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PUBLIC SERVICE COMMISSION

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January 22, 2013

HAND DELIVERED

Jeff R. Derouen
Executive Director
Public Service Commission
211 Sower Boulevard
P.O. Box 615
Frankfort, Kentucky 40602-0615

Re: Case No. 2012-00224

Dear Mr. Derouen:

Please find enclosed and accept for filing the original and ten copies of Kentucky Power Company's responses to the supplemental data requests propounded by the Commission Staff.

Copies of the responses are being served on counsel for Grayson along with a copy of this letter.

Very truly yours,

STITES & HARBISON, PELO

R. Benjamin Crittenden

cc: W. Jeffrey Scott

Alexandria, VA Atlanta, GA Frankfort, KY Franklin, TN Jeffersonville, IN Lexington, KY Louisville, KY Nashville, TN

COMMONWEALTH OF KENTUCKY

BEFORE THE

PUBLIC SERVICE COMMISSION OF KENTUCKY

RECEIVED

JAN 2 2 2013

IN THE MATTER OF

PUBLIC SERVICE COMMISSION

PETITION AND COMPLAINT OF KENTUCKY POWER)
COMPANY FOR A DECLARATION OF ITS	
RIGHT PURSUANT TO KRS 278.018(1) TO SERVE)
THOSE PORTIONS OF THE SAND GAP ESTATES) CASE NO. 2012-00224
GREENUP COUNTY, KENTUCKY LYING WITHIN)
ITS CERTIFIED TERRITORY IN LIEU OF)
GRAYSON RURAL ELECTRIC COOPERATIVE)
CORPORATION)

KENTUCKY POWER COMPANY RESPONSES TO COMMISSION STAFF'S SECOND SET OF DATA REQUESTS

VERIFICATION

The undersigned, Richard Howerton, being duly sworn, deposes and says he is the Owner and Senior Engineer, for Howerton Engineering that he has personal knowledge of the matters set forth in the forgoing responses for which he is the identified witness and that the information contained therein is true and correct to the best of his information, knowledge and belief.

	Richard Hows L
	Richard Howerton
COMMONWEALTH OF KENTUCY) Case No. 2012-00224
COUNTY OF BOYD)

Subscribed and sworn to before me, a Notary Public in and before said County and State, by Richard Howerton, this the _/5 day of January 2013.

Notary Public

My Commission Expires: <u>April 6, 201</u>3

KPSC Case No. 2012-00224 Commission Staff's Second Set Data Request Dated January 11, 2013 Item No. 1 Page 1 of 1

KENTUCKY POWER COMPANY

REQUEST

In response to Item 14(b)(3) from Kentucky Power Company's Response to Commission Staff's First Request for Information, Kentucky Power stated that it was aware that the Horizontal Positional Accuracy Explanation (<horizontal Positional Positional Accuracy Explanation (<horizontal Positional Accuracy Explanation (<horizontal Positional Po

RESPONSE

Please see the attached map (Map 1) that has been revised as requested to show a 100 foot buffer around the electric service area boundary line provided by the Kentucky Public Service Commission.

The blue line does lie within the \pm 100 foot buffer.

WITNESS: Richard Howerton

CASE NO: 2012-00224

CONTAINS LARGE OR OVERSIZED MAP(S)

RECEIVED ON: January 22, 2013

KPSC Case No. 2012-00224 Commission Staff's Second Set of Data Requests Dated January 11, 2013 Item No. 2 Page 1 of 3

Kentucky Power Company

REQUEST

Taking into account the accuracy of the original USGS topographic map, the distortion in the paper, the width of the electric service area boundary line, and any inherent errors in the original compilation of the boundary line on the USGS map:

- a. What is Kentucky Power's estimate of the horizontal positional accuracy on the ground of the blue line (compiled by Kentucky Power from the signed USGS map filed with the Kentucky Public Service Commission) as shown on Map 1?
- b. If the estimate of horizontal positional accuracy of the boundary line compiled by Kentucky Power as described in a. above is different from ± 100 feet, explain how Kentucky Power arrived at a different value.
- c. Illustrate this as an overlay to Map 1 (from Kentucky Power Company's Response to Commission Staffs First Request for Information, Response to Item 8).

RESPONSE

- a. The width of the line shown on the USGS topographic map scales approximately 80 feet. Using the geometric centerline of the blue line provides for a precise centerline location. Therefore, it is estimated that the location creates a precise positional accuracy.
- b. When attempting to recreate or reconstruct line work or features that were manually created on a USGS survey map, these locations can be recreated with relative precision. A USGS survey map is a paper map with four definitive corners of latitude and longitude thus creating a perfectly re-creatable geometric shape. Any features that were drawn on this map have a distinct location in reference to the four corners of the map. Therefore, the centerline of manually drawn line work on this reference plane can be projected with functional accuracy. The location of manually drawn lines are indeed drawn in their exact location, and we can project them with certainty. Please see illustration on Page 3 of this response.

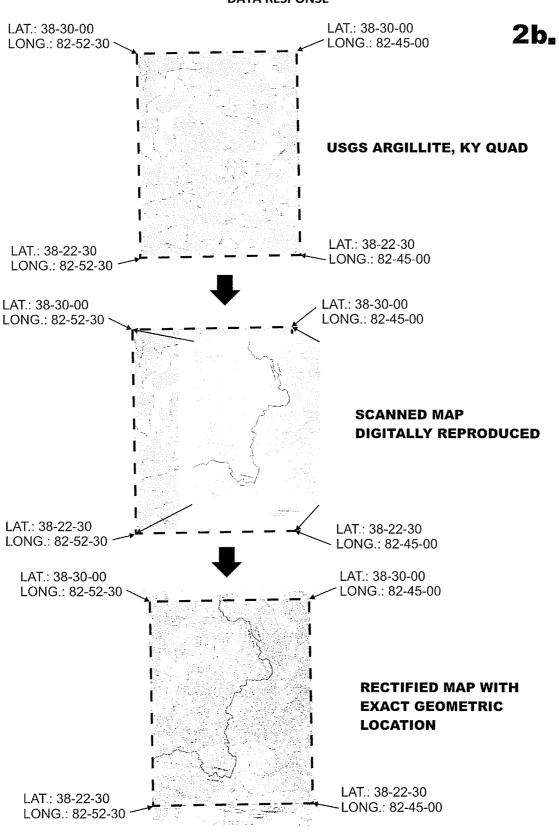
KPSC Case No. 2012-00224 Commission Staff's Second Set of Data Requests Dated January 11, 2013 Item No. 2 Page 2 of 3

In measuring the width of the line by the map scale, Kentucky Power has found that it is 80 feet in width. Consistent with surveying practice, the centerline of the boundary line was determined. Given the width of the line the tolerance would be +/- 40 feet.

c. The blue centerline shown in Map 1 of Kentucky Power's response to Item 8 of the Commission Staff's First Set of Data Requests is the geometric centerline of the boundary.

WITNESS: Richard Howerton

DATA RESPONSE



<u>www.howertoneng.com</u> 533 Second Street, Portsmouth OH. 45662 P(740)354-3684 F(740)354-3680

KPSC Case No. 2012-00224 Commission Staff's Second Set of Data Requests Dated January 11, 2013 Item No. 3 Page 1 of 1

Kentucky Power Company

REQUEST

In response to Item 14(c) from Kentucky Power Company's Response to Commission Staff's First Request for Information, Kentucky Power stated that the aerial imagery is from Google Maps dated 4/14/2011. Statewide imagery available from the Commonwealth of Kentucky's Division of Geographic Information through the Kentucky Geography Network has a known pedigree and accuracy.

- a. Make a map at 1 inch = 200 feet scale using the Kentucky imagery as the background for the electric service area boundaries and the 100-foot buffer.
- b. Is the position of the electric service area boundary different with respect to the residences on this map from its position on the original Map 1? ¹

RESPONSE

- a. Please see Map 1 of the response to Item 1 of this set of data requests.
- b. No.

WITNESS: Richard Howerton

The Kentucky imagery is available on the internet. Go to the Kentucky Geography Network (http://www/kygenonet/ky/.gov/).. In the upper right corner of the web page, there is the statement: Kentucky's 2012 1-Meter NAIP Imagery from the USDA is now available for download by 20k tile and be accessed via an Image Service." Clicking on "download" provides the metadata for the 2012 imagery. Note that the information provided describes the accuracy and the projection history of the imagery. imagery for the Sand Gap area. click on the link download ftp://ftp.kymartian.ky.gov/FSA_NAIP_2012_1M/, find then and save the The tile system is found in fsa grid shapefile zip at ky 1m naip 2012 N016E100.zip. ftp://ftp.kymartian.ky.gov/fsa/.