

1 Q. WHAT ISSUES ARE YOU ADDRESSING?

2 A. I am addressing how any base revenue increase should be allocated among the  
3 various customer classes.

4 Q. ARE YOU SPONSORING ANY EXHIBITS TO YOUR DIRECT TESTIMONY?

5 A. Yes. I am sponsoring **Exhibit JP-1** through **JP-3**. These exhibits were prepared by  
6 me or under my supervision and direction.

7 Q. DO YOU ENDORSE KPCO'S PROPOSALS ON THOSE ISSUES NOT  
8 ADDRESSED IN YOUR DIRECT TESTIMONY?

9 A. No. Additionally, throughout my testimony and exhibits I use the revenue  
10 requirement parameters proposed by KPCO in this case for illustrative purposes. My  
11 reliance on these parameters should not be interpreted as an endorsement of  
12 KPCO's proposed revenue requirements.

### Summary

13 Q. PLEASE SUMMARIZE YOUR FINDINGS AND RECOMMENDATIONS.

14 A. My findings and recommendations are as follows:

- 15 • KPCO's class cost-of-service study (CCOSS) reveals wide disparities  
16 between class rates of return. In particular, the lighting classes,  
17 consisting of Rates OL and SL, are providing rates of return *at current*  
18 *rates* that are more than twice the 7.26% proposed rate of return that  
19 KPCO is requesting in this proceeding. Four of the remaining seven  
20 classes are also currently earning rates of return higher than 7.26%.
- 21 • KPCO's proposed class revenue allocation would move rates only 5%  
22 closer to cost. At this pace it would require 20 rate cases to achieve cost-  
23 based rates.
- 24 • The Commission should reject KPCO's proposed class revenue allocation  
25 and adopt KLC's proposal (**Exhibit JP-2**), which would move rates about  
26 [2220%](#) closer to cost.

1 Q. WHAT ARE THE RESULTS OF KPCO'S CCROSS?

2 A. The results of KPCO's CCROSS are summarized in Table 1 below.

<b>Table 1</b> <b>Summary of KPCO's</b> <b>Class Cost-of-Service Study Results</b> <b>at Present Rates</b>		
Customer Class	Rate of Return	Subsidy (\$000)
RS	<u>0.82%</u> <del>1.08%</del>	<del>(\$30,458)</del> <u>(\$30,561)</u>
SGS	<u>10.26%</u> <del>10.56%</del>	<u>4,068</u> <del>4,084</del>
MGS	<u>7.98%</u> <del>8.27%</del>	<u>8,161</u> <del>8,193</del>
LGS	<u>7.99%</u> <del>8.29%</del>	<u>7,221</u> <del>7,255</del>
IGS	<u>5.20%</u> <del>5.47%</del>	<u>6,083</u> <del>6,101</del>
PS	<u>5.89%</u> <del>6.17%</del>	<u>971</u> <del>974</del>
MW	<u>10.89%</u> <del>11.19%</del>	<u>404</u> <del>404</del>
OL	<u>14.78%</u> <del>15.05%</del>	<u>3,444</u> <del>3,444</del>
SL	<u>15.37%</u> <del>15.68%</del>	<u>469</u> <del>470</del>
<b>Total KY. Jurisd.</b>	<u>3.66%</u> <del>3.93%</del>	<u>\$0</u> <del>\$0</del>
Source: KPCo's Response to Staff 1-73, Att. 35		

3 Q. PLEASE EXPLAIN THE TERMS RATE OF RETURN AND SUBSIDY.

4 A. Rate of return measures the profitability of each customer class. It is derived by  
 5 dividing net operating income (revenues less allocated operating expenses) by rate  
 6 base. A class that is providing a rate of return above the Total Kentucky  
 7 Jurisdictional rate of return is paying rates that are above cost, while a class that is  
 8 providing a rate of return below the Total Kentucky Jurisdictional rate of return is  
 9 paying rates that are below cost.

10 The extent in which a class's rates are above or below cost is measured by  
 11 the subsidy. A positive subsidy means that current revenues are above the allocated  
 12 costs; that is, a class is subsidizing other classes. A negative subsidy means that

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**2. Class Revenue Allocation**

1 current revenues are below the allocated costs; that is, a class is being subsidized by  
2 other classes. Thus, in order to move rates closer to cost, any change in base rate  
3 revenues should be allocated to customer classes in a manner that reduces the  
4 subsidies at present rates.

5 **Q. DO YOU AGREE WITH ALL OF THE COST ALLOCATION METHODOLOGIES**  
6 **USED BY KPCO IN THIS PROCEEDING?**

7 A. No. However, as demonstrated in Table 1 above, the class rates of return in  
8 KPCO's CCROSS are widely disparate. Thus, using alternative cost allocation  
9 methodologies would not change the fact that KPCO's current rates are not cost-  
10 based.

11 **Q. WHAT DO THE RESULTS OF THE CLASS COST-OF-SERVICE STUDY**  
12 **DEMONSTRATE?**

13 A. KPCO's present rates are not cost-based. There are wide variations in the earned  
14 rates of return by customer classes. *Six of the nine customer classes—Small*  
15 *General Service (Rate SGS), Medium General Service (Rate MGS), Large General*  
16 *Service (Rate LGS), MW, OL, and SL—are providing rates of return that are already*  
17 *well in excess of the [7.266.73%](#) overall system rate of return that KPCO is proposing*  
18 *in this proceeding.* Thus, in an effort to achieve cost-based rates, these six classes  
19 should not receive any rate increase in this proceeding. However, this would require  
20 very large rate increases to the remaining three customer classes. Accordingly, as  
21 discussed below, KPCO is proposing to recognize the principle of gradualism.

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## 2. Class Revenue Allocation

1 opposite is also true for a class that is providing a below system-average rate of  
2 return; that is, this class is being subsidized by other classes.

3 **Q. IS ANY OF THE PROPOSED \$65.4 MILLION BASE REVENUE INCREASE**  
4 **RELATED TO THE RECOVERY OF FUEL AND PURCHASED POWER COSTS?**

5 A. No. KPCO is seeking an increase to recover higher base rate costs and not higher  
6 fuel and purchased power costs. This is notable because fuel and purchased power  
7 are among KPCO’s largest single operating expense. Accordingly, removing fuel  
8 and purchased power expense would provide a better measure of KPCO’s proposed  
9 class revenue allocation.

10 **Q. HAVE YOU CALCULATED THE PROPOSED BASE REVENUE INCREASE BOTH**  
11 **OVERALL AND BY CUSTOMER CLASS WITH FUEL AND PURCHASED POWER**  
12 **COSTS REMOVED?**

13 A. Yes. The calculation is provided in the table below.

KPCO’s Proposed Base Revenue Increase Excluding Fuel and Purchased Energy Cost Recoveries (\$000)	
Description	Amount
Proposed Base Revenue Increase	\$ <del>65,394</del> 60,397
Present Sales Revenues	\$ <del>500,400</del> 499,135
Fuel and Purchased Energy Charges*	\$164,766
Non-Fuel Revenues	\$ <del>335,634</del> 334,369
Percent Increase	<del>49.5%</del> 18.1%
* 2.88485¢ per kWh.	

14 KPCO is projecting \$~~500.4~~499.1 million of revenues from firm electric sales during  
15 the test year. Of this amount, fuel and purchased power energy costs account for

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**2. Class Revenue Allocation**

1 about \$164.8 million. The \$164.8 million includes costs recovered in the FAC  
2 (0.15985¢ per kWh) and fuel and purchased energy costs embedded in base rates  
3 (2.725¢ per kWh). Removing fuel and purchased energy charges leaves  
4 ~~\$335.6334.4~~ million of non-fuel revenues. Dividing the proposed ~~\$65.460.4~~ million  
5 increase by ~~\$335.6334.4~~ million results in an ~~49.518.1~~% increase. Thus, KPCO's  
6 proposal is effectively an ~~49.518.1~~% non-fuel rate increase.

7 **Q. HAVE YOU RESTATED KPCO'S PROPOSED CLASS REVENUE ALLOCATION**  
8 **RELATIVE TO NON-FUEL BASE REVENUES?**

9 A. Yes. **Exhibit JP-1**, page 2 restates KPCO's proposed class revenue allocation with  
10 all fuel and purchased energy cost recoveries removed. As can be seen, all non-  
11 residential customer classes would receive below-average increases except for the  
12 Industrial General Service (IGS) class, which would receive close to a system-  
13 average increase.

14 **Q. HOW DID KPCO DETERMINE ITS CLASS REVENUE ALLOCATION?**

15 A. KPCO states that its objective was to eliminate subsidies gradually over time based  
16 on the results of the CCOSS as well as the ratemaking principle of gradualism for its  
17 proposed class revenue allocation.<sup>1</sup>

18 **Q. HOW DID KPCO APPLY GRADUALISM?**

19 A. KPCO limited the rate increase by reducing each classes' subsidy by 5%. In other  
20 words, rates would be moved only 5% closer to cost in this proceeding.

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<sup>1</sup> Direct Testimony of Douglas R. Buck at 20-21; Direct Testimony of Ranie K. Wohnhas at 8.

- 1 • No increase in lighting rates because these rates are currently  
2 providing rates of return that are in excess of twice the proposed  
3 system average rate of return.
- 4 • About 4041% of the system average non-fuel revenue increase to  
5 the SGS and MW classes.
- 6 • About 66% of the system average non-fuel revenue increase to  
7 the MGS and LGS classes; and
- 8 • About 8081% of the system average non-fuel revenue increase to  
9 the IGS and Public School (PS) classes.

10 **Q. HAVE YOU CONFIRMED THAT THE CLASS REVENUE ALLOCATION SHOWN**  
11 **IN EXHIBIT JP-2 WOULD RESULT IN MOVING ALL RATES CLOSER TO COST?**

12 A. Yes. **Exhibit JP-3** shows the CCOSS results at KLC's proposed class revenue  
13 allocation. Overall, KPCO's rates would move about 2220% closer to cost. This is in  
14 stark contrast to KPCO's proposed class revenue allocation, which would move rates  
15 only 5% closer to cost.

16 **Q WHY SHOULD THE LIGHTING CLASSES RECEIVE NO INCREASE IN THIS**  
17 **PROCEEDING?**

18 A The OL and SL classes should not receive any rate increase in this proceeding  
19 because these classes are earning rates of return *at current rates* that are more than  
20 twice the 7.266.73% system average rate of return that KPCO is seeking in this  
21 proceeding.

22 **Q WOULD IT BE APPROPRIATE TO RAISE THE INSTALLATION CHARGES**  
23 **APPLICABLE TO LIGHTING CUSTOMERS IN THIS PROCEEDING?**

24 A No. As long as the OL and SL class rates of return are above the system average,  
25 which would be the case even under KPCO's proposed class revenue allocation, the

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## 2. Class Revenue Allocation

1 current installation charges should be retained.

2 **Q. IF THE COMMISSION AUTHORIZES A LOWER INCREASE FOR KPCO, HOW**  
3 **SHOULD THAT LOWER INCREASE BE SPREAD AMONG THE CUSTOMER**  
4 **CLASSES?**

5 A. My recommendation would be to scale down the base revenue requirement in  
6 proportion to the overall base revenue increase that the Commission ultimately  
7 awards. For example, if KPCO receives a ~~\$32.730.2~~ million base revenue increase  
8 (which is ~~94.892.3~~% of its proposed base revenue requirement) then the amounts  
9 shown in **Exhibit JP-2**, column 2 should be reduced by ~~8.27.6~~%.

10 **Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?**

11 A. Yes.

**KENTUCKY POWER COMPANY**  
**Updated Proposed Class Revenue Allocation**  
**Measured on Total Revenues Including Adjustment Clauses**  
**Twelve Months Ended February 28, 2017**  
**(Dollar Amounts in \$000)**

<u>Line</u>	<u>Customer Class</u>	<u>Total</u>	<u>Proposed</u>		<u>Percent</u>
		<u>Revenues at Present Rates</u>	<u>Revenue Increase Amount</u>	<u>Percent</u>	<u>of System Average Increase</u>
		(1)	(2)	(3)	(4)
1	RS	\$215,745	\$34,504	16.0%	132%
2	SGS	18,576	1,693	9.1%	75%
3	MGS	53,331	5,403	10.1%	84%
4	LGS	51,375	4,762	9.3%	77%
5	IGS	138,770	11,853	8.5%	71%
6	PS	11,504	1,287	11.2%	92%
7	MW	194	15	7.8%	64%
8	OL	8,232	780	9.5%	78%
9	SL	1,407	100	7.1%	59%
10	Total KY. Jurisd.	<u>\$499,135</u>	<u>\$60,397</u>	12.1%	100%

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Source: KPCo response to Staff 1-73, Attachment 97.



**KENTUCKY POWER COMPANY**  
**Updated Proposed Class Revenue Allocation**  
**Measured on Base Revenue Excluding**  
**Embedded Fuel Charges**  
**Twelve Months Ended February 28, 2017**  
**(Dollar Amounts in \$000)**

Line	Customer Class	Total Revenues at Present Rates	Fuel Cost Recoveries Included at 2.88485¢/kWh	Non-Fuel Revenues at Present Rates	Proposed Revenue Increase		Percent of System Average Increase
					Amount	Percent	
		(1)	(2)	(3)	(4)	(5)	(6)
1	RS	\$215,745	\$58,921	\$156,824	\$34,504	22.0%	122%
2	SGS	18,576	3,819	14,758	1,693	11.5%	64%
3	MGS	53,331	13,278	40,053	5,403	13.5%	75%
4	LGS	51,375	15,020	36,355	4,762	13.1%	73%
5	IGS	138,770	68,972	69,798	11,853	17.0%	94%
6	PS	11,504	3,219	8,286	1,287	15.5%	86%
7	MW	194	57	137	15	11.0%	61%
8	OL	8,232	1,242	6,990	780	11.2%	62%
9	SL	1,407	239	1,168	100	8.5%	47%
10	Total KY. Jur	<u>\$499,135</u>	<u>\$164,766</u>	<u>\$334,369</u>	<u>\$60,397</u>	18.1%	100%

**KENTUCKY POWER COMPANY**  
**Updated KLC Proposed Class Revenue Allocation**  
**Twelve Months Ended February 28, 2017**  
**(Dollar Amounts in \$000)**

Line	Customer Class	Non-Fuel Revenues			Percent Increase	Percent of System Average Increase
		Present Rates	KLC's Proposed	Increase		
		(1)	(2)	(3)	(4)	(5)
1	RS	\$156,824	\$195,585	\$38,761	24.7%	137%
2	SGS	14,758	15,851	1,093	7.4%	41%
3	MGS	40,053	44,828	4,775	11.9%	66%
4	LGS	36,355	40,690	4,334	11.9%	66%
5	IGS	69,798	80,010	10,212	14.6%	81%
6	PS	8,286	9,498	1,212	14.6%	81%
7	MW	137	147	10	7.4%	41%
8	OL	6,990	6,990	0	0.0%	0%
9	SL	1,168	1,168	0	0.0%	0%
10	Total KY. Jurisd.	<u>\$334,369</u>	<u>\$394,766</u>	<u>\$60,398</u>	18.1%	100%

**KENTUCKY POWER COMPANY**  
**Summary of Updated Class Cost-of-Service Study Results**  
**Under The Present and KLC's Proposed Class Revenue Allocations**  
**Twelve Months Ended February 28, 2017**  
**(Dollar Amounts in \$000)**

Line	Customer Class	Rate of Return		Subsidy		Movement To Cost
		Present Rates	KLC Rates	Present Rates	KLC Rates	
		(1)	(2)	(3)	(4)	(5)
1	RS	0.82%	4.43%	-\$30,458	-\$24,678	19%
2	SGS	10.26%	12.03%	4,068	3,265	20%
3	MGS	7.98%	10.50%	8,161	7,125	13%
4	LGS	7.99%	10.59%	7,221	6,432	11%
5	IGS	5.20%	7.78%	6,083	4,138	32%
6	PS	5.89%	8.68%	971	848	13%
7	MW	10.89%	12.71%	40	33	17%
8	OL	14.78%	14.78%	3,444	2,491	28%
9	SL	15.37%	15.37%	469	346	26%
10	Total KY. Jurisd.	3.66%	6.73%	<u>\$0</u>	<u>\$0</u>	20%

Source: KPCo response to Staff 1-73, Attachment 97.