

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

SOUTH KENTUCKY RURAL ELECTRIC COOPERATIVE)
CORPORATION)
)
_____) CASE NO. 94-519
)
ALLEGED VIOLATIONS OF COMMISSION)
REGULATIONS 807 KAR 5:006 AND 807 KAR)
5:041)

O R D E R

South Kentucky Rural Electric Cooperative Corporation ("South Kentucky"), a Kentucky corporation which engages in the distribution of electricity to the public for compensation for light, heat, power, and other uses, and which was formed under KRS 279.010 to 279.220, is a utility subject to Commission jurisdiction. KRS 278.010; KRS 279.210.

KRS 278.280(2) directs the Commission to prescribe rules and regulations for the performance of services by utilities. Pursuant to this statutory directive, the Commission promulgated Commission Regulation 807 KAR 5:041, Section 3, which requires electric utilities to maintain their plant and facilities in accordance with the standards of the National Electrical Safety Code (1990 edition) ("NESC"). It also promulgated Commission Regulation 807 KAR 5:006, Section 24, which requires a utility to adopt and execute a safety program.

Commission Staff has submitted to the Commission an Electrical Utility Accident Investigation Report dated June 6, 1994, appended hereto, which alleges:

1. On February 14, 1994, Ricky Bowling was injured while performing repairs near an energized 7200 volt line in the Conley Bottom Resort Area of Wayne County, Kentucky. Bowling came into contact with the 7200 volt line and suffered burns to his hands.

2. At the time of the incident, Bowling, Jerry New, Jeff Perkins, Norman Hargis, Ray Glen Dick, and Lewis East were repairing utility facilities which had been damaged during an ice storm.

3. Before beginning his repair work, Bowling did not test the 7200 volt line to determine if it was de-energized nor did he cover the line with a protective device.

4. At the time of the incident, Bowling was neither wearing protective clothing nor using protective equipment.

5. At the time of the incident, Bowling, New, Perkins, Hargis, and Dick were employees of South Kentucky and acting within the scope of their employment.

6. At the time of the incident, East was in charge of the work crew.

7. NESC 420D requires employees to consider electric supply equipment and lines to be energized, unless they are positively known to be de-energized. It further requires that employees, before starting work, perform preliminary inspections or tests to determine existing conditions.

8. American Public Power Association Safety Manual (Eighth edition) ("APPA") Rule 502a prohibits employees from touching or working on any energized lines or apparatus except when wearing approved protective equipment approved for the voltage to be contacted.

9. APPA Rule 502b requires that, when work is to be done on or near energized lines, all energized and grounded conductors or guy wires within reach of any part of the body while working shall be covered with rubber protective equipment, except that part of the conductor on which the employee is to work.

10. South Kentucky has adopted the APPA as part of its safety program.

11. Bowling failed to comply with NESC Sections 420D and APPA Rules 502a and 502b.

12. East failed to see that all safety and operating procedures were observed by those under his direction. His failure is a violation of NESC Rule 421A which requires a person in charge to adopt such precautions as are within his authority to prevent accidents and to see that all safety rules and operating procedures are observed by those under his direction.

13. As a result of these failures, South Kentucky is in probable violation of Commission Regulations 807 KAR 5:006, Section 24, and 807 KAR 5:041, Section 3.

Based on its review of the Electrical Utility Accident Investigation Report and being otherwise sufficiently advised, the Commission finds that prima facie evidence exists that South

Kentucky has failed to comply with Commission Regulations 807 KAR 5:006, Section 24, and 807 KAR 5:041, Section 3.

The Commission, on its own motion, HEREBY ORDERS that:

1. South Kentucky shall appear before the Commission on March 3, 1995, at 10:00 a.m., Eastern Standard Time, in Hearing Room 1 of the Commission's offices at 730 Schenkel Lane, Frankfort, Kentucky, for the purpose of presenting evidence concerning the alleged violations of Commission Regulation 807 KAR 5:006, Section 24, and 807 KAR 5:041, Section 3, and of showing cause why it should not be subject to the penalties prescribed in KRS 278.990(1) for these alleged violations.

2. South Kentucky shall submit to the Commission, within 20 days of the date of this Order, a written response to the allegations contained in the Electrical Utility Accident Investigation Report.

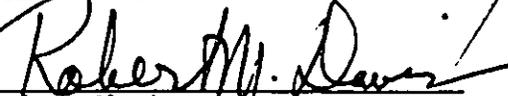
3. The Electrical Utility Accident Investigation Report of June 6, 1994, a copy of which is appended hereto, is made part of the record of this proceeding.

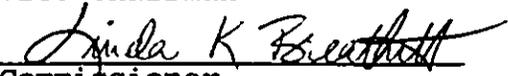
4. Any motion requesting any informal conference with Commission Staff to consider any matter which would aid in the handling or disposition of this proceeding shall be filed with the Commission no later than 20 days from the date of this Order.

Done at Frankfort, Kentucky, this 21st day of December, 1994.

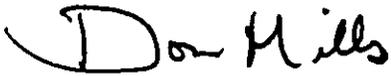
PUBLIC SERVICE COMMISSION


Chairman


Vice Chairman


Commissioner

ATTEST:


Executive Director

APPENDIX A

AN APPENDIX TO AN ORDER OF THE PUBLIC SERVICE COMMISSION OF KENTUCKY
IN CASE NO. 94-519 DATED DECEMBER 21, 1994

ELECTRICAL UTILITY ACCIDENT INVESTIGATION

DATE OF THIS REPORT June 6, 1994 SUBMITTED BY Robert Ueltschi
NAME OF UTILITY South Kentucky RECC
ACCIDENT REPORTED BY Mr. Marshall Cox
DATE & TIME ACCIDENT OCCURRED 2/14/94 - Approx. 3:20 P.M.
DATE & TIME UTILITY LEARNED OF ACCIDENT 2/14/94 - 3:35 P.M.
DATE & TIME ACCIDENT REPORTED 2/14/94 - 4:35 P.M.
DATE OF ACCIDENT INVESTIGATION 2/15/94
DATE SUMMARY WRITTEN REPORT WAS RECEIVED FROM UTILITY 2/18/94
PERSONS ASSISTING IN THE INVESTIGATION Mr. Eddie Owens and Mr.
Marshall Cox - South Kentucky RECC and Robert Ueltschi - PSC
NAME OF VICTIM(S) Ricky Bowling SEX M AGE 36
FATAL No NAME OF EMPLOYER South Kentucky RECC
INJURIES Burns to both hands - entry right hand and exit left
hand.
LOCATION OF ACCIDENT SITE Conley Bottom Resort Area in Wayne Co.,
off the Smith-McCless Road
DESCRIPTION OF ACCIDENT Mr. Ricky Bowling, assisted by Mr. Jerry
New, was working on a power outage caused by an ice storm. Mr.
Bowling came in contact with a single phase 7200 volt power line
and received burns and electrical shock.
SOURCE OF INFORMATION Mr. Eddie Owens and Mr. Marshall Cox - South
Kentucky RECC

ELECTRICAL UTILITY ACCIDENT INVESTIGATION (Continued)

PROBABLE VIOLATIONS OF COMMISSION REGULATIONS Mr. Lewis East,
service foreman for South Kentucky RECC was in charge of the repair
work due to the ice storm damage. The evidence obtained from this
investigation indicates that the energized 7200 volt phase at the
point of accident was not covered with a protective device. It was
also discovered during the investigation that the energized phase
was not grounded and that Mr. Bowling was not wearing protective
rubber gloves. Mr. East was in probable violation of 807 KAR
5:041, Section 3(1). Acceptable standards 1990 NESC, Section 42
(421A(1) and (2)), duties of a first level supervisor or person in
charge. Mr. Bowling was in probable violation of 807 KAR 5:041,
Section 3(1) acceptable standards 1990 NESC, Section 42 (420 D)
energized or unknown conditions. Additionally, Mr. Bowling is in
probable violation of South Kentucky RECC's safety manual,
502(a)(b) Flexible Protective Equipment and 516(a) Grounding-
General.

CORRECTIVE ACTION None

ELECTRICAL UTILITY ACCIDENT INVESTIGATION (Continued)

LINE CLEARANCES

	<u>As Measured</u>	<u>Minimum Allowed by NESC (1987)</u>
A. AT POINT OF ACCIDENT		
Phase conductors to ground elevation:	<u>28' - 8 1/2"</u>	<u>15' - 0"</u>
Neutral conductor to ground elevation:	<u>25' - 3"</u>	<u>15' - 0"</u>
Communication conductor to ground elevation:	T.V. <u>20' - 9"</u> Telephone <u>17' - 3"</u>	<u>15' - 0"</u> <u>15' - 0"</u>
Phase conductor to structure:	<u>N/A</u>	<u>N/A</u>
Neutral conductor to structure:	<u>N/A</u>	<u>N/A</u>
Communication conductor to structure:	<u>N/A</u>	<u>N/A</u>
B. AT LOWEST POINT OF SPAN		
Phase conductor to ground elevation:	<u>23' - 1"</u>	<u>15' - 0"</u>
Neutral conductor to ground elevation:	<u>20' - 7"</u>	<u>15' - 0"</u>
Communication conductor to ground elevation:	T.V. <u>15' - 3"</u> Telephone <u>13' - 6"</u>	<u>15' - 0"</u> <u>8' - 0"</u>
C. SPAN LENGTH <u>298'</u>		
Date the line or facilities were constructed	<u>1954</u>	
Voltage of line or facilities	<u>7200 v Single phase</u>	
Date last inspected by utility	<u>3/4/92</u>	
Utility	<u>South Kentucky RECC</u>	
Date	<u>2/15/94</u>	Time <u>9:00 A.M.</u>

ELECTRICAL UTILITY ACCIDENT INVESTIGATION (Continued)

Approximate temperature 40°F

Measurements made by Mr. Eddie Owens - South Kentucky RECC and
Robert Ueltschi - PSC

Submitted by: Row

FEDERATED RURAL ELECTRIC
INSURANCE CORPORATION
P. O. Box 15147
Shawnee Mission, KS 66215
(913) 341-0130

INVESTIGATION REPORT
ELECTRICAL CONTACT

- INSTRUCTIONS:
1. Forward original to Federated
 2. Attach diagram & photographs
 3. Use additional sheets of paper if necessary

COOPERATIVE: Name Smith Ky RECC Telephone No. (606) 678-4121
 Address 925-979 N. Main St. P.O. Box 910, Somerset, Ky. 42502

DATE OF ACCIDENT: 2/14/74 AM Cooperative 3:15 PM Notified 2/14/74 2:25 PM

LOCATION: Cowley Bottom Road Area, Smith Mills Rd., Wayne Co. Ky.

DESCRIPTION OF ACCIDENT: Employee was working outage caused by ice-storm. Thought he had de-energized lines, but line broke so was working on the line and got hit by 10-1250, 7200 volt line with heavy conductor shock. He was wearing leather work gloves the time. Wires not grounded.

CLAIMANTS: Name Address Telephone No. Occupation
 1. Ricky Bowling, Rt. 1, Box 255, Monticello, Ky. 42356 insurance let. cl.
 2. _____
 3. _____
 4. _____

EXTENT OF INJURY:
 1. Burns to hands - Does not appear to be severe.
 2. _____
 3. _____
 4. _____

TREATMENT: Ambulance, Doctor, Hospital, Etc.
Hospitalization - possible small skin grafts on spine fingers.

COOPERATIVE EMPLOYEES AT SCENE: Name Job Title
Lewis East Service Foreman
Norman Harris P.O. - W. Foreman
Ray Glen Dick Wood Trimmer
Jerry New Hydraulic Tree Trimmer III
Jeff Perkins Operator for Tree Trimmer
 Name Address Telephone No.

WITNESSES: _____

LAW OR OTHER OFFICIALS INVESTIGATING: Eddie Owens, Supervisor, Central, Smith Ky. RECC
Bob Heltschi, Ky. P.S.C.

WEATHER AND
TERRAIN
CONDITIONS:

2-21-74 7:55 - Clear, no wind, no fog, no rain
at a slight angle to terrain, no poles with wires.

SYSTEM
PROFILE:

Voltage—type & size conductor—type pole structures—etc.
200 volt system is ground; 35-5, 212, 12-2/125-7
with 2" cable and three lines.

PROTECTIVE
DEVICES

Type	Location	Rating	Did they operate?

DID OUTAGE
OCCUR?

Yes	Date	Time	AM	Duration
NO	/ /		PM	

WAS COOPERATIVE
NOTIFIED OR
AWARE OF
WORK IN THE
AREA EXPLAIN:

yes, the owner - just employees working on the
outage at this location.

CLEARANCES:

Prepare and attach a diagram. It need not be to scale but the measurements must be accurate. If clearances are reduced because of the accident, measurement and photographs are needed before returning to original condition. Document what caused the reduced clearance, such as broken pole or guy wire, construction equipment, etc. Reference distances to points of impact

CODE REQUIREMENTS
FOR LINE IN
QUESTION:

AGENCY
INVOLVED:

Antenna, auger, crane, construction equipment, etc. Give measurements, make, model, or serial number. Describe any warning signs.

ADDITIONAL
COMMENTS:

PREPARED BY:

Edgar Owens Super Loss Control 2/17/74 406 1678-46
Signature Job Title Date Telephone No.



SOUTH KENTUCKY RURAL ELECTRIC

COOPERATIVE CORPORATION

P.O. Box 910
Keith Sloan, President

Somerset, Kentucky 42601
Phone (606) 678-4121

FACSIMILE TRANSMITTAL FORM

FAX NO. (606) 679-8279

DATE: 5/6/94

TO: Bob Heltsch

COMPANY NAME: Ky. Public Service Commission

FAX NUMBER: 1-502-564-7279

FROM: Eddie Owens - South Ky. RECC

PHONE: 606-678-4121 (EXT)

NUMBER OF PAGES SENT, INCLUDING COVER 2

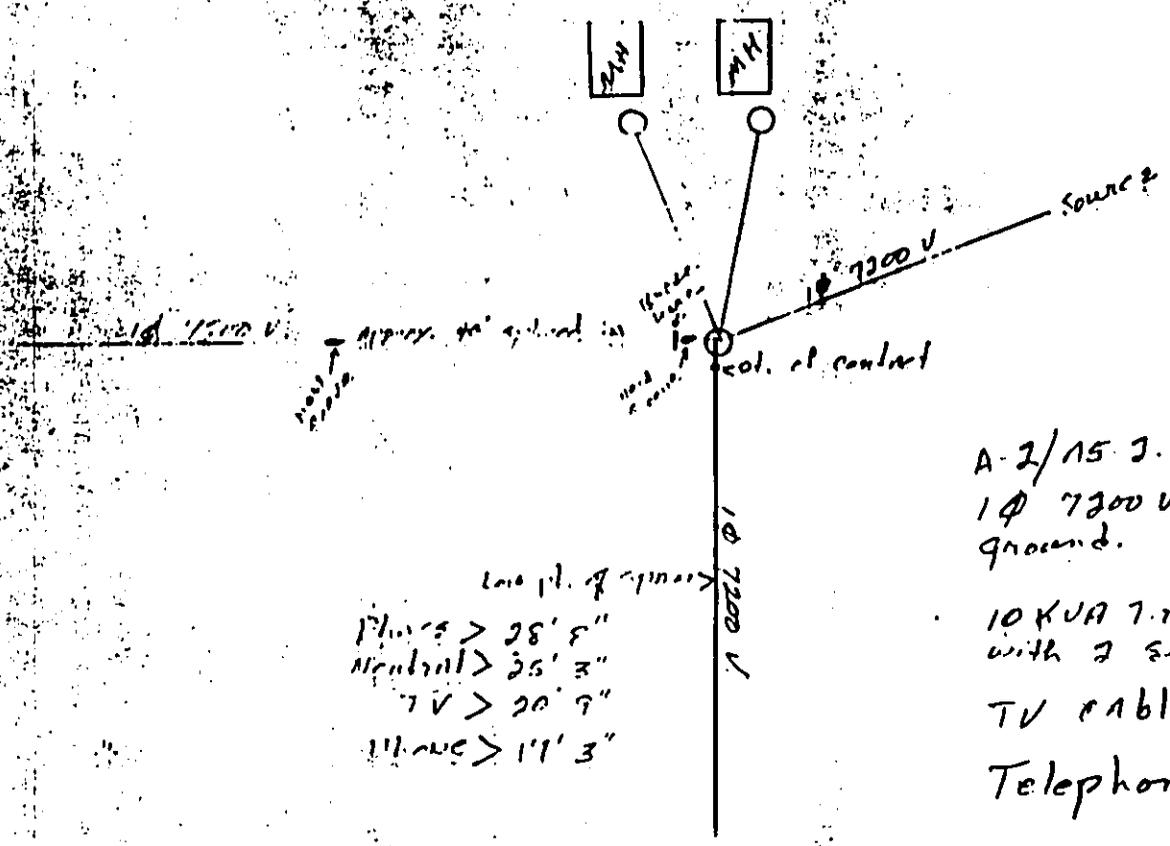
PLEASE CALL THE ABOVE NUMBER IF ALL PAGES ARE NOT RECEIVED

Fax Time: _____

Sent by: _____

County Collector RFE
 Ricky Bonilla
 Hours Worked 2/10 - 2/14/94

	Regular Hours Worked	Overtime Hours Worked	Total Hours Worked
2/10/94	8	7	15
2/11/94	8	16	24
2/12/94		18 1/2	18 1/2
2/13/94		17 1/2	17 1/2
2/14/94	6 3/4	-	6 3/4
Total Hours Worked 2/10 - 2/14/94	<u>22 3/4</u>	<u>59</u>	<u>81 3/4</u>



low pt. of ground
 Phase > 28' 8"
 Neutral > 25' 3"
 TV > 20' 9"
 Phone > 11' 3"

A-2/15 J., 35 5 pole
 1Ø 7200 V. phase to
 ground.

10 KVA transformer
 with 2 service drops.

TV cable
 Telephone

Power Posing Accident 2/11/94 approx. 3:15
 at the Bayley Station Head Area, off the Smith Motors Rd
 in the area of the...

