Exhibit No.: Issues: Witness: Type of Exhibit: Sponsoring Party:

Case No.: Date Testimony Prepared:

HO Rate Design Maurice Brubaker Rebuttal Testimony Missouri Industrial Energy Consumers and Midwest Energy Consumers Group ER-2012-0174 September 5, 2012

Filed December 04, 2012 Data Center Missouri Public Service Commission

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

In the Matter of Kansas City Power & Light Company's Request for Authority to Implement a General Rate Increase for Electric Service

Case No. ER-2012-0174 Tracking No. YE-2012-0404

Rebuttal Testimony and Schedules of

Maurice Brubaker

On behalf of

Missouri Industrial Energy Consumers and Midwest Energy Consumer's Group

September 5, 2012



BRUBAKER & ASSOCIATES, INC.

MIECIMECO-Exhibit No-107 Date 10 - 29 - 12 Reporter 4F File No_F=R-2012-0174

Project 9593

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

In the Matter of Kansas City Power & Light Company's Request for Authority to Implement a General Rate Increase for Electric Service

Case No. ER-2012-0174 Tracking No. YE-2012-0404

STATE OF MISSOURI

SS

COUNTY OF ST. LOUIS

Affidavit of Maurice Brubaker

Maurice Brubaker, being first duly sworn, on his oath states:

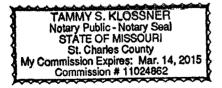
1. My name is Maurice Brubaker. I am a consultant with Brubaker & Associates, Inc., having its principal place of business at 16690 Swingley Ridge Road, Suite 140, Chesterfield, Missouri 63017. We have been retained by Missouri Industrial Energy Consumers and Midwest Energy Consumer's Group in this proceeding on their behalf.

2. Attached hereto and made a part hereof for all purposes is my rebuttal testimony and schedules which were prepared in written form for introduction into evidence in the Missouri Public Service Commission's Case No. ER-2012-0174.

3. I hereby swear and affirm that the testimony and schedules are true and correct and that they show the matters and things that they purport to show. γ

Maurice Brubaker

Subscribed and sworn to before me this 4th day of September, 2012.



Tammy & Kloopner Notary Public

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

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In the Matter of Kansas City Power & Light Company's Request for Authority to Implement a General Rate Increase for Electric Service

Case No. ER-2012-0174 Tracking No. YE-2012-0404

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BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

In the Matter of Kansas City Power & Light Company's Request for Authority to Implement a General Rate Increase for Electric Service

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Case No. ER-2012-0174 Tracking No. YE-2012-0404

Rebuttal Testimony of Maurice Brubaker

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Q PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

- A Maurice Brubaker. My business address is 16690 Swingley Ridge Road, Suite 140,
 Chesterfield, MO 63017.
- 4 Q ARE YOU THE SAME MAURICE BRUBAKER WHO HAS PREVIOUSLY FILED 5 TESTIMONY IN THIS PROCEEDING?
- A Yes. I have previously filed direct testimony in this proceeding on August 16, 2012
 regarding rate design issues.
- 8 Q ARE YOUR EDUCATIONAL BACKGROUND AND EXPERIENCE OUTLINED IN 9 THAT TESTIMONY?
- A Yes. This information is included in Appendix A to my direct testimony on rate design
 issues.

12 Q ON WHOSE BEHALF ARE YOU APPEARING IN THIS PROCEEDING?

A I am appearing on behalf of Missouri Industrial Energy Consumers ("MIEC") and
 Midwest Energy Consumer's Group ("MECG"). These companies purchase

substantial amounts of electricity from Kansas City Power & Light Company ("KCPL") 1 2 and the outcome of this proceeding will have an impact on their cost of electricity. 3 Q WHAT IS THE PURPOSE OF YOUR TESTIMONY? 4 Α In my rebuttal testimony, I will respond to the cost of service allocation proposals 5 made by KCPL and by the Staff of the Missouri Public Service Commission ("Staff"). 6 and the revenue allocation proposed by the Office of Public Counsel ("OPC"). 7 Q PLEASE SUMMARIZE YOUR PRIMARY FINDINGS AND CONCLUSIONS. 8 Α My rebuttal testimony may be summarized as follows: 9 1. The Base-Intermediate-Peaking ("BIP") allocation study sponsored by KCPL is 10 not supported as to theory and has not been shown to be applicable to the KCPL system. It significantly over-allocates costs to large high load factor 11 12 customers. 13 2. KCPL's BIP cost of service study is internally inconsistent in that it allocates above-average generation capacity costs to high load factor customers, but 14 does not give them the benefit of the lower variable costs (mostly fuel) that 15 16 correspond to the above-average capital cost allocation. 17 3. The Staff also sponsors a version of a BIP study. The methodology is 18 substantially different from KCPL's version and produces a generation allocation 19 factor that is generally consistent with traditional approaches such as the 20 Average & Excess ("A&E") method. 21 4. The A&E approach that I offered in my direct testimony is the most appropriate 22 allocation method for the KCPL system, and should be adopted by the 23 Commission and used as a guide to distribute any revenue increase found 24 appropriate. The 4CP method produces comparable results. 25 5. KCPL allocates margins from off-system sales on demands rather than on 26 energy. No justification is provided for this treatment. 27 6. Staff has applied inappropriate allocations to administrative & general ("A&G") 28 expenses. Staff has followed the unprecedented approach of allocating over 29 90% of A&G expenses on the basis of energy. This is totally at odds with cost 30 causation and a marked departure from normal regulatory practice. 31 7. OPC's revenue shift proposal is based on KCPL's flawed BIP study and should 32 be rejected. Maurice Brubaker Page 2

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CLASS COST OF SERVICE ISSUES

Q HAVE YOU REVIEWED THE TESTIMONY OF KCPL WITNESS PAUL NORMAND
 AND COMMISSION STAFF WITNESS MICHAEL SCHEPERLE ON THE SUBJECT
 OF CLASS COST OF SERVICE?

5 A Yes.

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6 Q DO YOU HAVE REBUTTAL TO THE POSITIONS OF THESE WITNESSES?

7 A Yes, I do. I disagree with the methods which these witnesses have used for the
8 allocation of generation system fixed costs and with respect to the allocation of
9 certain other components of the cost of service. The allocation of the generation
10 fixed costs is the largest and most important of these issues, and I will address it first.

11 KCPL's Study

12 Q WHAT METHOD HAS KCPL USED FOR THE ALLOCATION OF GENERATION 13 FIXED, OR DEMAND-RELATED, COSTS?

A KCPL uses what it describes as the BIP method. With this method, the fixed costs associated with base load generation essentially are allocated on a measure of class energy consumption. The intermediate plants are allocated on a function of class 12 monthly coincident peaks minus base demands. Facilities identified as peaking facilities are allocated on class four summer coincident peak demands reduced by the base and intermediate demands.

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Q IS THE BIP STUDY METHODOLOGY ACCEPTED IN THE INDUSTRY?

A No, it is not. The BIP method first surfaced circa 1980 as an approach that some
 thought might be useful when trying to develop time-differentiated rates. However,

the BIP method never caught on and is only infrequently seen in regulatory proceedings. The BIP method is certainly not among the frequently used mainstream cost allocation methodologies, and lacks precedent for its use.

4 Q WHAT SEEMS TO BE THE FUNDAMENTAL TENANT OF THE BIP METHOD?

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Α 5 Mr. Normand does not go into great detail, but on page 6 of his direct testimony he 6 says that he attempted to determine the intended use of specific plant investments 7 and then examined the use of these assets in the test period. By choosing to allocate 8 100% of the investment (fixed costs) associated with base load plants essentially on 9 the basis of class energy, Mr. Normand is effectively assuming that base load plants 10 do not provide any capacity value. This is an assumption that we all know is false. 11 All plants provide capacity value as well as supplying energy. It appears from Mr. 12 Normand's studies that nearly 80% of total generation fixed costs are allocated on the 13 basis of energy consumption.

14QPLEASE EXPLAIN WHAT YOU MEAN WHEN YOU SAY THAT BASE LOAD15PLANTS ARE ALLOCATED "ESSENTIALLY" ON THE BASIS OF CLASS16ENERGY.

17 A The specific method used is to identify the month that each class (by voltage level) 18 used the minimum amount of energy. The energy in this month is divided by the 19 hours in the month to determine the average demand for that month. These average 20 demands for the minimum month for each class are added together to determine a 21 total, and the allocation factor for base load plant is the ratio of each class's minimum 22 month average demand to the sum of the minimum month average demands of all 23 classes. In the case of the residential class, this produces a factor for the allocation of fixed costs associated with base load plant equal to only 25.6% of the total, which is even smaller than the 30.3% energy allocation factor for the residential class. The demand allocation factor for a low load factor class like the residential class should be larger than its energy allocation factor. For example, its responsibility for the four summer peak demands is 41%.

7 Q DOES THE CONCEPT OF ALLOCATING BASE LOAD PLANT ON A MEASURE 8 OF CLASS ENERGY MAKE SENSE IN LIGHT OF SYSTEM PLANNING 9 CONSIDERATIONS?

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10 A No. The BIP approach attempts to assign only one purpose for each class of plant. 11 In reality, when systems are planned, the utility attempts to install that combination of 12 generation facilities which, giving consideration to fixed costs and variable costs, is 13 expected to serve the needs of all customers, collectively, on a least-cost basis. All 14 plants contribute to meeting peak demands, and the failure to allocate the fixed costs 15 associated with base load plants on a measure of peak demand produces a biased 16 result.

17QDID THIS COMMISSION RECENTLY RULE ON THE USE OF DEMAND18ALLOCATION METHODS THAT ARE HEAVILY DEPENDENT UPON THE19ENERGY USAGE BY THE VARIOUS CUSTOMER CLASSES?

20 A Yes. In a recent Ameren Missouri electric rate case, Case No. ER-2010-0036, cost of 21 service studies were offered wherein the allocation basis for fixed generation cost 22 was a weighted average of class energy consumption and class contribution to peak demands. In ruling on the case, the Commission rejected these heavily energyweighted methods.

Q IN THE AMEREN MISSOURI CASE, WHAT PERCENTAGE OF GENERATION FIXED COSTS WAS ALLOCATED ON ENERGY UNDER THESE PROPOSALS? 5 A About 55%.

- 6 Q IS THE ALLOCATION OF GENERATION CAPACITY COSTS MORE HEAVILY 7 DEPENDENT UPON CLASS ENERGY CONSUMPTION UNDER THE BIP METHOD 8 IN THIS CASE THAN WAS TRUE IN THE AMEREN MISSOURI CASE WHERE 9 THE ENERGY BASED ALLOCATION WAS REJECTED?
- 10 A Yes, much more. It is almost 80% with BIP as compared to 55% in the Ameren case.

1 Q HOW HAS KCPL ALLOCATED THE MARGIN ON OFF-SYSTEM SALES?

- A KCPL has allocated the margin on off-system sales using the intermediate BIP
 demand allocation factor.
- 14 Q IS THIS APPROPRIATE?

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- A No. This Commission has held in a prior KCPL case (ER-2006-0314) and a prior
 Ameren Missouri case (ER-2010-0036) that it is appropriate to allocate the margin
 earned from off-system sales on an energy basis.
- The only costs assigned to non-firm off-system sales is the fuel and 18 19 purchased power costs - the variable costs - hence the 20 appropriateness of using the energy allocator. This is consistent with the way KCPL itself allocates the costs relating to the energy portion of 21 22 firm capacity contracts - using the energy allocator. The reason is 23 simple - the energy allocator is used to allocate variable costs of fuel 24 and purchased power costs relating to retail sales. Using the same 25 rationale, the energy allocator is equally appropriate to use as the

allocation factor for both energy of firm (as KCPL does) and non-firm off-system sales. (Report and Order, Case No. ER-2006-0314, December 31, 2006)

This is also the most commonly used approach in the industry, and should be used in this case.

6 Staff's Study

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7 Q HOW HAS STAFF ALLOCATED THE FIXED COSTS ASSOCIATED WITH 8 GENERATION INVESTMENT?

Mr. Scheperle states that he has used something which he also calls the BIP method.
In fact, however, Mr. Scheperle has applied what I think is best described as an
alternative version of the BIP method. The BIP method described in the National
Association of Regulatory Utility Commissioners ("NARUC") *Electric Utility Cost Allocation Manual* ("Manual"), and as presented in this case by KCPL, develops
separate allocation factors for different categories of plant. The BIP method is not an
accepted method in the industry and rarely has been used or even proposed.

16QHOW DOES MR. SCHEPERLE'S MODIFIED BIP DIFFER FROM THE BIP17METHOD DESCRIBED IN THE NARUC MANUAL AND AS PROPOSED FOR18IMPLEMENTATION IN THE KCPL CASE?

19 A In Mr. Scheperle's alternate BIP application, he devises a composite allocation factor 20 using a combination of class average demands, class 12 monthly non-coincident 21 peak demands and class three summer month non-coincident peak demands. At 22 each stage of the development of the allocation factor components, he subtracts the 23 demands associated with the previously determined component(s) from the total so as to avoid double counting. The resulting factor is applied to all generation fixed costs.

Because of the way that the BIP allocation was constructed in this case, the end result is class allocation factors for generation fixed costs comparable to traditional allocation methods such as the A&E method. Accordingly, while I disagree with the fundamental premise of BIP methods, Mr. Scheperle has implemented it in this case in a way that produces results consistent with generally accepted allocation methods.

9 Q HOW HAS STAFF CLASSIFIED GENERATION SYSTEM NON-FUEL O&M 10 EXPENSES?

11 A With minor exceptions, Mr. Scheperle has essentially used the "expenses follow
12 plant" approach that I have used.

13 Q WHAT OTHER ISSUES DO YOU HAVE WITH STAFF'S ALLOCATIONS?

14 A Staff's allocation of A&G expenses bears absolutely no relationship to cost causation.

15 Q PLEASE EXPLAIN.

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16 A Staff has applied an unconventional and unprecedented approach to the allocation of 17 A&G expenses. A&G expenses consist of costs for supervision of employees and 18 property, employee pensions and benefits, general plant expenses, and selected 19 other items. Hardly any of these costs vary with energy, but instead are a function of 20 operating, maintaining and supervising the generation, transmission and distribution 21 system, and the related pensions, benefits and other employee-related costs.

> Maurice Brubaker Page 8

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For a comparison between Staff's allocation and my allocation, please refer to Schedule MEB-COS-R-1. The top section shows how Staff has allocated each component of A&G expenses and the bottom section shows how I have allocated them. My allocation methodology follows the methodology used by KCPL, but of course the specific values allocated are slightly different because of a difference in the allocation of generation plant.

Q I NOTICE THAT YOU HAVE ALLOCATED MOST OF THE A&G EXPENSES ON AN ALLOCATION FACTOR CALLED "SALWAGES". PLEASE EXPLAIN THIS ALLOCATOR.

10 A This allocator is the salaries and wages allocator. The first step in developing this 11 allocator is to determine the labor component of the generation, transmission, 12 distribution, etc. functions allocated to each customer class in the cost of service 13 study. The second step is to add together those labor components allocated to each 14 class and determine what percentage each class's allocated labor is of the total. This 15 produces the "SALWAGES" allocator shown at the bottom of this schedule.

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Q HOW DOES THIS CONTRAST TO STAFF'S ALLOCATION?

A As noted above, Staff's allocation is portrayed in the top section of this schedule.
(Note that the total dollar amounts of A&G expense are different because my
allocation uses the dollar amounts claimed by KCPL; however, the principal is the
same.)

1QSTAFFHASREFERREDTOTHENARUCMANUALFORCERTAIN2ALLOCATIONS.DOESTHENARUCMANUALCONTAIN A DISCUSSION OF THE3ALLOCATION OF GENERAL PLANT AND A&G EXPENSES?

A Yes. Pages 105-107 of the January 1992 NARUC Manual discusses A&G expenses.
I have attached these pages as Schedule MEB-COS-R-2. Note that the majority of
A&G expenses are allocated on labor. Wherever the Manual refers to a more general
category of expenses, note that the phrase "less fuel and purchased power" appears.
This means that fuel and purchased power should be excluded from the allocations.

9 From a cost causation point of view, none of the salary expense, pensions
10 and benefits, plant-related or other costs vary with energy consumption. This is why it
11 is traditional to exclude fuel and purchased power from any allocation of A&G
12 expenses and focus on the cost-causative nature for these expenses. That is what I
13 have done; it clearly is not what Staff has done.

14QIN THE ALLOCATION BETWEEN MISSOURI AND KANSAS, DID THE STAFF15ALLOCATE THESE A&G EXPENSES USING AN ENERGY ALLOCATION16FACTOR?

17 A No; and had they done so, more costs would have been allocated to Missouri.

18QSHOULD THE COMMISSION RELY UPON THE RESULTS OF STAFF'S COST OF19SERVICE STUDY?

A In terms of the particular details, it should not because Staff's A&G allocation
 substantially over-allocates costs to MGS, LGS and LPS customers. However,
 despite this over-allocation of A&G expenses, Staff's overall cost of service result

Maurice Brubaker Page 10

BRUBAKER & ASSOCIATES, INC.

continues to be that residential customers are paying rates below cost while all other customer classes are paying rates above cost.

3 Symmetry of Fuel and Capital Cost Allocation

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Q ARE VARIABLE COSTS USUALLY ALLOCATED ON THE BASIS OF CLASS ENERGY REQUIREMENTS, ADJUSTED FOR LOSSES?

A Yes, in the context of traditional studies like coincident peak and A&E, average variable costs are allocated to customers, and average capital costs are allocated to customers. However, in the context of the non-traditional study that KCPL has offered, which heavily weights energy in the allocation of fixed or demand-related generation costs, thereby de-averaging the fixed costs, it is not appropriate to average the variable costs.

12 Q USING THE KCPL STUDY AS A POINT OF REFERENCE, PLEASE EXPLAIN 13 WHY IT IS NOT APPROPRIATE TO ALLOCATE AVERAGE VARIABLE COSTS 14 TO ALL CLASSES IN THIS FASHION WHEN USING STUDIES SUCH AS BIP?

15 Α The KCPL study allocates significantly more generation fixed costs to high load factor 16 customers than do the traditional studies. In other words, the higher the load factor of 17 a class, the larger the share of the generation fixed costs that gets allocated to the 18 class. If the costs allocated to classes under this method are divided by the 19 contribution of these classes to the system peak demand, or by the A&E demand, the 20 result is a higher capital cost per kW for the higher load factor classes, and a lower 21 capital cost per kW for the low load factor classes. Effectively, this means that the 22 high load factor classes have been allocated an above-average share of capital cost

for generation, and the low load factor customer classes have been allocated a below average share of capital costs.

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Given the de-averaged allocations of capital cost, it would not be appropriate to charge average variable costs to all classes. Rather, the variable cost allocation should assign to the higher load factor customer classes below average variable cost to correspond to the above-average capital cost (similar to base load units) allocated to them, and the lower load factor classes should get an allocation of these costs that is above the average, corresponding to the lower than average capital cost (i.e., peaking units) allocated to them.

10QWHY WOULD IT BE APPROPRIATE TO RECOGNIZE A LOWER VARIABLE11COST ALLOCATION TO THOSE CLASSES THAT ARE ALLOCATED A HIGHER12CAPITAL COST?

13 A It is not only appropriate, but it is essential if the heavily energy-weighted KCPL 14 allocation of generation costs is employed. Failure to make this kind of distinction 15 would give high load factor customers the worst of both worlds – above-average 16 capital costs and average variable energy costs; and the low load factor customers 17 the best of both worlds – below average capital costs and average variable costs.

18QHAVEYOUPERFORMEDANYCALCULATIONSANDDEVELOPEDA19SCHEDULE TO ILLUSTRATE THIS?

A Yes, I have. Please refer to Schedule MEB-COS-R-3 attached to this testimony.
 This schedule compares the generation investment per kW and the variable costs per
 kWh across classes for the traditional A&E allocation method, the traditional 4CP
 method and the KCPL allocation.

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PLEASE EXPLAIN WHAT THIS SCHEDULE SHOWS.

A The first three sections of the schedule show that under traditional allocation methods
(A&E-4NCP, A&E-2NCP and 4CP), the capacity costs per kW allocated to each class
are the same and the variable costs per kWh allocated to each class are the same.

The fourth section shows the allocation results under KCPL's BIP allocation method. Note that the impact of BIP is to allocate significantly more capital costs, in fact, 37% more to the Large Power class than under the traditional approaches, which allocate average capacity costs to all classes. Note also that variable costs per kWh are the same for all classes.

10Schedule MEB-COS-R-4 shows the skewing graphically on page 1. In11contrast, note from page 2 that under the traditional A&E-4NCP method all classes12are allocated average fixed costs and average variable costs.

13QYOU INDICATED THAT THE VARIABLE COSTS PER KWH ARE THE SAME14UNDER KCPL'S BIP ALLOCATION. HOW DIFFERENT ARE THE ENERGY15COSTS OF THE DIFFERENT GENERATING FACILITIES?

16 Α They are quite diverse. For example, the fuel cost for the Wolf Creek nuclear unit is 17 about 0.7¢ per kWh, the base load coal plants have fuel costs in the range of 1.2¢ to 18 2.2¢ per kWh, the more efficient gas units have fuel costs of about 5¢ per kWh, and 19 other gas peakers have costs that are 7¢ and higher. (Note: These fuel costs are 20 taken from KCPL's 2011 FERC Form 1 report.) Obviously, if some classes are 21 allocated higher capacity costs than others, they should be entitled to at least an 22 above-average share of the energy output from the higher capital cost, more fuel 23 efficient, base load type generating units, which would make their variable cost per 24 kWh lower than average. The allocation method advanced by KCPL does not

recognize this relationship, and as a result over-allocates costs to high load factor customers.

3 Q WHAT SHOULD BE CONCLUDED FROM SCHEDULES MEB-COS-R-3 AND 4 MEB-COS-R-4?

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5 A These schedules clearly demonstrates that the BIP study that KCPL has sponsored is 6 highly non-symmetrical. It burdens high load factor classes with above-average 7 capacity costs, but does not allow them to benefit from the lower variable cost that 8 goes with the higher capacity costs. No theory supports this result and this flawed 9 study should be given no weight.

10 Q HAS THIS ISSUE OF ALLOCATING A BELOW AVERAGE SHARE OF VARIABLE 11 COSTS TO HIGHER LOAD FACTOR USERS PREVIOUSLY BEEN ADDRESSED 12 IN A KCPL RATE PROCEEDING?

13 Yes. Staff witness Lena Mantle addressed this topic in her September 8, 2006 Α 14 rebuttal testimony in a KCPL rate case, Case No. ER-2006-0314. Her testimony 15 discussed planning principles and the relationship between load factors and 16 generation mix. Her testimony clearly demonstrates that as capital cost increases 17 (with higher load factor), energy cost decreases. While her testimony was in the 18 context of jurisdictional allocations, the principle is the same at the class level. In fact, 19 the recognition of the principles at the class level is even more critical since the 20 differences among class load factors are much greater than the differences between 21 jurisdictional load factors.

1 OPC's Recommendation

2 Q DID OPC OFFER A CLASS COST OF SERVICE STUDY?

A No. OPC witness Meisenheimer relied on KCPL's BIP study to develop a class
revenue shift recommendation. Since her recommendation is based on the flawed
BIP study, it should not be accepted.

6 Importance of Precedent

- 7QIN EARLIER TESTIMONY, YOU POINTED OUT THAT THE METHODOLOGIES8BEING SUPPORTED BY KCPL AND OPC IN THIS PROCEEDING ARE NOT USED9IN OTHER JURISDICTIONS AND ARE NOT SUPPORTED BY PRECEDENT OR10ACCEPTED IN THE INDUSTRY. WHAT IS THE SIGNIFICANCE OF THE FACT11THAT A METHODOLOGY IS NOT USED IN OTHER JURISDICTIONS?
- 12 Cost of service studies for electric systems has been performed for well over 50 А 13 years. This means that there has been a significant amount of analysis that has gone 14 into the question of determining how best to ascertain cost-causation on electric 15 systems, across a broad spectrum of utility circumstances. Methods that have not 16 had the benefit of that analysis and withstood the test of time must be viewed with 17 skepticism. Proponents of such methods bear a special burden of proving that they do a more accurate job of identifying cost-causation than do recognized methods, 18 19 and are not merely ad hoc creations designed simply to support a particular result 20 desired by the analyst.
- .
- 21 Q DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONY?
- 22 A Yes, it does.

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KANSAS CITY POWER & LIGHT COMPANY

Allocation of Administration and General Expenses

		•••		Missouri			Small General		Medium General		Large General		Large Power		Total
Line	Description	Allocator		Retail	Residential		Service		Service		Service		Service		ighting
		(1)		(2)	(3)		(4)		(5)		(6)		(7)		(8)
	Staff's COS														
1	#920 A & G Salaries	Energy	\$	17,599,614		\$	853,191	\$		\$		\$	4,390,867	\$	176,023
2	#921 Office Supplies & Expense	Energy		(337,024)	(102,167)		(16,338)		(43,022)		(88,043)		(84,083)		(3,371)
3	#922 Admin. Expense Transferred	Energy		(2,915,198)	(883,724)		(141,322)		(372,133)		(761,559)		(727,303)		(29,156)
4	#923 Outside Services Employed	Energy		5,640,193	1,709,790		273,424		719,985		1,473,431		1,407,152		56,411
5	#924 Property Insurance	Gross Plant		1,345,767	613,028		70,794		165,518		278,837		199,597		17,993
6	#925 Injuries & Damages	Energy		3,474,681	1,053,328		168,445		443,552		907,717		866,886		34,752
7	#926 Employee Pensions & Benefits	Energy		41,222,574	12,496,370		1,998,380		5,262,169		10,768,888		10,284,479		412,289
8	#927 Franchise requirements	Revenue Related		-	-		-		-		-		-		-
9	#928 Regulatory Commission Expense	Revenue Related		5,057,892	1,878,219		346,892		682,341		1,180,802		905,798		63,840
10	#929 Duplicate Charges	Revenue Related		(32,684)	(12,137)		(2,242)		(4,409)		(7,630)		(5,853)		(413)
11	#930 Miscellaneous	Energy		1,853,952	562.014		89.876		236,662		484,322		462,536		18,542
12	#931 & #933 Rents & Transportation	Energy		4,714,093	1,429,048		228,529		601,766		1,231,498		1,176,103		47,148
13	#935 Maintenance of General Plant	Energy		2,581,004	782,415		125,121		329,472		674,255		643,926		25.814
14	#933 Transportation Expense	Energy		(1,509,703)	(457,657)		(73,187)		(192,718)		(394,391)		(376,651)		(15,099)
15	TOTAL A & G EXPENSES	2.10.9)	S		\$ 24,403,742	s		s	10,075,821	s		\$		s	804,774
16			•	100.000%	31.010%	٠	4.983%	•	12.804%	٠	25.854%	•	24.326%	•	1.023%
					01.01070		4.000 /4		12.00470		20.00470		24.02070		1.02070
17	Total Allocated on Sales @ Generation (Energy)		\$	72,324,186											
18				92%											
19	Salas @ Constition Allocator (Energy)			100.000%	30.314%		4.848%		12.765%		26.124%		24.949%		1.000%
19	Sales @ Generation Allocator (Energy)			100.000%	30.314%		4.048%		12.703%		20.124%		24.949%		1.000%
	A&E-4NCP COS														
20	ADMINISTRATIVE & GENERAL EXPENSES											-			
21	920-SALARIES	SALWAGES	\$	20,211,972		\$	1,204,041	\$	· ·	\$		\$	2,969,799	\$	220,009
22	921-OFFICE EXPENSE	ENERGY1		(268,523)	(81,401)		(13,017)		(34,278)		(70,148)		(66,993)		(2,686)
23	922-ADMIN EXP TRANS - CR	ENERGY1		(2,909,321)	(881,943)		(141,037)		(371,382)		(760,024)		(725,837)		(29,098)
24	923-OUTSIDE SERVICES														
25	OUTSIDE SERVICE	SALWAGES		4,958,801	2,332,770		295,399		580,609		967,436		728,610		53,977
26	ENERGY RELATED	ENERGY1		3,091,671	937,221		149,877		394,660		807,661		771,330		30,921
27	TOTAL ACCOUNT 923			8,050,472	3,269,991		445,277		975,269		1,775,097		1,499,940		84,899
28	924-PROPERTY INSURANCE	TOTPLANT		1,895,506	871,614		100,538		232,240		390,581		282,324		18,209
29	925-INJURIES & DAMAGES	SALWAGES		3,544,831	1,667,595		211,168		415,052		691,578		520,851		38,586
30	926-EMPLOYEE BENEFITS														
31	PENSIONS	SALWAGES		24,458,261	11,505,904		1,456,995		2,863,735		4,771,678		3,593,718		266,231
32	OPEB	SALWAGES		3,991,719	1,877,825		237,789		467,377		778,763		586,514		43,450
33	OTHR MISCELLANEOUS EMPLOYEE BENEFITS	SALWAGES		14,154,458	6,658,684		843,191		1,657,298		2,761,460		2,079,753		154,073
34	TOTAL ACCOUNT 926			42,604,438	20,042,413		2,537,975		4,988,410		8,311,901		6,259,985		463,754
35	928-REGULATORY EXPENSE														
36	REGULATORY EXPENSE	CLAIMEDREV		4,276,559	1,899,064		230,752		518,099		896,222		691,548		40,873
37	REGULATORY EXPENSE-FERC	ENERGY1		1,075,063	325,899		52,117		137,235		280.847		268,214		10,752
38	LOAD RESEARCH PROGRAM	DEM12CP		20,026	7,292		1.044		2.521		5.003		3,890		276
39	TOTAL ACCOUNT 928			5,371,647	2,232,255		283.913		657,854		1,182,072		963.651		51.902
40	929-LESS DUPLICATE CHARGES (CR)	TOTPLANT		(33.093)	(15,217)		(1,755)		(4,055)		(6,819)		(4,929)		(318)
41	930.1-GENERAL ADVERTISING	CUST17		96,765	85,285		9,174		1,908		370		27		(010)
42	930.2-MISCELLANEOUS EXPENSE	SALWAGES		3,339,361	1,570,936		198,928		390,995		651,492		490,661		36,349
43	931-RENTS	SALWAGES		3,382,628	1,591,290		201,505		396,061		659,933		497,019		36,820
43 44	931-RENTS 933-TRANSPORTATION EXPENSE	GENPLANT		157,468	71,853		8,289		19,459		32,726		23,612		1,529
44	935-MAINTENANCE OF GENERAL PLANT	GENPLANT		2,613,474	1,192,531		0,269 137,568		322,963		543,156		391,878		25,379
40	TOTAL ADMINISTRATIVE & GENERAL EXPENSES	GENELANT	s	88,057,626	\$ 41,125,524	5	5,182,565	-	10,357,048	-	17.345.163	-	13,101,989	5	945.336
	TOTAL ADMINISTRATIVE & GENERAL EXPENSES		\$			Þ		Þ		э		Ф		æ	
47				100.000%	46.703%		5.885%		11.762%		19.698%		14.879%		1.074%
48	Total Allocated on SALWAGES		\$	78,042,030											
49			·	89%											
50	SALWAGES Allocator			100.000%	47.043%		5.957%		11.709%		19.509%		14.693%		1.089%

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CHAPTER 8

CLASSIFICATION AND ALLOCATION OF COMMON AND GENERAL PLANT INVESTMENTS AND ADMINISTRATIVE AND GENERAL EXPENSES

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L his chapter describes how general plant investments and administrative and general expenses are treated in a cost of service study. These accounts are listed in the general plant Accounts 389 through 399, and in the administrative and general Accounts 920 through 935.

I. GENERAL PLANT

General plant expenses include Accounts 389 through 399 and are that portion of the plant that are not included in production, transmission, or distribution accounts, but which are, nonetheless, necessary to provide electric service.

One approach to the functionalization, classification, and allocation of general plant is to assign the total dollar investment on the same basis as the sum of the allocated investments in production, transmission and distribution plant. This type of allocation rests on the theory that general plant supports the other plant functions.

Another method is more detailed. Each item of general plant or groups of general and common plant items is functionalized, classified, and allocated. For example, the investment in a general office building can be functionalized by estimating the space used in the building by the primary functions (production, transmission, distribution, customer accounting and customer information). This approach is more time-consuming and presents additional allocation questions such as how to allocate the common facilities such as the general corporate computer space, the Shareholder Relation Office space, etc.

Another suggested basis is the use of operating labor ratios. In performing the cost of service study, operation and maintenance expenses for production, transmission, distribution, customer accounting and customer information have already been functionalized, classified, and allocated. Consequently, the amount of labor, wages, and salaries assigned to each function is known, and a set of labor expense ratios is thus available for use in allocating accounts such as transportation equipment, communication equipment, investments or general office space.

II. ADMINISTRATIVE AND GENERAL EXPENSES

Administrative and general expenses include Accounts 920 through 935 and are allocated with an approach similar to that utilized for general plant. One methodology, the two-factor approach; allocates the administrative and general expense accounts on the basis of the sum of the other operating and maintenance expenses (excluding fuel and purchased power).

A more detailed methodology classifies the administrative and general expense accounts into three major components: those which are labor related; those which are plant related; and those which require special analysis for assignment or the application of the beneficiality criteria for assignment.

The following tabulation presents an example of the cost functionalization and allocation of administrative and general expenses using the three-factor approach and the two-factor approach.

	Account Operation	Three-Factor Allocation Basis	Two-Factor Allocation Basis
920	A & G Salaries	Labor - Salary and Wages	Labor - Salary and Wages
921	Office Supplies	Labor - Salary and Wage	Labor - Salary and Wages
922	Administration Expenses Transferred-Credit	Other - Subtotal of Operating Expenses Less Fuel and Purchased Power	Labor - Salary and Wages
923 ·	Outside Services Employed	Other - Subiotal of Operating. Expenses Less Fuel and Purchased Power	Labor - Salary and Wages
924	Property Insurance	Plant - Total Plant ¹	Plant - Total Plant
925	Injuries and Damages	Labor - Salary and Wages ²	Labor - Salary and Wages
926	Pensions and Benefits	Labor - Salary and Wages	Labor - Salary and Wages
927	Franchise Requirements	Revenues or specific assignment	Revenues or specific assignment

¹A utility that self-insures certain parts of its utility plant may require the adjustment of this allocator to only include that portion for which the expense is incurred.

²A detailed analysis of this account may be necessary to learn the nature and amount of the expenses being booked to it. Certain charges may be more closely related to certain plant accounts than to labor wages.

Account Operation		Three Factor Allocation Basis	Labor-Ratio Allocation Basis				
928	Regulatory Commission Expenses	Other - Subtotal of Operating Expenses Less Foel and Purchased Power	Labor - Salary and Wages				
928	Duplicate Charge-Cr.	Other - Subtotal of Operating Expenses Less Fuel and Purchased Power	Labor - Salary and Wages				
930.1	General Advertising Expenses	Other - Subtotal of Operating Expenses Less Fuel and Purchased Power	Labor - Salary and Wages				
930.2	Miscellaneous General Expenses	Other - Subtotal of Operating Expenses Less Fuel and Purchased Power	Labor - Salary and Wages				
931	Rents	Plant - Total Plant ³	Plant - Total Plant				
	Maintenance	Three Factor Allocation Basis	Labor-Ratio Allocation Basis				
935	General Plant	Plant - Gross Plant	Labor - Salary and Wages				

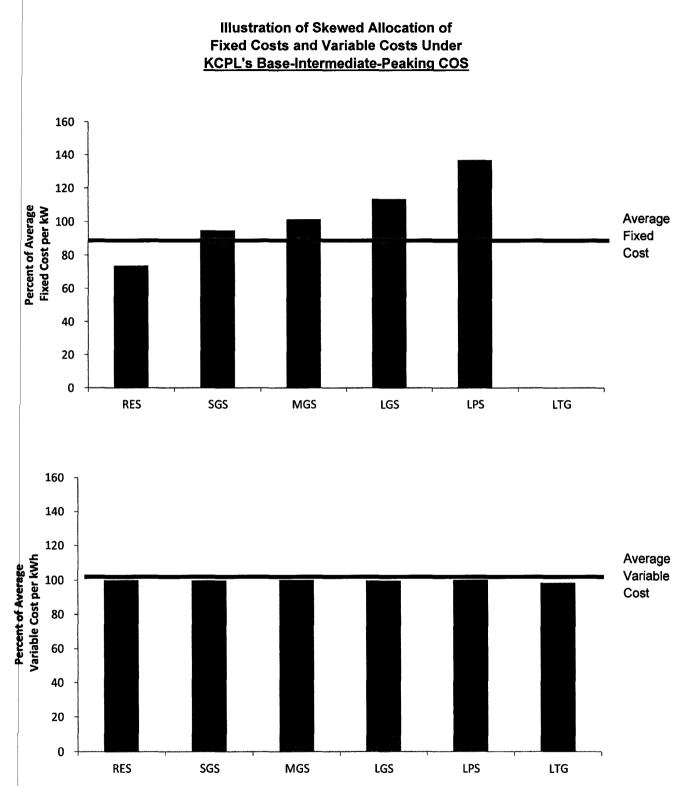
³A detailed analysis of rental payments may be necessary to determine the correct allocation bias. If the expenses booked are predominantly for the rental of office space, the use of labor, wage and salary allocators would be more appropriate.

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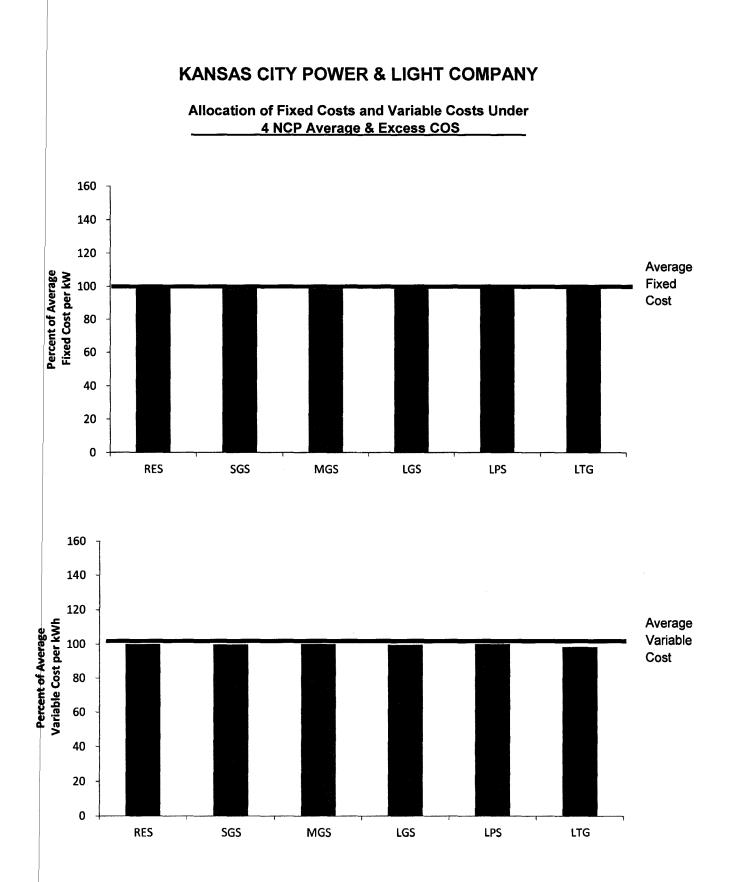
KANSAS CITY POWER & LIGHT COMPANY

Allocation of Fixed Costs and Variable Costs

Line	Description	Missouri Retail	Residential	Small General Service	Medium General Service	Large General Service	Large Power Service	Total Lighting
		(1)	(2)	(3)	(4)	(5)	(6)	(7)
			Traditi	onal Methods				
	<u>4 NCP A&E</u>							
1	Fixed Cost per kW	\$807	\$807	\$807	\$807	\$807	\$807	\$807
2	Index	100	100	100	100	100	100	100
3	Variable Cost per kWh	1.6¢	1.6¢	1.6¢	1.6¢	1.6¢	1.6¢	1.6¢
4	Index	100	100	100	100	100	100	99
	2 NCP A&E							
5	Fixed Cost per kW	\$807	\$807	\$807	\$807	\$807	\$807	\$807
6	Index	100	100	100	100	100	100	100
7	Variable Cost per kWh	1.6¢	1.6¢	1.6¢	1.6¢	1.6¢	1.6¢	1.6¢
8	Index	100	100	100	100	100	100	99
	<u>4 CP</u>							
9	Fixed Cost per kW	\$807	\$807	\$807	\$807	\$807	\$807	\$0
10	Index	100	100	100	100	100	100	0
11	Variable Cost per kWh	1.6¢	1.6¢	1.6¢	1.6¢	1.6¢	1.6¢	1.6¢
12	Index	100	100	100	100	100	100	99
			KCPL'	s BIP Method				
13	Fixed Cost per kW	\$807	\$595	\$765	\$818	\$916	\$1,104	\$0
14	Index	100	74	95	101	113	137	0
15	Variable Cost per kWh	1.6¢	1.6¢	1.6¢	1.6¢	1.6¢	1.6¢	1.6¢
16	Index	100	100	100	100	100	100	99



KANSAS CITY POWER & LIGHT COMPANY



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