


CLARK ENERGY

A Touchstone Energy Cooperative 

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

In the Matter of:

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

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ADMINISTRATIVE
CASE NO. 2011-00450

RECEIVED

FEB 08 2012

PUBLIC SERVICE
COMMISSION

Reported by: Clark Energy Cooperative, Winchester, Kentucky

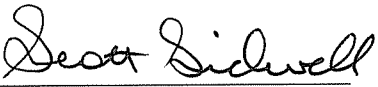
CERTIFICATE OF PREPARATION

STATE OF KENTUCKY)

COUNTY OF CLARK)

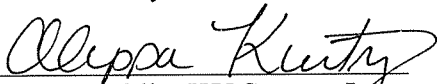
This letter is to certify that I, Scott Sidwell, Sr. V.P. of Engineering & Operations for Clark Energy Cooperative in Winchester, Kentucky, completed this report and do attest the information contained within this response is true, accurate to the best of my knowledge, information, and belief formed after a reasonable inquiry.

This 7 day of February, 2012



Scott Sidwell

Witnessed by



Notary Public, KY State at Large

My Commission Expires _____ MY COMMISSION EXPIRES SEPTEMBER 8, 2012

APPENDIX

APPENDIX TO AN ORDER OF THE KENTUCKY PUBLIC SERVICE
COMMISSION IN ADMINISTRATIVE CASE NO. 2011-00450, DATED JAN.11TH, 2012

1. The following questions relate to the data maintained by each utility.

a. Identify the number of circuits currently maintained by the electric utility.

Response: Clark Energy maintains 71 substation circuits

b. Does the utility calculate separate SAIDI, SAIFI, and CAIDI indices for each circuit?

If no, explain why not and explain the degree to which the utility tracks the following:

(1) SAIDI;

(2) SAIFI; and

(3) CAIDI

Response: Yes, Clark Energy calculates SAIDI, SAIFI and CAIDI for each substation circuit

c. Identify any other reliability indicator or measure the utility uses to assess reliability.

Explain the significance of each indicator or measure used. Does the utility maintain these indicators or measures from each circuit?

Response: Clark Energy uses only SAIDI, SAIFI and CAIDI indices as a reliability indicator.

2. The following questions refer to the manner in which each utility calculates and tracks the SAIDI, SAIFI and CAIDI indices.

a. Identify the manner in which the indices are calculated and tracked; i.e., manually (excel spread sheet), or an electronic or mechanized (outage reporting) system.

Response: Clark Energy uses Milsoft's outage management software (OMS) to track and calculate outages. Each month outages are exported into an excel spread sheet to convert the data into the IEEE (MED) format.

b. If the response to item 2.a. above is electronic or mechanized, provide a description of the system and explain whether it was developed internally or purchased from a third-party vendor. If purchased from a third-party vendor, provide the name of the vendor and an estimate of the original cost of the system.

Response: The excel spreadsheet that Clark Energy uses to convert data from OMS to the IEEE standard format was developed internally.

c. If the response in item 2.a. above is manually, provide a description of the elements tracked. Discuss in detail any inquiry made into the internal development of an electronic or mechanized system or any consideration of the purchase of a system from a third party vendor.

Response: N/A

3. Concerning SAIDI, SAIFI and CAIDI reporting; the Commission directed that the reporting be based on the criteria and definitions set forth in this IEEE Standard.

a. If the utility does not follow the IEEE standard, explain why not. Explain what standard(s) the utility does follow in its calculation of SAIDI, SAIFI and CAIDI.

Response: Clark Energy does follow the IEEE (MED) standard.

b. Does the utility track and review SAIDI, SAIFI and CAIDI monthly, quarterly or annually?

Response: SAIDI, SAIFI, and CAIDI indices are tracked and reviewed monthly

c. Are SAIDI, SAIFI and CAIDI tracked on a rolling 12-month period or for a more discrete period of time; i.e., monthly, quarterly or annually?

Response: These indices are tracked on a calendar year.

d. Currently, in each annual report submitted pursuant to the Final Order in Case No. 206-00494, each utility provides system-wide SAIDI, SAIFI and CAIDI calculated for a calendar year. Identify any other preferred 12-month reporting parameter, i.e., calendar year, fiscal year, or some other 12-month method.

Response: Clark Energy prefers using the existing method of a calendar year.

e. Does the utility review SAIDI, SAIFI and CAIDI by any discrete fashion such as division, district, region or some other method?

Response: No

4. The following questions relate to the requirements that each utility report the ten top worst-performing circuits for each index in the annual report submitted pursuant to the Final Order in Case No. 2006-00494.

a. If the utility does not track SAIDI, SAIFI and CAIDI for each circuit, explain how the ten worst-performing circuits are defined.

Response: N/A

b. Does the utility see benefit in expanding the reporting of the worst-performing circuits to the 15 or 20 worst-performing circuits for each index?

Response: No

c. Identify any alternative to reporting the ten worst-performing circuits that the utility utilizes to determine system reliability.

Response: Clark Energy uses the ten worst-performing circuits to determine system reliability and knows of no alternative ways that would be better.

5. The following questions relate to the identification of the ten worst-performing circuits for each index.

a. Provide an explanation of the actions taken by the utility once the ten worst-performing circuits for each index have been identified. Include the typical steps taken to correct the reliability issues relating to the ten worst-performing circuits.

Response: An in-depth analysis of the ten worst performing circuits is preformed looking for root causes or recurring problems and from this analysis determinations are made about which plan of action should be taken. Comparisons are made with past history of worst performing circuits to determine trends. System maintenance personnel from the affected areas also review this data and make recommendations on ways to improve reliability on the circuits.

b. Provide a timeline of the typical steps taken to correct reliability issues relating to the ten worst-performing circuits for each index.

Response: It is difficult to provide a timeline on corrective measures since outage causes can be so varied. Simple problems are fixed within days while circuit clearing of the right-of-way may take months and work plan projects even longer.

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