



**KENTUCKY
POWER**

A unit of American Electric Power

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JUN 25 2007

**PUBLIC SERVICE
COMMISSION**

Elizabeth O'Donnell, Executive Director
Public Service Commission
Attn: Mr. John A. Rogness, Manager
P. O. Box 615
Frankfort, KY 40602-0615

Re: KPSC Case No. 2007-00155

June 25, 2007

Dear Ms. O'Donnell:

In response to the Commission Staff's questions at the June 20, 2007 Informal Conference, please find attached responses of Kentucky Power Company. Additionally, we are enclosing a Flash Drive containing requested information. If you have you any questions, please call me at 502/696-7010.

Sincerely,

Errol K. Wagner
Director of Regulatory Services

Attachment (flash drive)

COMMONWEALTH OF KENTUCKY
BEFORE THE
PUBLIC SERVICE COMMISSION OF KENTUCKY

IN THE MATTER OF:

THE APPLICATION OF KENTUCKY POWER COMPANY)
FOR A CERTIFICATE OF PUBLIC CONVENIENCE AND)
NECESSITY TO CONSTRUCT A 138 KV TRANSMISSION) Case No. 2007- 00155
LINE IN FLOYD COUNTY, KENTUCKY)

KENTUCKY POWER COMPANY

**RESPONSES TO COMMISSION STAFF'S INFORMAL CONFERENCE
DATA REQUESTS**

June 25, 2007

KENTUCKY POWER COMPANY

REQUEST

Did the Company consider using the existing 765 KV transmission right-of-way and under build the 138 facilities on the existing 765 KV transmission towers for any portion of the 8.3 miles of line associated with this project? If not, why not.

RESPONSE

The 765kV structures are not designed or built to support any additional circuits. The existing 765kV Right-of-way would not provide enough electrical clearance to allow a 138kV Transmission line to be constructed within the 765kV Right-of-way or to attach the 138kV facilities to existing 765kV structures.

KENTUCKY POWER COMPANY

REQUEST

Second, with the less than 1% load growth in this area expected in the future, how many years does the Company expect the existing 46 KV facilities to be able to continue providing reliable service in the area with adding additional facilities?

RESPONSE

The existing 46 kV system's weak link is the support from the south (Beaver Creek transformer and the Beaver Creek 46 kV line exits). With less than 1% expected load growth in this area, the Company expects the existing 46kV system to last up to the later part of 5-10 year period without any system improvements to the 46kV facility.

KENTUCKY POWER COMPANY

REQUEST

During the informal conference Equitable informed us that they currently have a phase 2 expansion plan for this station. They are planning that in a year or two they will be installing an additional three or four electrical motors. We do not know the horsepower size of any of these motors. The Commission Staff asked if the 138 KV facilities will be able to handle the additional motors. We informed both the Staff and the customer that once we know the size of the phase 2 motors we would be able to address that question.

RESPONSE

The 138 kV facilities as proposed will be able to supply both phase 1 and phase 2 of the Kentucky Hydro Carbon's proposed load increases. Starting an additional comparable size motor in phase 2 is not an issue with the 138 kV feed.

KENTUCKY POWER COMPANY

REQUEST

The Staff then asked once these 138 KV facilities are placed into service and Equitable completes phase 2 of this project, how long do we expect both the new facilities and the existing facilities will be able to continue providing reliable service in the area.

RESPONSE

The projected Kentucky Hydro Carbon Proposed load increases will have no impact on the existing 46 kV system as the customer's load increases will be served via the proposed 138 kV line. The Company will continue to monitor the loading and performance of the Beaver Creek transformer and the Beaver Creek 46 kV line exits to determine any future improvement needs. With less than 1% load growth in this area, the Company expects the existing 46kV system to last up to the later part of 5-10 year period without any system improvements.

Please see the attached Flash Drive. The first file (Page_1) shows the Beaver Creek - Thelma area and its 46 kV system loading with the Kentucky Hydro Carbon load served via 138 kV system (24 MW of load at Hays Branch 138 kV Station). The second file (Page_2) shows the outage of the Beaver Creek-Lackey 46 kV Line Out With Kentucky Hydro Carbon Load still served via 138 kV System. The critical Beaver Creek-McKinney 46 kV Line Loading, as shown, is 86% of its capability (as compared to 121% if the Kentucky Hydro Carbon Load is served on the 46 kV system). This leaves a margin of about 14 % or 6 MW for the area load growth. Depending on the actual magnitude and location of the future load growth and with less than 1% expected load growth in this area the Company expects the existing 46 kV system to last up to the later part of 5-10 year period without any system improvements to the 46 kV facilities.