

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

In the Matter of:

The Electronic Application of Duke Energy )  
Kentucky, Inc., for: 1) An Adjustment of the )  
Electric Rates; 2) Approval of an ) Case No. 2017-00321  
Environmental Compliance Plan and )  
Surcharge Mechanism; 3) Approval of New )  
Tariffs; 4) Approval of Accounting Practices to )  
Establish Regulatory Assets and Liabilities; )  
and 5) All Other Required Approvals and )  
Relief. )

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**DUKE ENERGY KENTUCKY, INC.'S FIRST SET OF  
INTERROGATORIES AND REQUESTS FOR PRODUCTION OF  
DOCUMENTS PROPOUNDED UPON THE  
KENTUCKY SCHOOL BOARDS ASSOCIATION**

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Comes now Duke Energy Kentucky, Inc. (Duke Energy Kentucky), and addresses the following First Set of Data Requests to the Kentucky School Boards Association (KSBA) to be answered by the date specified in the Commission's Order of Procedure, and in accordance with the following instructions:

**I. DEFINITIONS AND INSTRUCTIONS**

1. With respect to each discovery request, all information is to be divulged that is within the knowledge, possession or control of the parties to whom it is addressed, including their agents, employees, attorneys and/or investigators.

2. Please identify the witness(es) who will be prepared to answer questions concerning each request.

3. These requests shall be deemed continuing so as to require further and

supplemental responses if the company receives or generates additional information within the scope of these requests between the time of the response and the time of any hearing conducted hereon.

4. All answers must be separately and fully stated in writing under oath.

5. Where an interrogatory calls for an answer in more than one part, each part should be separated in the answer so that the answer is clearly understandable.

6. For purpose of these discovery requests, the following terms shall have meanings set forth below:

- (a) As used herein, "document," "documentation" and/or "record," whether stated as the singular or the plural, means any course of binders, book, pamphlet, periodical, letter, correspondence, memoranda, including but not limited to, any memorandum or report of a meeting or telephone or other conversation, invoice, account, credit memo, debit memo, financial statement, general ledger, ledger, journal, work papers, account work papers, report, diary, telegram, record, contract, agreement, study, draft, telex, handwritten or other note, sketch, picture, photograph, plan, chart, paper, graph, index, tape, data processing card, data processing disc, data cells or sheet, check acceptance draft, e-mail, studies, analyses, contracts, estimates, summaries, statistical statements, analytical records, reports and/or summaries of investigations, opinions or reports of consultants, opinions or reports of accountants, trade letters, comparisons, brochures, pamphlets, circulars, bulletins, notices, forecasts, electronic communication, printouts, all other data compilations from which

information can be obtained (translated if necessary by defendants into usable form), any preliminary versions, drafts or revisions of any of the foregoing, and/or any other written, recorded, transcribed, punched, taped, filmed or graphic matter, however produced or reproduced and regardless of origin or location, in the possession, custody and/or control of the defendant and/or their agents, accountants, employees, representatives and/or attorneys. "Document" and "record" also mean all copies of documents by whatever means made, if the copy bears any other markings or notations not found on the original.

- (b) The terms "relating to," "referring to," "referred to," "pertaining to," "pertained to" and "relates to" means referring to, reporting, embodying, establishing, evidencing, comprising, connected with, commenting on, responding to, showing, describing, analyzing, reflecting, presenting and/or constituting and/or in any way involving.
- (c) The terms "and," "or," and "and/or" within the meaning of this document shall include each other and shall be both inclusive and disjunctive and shall be construed to require production of all documents, as above-described, in the broadest possible fashion and manner.
- (d) The term "KSBA" shall mean the Kentucky School Boards Association, and shall include, but is not limited to, each and every agent, employee, servant, insurer and/or attorney of KSBA. The term "you" shall be deemed to refer to KSBA.
- (e) The term "Commission" shall mean the Kentucky Public Service

Commission.

- (f) The term “Duke Energy Kentucky” shall mean Duke Energy Kentucky, Inc., its employees, agents, officers, directors and representatives.
- (g) To “identify” shall mean:
  - (1) With respect to a document, to state its date, its author, its type (for example, letter, memorandum, chart, photograph, sound reproduction, etc.), its subject matter, its present location, and the name of its present custodian. The document may be produced in lieu of supplying the foregoing information. For each document which contains information as privileged or otherwise excludable from discovery, there shall be included a statement as to the basis for such claim of privilege or other grounds for exclusion.
  - (2) With regard to a natural person, to state his or her full name, last known employer or business affiliation, title and last known home address.
  - (3) With regard to a person other than a natural person, state the title of that person, any trade name, or corporate name or partnership name used by that person, and the principal business address of that person.
- (h) To “produce” or to “identify and produce,” shall mean that KSBA shall produce each document or other requested tangible thing. For each tangible thing which KSBA contends is privileged or otherwise excludable from discovery, there shall be included a statement as to the basis for such

claim of privilege or other grounds for exclusion.

- (i) The terms "Party or Parties" shall mean any organization, person, corporation, entity, etc., which intervened in the above-captioned proceeding and shall further include the Kentucky Public Service Commission Staff.

## **II. REQUESTS FOR INFORMATION**

1. Other than Mr. Willhite, please identify any persons, including experts whom KSBA has consulted or retained, or is in the process of retaining with regard to evaluating the Company's Application in this proceeding.

2. For each person identified in (prior) response to Interrogatory No. 1 above, please state (1) the subject matter of the discussions/consultations/evaluations; (2) the written opinions of such persons regarding the Company's Application; (3) the facts to which each person relied upon; and (4) a summary of the person's qualifications to render such discussions/consultations/evaluations.

3. For each person identified in response to Interrogatory No. 1 above, please identify all proceedings in all jurisdictions in which the witness/persons has offered evidence, including but not limited to, pre-filed testimony, sworn statements, and live testimony. For each response, please provide the following:

- (a) the jurisdiction in which the testimony or statement was pre-filed, offered, given, or admitted into the record;
- (b) the administrative agency and/or court in which the testimony or statement was pre-filed, offered, admitted, or given;
- (c) the date(s) the testimony or statement was pre-filed, offered, admitted, or



given;

- (d) the identifying number for the case or proceeding in which the testimony or statement was pre-filed, offered, admitted, or given; and
- (e) whether the person was cross-examined.

4. Identify and provide all documents or other evidence that KSBA may seek to introduce as exhibits or for purposes of witness examination in the above-captioned matter.

5. Please identify all proceedings in all jurisdictions in the last five years in which Mr. Willhite has offered evidence, including but not limited to, pre-filed testimony, sworn statements, and live testimony and analysis. For each response, please provide the following:

- (a) the jurisdiction in which the testimony, statement or analysis was pre-filed, offered, given, or admitted into the record;
- (b) the administrative agency and/or court in which the testimony, statement or analysis was pre-filed, offered, admitted, or given;
- (c) the date(s) the testimony, statement or analysis was pre-filed, offered, admitted, or given;
- (d) the identifying number for the case or proceeding in which the testimony, statement or analysis was pre-filed, offered, admitted, or given;
- (e) whether the witness was cross-examined;
- (f) the custodian of the transcripts and pre-filed testimony, statements or analysis for each proceeding; and
- (g) copies of all such testimony, statements or analysis.

6. Please provide copies of any and all documents, analysis, summaries, white papers, work papers, spreadsheets (electronic versions with cells intact), including drafts thereof,

as well as any underlying supporting materials created by Mr. Willhite as part of his evaluation of the Company's Application or used in the creation of Mr. Willhite's testimony.

7. Please provide copies of any and all documents not created by Mr. Willhite, including but not limited to, analysis, summaries, cases, reports, evaluations, *etc.*, that Mr. Willhite relied upon, referred to, or used in the development of his testimony.

8. Please provide copies of any presentations, power point, *etc.*, made by Mr. Willhite in the last three (3) years that discuss any of the following: 1) utility rate-making; 2) school energy usage; 3) participation in utility-offered demand-side management; and 4) intervention in utility rate cases.

9. Referring to Page 4, Lines 4 – 7 of Mr. Willhite's testimony where he states that "...schools are not typically in session during the Company's peak period with most class dates beginning mid to late August ..." is it Mr. Willhite's belief that Duke Energy Kentucky has not or will not experience peak load or near peak load days in mid to late August or during the month of September?

(a) If the answer is in the affirmative, please provide all documents relied upon and analysis and studies performed by Mr. Willhite to support such conclusion.

10. Referring to the first chart on Page 4 of Mr. Willhite's testimony, please provide a version of this chart showing amounts on the y-axis.

11. Referring to the second chart on Page 4 of Mr. Willhite's testimony:

(a) Please provide the data underlying the graph.

(b) Please identify each customer and each customer's demand represented in the chart and indicate whether or not each school is a customer of Duke

Energy Kentucky.

12. Referring to Page 5, Lines 2 – 3 of Mr. Willhite’s testimony:
  - (a) Please provide all of the data used by Mr. Willhite to compute the \$260,000 figure.
  - (b) Does Mr. Willhite agree that the savings he calculates has no effect on the Company’s overall revenue requirement?
  - (c) If the answer to (b) is “yes,” does Mr. Willhite agree that, if his proposal is approved, the \$260,000 saved by the group of schools in his calculation would have to be recovered from other retail customers in order for Duke Energy Kentucky to fully recover its cost of service?
  - (d) Confirm that Mr. Willhite’s estimate of \$260,000 includes only public schools, K-12?
  - (e) If the \$260,000 is only for public schools, K-12, please provide Mr. Willhite’s estimate of the overall impact of his recommendation on Page 8, Lines 23 – 26, that the rate be available to public and private schools, K-12, with average monthly demands greater than 50 KW.
  
13. Referring to Page 5, Line 12 of Mr. Willhite’s testimony, is he asserting that no other customers on Rate DS are required to have energy management policies?
  - (a) If the answer is in the affirmative, please explain the basis of such belief.
  - (b) If the answer is in the negative, please explain how the presence of an energy management policy distinguishes schools from other customers taking service under the Company’s Rate DS who are required to have energy management policies.



14. Referring to Page 5, Lines 16 – 17 of Mr. Willhite’s testimony, please provide all studies, analyses, or other materials to support Mr. Willhite’s assertion that public schools have usage characteristics that are different from all other DS customers.

15. Referring to Page 5, Lines 18 – 19 of Mr. Willhite’s testimony:

- (a) Please identify Duke Energy Kentucky’s electric tariff sheet number for the referenced Tariff L.G.S.
- (b) Please explain why he believes that “public schools provide less risk to serve than other customers served on Tariff L.G.S.”
- (c) Please list all types of risk(s) that Mr. Willhite is referring to in this statement.
- (d) Please provide all studies, analyses, or other material Mr. Willhite relied upon to assert that “public schools provide less risk to serve than other customers served on Tariff L.G.S.”

16. Referring to Page 6, Lines 18 – 30 of Mr. Willhite’s testimony, please identify how many industries there are in Duke Energy Kentucky’s service territory that operate 2<sup>nd</sup> and 3<sup>rd</sup> and weekend shifts.

17. Referring to Pages 7 – 8 of Mr. Willhite’s testimony, and the table on Page 8, where he discusses and displays the 24-hour monthly system peak day profiles for schools, Rate DS, and total system:

- (a) Please describe in detail how Mr. Willhite performed the calculations for the schools category.
- (b) What is the source of the information used by Mr. Willhite in making his calculations?

- (c) If these computations were performed in Excel or some other file, please provide the file electronically with all formulas intact.
- (d) Does witness Willhite believe that the monthly 24 hour load profiles for schools presented are statistically representative of all schools in Company's service area?
  - i. If the answer to part (d) is in the affirmative, please explain the basis of this belief.
- (e) Are the profiles representative of the schools witness Willhite intends to be eligible for the rate described on Page 8?

18. On Page 7, Lines 4 – 27 of witness Willhite's testimony, an explanation is provided on the development of a Cost of Service Study (COSS). Please provide a copy of the COSS performed by Mr. Willhite, in electronic format with all formulas intact.

19. Referring to Page 7, Lines 6 – 9, please identify by county and district, all school account load data used by Mr. Willhite in his COSS.

- (a) Please confirm whether Mr. Willhite only used load and demand data for school accounts located in the Company's service territory.

20. Please confirm that Mr. Willhite is proposing a P-12 rate class and tariff to be applicable for accounts with an average monthly demand of 50 kW or greater.

21. Please confirm that in performing his analysis on Pages 7 – 8 of his testimony, Mr. Willhite is only using school accounts that have an annual maximum demand of 100 kW or greater.

- (a) If the response is in the negative, please provide a schedule showing the number of accounts and demand profiles used by Mr. Willhite in his

COSS, identifying all accounts that have annual maximum demand less than 100 kW and those accounts with annual maximum demand greater than or equal to 100 kW.

- (b) If the response is in the positive, please explain how a COSS based upon accounts having an annual maximum demand of not less than 100 kW is representative of the customers Mr. Willhite is proposing to be eligible for Rate P – 12 (i.e., average monthly demands greater than 50 kW)?
- (c) Please provide any and all data, studies, and analysis that was performed by and/or relied upon by Mr. Willhite to verify that customers with maximum demands of 100 kW or greater is representative of customers with average monthly demands greater than 50 kW.

22. With regard to Mr. Willhite’s recommendation that the Commission order Duke Energy Kentucky to reopen rate SP, has Mr. Willhite quantified the number of sports fields in the Company’s service territory that are not currently on rate SP?

- (a) If the answer is in the affirmative, please provide such analysis.

23. Referring to Page 10 of Mr. Willhite’s testimony where he discusses the proposed SEMP, has Mr. Willhite conducted any study or analysis regarding the costs of Duke Energy Kentucky implementing and managing such a program?

- (a) If the response is in the affirmative, please provide all such analysis.

24. Has Mr. Willhite conducted any study or analysis to determine the rate impact to Duke Energy Kentucky’s customers for implementing the SEMP as part of the Company’s DSM program?

25. Is Mr. Willhite aware of any P-12 schools in Duke Energy Kentucky’s service

territory that are currently taking advantage of the Company's existing suite of DSM programs?

- (a) If the answer is in the affirmative, is Mr. Willhite aware if all P-12 schools are taking advantage of all possible DSM programs currently offered by Duke Energy Kentucky?

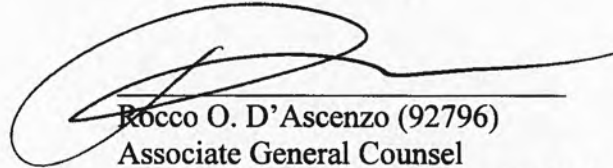
26. If Mr. Willhite's recommendation regarding the implementation of the SEMP as part of the Company's DSM program is ordered by the Commission and the Commission further orders the creation of a separate P-12 tariff, does Mr. Willhite agree that, in accordance with KRS 278.285(3), a separate DSM rate should also be established for the P-12 customer class for cost recovery of DSM programs that are only available to schools in the P-12 class?

- (a) If the response is in the negative, please explain why a separate DSM rate should not also be established.

27. What effects will it have on other customer classes if Duke Energy Kentucky participates in the SEMP?

28. Referring to Page 5 of Mr. Willhite's testimony, was billing data from all school districts within Duke Energy Kentucky's service territory used in the calculations? Please provide the data used.

Respectfully submitted,



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**CERTIFICATE OF SERVICE**

This is to certify that the foregoing electronic filing is a true and accurate copy of the document being filed in paper medium; that the electronic filing was transmitted to the Commission on January 17, 2018; that there are currently no parties that the Commission has excused from participation by electronic means in this proceeding; and that a copy of the filing in paper medium is being delivered via second day delivery to the Commission on the 17<sup>th</sup> day of January, 2018.

  
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