$ 5,140 \$ 1,32,229 PAYROL TAX	TITLE: SUMMARY BOULL ROR (\$000's) MISSOURI SMAL LARCE C.S. / LARCE MISSOURI RESIDENTIAL GEN SERV SMALL PRIMARY PRIMARY BASE REVENUE \$ 2,701.053 \$ 1,304.840 \$ 288.817 \$ 715.401 \$ 195.146 \$ CHTER REVENUE \$ 71.986 \$ 39.753 \$ 6.841 \$ 16.621 \$ 4,333 \$ LIGHTING REVENUE \$ - \$ - \$ - \$ - \$ - \$ <t< td=""><td>TITLE: SWALL LARGE G.S. / LARGE G.S. / LARGE LARGE MISSOURI RESIDENTIAL GEN SERV SMALL PRIMARY FRIMARY TRANS BASE REVENUE \$ 2,701.053 \$ 1,304,840 \$ 283,817 \$ 715,401 \$ 195,146 \$ 197,146 \$ 197,146 \$ 197,146 \$ 197,147 \$ 10,027 RATE REVENUE VARIANCE \$ 3,162,385 \$ 1,491,316 \$ 328,356 \$ 855,000 \$ 238,425 \$ 204,314 TOTAL OFFRATING REVENUE \$ 1,791,698 \$ 779,277 \$ 180,071 \$ 511,553 \$ 155,008 \$ 145,300 TOTAL OFFRATING RAWANGR. EXPENSES \$ 426,931 \$ 228,733 \$ 46,677 \$ 03,662 \$ 31,502 \$ 1,349 TOTAL OFFRATING AND ANDANGR</td><td>TITLE: SIMAL LARGE 0.5. LARGE LARGE</td></t<>	TITLE: SWALL LARGE G.S. / LARGE G.S. / LARGE LARGE MISSOURI RESIDENTIAL GEN SERV SMALL PRIMARY FRIMARY TRANS BASE REVENUE \$ 2,701.053 \$ 1,304,840 \$ 283,817 \$ 715,401 \$ 195,146 \$ 197,146 \$ 197,146 \$ 197,146 \$ 197,147 \$ 10,027 RATE REVENUE VARIANCE \$ 3,162,385 \$ 1,491,316 \$ 328,356 \$ 855,000 \$ 238,425 \$ 204,314 TOTAL OFFRATING REVENUE \$ 1,791,698 \$ 779,277 \$ 180,071 \$ 511,553 \$ 155,008 \$ 145,300 TOTAL OFFRATING RAWANGR. EXPENSES \$ 426,931 \$ 228,733 \$ 46,677 \$ 03,662 \$ 31,502 \$ 1,349 TOTAL OFFRATING AND ANDANGR	TITLE: SIMAL LARGE 0.5. LARGE LARGE

AmerenUE CASE NO. ER-2011-0028 PROPOSED CLASS REVENUE REQUIREMENTS (\$000's)

Customer Class		Proposed Base Revenue				
Residential	\$	1,212,316				
Small General Service	\$	310,379				
Large General Service	\$	571,696				
Small Primary Service	\$	217,090				
Large Primary Service	\$	200,579				
Large Transmission Service	\$	154,426				
Lighting	<u>\$</u>	34,526				
Total	\$	2,701,012				

AmerenUE Residential Space Heat Customers Bill Impact Percentage Analysis of Retaining vs. Eliminating Winter Declining Block Rate (Proposed Revenues with "Neutrality")



Schedule WLC-E8-1

AmerenUE Residential Space Heat Customers Winter Bill Dollar Impact Analysis of Retaining vs. Eliminating Winter Declining Block Rate (Proposed Revenues with "Neutrality")



Schedule WLC-E8-2