

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

ELECTRONIC 2018 INTEGRATED RESOURCE) CASE NO.
PLAN OF DUKE ENERGY KENTUCKY, INC.) 2018-00195

COMMISSION STAFF'S THIRD REQUEST FOR INFORMATION
TO DUKE ENERGY KENTUCKY, INC.

Duke Energy Kentucky, Inc. (Duke Kentucky), pursuant to 807 KAR 5:001, is to file with the Commission the original and an electronic version of the following information. The information requested herein is due within ten days of the date of this request. Responses to requests for information in paper medium shall be appropriately bound, tabbed, and indexed. Electronic documents shall be in portable document format (PDF), shall be searchable and shall be appropriately bookmarked.

Each response shall include the name of the witness responsible for responding to the questions related to the information provided. Each response shall be answered under oath or, for representatives of a public or private corporation or a partnership or association or a governmental agency, be accompanied by a signed certification of the preparer or the person supervising the preparation of the response on behalf of the entity that the response is true and accurate to the best of that person's knowledge, information, and belief formed after a reasonable inquiry.

Duke Kentucky shall make timely amendment to any prior response if it obtains information which indicates that the response was incorrect when made or, though correct when made, is now incorrect in any material respect. For any request to which Duke

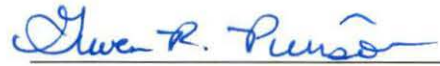
Kentucky fails or refuses to furnish all or part of the requested information, it shall provide a written explanation of the specific grounds for its failure to completely and precisely respond.

Careful attention shall be given to copied material to ensure that it is legible. When the requested information has been previously provided in this proceeding in the requested format, reference may be made to the specific location of that information in responding to this request. When applicable, the requested information shall be separately provided for total company operations and jurisdictional operations. When filing a paper containing personal information, Duke Kentucky shall, in accordance with 807 KAR 5:001, Section 4(10), encrypt or redact the paper so that personal information cannot be read.

1. Refer to the Integrated Resource Plan (IRP), pages 60, 61 and 64.
 - a. Explain how often Duke Energy conducts its appliance end-use survey.
 - b. Explain the extent to which Duke Energy collects customer demographic data in its end-use survey including but not limited to household size, household income, education levels, domicile size/square feet and other characteristics, and other related demographic and behavioral data.
 - c. Provide a copy of Duke Energy's two most recent end-use surveys and the survey results.
 - d. Explain whether Duke Energy maintains data that correlates individual residential customer energy consumption with individual household income levels, with domicile size and other characteristics, and/or with education levels. If so,

provide that information in an Excel spreadsheet with any formulas unprotected and intact.

2. Refer to the IRP, pages 27–28.
 - a. Provide tables with the data used to construct Figures 4.1, 4.2, 4.3, and 4.4.
 - b. Explain whether the data and Figures portrayed in Figures 4.1–4.4 represent the Business As Usual Case (BAU case) discussed in the IRP at 34.
3. Refer to the IRP, pages 39–42. Explain and show how the load growth rate under the BAU case compares to each of the load growth rate alternatives discussed in the three scenarios.
4. Refer to the IRP, pages 42–44. Explain and show how the coal and natural gas prices under the BAU case compare to those under each of the alternative scenarios.
5. Refer to Commission Staff's First Request for Information, Item 8.
 - a. Provide a graphic illustration reflecting the change in natural gas and low-sulfur diesel cost from the filing of the IRP to present.
 - b. Discuss whether the changes in prices for natural gas and low-sulfur diesel fuel have impacted the dispatch of any Duke Kentucky units currently and in the foreseeable future.
 - c. Explain how changes in the cost of low-sulfur diesel projections have impacted the annual 2.5 percent annual inflation rate projection for the term of the IRP.
 - d. Explain if changes in the cost of low-sulfur diesel projections have affected the findings and conclusions in the IRP



Gwen R. Pinson
Executive Director
Public Service Commission
P.O. Box 615
Frankfort, KY 40602

DATED **MAY 07 2019**

cc: Parties of Record

*Adele Frisch
Duke Energy Kentucky, Inc.
139 East Fourth Street
Cincinnati, OH 45201

*Kent Chandler
Assistant Attorney General
Office of the Attorney General Office of Rate
700 Capitol Avenue
Suite 20
Frankfort, KENTUCKY 40601-8204

*Duke Energy Kentucky, Inc.
139 East Fourth Street
Cincinnati, OH 45202

*Larry Cook
Assistant Attorney General
Office of the Attorney General Office of Rate
700 Capitol Avenue
Suite 20
Frankfort, KENTUCKY 40601-8204

*E. Minna Rolfes-Adkins
Paralegal
Duke Energy Kentucky, Inc.
139 East Fourth Street
Cincinnati, OH 45201

*Rebecca W Goodman
Assistant Attorney General
Office of the Attorney General Office of Rate
700 Capitol Avenue
Suite 20
Frankfort, KENTUCKY 40601-8204

*Rocco O D'Ascenzo
Duke Energy Kentucky, Inc.
139 East Fourth Street
Cincinnati, OH 45201