STITES & HARBISON PLLC

ATTORNEYS

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March 30, 2012

RECEIVED

MAR 3 0 2012

PUBLIC SERVICE COMMISSION Mark R. Overstreet (502) 209-1219 (502) 223-4387 FAX moverstreet@stites.com

HAND DELIVERED

Jeff R. Derouen Executive Director Public Service Commission 211 Sower Boulevard P.O. Box 615 Frankfort, KY 40602-0615

RE:

Case No. 2011-00450

Dear Mr. Derouen:

Enclosed please find the original and ten copies of Kentucky Power Company's Responses to Commission Staff's Second Set of Data Requests.

A copy of the Responses is being served on all persons on the attached service list.

Very truly yours,

STITES & HARBISON, PLLC

Mark R. Overstreet

MRO

cc: Persons On Attached Service List

Alexandria, VA

Atlanta, GA

Frankfort, KY

Jeffersonville, IN

Lexington, KY

Louisville, KY

Nashville, TN

Washington, DC

SERVICE LIST FOR PSC CASE NO. 2011-00450

Allen Anderson President/CEO South Kentucky RECC P.O. Box 910 Somerset, KY 42502-0910

Rocco O. D'Ascenzo Duke Energy Kentucky, Inc. P.O. Box 960 Cincinnati. OH 45201

Carol Hall Fraley President/CEO Grayson RECC 109 Bagby Park Grayson, KY 41143

Kerry K. Howard General Manager/CEO Licking Valley RECC P.O. Box 605 West Liberty, KY 41472

Burns E. Mercer President/CEO Meade County RECC P.O. Box 489 Brandenburg, KY 40108-0489

Sanford Novick President/CEO Kenergy Corporation P.O. Box 18 Henderson, KY 42419

William T. Prather President/CEO Famers RECC P.O. Box 1298 Glasgow, KY 42141-1298

Michael Williams President/CEO Blue Grass Energy Cooperative P.O. Box 990 Nicholasville, KY 40340-0990 Lonnie Bellar Vice President, State Regulation & Rates LG&E and KU Services Company 220 West Main Street Louisville, KY 40202

Paul G. Embs
President/CEO
Clark Energy Cooperative
P.O. Box 748
Winchester, KY 40392-0748

Ted Hampton President/CEO Cumberland Valley Electric, Inc. Highway 25E P.O. Box 440 Gray, KY 40734

James L. Jacobus President/CEO Inter-County Energy Cooperative P.O. Box 87 Danville, KY 40423-0087

Michael L. Miller President/CEO Nolin RECC 411 Ring Road Elizabethtown, KY 42701-6767

G. Kelly Nuckols President/CEO Jackson Purchase Energy Corporation P.O. Box 4030 Paducah, KY 42002-4030

Donald R. Schaefer President/CEO Jackson Energy Cooperative 115 Jackson Energy Lane McKee, KY 40447

Melissa D. Yates Denton & Keuler, LLP P.O. Box 929 Paducah, KY 42002-0929 Thomas C. Brite Brite & Hopkins, PLLC P.O. Box 309 Hardinsburg, KY 40143-0309

David Estepp President/General Manager Big Sandy RECC 504 11th Street Paintsville, KY 41240

Larry Hicks President/CEO Salt River Electric Cooperative P.O. Box 609 Bardstown, KY 40004

Debbie Martin President/CEO Shelby Energy Cooperative, Inc. 620 Old Finchville Road Shelbyville, KY 40065

Barry L. Myers Manager Taylor County RECC P.O. Box 100 Campbellsville, KY 42719

Chris Perry President/CEO Fleming-Mason Energy Cooperative P.O. Box 328 Flemingsburg, KY 41041

Mark Stallons President/CEO Owen Electric Cooperative, Inc. P.O. Box 400 Owenton, KY 40359

COMMONWEALTH OF KENTUCKY BEFORE THE



PUBLIC SERVICE COMMISSION OF KENTUCKY

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PUBLIC SERVICE COMMISSION

IN THE MATTER OF

AN INVESTIGATION OF THE RELIABILITY MEASURES OF KENTUCKY'S JURISDICTIONAL ELECTRIC DISTRIBUTION UTILITIES

) Administrative Case) No. 2011-00450

RESPONSES OF KENTUCKY POWER COMPANY TO COMMISSION STAFF'S SECOND SET OF DATA REQUESTS

March 30, 2012

VERIFICATION

The undersigned Larry J. Pemberton, being duly sworn, deposes and says he is the Manager, Region Support for Kentucky Power Company, that he has personal knowledge of the matters set forth in the forgoing data requests and the information contained therein is true and correct to the best of his information, knowledge, and belief.

	Larry J. Pemberton
COMMONWEALTH OF KENTUCKY)) CASE NO. 2011-00450
COUNTY OF BOYD) CASE NO. 2011-00430

Subscribed and sworn to before me, a Notary Public in and before said County and State, by, Larry J. Pemberton, this the 27 day of March 2012.

Notary Public

My Commission Expires:

KPSC Case No. 2011-00450 Commission Staff's Second Set of Data Requests Order Dated March 15, 2012 Item No. 1 Page 1 of 3

Kentucky Power Company

REQUEST

The following questions relate to the use of a five-year average of System Average Interruption Duration index ("SAIDI"), System Average Interruption Frequency Index ("SAIFI"), and Customer Average Interruption Duration Index ("CAIDI") on a circuit basis as a benchmark to determine the relative reliability of an individual circuit.

- a. In your opinion, is it reasonable for the Commission to require each utility to develop and report a five-year average SAIDI on a circuit-by-circuit basis as a benchmark for comparison purposes? Explain your answer.
- b. In your opinion, is it reasonable for the Commission to require each utility to explain why a particular circuit has a higher SAIDI than the utility's five-year average SAIDI for that circuit? Explain your answer.
- c. In your opinion, is it reasonable for the Commission to require each utility to explain the planned corrective measures for the circuit with a higher SAIDI than the five-year average? Explain your answer.
- d. In your opinion, is it reasonable for the Commission to require each utility to develop and report a five-year average SAIFI on a circuit-by-circuit basis as a benchmark for comparison purposes? Explain your answer.
- e. In your opinion, is it reasonable for the Commission to require each utility to explain why a particular circuit has a higher SAIFI than the utility's five-year average SAIDI for that circuit? Explain your answer.
- f. In your opinion, is it reasonable for the Commission to require each utility to explain the planned corrective measures for the circuit with a higher SAIFI than the five-year average? Explain your answer.

KPSC Case No. 2011-00450 Commission Staff's Second Set of Data Requests Order Dated March 15, 2012 Item No. 1 Page 2 of 3

- g. In your opinion, is it reasonable for the Commission to require each utility to develop and report a five-year average CAIDI on a circuit-by-circuit basis as a benchmark for comparison purposes? Explain your answer.
- h. In your opinion, is it reasonable for the Commission to require each utility to explain why a particular circuit has a higher CAIDI than the utility's five-year average SAIDI for that circuit? Explain your answer.
- i. In your opinion, is it reasonable for the Commission to require each utility to explain the planned corrective measures for the circuit with a higher CAIDI than the five-year average? Explain your answer.

RESPONSE

- a. It is certainly possible to develop a report to display 5 year averages for each circuit. This information could be utilized to develop trends over a period of time however a circuit's performance for any given year can be highly variable due to events such as storms which are beyond our control. However, using this data other than to develop trends would be unreasonable due to the statements in parts b and c.
- b. We presently report the 10 Worst Performing Circuits (WPC) for SAIDI and SAIFI for each year. These 10 circuits represent about 5% of our total number of distribution circuits. If this is changed to reporting on every circuit which exceeds a 5 year average, then we could expect on an average year that half of our circuits would be above the average and half would be below the average. This may require us to report on 50% of our circuits and thus greatly increase the amount of engineering time required to do the analysis. We believe this requirement would be unreasonable.
- c. Developing corrective plans for 50% of our circuits will greatly increase the amount of engineering time required compared to developing plans for 10 WPC's. In addition the planned corrective measures for this many circuits would likely exceed our budget capabilities to implement such plans so we believe this requirement would be unreasonable on the Commission's part.
- d. Please see the Company's response to part a.
- e. It is not reasonable to compare SAIFI to the five-year average SAIDI for a circuit, as in the request. However, if the request was to compare the SAIFI and its five-year average, please see the Company's response to part b.

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- f. Please see the Company's response to part c.
- g. Please see the Company's response to part a.
- h. It is not reasonable to compare CAIDI to the five-year average SAIDI for a circuit, as in the request. However, if the request was to compare the CAIDI and its five-year average, please see the Company's response to part b.
- i. The current Commission requirements do not include an analysis of the 10 Worst Performing circuits for CAIDI. Kentucky Power agrees with the current requirements and believes the inclusion of CAIDI would be unreasonable at this time.

KPSC Case No. 2011-00450 Commission Staff's Second Set of Data Requests Order Dated March 15, 2012 Item No. 2 Page 1 of 1

Kentucky Power Company

REQUEST

KRS 61.870 through KRS 62.884 address open records of public agencies and 807 KAR 5:001, Section 7, pertains to confidential material submitted to the Commission. Do you anticipate that some information submitted concerning the utility's circuits, whether with regard to SAIDI, SAIFI, CAIDI, or other reporting, could contain confidential, proprietary, or critical infrastructure information for which a petition for confidential information may also be submitted? Explain your answer. In your answer, provide examples of the type of information for which you may seek confidential protection.

RESPONSE

At this time Kentucky Power Company does not believe that the submittal of this information would require confidential protection. However, the Company believes that this information is not useful to customers and may result in customer confusion as to what it represents.

KPSC Case No. 2011-00450 Commission Staff's Second Set of Data Requests Order Dated March 15, 2012 Item No. 3 Page 1 of 1

Kentucky Power Company

REQUEST

Please describe your utility's current capacity to compose electronic documents.

- a. Is the utility familiar with or currently using Microsoft Office products such as MS Word or Excel? If so, include the name and version(s) of the software currently used.
- b. Describe your utility's current internet connectivity status, including connection speed.
- c. Is the utility familiar with the Commission's website?
- d. Has your utility registered on the PSC website and does it have a valid username and password? (This registration would currently be used for Electronic Case Filing, Annual Reports, and Tariff Filings).
- e. If recommended, would your utility have technical staff available to interface with the PSC Information Services Team to assist in the design and implementation of an automated process for uploading data to the Commission?

RESPONSE

- a. Yes, Kentucky Power is currently using Microsoft Office 2003 Professional which includes MS Word and Excel.
- b. Frankfort has DS1 connectivity at 1.0 Mbps; Ashland has OC3 ethernet connectivity at 96.7 Mbps; Hazard has ethernet connectivity at 6.4 Mbps; Pikeville has ethernet connectivity at 9.6 Mbps; Paintsville has ethernet connectivity at 1.5 Mbps; and Whitesburg has ethernet connectivity at 1.5 Mbps.
- c. Yes, Kentucky Power is familiar with the Commission's website.
- d. Yes.
- e. Yes.

KPSC Case No. 2011-00450 Commission Staff's Second Set of Data Requests Order Dated March 15, 2012 Item No. 4 Page 1 of 2

Kentucky Power Company

REQUEST

The following questions relate to the manner by which the utility tracks SAIDI, SAIFI, and CAIDI as stated in response to Items 2. (a) and (b) of the Commission's Order of January 11, 2012.

- a. This question applies to Kentucky Power Company ("Kentucky Power"), Big Sandy Rural Electric Cooperative Corporation, Blue Grass Energy Cooperative Corporation, Clark Energy Cooperative, Inc., Duke Energy Kentucky, Inc. ("Duke"), Farmers Rural Electric Cooperative Corporation, Fleming-Mason Energy Cooperative, Inc., Grayson Rural Electric Cooperative Corporation, Inter-County Energy Cooperative Corporation, Jackson Energy Cooperative Corporation, Jackson Purchase Energy Corporation, Kenergy Corp., Kentucky Utilities Company ("KU"), Louisville Gas and Electric Company ("LG&E"), Meade County Rural Electric Cooperative Corporation, Nolin Rural Electric Cooperative Corporation, Owen Electric Cooperative, Inc., Salt River Electric Cooperative Corporation, Shelby Energy Cooperative, Inc., South Kentucky Rural Electric Cooperative Corporation, and Taylor County Rural Electric Cooperative Corporation all of which reported that they tracked SAIDI, SAIFI, and CAIDI using an outage management system or an outage management system in conjunction with an Excel spreadsheet.
 - (1) Does your utility have the ability to export (or upload) the data to another data base or data system (including an Excel spreadsheet) maintained by the Commission? If not, explain why.
 - (2) If not identified elsewhere, identify the file formats to which your utility has the ability to export data.
- b. This question applies to Cumberland Valley Electric, Inc. and Licking Valley Rural Electric Cooperative Corporation, who reported that they tracked SAIDI, SAIFI, and CAIDI manually. Does your utility have the ability to export (or upload) the data to another data base or data system (including an Excel spreadsheet) maintained by the Commission? If not, explain why.

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RESPONSE

- a. (1) Kentucky Power does have the ability to export data from its outage history database. Depending on the required format, the Company should be able to upload this data to a data system maintained by the Commission.
 - (2) This data is typically exported in an Excel format, but the Company can provide the information in most commonly used formats.
- b. N/A.

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KPSC Case No. 2011-00450 Commission Staff's Second Set of Data Requests Order Dated March 15, 2012 Item No. 8 Page 1 of 1

REQUEST

Explain how the SAIDI, SAIFI, and CAIDI indices influence the allocation of capital for system improvement projects within the utility. For the Investor-Owned Utilities Kentucky Power, Duke, KU, and LG&E, explain the manner in which the parent company influences the amount and allocation of capital for system reliability improvements

RESPONSE

Kentucky Power's parent company (AEP) does not directly establish the capital budget for Kentucky Power system reliability projects. Instead, AEP establishes a total annual capital budget for the entire AEP operating system. Each operating entity then submits a proposed capital budget. If the sum of all of the AEP operating entities capital budgets exceeds the AEP target for the entire system then the operating entities and AEP discuss adjustments to meet the AEP target.

Kentucky Power Company develops its capital budget for submission to AEP from the bottom up for each of the three functional areas (Generation, Transmission, and Distribution) of the Company. The three functional area budgets are combined and the total is submitted to AEP. Reliability related capital projects can be included within any of the three functional areas. The Company's budgeted capital expenditures include not only reliability projects, but also capital expenditures to establish customer service, capacity increases, public project relocations, third party requests, and storm restoration to name a few. As with any budget, these competing demands must be balanced.

The reliability indices are among the factors the Company considers in allocating distribution capital dollars. In addition to the reliability indices, the company considers other factors including which project is expected to provide the biggest improvement in reliability per dollar of cost. The amount of capital dollars allocated to reliability projects may fluctuate from year to year depending upon the level of capital investment required in other areas of Kentucky Power's operations, as well as the nature and extent of the reliability issues confronting the Company.

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Kentucky Power Company

REQUEST

Does the utility currently share other types of data with entities outside your organization? If yes, describe those other sharing systems and data, and with whom your utility shares the information.

RESPONSE

Kentucky Power outage and reliability data is shared with all AEP operating companies. This data is occasionally shared with organizations outside of AEP such as Institute of Electrical and Electronics Engineers (IEEE) and Southeast Electrical Exchange (SEE) in confidential, blind benchmark studies.

KPSC Case No. 2011-00450 Commission Staff's Second Set of Data Requests Order Dated March 15, 2012 Item No. 10 Page 1 of 1

Kentucky Power Company

REQUEST

Identify any disadvantages to making the reliability index numbers available on the Commission's website.

RESPONSE

The fact that most customers may not know their circuit identifier may lead to many unnecessary and unproductive inquiries. These inquiries may require additional resources or cause resources to be diverted from other activities.

Reliability indices are management tools. Knowledge of a particular circuit's reliability, either in isolation or compared to other circuits, does not provide the customer with useful information.

Reliability indices must be evaluated in light of the factors which can cause the circuits to perform differently. Customers may try to directly compare the reliability indices of one circuit to another circuit without knowing the factors which can naturally cause the circuits to perform differently. Some of these factors include urban versus rural, underground versus overhead, ties to other circuits versus no ties, etc. Most customers are unlikely to have this information.

Indices are averages, and each individual customer's actual experience may differ greatly from the circuit performance. For example, a customer in the station breaker zone can expect to see fewer outages than a customer who is beyond multiple line protection devices.

KPSC Case No. 2011-00450 Commission Staff's Second Set of Data Requests Order Dated March 15, 2012 Item No. 11 Page 1 of 1

Kentucky Power Company

REQUEST

Identify any advantages to making the reliability index numbers available on the Commission's website.

RESPONSE

At this time, Kentucky Power has not identified any advantages to making the reliability index numbers available on the Commission's website.

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KPSC Case No. 2011-00450 Commission Staff's Second Set of Data Requests Order Dated March 15, 2012 Item No. 12 Page 1 of 1

Kentucky Power Company

REQUEST

In your opinion, what information would the utility's customers be most interested in having easily accessible? In your opinion, is it more appropriate to have this information available by circuit or system averages? How does your utility relay reliability information to your customers? Explain your answers.

RESPONSE

In the Company's experience, customers are most interested in reliability information that relates to their specific location. However, the Company cannot provide information to that level of detail. The Company can only provide information on a circuit average which may lead to confusion.

Most customers inquire about a current outage situation. They want to know when service will be restored, and that information is already available on Kentucky Power's website.

System averages for each district or area are as appropriate as circuit averages. Neither average exactly describes the customer's actual experience. Also few customers know from which circuit they are served; this information would have to be conveyed to customers in some manner for the circuit indices to make any sense to customers.

KPSC Case No. 2011-00450 Commission Staff's Second Set of Data Requests Order Dated March 15, 2012 Item No. 13 Page 1 of 1

Kentucky Power Company

REQUEST

If not identified elsewhere, describe the reliability information available for public review on your utility's website.

RESPONSE

Information pertaining to existing outages is available on Kentucky Power's website. Reliability indices information is not available.

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Kentucky Power Company

REQUEST

If the utility's customer requests information from the utility on reliability measures, do you provide it? Explain your answer.

RESPONSE

Upon request, Kentucky Power Company does provide reliability information to its customers. This typically takes the form of outage data affecting their individual service.

KPSC Case No. 2011-00450 Commission Staff's Second Set of Data Requests Order Dated March 15, 2012 Item No. 15 Page 1 of 1

Kentucky Power Company

REQUEST

Does the utility have a suggestion for a better or more efficient method or manner for reporting or providing reliability information to the public?

RESPONSE

As provided in the response to Item 13, Kentucky Power Company does not provide reliability information to the public on its website. Upon request, Kentucky Power does provide individual outage history information to customers but not to the public at large.