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January 17, 2019

HAND DELIVERED

Gwen R. Pinson
Executive Director
Public Service Commission
211 Sower Boulevard
P.O. Box 615
Frankfort, KY 40602-0615

Mark R. Overstreet
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RE: **Administrative Case No. 387**

Dear Ms. Pinson:

Kentucky Power files the original and ten copies of Kentucky Power Company's unredacted May 2, 2016 response to KPSC 1-9. The filing is being made in conformity with the Commission's January 3, 2019 order in this matter.

Please do not hesitate to contact me if you have any questions.

Very truly yours,


Mark R. Overstreet

MRO

RECEIVED

JAN 17 2019

PUBLIC SERVICE
COMMISSION

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

RECEIVED

JAN 17 2019

PUBLIC SERVICE
COMMISSION

In The Matter Of:

A Review Of The Adequacy Of Kentucky's) Administrative
Generation Capacity And Transmission System) Case No. 387

**KENTUCKY POWER COMPANY'S
MAY 2, 2016 RESPONSE TO
KPSC 1-9 IN CONFORMITY WITH
COMMISSION'S JANUARY 3, 2019 ORDER**

January 17, 2019

Kentucky Power Company

REQUEST

Identify all planned transmission capacity additions for the next 10 years. Include the expected in-service date, size and site for all planned additions and identify the transmission need each addition is intended to address.

RESPONSE

Please refer to Attachment 1 to this response. Confidential treatment is being sought for portions of Attachment 1.

WITNESS: Ranie K Wohnhas

The following projects are planned for the Kentucky Power Company transmission system:

Big Sandy Area Improvements – This project will install a second 765/345 kV transformer at the Baker 765 kV station. This project will provide double contingency reliability to the critical transmission system. The anticipated in-service date would be June 2016.

Cedar Creek Station Upgrades – This project will install two new 138 kV circuit breakers at Cedar Creek Station. This project will provide operational benefits and provide voltage support for single contingency line outages. Current projected in-service date is April 2016.

Bellefonte Transformer Addition – This project will install a 200 MVA 138/69/34.5 kV transformer at Bellefonte station. This project will solve thermal planning criteria violations on the Bellefonte #5 for the loss of the Bellefonte #2 transformer. Current projected in-service date is June 2017.

Ashland Area Improvements – This project will install two new 138 kV circuit breakers and replace two 69 kV circuit breakers at Chadwick station. The project will also replace 69 kV breakers at Leach, England Hill, and Kenova stations while addressing remote end relaying in the area. This project will provide additional reliability to customers, operational flexibility, and voltage support under contingency conditions. Current projected in-service date is May 2017.

Stanville Area Improvements – Due to severe access issues at Betsy Layne, as well as the station being located in a flood plain, this project will retire Betsy Layne station and construct a new greenfield station (Stanville) just north of Betsy Layne station at the corner of Bobcat Blvd and E. Main Street in Stanville, KY. This project is necessary to solve planning criteria violations and address distribution reliability concerns. The Betsy Layne transformer will overload under winter peak conditions for the loss of the Cedar Creek Transformer. As part of the project, a 69kV capacitor bank will be installed at South Pikeville Station to solve voltage drop violations at South Pikeville and Pikeville Stations for the loss of the Cedar Creek Transformer. Current projected in-service date is December 2018. This is identified as Project A on the accompanying motion for confidential treatment.

Hazard and Vicco Station Improvements – This project will install a new 138 kV circuit breaker at Hazard station. The project will also replace malfunctioning operational switches and aging infrastructure at Vicco station. This project will provide additional reliability to customers and operational flexibility under contingency conditions. Current projected in-service date is December 2019.

Johns Creek and Stone Station Upgrades – This project will install new 138 kV circuit breakers at Johns Creek, Stone and Inez stations. This project will provide additional reliability to customers, operational flexibility, and voltage support under contingency conditions. Current projected in-service date is December 2020.

Hazard – Wooton - Pineville 161 kV Project – This project will replace and relocate the single phase Hazard 161/138 kV transformer to Wooton Station. The project will also rebuild the 6.5 mile Hazard-Wooton 161 kV line to 138 kV. This is identified as Project B on the accompanying motion for confidential treatment.

The project will also rebuild the 45 mile Wooton - Pineville 161 kV line. The project will address thermal violations identified on the Hazard 161/138 kV transformer as well as the severe deterioration of the Hazard - Wooton – Pineville 161 kV corridor. Current projected in-service date is December 2021. This is identified as Project C on the accompanying motion for confidential treatment.