

**COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION**

In the Matter of: APPLICATION OF KENTUCKY UTILITIES COMPANY FOR AN ADJUSTMENT OF ITS ELECTRIC RATES	:	CASE NO., 2018-00294
In the Matter of: APPLICATION OF LOUISVILLE GAS AND ELECTRIC COMPANY FOR AN ADJUSTMENT OF ITS ELECTRIC AND GAS RATES	:	CASE NO. 2018-00295

**KENTUCKY INDUSTRIAL UTILITY CUSTOMERS, INC.
RESPONSE TO COMMISSION STAFF'S INITIAL DATA REQUESTS**

WITNESS/RESPONDENT RESPONSIBLE: Stephen J. Baron

QUESTION No. 6

Refer to the Direct Testimony of Stephen J. Baron (Baron Testimony), page 14, Table 1 and page 15, Table 2. Provide similar tables with a further breakdown within each TIER of each rate class's Rate of Return.

RESPONSE:

The rate of return for each rate class using the KIUC 12 CP methodology for LG&E and KU is shown in the last column of Mr. Baron's Exhibits SJB-5 and SJB-6.

Summaries are shown below:

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WITNESS/RESPONDENT RESPONSIBLE: Stephen J. Baron

QUESTION No. 7

Refer to the Baron Testimony, page 18, lines 7-15.

- a. Explain why there were no adjustments made to the 12 coincident peak (12 CP) cost-of-service study (COSS).
- b. Provide how the impact of the perceived benefits not reported in Rate FLS can be quantified and imputed into a COSS.

RESPONSE:

a. Mr. Baron did not perform a specific analysis to measure the impact of the FLS curtailment provisions, and therefore there was no adjustment made to reflect this in his cost of service analysis. Mr. Baron does believe that the impact of the FLS curtailment provisions, if reasonably measured, would increase the reported FLS rate of return at present rates.

b. There are likely a number of methods that could be used to estimate the system benefits of the FLS curtailment provisions. KU, in response to KIUC 1-25 stated as follows:

LG&E/KU currently responds to generation contingencies, such as unplanned outages or derates, in the first 15 minutes by 1) deploying spinning reserves, 2) if needed, calling on the FLS curtailment provision to remove the uncertainty of fluctuating load during an ensuing 10-minute period, 3) if needed, deploying quick start combustion turbines, and 4) if needed, invoking ARS.

The Company then stated that without FLS (step 2), they would move to step 3. Following this scenario, Mr. Baron has developed an estimate of the annual benefit of FLS curtailment by assuming that one of the Trimble County CTs would start-up, in lieu of curtailing the FLS load.

Based on the Company's response to KIUC 1-23, there were 67 FLS curtailments during the 22-month period January 1, 2017 through December 1, 2018. This produces an average of 3.05 curtailments per month, or 36.6 per year. Based on the data provided in response to KIUC 1-23, the average FLS load on line at the time of each curtailment was 76.6 mW. One measure of the annual benefit of FLS curtailment can be estimated by assuming that a CT would otherwise have to start-up and run for 10 minutes, if the FLS

