

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

THE APPLICATION OF LICKING VALLEY)
RURAL ELECTRIC COOPERATIVE CORPORATION) CASE NO.
FOR A CERTIFICATE OF PUBLIC CONVENIENCE) 96-153
AND NECESSITY TO CONSTRUCT A FOUR (4))
YEAR WORK PLAN)

O R D E R

IT IS ORDERED that Licking Valley Rural Electric Cooperative Corporation ("Licking Valley") shall file the original and five copies of the following information with the Commission with a copy to all parties of record within 21 days from the date of this Order. Licking Valley shall furnish the name of the witness who will respond at the public hearing, if one is held, to questions concerning each item of information.

1. Licking Valley filed voltage drop studies based on 1995 loads using existing system circuitry and 1999 loads using existing system circuitry in response to the Commission's Order dated June 25, 1996. However, these voltage drop studies did not show the substation name and feeder numbers to which line sections belong.

a. Provide the voltage drop studies requested by the Order of June 25, 1996 and clearly identify the name and feeder numbers of the substations and their line sections. Also, these studies shall be performed with voltage regulators being in service.

b. The voltage drop study based on the existing system with February 1995 loads shows the conductor size for line section 781, 344, 346, and 350 as 4A.

However, on page 15 of the Work Plan, these line sections are recommended to be converted from three phase 1/0 ACSR to 336.4 MCM ACSR.

(1) Are these existing line sections 1/0 ACSR or 4A?

(2) If they are 1/0, would you agree that the voltage drop study should reflect the correct conductor sizes? If no, explain.

(3) Provide a revised copy which reflects the correction. Explain whether conversion to 336.4 MCM ACSR is needed in the next four years.

2. Refer to Exhibit 2, page 110-113 of the Work Plan entitled, Mini-Max Readings.

a. Provide the substation name and line section where every Mini-Max Reading listed on page 110-113 is taken on your system.

b. Have you compared the February 1995 readings to the calculated voltage drops based on existing system with February 1995 loads?

(1) If yes, do the calculated voltage drops differ from the Mini-Max Readings by more than two volts? If yes, explain the reason for the difference.

(2) If no, explain why a comparison is not necessary.

3. Refer to your response to question 2 of the Commission's Order dated June 25, 1996. You stated, "Attached are Exhibits One (1) through Three (3) in support of requested information." However, there were no Exhibits One (1) through Three (3) filed with your response. File these exhibits.

4. Refer to Exhibit 2, page 49 of 165 of the Work Plan entitled, "HELECHAWA SUBSTATION NUMBER 3." You are proposing to convert line sections 457, 456, 455,

453, 451, 447, and 614 from three phase 3/0 ACSR to three phase 336.4 MCM ACSR at an estimated cost of \$588,500.

- a. When was the three phase 3/0 ACSR installed?
- b. What was the KW load reading on this feeder for February 1995?

Also, provide the 1999 projected load on this feeder.

- c. Provide the KW load monthly readings on this feeder from March 1995 through June 1996.

- d. Provide all alternatives and their costs considered instead of the conversion to the three phase 336.4 MCM ACSR. Explain the reasons for rejecting them.

5. Refer to Exhibit 2, page 55 of 165 of the Work Plan entitled, "SUBLETT SUBSTATION NUMBER 6." You are proposing to convert line sections 558, 542, and 541 from three phase 3/0 ACSR to three phase 336.4 MCM ACSR at an estimated cost of \$187,000.

- a. When was the three phase 3/0 ACSR installed?
- b. What was the KW load reading on this feeder for February 1995?

Also, provide the 1999 projected load on this feeder.

- c. Provide the KW load monthly readings on this feeder from March 1995 through June 1996.

- d. Provide all alternatives and their costs considered instead of the conversion to the three phase 336.4 MCM ACSR. Explain the reasons for rejecting them.

Done at Frankfort, Kentucky, this 15th day of August, 1996.

PUBLIC SERVICE COMMISSION


Ayida K. Breathitt
For the Commission

ATTEST:


Don Mills
Executive Director