COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

| ELECTRONIC JOINT APPLICATION OF KENTUCKY UTILITIES COMPANY AND LOUISVILLE GAS AND ELECTRIC COMPANY FOR CERTIFICATES OF PUBLIC CONVENIENCE AND NECESSITY AND APPROVAL OF A DEMAND SIDE |))) CASE NO. 2022-00402) |
|--|---|
| MANAGEMENT PLAN |) |

RESPONSE OF KENTUCKY UTILITIES COMPANY AND LOUISVILLE GAS AND ELECTRIC COMPANY TO WALMART INC.'S SUPPLEMENTAL REQUEST FOR INFORMATION DATED APRIL 14, 2023

FILED: MAY 4, 2023

COMMONWEALTH OF KENTUCKY))) **COUNTY OF JEFFERSON**

The undersigned, Lonnie E. Bellar, being duly sworn, deposes and says that he is Chief Operating Officer for Louisville Gas and Electric Company and Kentucky Utilities Company and an employee of LG&E and KU Services Company, 220 West Main Street, Louisville, KY 40202, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge and belief.

Billy

Lonnie E. Bellar

Subscribed and sworn to before me, a Notary Public in and before said County

and State, this _____ day of _____ 2023.

auso Notary Public

Notary Public ID No. KYNP

Janary 22, 2027



COMMONWEALTH OF KENTUCKY)) COUNTY OF JEFFERSON)

The undersigned, **John Bevington**, being duly sworn, deposes and says that he is Director – Business and Economic Development for LG&E and KU Services Company, 220 West Main Street, Louisville, KY 40202, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge and belief.



John Bevington

Subscribed and sworn to before me, a Notary Public in and before said County

and State, this ______ day of _____ 2023. Notary Public

Notary Public ID No. KINP 63286

anuary 22, 2027



COMMONWEALTH OF KENTUCKY)) COUNTY OF JEFFERSON)

The undersigned, **Robert M. Conroy**, being duly sworn, deposes and says that he is Vice President, State Regulation and Rates, for Kentucky Utilities Company and Louisville Gas and Electric Company and an employee of LG&E and KU Services Company, 220 West Main Street, Louisville, KY 40202, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge, and belief.

Robert M. Conroy

Subscribed and sworn to before me, a Notary Public in and before said County

and State, this $1^{\underline{s}\underline{k}}$ day of $M_{\underline{Ay}}$ 2023. Jammy Ely Notary Public ID No. KYNP61560

November 9, 2026

COMMONWEALTH OF KENTUCKY)) **COUNTY OF JEFFERSON**)

The undersigned, David S. Sinclair, being duly sworn, deposes and says that he is Vice President, Energy Supply and Analysis for Kentucky Utilities Company and Louisville Gas and Electric Company and an employee of LG&E and KU Services Company, 220 West Main Street, Louisville, KY 40202, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge, and belief.

David S. Sinclair

Subscribed and sworn to before me, a Notary Public in and before said County

and State, this 3 day of 3aup 2023.

Notary Public

Notary Public ID No. KYNP 63281

January 22, 2027



COMMONWEALTH OF KENTUCKY)) COUNTY OF JEFFERSON)

The undersigned, **Stuart A. Wilson**, being duly sworn, deposes and says that he is Director, Energy Planning, Analysis & Forecasting for LG&E and KU Services Company, 220 West Main Street, Louisville, KY 40202, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge, and belief.

Stuart A. Wilson

Subscribed and sworn to before me, a Notary Public in and before said County and

State, this ______ day of _______ 2023.

Notary Public

Notary Public ID No. KYNP 63281

January 22, 2027



Response to Walmart Inc.'s Supplemental Request for Information Dated April 14, 2023

Case No. 2022-00402

Question No. 1

Responding Witness: Lonnie E. Bellar

- Q-1. As it relates to the natural gas combined cycle ("NGCC") units proposed for approval in this proceeding, please answer the following questions:
 - a. According to the Direct Testimony of Lonnie E. Bellar, p. 11, lines 19-23, "[a]ll OEMs that provide NGCC technology are designing their gas turbines to combust hydrogen in the future should it become economically viable or mandated." Will the NGCC units proposed for approval in this proceeding be capable of co-firing with hydrogen?
 - b. If the answer to 1(a) is no, please explain why not, and identify all costs, whether estimated or actual, associated with retrofitting these units in the future to co-fire with hydrogen.
- A-1.
- a. Yes. The capabilities of the gas turbine OEM's vary widely, but all outpace the current, or reasonably envisioned, supply of commercially available quantities to sustain operation at even a 5% hydrogen blend. Any selected OEM will be capable of blending at least that at time of installation. As suitable sources of commercially available hydrogen evolve, the Companies will assess potential upgrades necessary and execute beneficial upgrades in conjunction with other necessary maintenance. See also response to KCA 2-51(b).
- b. Not applicable.

Response to Walmart Inc.'s Supplemental Request for Information Dated April 14, 2023

Case No. 2022-00402

Question No. 2

Responding Witness: John Bevington / Robert M. Conroy / David S. Sinclair

- Q-2. Have the Companies quantified potential benefits to ratepayers associated with the Inflation Reduction Act ("IRA") as it relates to the projects proposed in the Companies' Application?
- A-2. No. The details around the funding channel (i.e., Kentucky State Energy Office) and the timing are not yet published. See the following:
 - Exhibit JB-1, Section 1.2.1, page 7 (filed December 15, 2022)
 - Charles R. Schram Direct Testimony, page 5 (filed December 15, 2022)
 - o PSC 1-19(b), 1-24, 1-47(a), 1-69, 1-94(c)
 - о Л1-73
 - o KCA 1-68
 - LFUCG/METRO 1-44

Response to Walmart Inc.'s Supplemental Request for Information Dated April 14, 2023

Case No. 2022-00402

Question No. 3

Responding Witness: Stuart A. Wilson

- Q-3. Please reference the Direct Testimony of Stuart A. Wilson, p. 14, lines 1-8 concerning the use of the PLEXOS model to develop the least-cost resource portfolios.
 - a. Did the Companies perform any out-of-model steps and/or impose out-of-model constraints on PLEXOS?
 - b. If so, please describe all such forced inputs, limitations, or out-of-model constraints and the reason(s) for each such input or limitation.

A-3.

- a. No. For an explanation of the in-model PLEXOS constraints, see the response to PSC 2-10(e).
- b. Not applicable.

Response to Walmart Inc.'s Supplemental Request for Information Dated April 14, 2023

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Question No. 4

Responding Witness: Stuart A. Wilson

- Q-4. Please reference the Direct Testimony of Stuart A. Wilson, p. 14, lines 19-20 concerning the use of SERVM to test the portfolios' reliability.
 - a. Did the Companies perform any out-of-model steps and/or impose out-of-model constraints on SERVM?
 - b. If so, please describe all such forced inputs, limitations, or out-of-model constraints and the reason(s) for each such input or limitation.

A-4.

- a. No.
- b. Not applicable.

Response to Walmart Inc.'s Supplemental Request for Information Dated April 14, 2023

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Question No. 5

Responding Witness: David S. Sinclair

- Q-5. Please reference the Direct Testimony of David S. Sinclair, p. 19, line 15 to p. 20, line 15 concerning the risks regarding the power purchase agreements ("PPAs") proposed for approval in this proceeding and answer the following:
 - a. Are any costs of these PPAs being recovered by customers prior to these projects coming online?
 - b. If so, please explain all such costs.
 - c. In the event a PPA is terminated and costs are recovered from customers prior to the project coming online, how will such costs be refunded to customers?

A-5.

- a. No. The Companies will only pay for energy delivered at the agreed upon PPA price.
- b. See the response to part (a).
- c. Not applicable, see the response to part (a).