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RECEIVED

June 4, 2014

JUN 4 2014

PUBLIC SERVICE
COMMISSION

Via Hand-Delivery

Mr. Jeffrey Derouen
Executive Director
Kentucky Public Service Commission
P.O. Box 615
211 Sower Boulevard
Frankfort, KY 40602

Re: In the Matter of: Harold Barker; Ann Barker and
Brooks Barker v. East Kentucky Power Cooperative, Inc.
PSC Case No. 2013-00291

Dear Mr. Derouen:

Enclosed please find for filing with the Commission in the above-referenced case an original and ten (10) copies of East Kentucky Power Cooperative, Inc.'s executed and notarized Direct Testimony of Kenneth R. Foster, Ph.D. As stated in our letter of June 2, 2014, we filed an unsigned copy and would be filing an executed and notarized copy once it was received. Please return a file-stamped copy to me. Do not hesitate to contact me if you have any questions.

Very truly yours,

David S. Samford

Enclosures

M:\Clients\4000 - East Kentucky Power\1350 - Harold Barker Complaint -
PSC Case No. 2013-00291\Correspondence\Ltr. to Jeff Derouen - 140603

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

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JUN 4 2014

PUBLIC SERVICE
COMMISSION

IN THE MATTER OF:

HAROLD BARKER; ANN BARKER)
AND BROOKS BARKER)

COMPLAINANTS)

V.

EAST KENTUCKY POWER)
COOPERATIVE, INC.)

DEFENDANT

Case No. 2013-00291

DIRECT TESTIMONY OF KENNETH R. FOSTER, Ph.D.
ON BEHALF OF EAST KENTUCKY POWER COOPERATIVE, INC.

Filed: June 2, 2014

1 **Q. PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND**
2 **OCCUPATION.**

3 A. My name is Kenneth R. Foster. I am Professor of Bioengineering at the
4 University of Pennsylvania, Department of Bioengineering, University of
5 Pennsylvania, 240 Skirkanich Hall, 220 S. 33rd Street, Philadelphia, Pennsylvania,
6 19104-6392. In this matter, I am not representing the University of Pennsylvania.
7 Instead, I am offering testimony as an independent expert on issues related to
8 health and safety of electromagnetic fields (“EMF”), as permitted by the
9 University.

10 **Q. PLEASE STATE YOUR EDUCATION AND PROFESSIONAL**
11 **EXPERIENCE.**

12 A. I have a B.S. in physics (with honors) from Michigan State University (1967), a
13 M.S. in physics from Indiana University (1968) and a Ph.D. in physics from
14 Indiana University (1971). From 1971 through 1976, I served as a Lieutenant in
15 the U.S. Naval Reserve, doing research on biological effects of EMF with the
16 Navy. Since 1976, I have been with the University of Pennsylvania. My research
17 related to the interaction of EMF with biological systems, ranging from
18 biophysical mechanisms of interaction to exposure assessment. I have been
19 involved for many years with organizations involved with health effects of EMF,
20 including a year spent at the EMF Project with the World Health Organization in
21 Geneva, which is concerned with possible health effects of electromagnetic fields,
22 including in power line fields and radiofrequency energy. I have had long-
23 standing members (since 1998) on the IEEE International Committee on

1 Electromagnetic Safety (ICES) which sets limits for human exposure to EMF. In
2 addition, I serve on the Physical Agents Committee of the American Conference
3 of Governmental Industrial Hygienists, which sets exposure limits for EMF, and
4 have served on the National Council on Radiation Protection and Measurements,
5 the IEEE Committee on Man and Radiation and other organizations involved with
6 health and safety issues related to exposure to EMF. I have also served on the
7 Advisory Board of the EMF program of the Electric Power Research Institute. I
8 am a Fellow of the IEEE and of the American Institute of Medical and Biological
9 Engineering and I served as President of the IEEE Society on Social Implications
10 of Technology from 1996-1998. I am presently a Distinguished Lecturer for that
11 Society. I have published more than 100 scientific papers in peer reviewed
12 journals on a broad range of issues related to this topic as well as to medical
13 applications of EMF. Finally, I am a Registered Professional Engineer in the
14 State of Pennsylvania (PE-030018-E).

15 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS**
16 **PROCEEDING?**

17 A. The purpose of my testimony is to provide an expert opinion regarding whether
18 the EMF exposure levels associated with the 69 kV/345 kV transmission line
19 operated by East Kentucky Power Cooperative, Inc. poses any sort of health or
20 safety risk to the Complainants. I will also respond to various issues raised by the
21 Complainants or their experts.

22 **Q. ARE YOU SPONSORING ANY EXHIBITS?**

- 1 A. Yes. My curriculum vitae is attached hereto and incorporated herein as Exhibit
2 KRF-1. An expert opinion report that I prepared in association with this case is
3 attached hereto and incorporated herein as Exhibit KRF-2.
- 4 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**
- 5 A. Yes it does.

VERIFICATION

Comes now, Kenneth R. Foster, Ph.D., and after being duly sworn does hereby state that the foregoing testimony is true and correct to the best of my knowledge and belief as of this 2 day of June, 2014.

Kenn R Foster
Kenneth R. Foster, Ph.D.

STATE OF Pennsylvania
COUNTY OF Montgomery

The foregoing was subscribed and sworn to before me, the Notary Public, on this the 2 day of June, 2014.

Rosanne E. Lion
NOTARY PUBLIC

My Commission expires: 3/13/17

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Rosanne E. Lion, Notary Public
Lower Merion Twp., Montgomery County
My Commission Expires March 13, 2017
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES