An Investigation of the Reliability Measures of Kentucky's Jurisdictional Electric Distribution Utilities

Administrative Case No. 2011-00450

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Licking Valley Rural Electric Cooperative Corporation

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

ADMINISTRATIVE CASE NO. 2011-00450

Licking Valley Rural Electric Cooperative Corporation
KY 56 Morgan

Prepared by:

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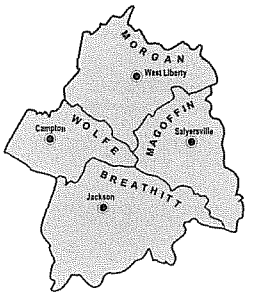

February 07, 2012

Director of Engineering
Public Service Commission
211 Sower Boulevard
P.O. Box 615
Frankfort, KY 40602

Dear Sir:

Enclosed you will find the information requested in Case No. 2011-00450. The information enclosed is Licking Valley Rural Electric Cooperative Corporation's response to, "An Investigation of the Reliability Measures of Kentucky's Jurisdictional Electric Distribution Utilities".

If additional information is needed, please advise.

Sincerely,

Tommy Conley

Tommy Conley
Superintendent of Operations

TC:oh

Licking Valley Rural Electric Cooperative Corporation

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Licking Valley Rural Electric Cooperative Corporation
Response
Item 1

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

Licking Valley RECC currently maintains thirty five (35) 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: SAIDI, SAIFI, and CAIDI.

Licking Valley RECC has not in the past calculated SAIDI, SAIFI, and CAIDI indices by circuit. We failed to understand that the commission "required" us to figure these by circuit, however as of January 01, 2012, Licking Valley RECC is calculating these by circuit, by day, and by cause of outage. Licking Valley RECC tracks SAIDI, SAIFI, and CAIDI by month per system-wide.

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 for each circuit?

Licking Valley RECC's Superintendent has a meeting each morning before work with all the maintenance and outage dispatch personnel, at which time all outages are discussed that occurred the previous day and night. If a problem persists on a particular circuit then at that time maintenance personnel are sent to said circuit to check all lines and equipment and to make repairs immediately to any problem found that might be the cause of re-occurring problems.

Licking Valley Rural Electric Cooperative Corporation
Response
Item 2

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.

Licking Valley RECC calculates the indices by month, cause, and system- wide. SAIDI, SAIFI, and CAIDI are calculated by hand.

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 vender. If 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.

Licking Valley RECC calculates the SAIDI, SAIFI, and CAIDI by hand. A system of calculating the indices was developed internally with instructions from the recommendations of the IEEE Standard.

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.

Licking Valley RECC calculates the indices per month and by cause of outage. Licking Valley has considered and discussed the possibility of purchasing an outage system from a third-party vendor but a decision has not been made at this time.

Licking Valley Rural Electric Cooperative Corporation
Response
Item 3

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.

Licking Valley RECC calculates the indices based on the criteria and definitions set forth in the IEEE Standard.

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

Licking Valley RECC tracks SAIDI, SAIFI, and CAIDI 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?

Licking Valley RECC tracks SAIDI, SAIFI, and CAIDI monthly, and provides year to date calculations on same form.

d. Currently, in each annual report submitted pursuant to the Final Order in Case No. 2006-00494, 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.

Licking Valley RECC calculates SAIDI, SAIFI, and CAIDI per calendar year. This method of calculating works well with us and we feel no need to change our method.

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

Licking Valley RECC reviews SAIDI, SAIFI, and CAIDI on a system-wide basis, being a small co-op allows us the ability to review these indices daily in a pre-work meeting.

Licking Valley Rural Cooperative Corporation
Response
Item 4

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

Licking Valley RECC's superintendent has a meeting with maintenance and dispatch personnel before work each morning in order to discuss outages that occurred the previous day and night. If outages are reported in one certain area more than twice, then maintenance is sent immediately to that area to find any problem with lines or equipment that might be causing the outages and are repaired immediately.

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?

Licking Valley RECC would not benefit from the expansion of worst-performing circuits for each index since we maintain only thirty-five (35) circuits.

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

Licking Valley RECC feels the current method required by the commission would work the best in reporting.

Licking Valley Rural Cooperative Corporation
Response
Item 5

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 for each index.

As in response to 4.a., If an outage is reported more than twice on any one line, then maintenance is sent to that area immediately to check lines and equipment to determine any problems that might be causing outages and are repaired immediately.

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

Refer to response to Item 4.a. and Item 5.a.

I, Tommy Conley, Superintendent of Operations for Licking Valley Rural Electric Cooperative Corporation, have answered the response presented to me and is true and accurate to the best of my knowledge, information, and belief.

Tommy Conley
Superintendent of Operations

2-7-2012
Date