Sub Regional RTEP Committee
PJM Mid-Atlantic

December 16, 2019

- The following definitions explain the basis for excluding flowgates and/or projects from the competitive planning process and designating projects to the incumbent Transmission Owner.
- Flowgates/projects excluded from competition will include the underlined language on the corresponding slide.

  - Immediate Need Exclusion: Due to the immediate need of the violation (3 years or less), the timing required for an RTEP proposal window is infeasible. As a result, the local Transmission Owner will be the Designated Entity. - Operating Agreement, Schedule 6 § 1.5.8(m)
  - Below 200kV Exclusion: Due to the lower voltage level of the identified violation(s), the driver(s) for this project are excluded from the competitive proposal window process. As a result, the local Transmission Owner will be the Designated Entity - Operating Agreement, Schedule 6 § 1.5.8(n)
  - Substation Equipment Exclusion: Due to identification of the limiting element(s) as substation equipment, the driver(s) for this project are excluded from the competitive proposal window process. As a result, the local Transmission Owner will be the Designated Entity - Operating Agreement, Schedule 6 § 1.5.8(p)

Second Review

Baseline Reliability Projects

Process Stage: Second Review
Previously Presented: 9/24/2019
Criteria: First Energy Planning Criteria Violation
Assumption Reference: FERC 715

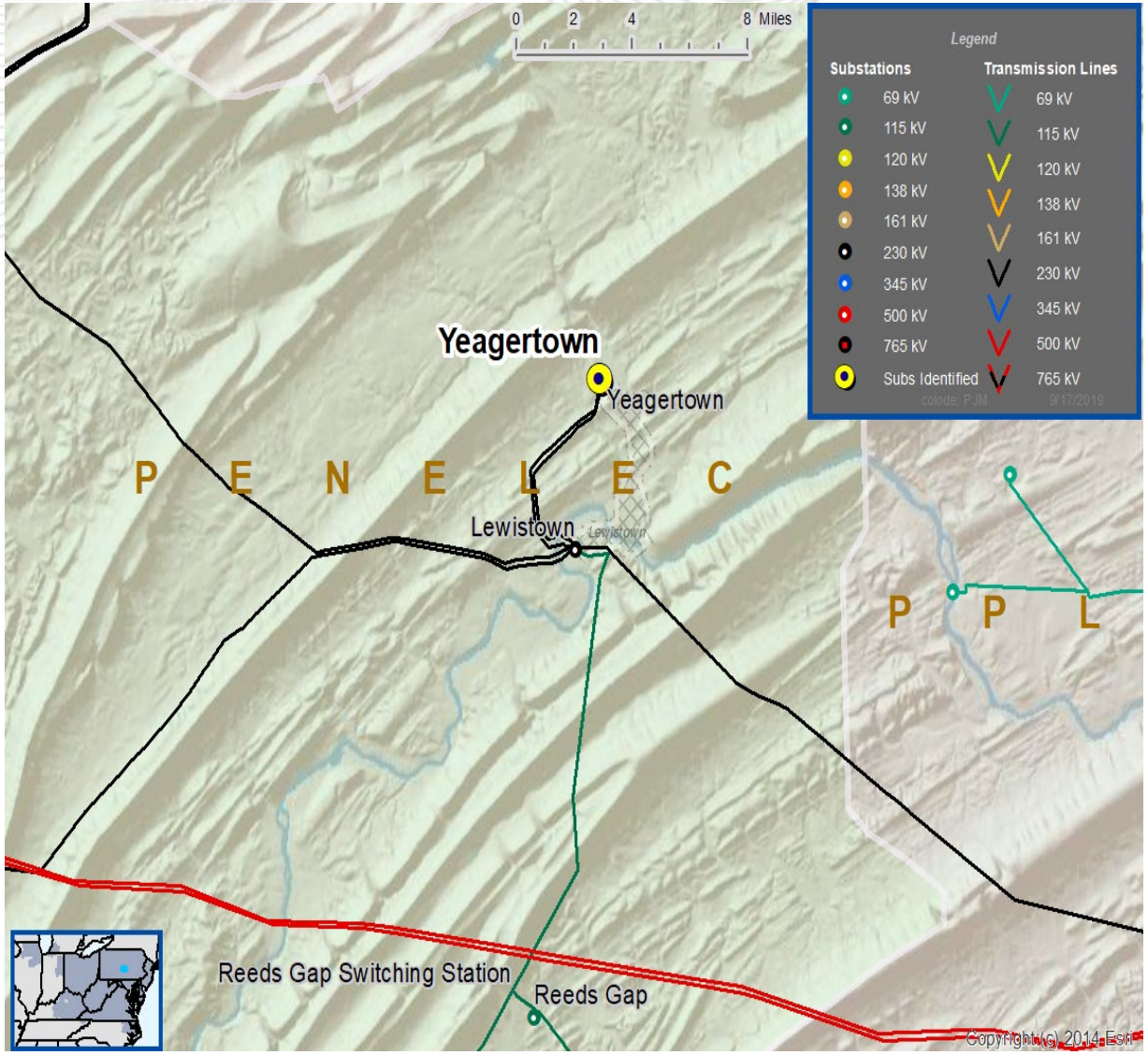
Model Used for Analysis: 2019 Series 2024 Summer RTEP

Proposal Window Exclusion: Below 200 kV

Problem Statement:
The loss of the Yeagertown 230/46 kV transformer #4 causes low voltage violations at Yeagertown, Logan, Mcveytwn, Maitland, and Atknson 46 kV stations, in the Winter study.

Recommended Solution:
Logan 46 kV Capacitor
- Install one 13.2 MVAR 46 kV capacitor. (**B3154)**

Estimated Project Cost : $1.7 M
Required In-Service Date: 6/1/2024
Projected In-Service Date: 6/1/2024
Status: Conceptual



DPL Transmission Zone: Baseline Project

Process Stage: Second Review

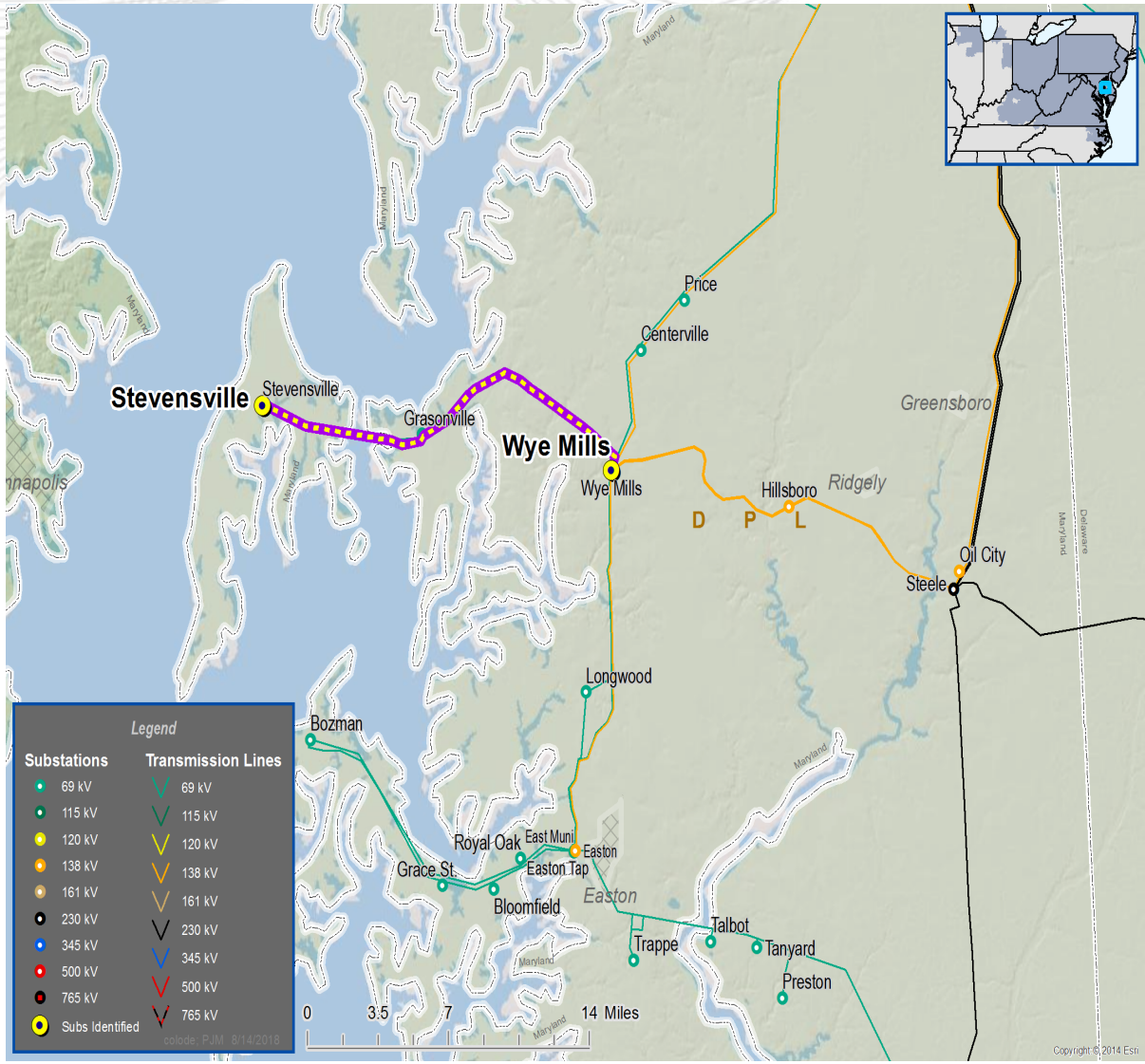
Previously Presented: 9/21/2018

Generation Deliverability (Winter)

Proposal Window Exclusion: Below 200 kV

Problem Statement:

- The Wye Mills – Stevensville 69 kV is overloaded for a single contingency loss of the Wye Mills to Grasonville 69 kV circuit. (FG# GD-W12). Existing Rating: 69N/90E MVA summer rating and 77N/102E MVA Winter rating.



DPL Transmission Zone: Baseline Project

Process Stage: Second Review

Previously Presented: 9/21/2018

Recommended Solution:

- Rebuild approximately 12 miles of Wye Mills – Stevensville 69 kV line to achieve needed ampacity. (**B3155)**
- New Rating: 92N/122E MVA summer rating and 121N/153E MVA winter rating.

Alternatives Considered:

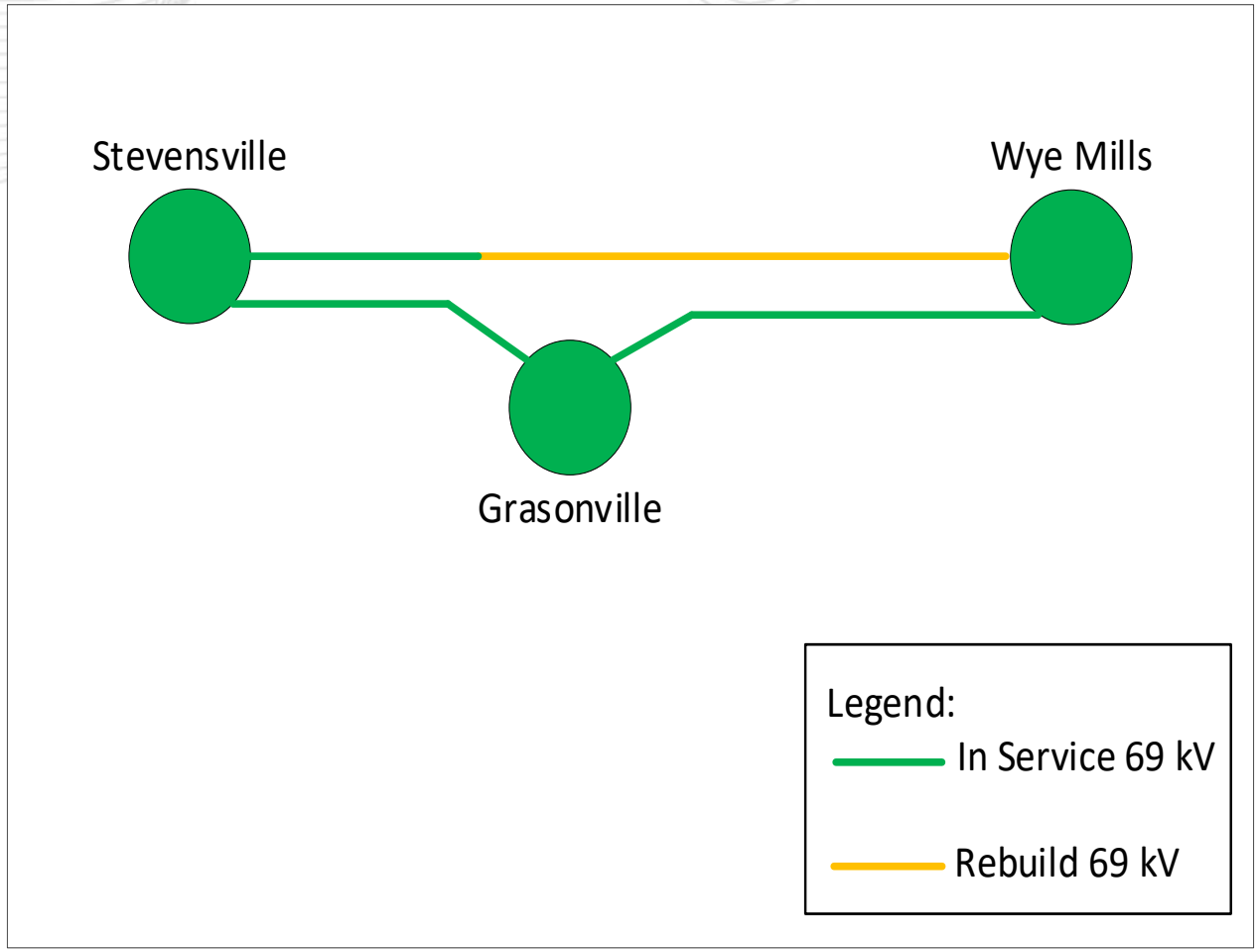
- Install battery storage device at/near Grasonville Substation - $25M+
  - Higher cost alternative
  - Does not provide adequate relief in the event of future load growth
- Construct new line from Wye Mills to Grasonville - $30M
  - Higher cost alternative
  - Presents greater constructability concerns

Estimated Project Cost: $15 M

Required IS Date: 12/1/2023

Expected IS Date: 3/31/2024

Status: Conceptual



Questions?

Revision History

12/09/2019 – V1 – Original version posted to pjm.com.