



Sub Regional RTEP Committee PJM West

April 20, 2020

Project Update

Additional Scope for Project B3087

Criteria: FERC 715 Planning Criteria Violation

Model Used for Analysis: 2023 Winter RTEP

Existing Scope: (Presented: 11/29/2018, 10/25/2019 SRRTEP):

Construct a new greenfield station to the west (~1.5 mi.) of the existing Fords Branch Station, potentially in/near the new Kentucky Enterprise Industrial Park. This new station will consist of 4 -138 kV breaker ring bus and two 30 MVA 138/34.5 kV transformers. The existing Fords Branch Station will be retired. **(B3087.1)**

Estimated Cost: \$2.8 M

Construct approximately 5 miles of new double circuit 138 kV line in order to loop the New Fords Branch station into the existing Beaver Creek – Cedar Creek 138 kV circuit. **(B3087.2) Estimated Cost: \$19.9 M**
Remote end work will be required at Cedar Creek Station. **(B3087.3) Estimated Cost: \$ 0.5 M**

Additional Scope: Install a 28.8MVar switching shunt at the new Fords Branch substation **(B3087.4)**

Estimated Cost: \$ 0.5 M

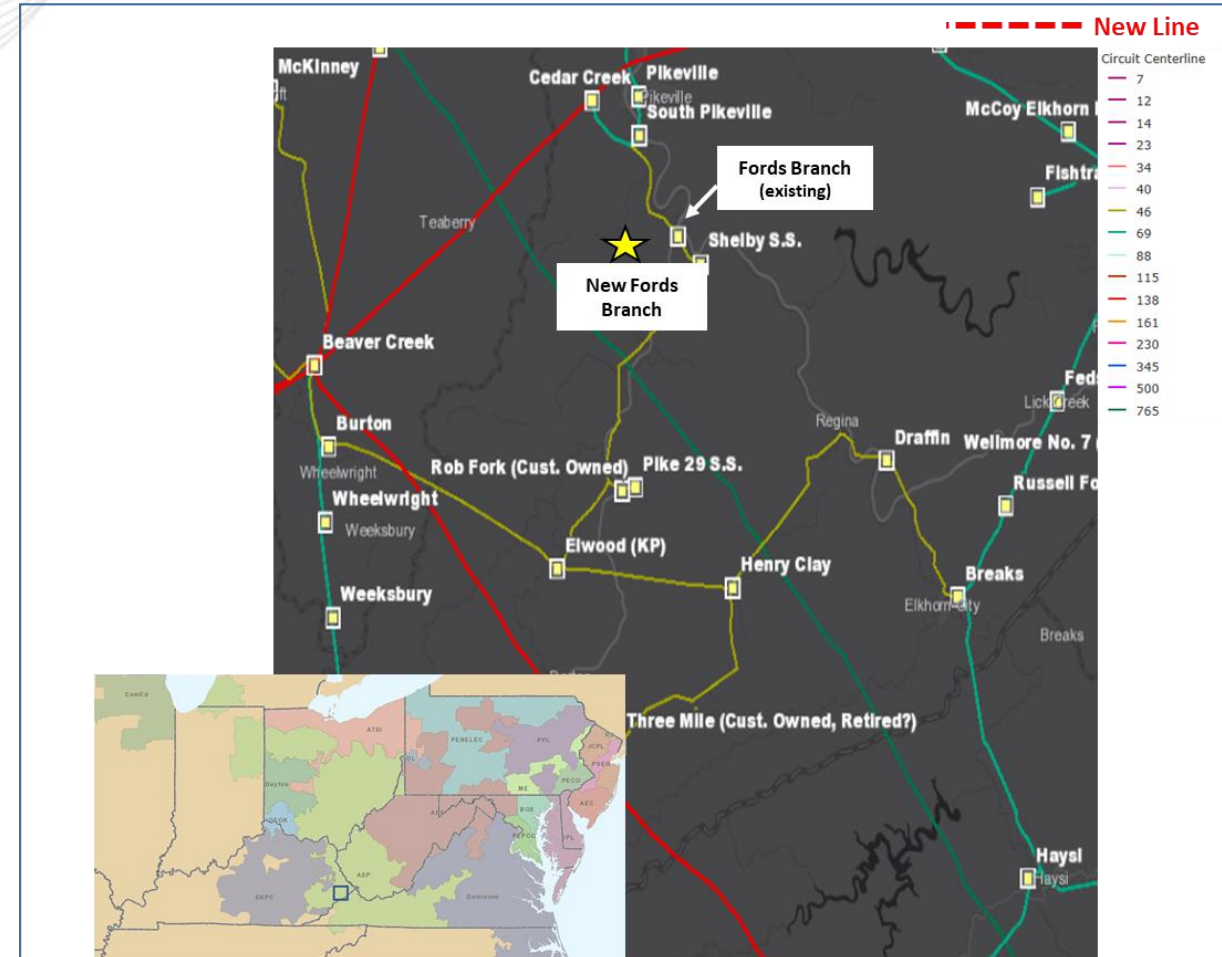
Reason for the additional scope:

- For the N-1-1 Loss of Beaver Creek Transformer #1 and the loss of Cedar Creek – Johns Creek 138kV line, voltage magnitude violations are identified at New Fords Branch substation (0.90 pu), Cedar Creek 138kV (0.90 pu).
- For the N-1-1 Loss of Beaver Creek – Kewanee (New Fords Branch) 138kV and Cedar Creek – Johns Creek 138kV line, voltage magnitude violations issues are identified at the new Fords Branch substation (0.87 pu), Cedar Creek 138kV (0.87pu), Cedar Creek 69kV (0.90 pu).

Required In-service: 12/1/2023

Projected In-service: 09/31/2022

Project Status: Scoping



Questions?



- V1 – 4/13/2020 – Original slides posted