COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

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)
) CASE NO. 2022 00402
() CASE NO. 2022-00402
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)

MAY 11, 2023 SUPPLEMENTAL RESPONSE OF
KENTUCKY UTILITIES COMPANY
AND
LOUISVILLE GAS AND ELECTRIC COMPANY
TO
THE COMMISSION STAFF'S
SUPPLEMENTAL REQUEST FOR INFORMATION
DATED APRIL 14, 2023

FILED: MAY 11, 2023

VERIFICATION

COMMONWEALTH OF KENTUCKY)
COUNTY OF JEFFERSON)

The undersigned, **Lana Isaacson**, being duly sworn, deposes and says that she is Manager – Emerging Business Planning and Development for Louisville Gas and Electric Company and Kentucky Utilities Company, 220 West Main Street, Louisville, KY 40202, and that she has personal knowledge of the matters set forth in the responses for which she is identified as the witness, and the answers contained therein are true and correct to the best of her information, knowledge, and belief.

Lana Isaacson

Lana Isaacson

Subscribed and sworn to before me, a Notary Public in and before said County and State, this $\frac{11}{2}$ day of $\frac{1}{2}$ day of $\frac{1}{2}$ 2023.

Notary Public

Notary Public ID No. KYNP63286

My Commission Expires:

January 22, 2027

KENTUCKY UTILITIES COMPANY AND LOUISVILLE GAS AND ELECTRIC COMPANY

May 11, 2023 Supplemental Response to Commission Staff's Supplemental Request for Information Dated April 14, 2023

Case No. 2022-00402

Question No. 38

Responding Witness: Lana Isaacson

Q-38. Provide a cost-effectiveness analysis for each program identified in LG&E/KU's response to Staff's First Request, Item 21a–g.

A-38. **Original Response**

See attached for the cost-effectiveness analyses for the three programs the Companies previously stated they would perform in response to PSC 1-20(e)-(g). For the remaining four programs in PSC 1-20(a)-(d), the Companies have begun developing the program parameters and performing cost-effectiveness analyses. The Companies expect these analyses will be complete no later than May 22nd and will supplement this response with the analyses.

Please note that the cost-benefit analyses for the three programs noted use different avoided capacity costs than the avoided capacity cost reflected in the cost-benefit analyses the Companies filed in the December 2022 Application. The avoided capacity cost used in the cost-benefit analyses filed in December 2022 was the levelized cost of a simple cycle CT installed in 2028, which is an approach consistent with the Companies' past DSM-EE cost-effectiveness analyses. Subsequently, in discovery requests from Commission Staff and interveners, as well as in the informal conference held on April 17, 2023, the Companies received questions about which avoided capacity cost is used in DSM-EE cost-effectiveness calculations. The Companies therefore decided to refine their avoided capacity cost approach to evaluate the programs the Commission Staff has asked the Companies to assess; namely, the attached cost-benefit analysis of the three programs the Companies have been able to analyze to date uses avoided capacity costs for a simple cycle CT for dispatchable DSM, or demand response, programs, and it uses an NGCC unit's costs properly considered over time for energy efficiency programs.

For the sake of consistency, the Companies are also attaching new cost-effectiveness results for their proposed DSM-EE programs using the updated avoided capacity costs. The update does not materially impact the cost-effectiveness of the Companies' proposed programs; the portfolio TRC decreases from 1.54 to 1.50.

May 11, 2023 Supplemental Response

See attached for the cost-effectiveness analyses for all seven programs requested in PSC 1-20. The attachment includes the analyses of the three programs the Companies previously provided in their original response to PSC 2-38. The results shown in the attachment represent an initial, preliminary analysis of each requested program. If the Companies were preparing these analyses without the time constraint of discovery, the Companies would spend additional time to create, review, collaborate with DSM Advisory Stakeholders, validate, and further refine the program inputs and results.

The attachment is being provided in a separate file.