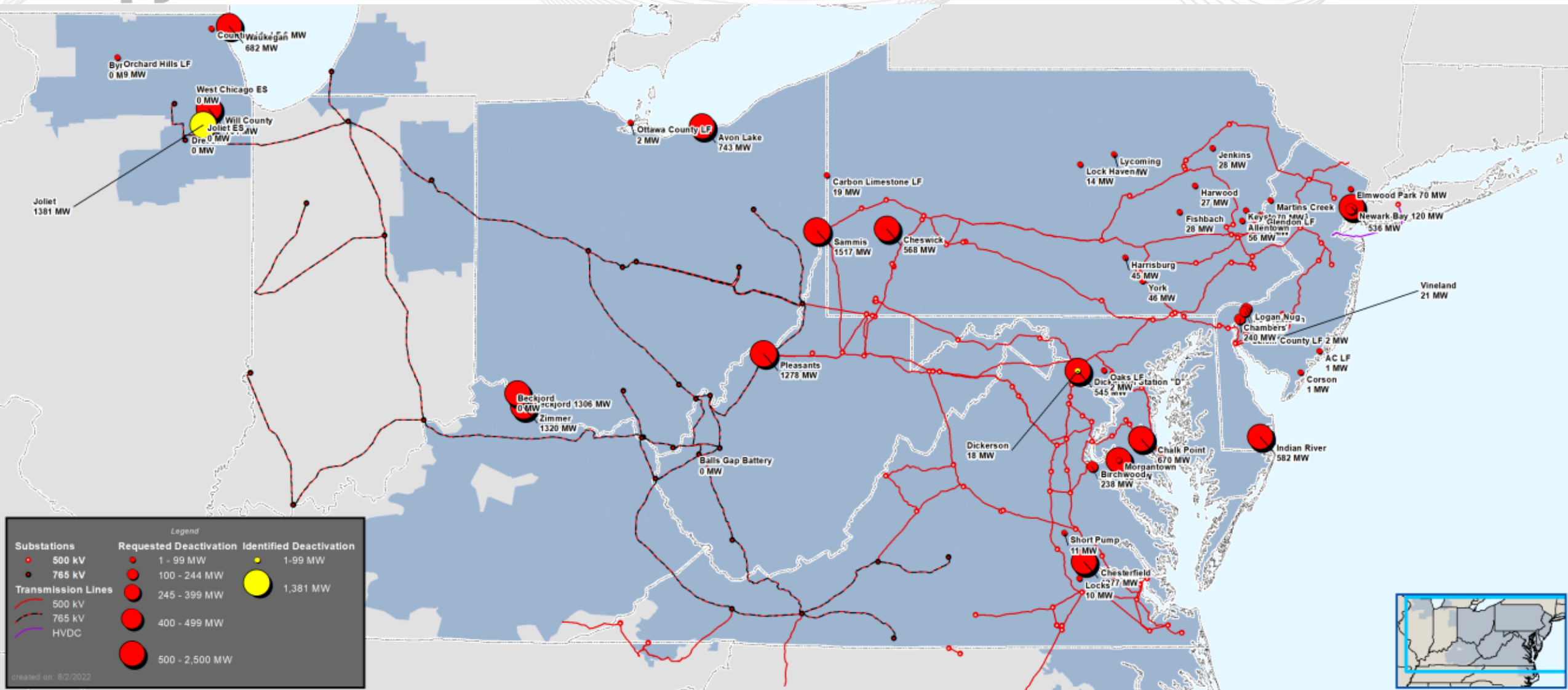




Generation Deactivation Notification Update

Transmission Expansion Advisory Committee
August 9, 2022





Deactivation Status

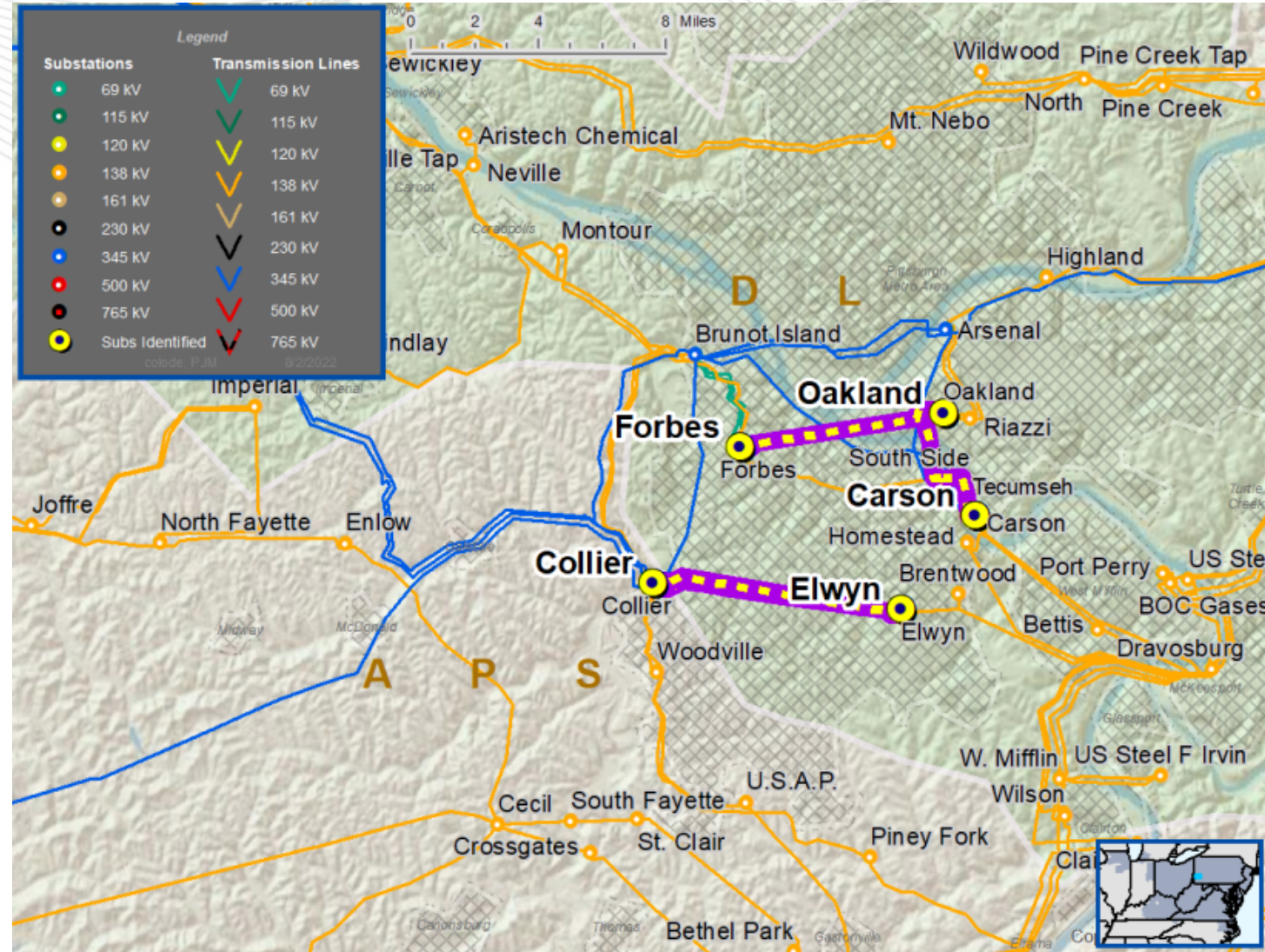
Unit(s)	Transmission Zone	Requested Deactivation Date	PJM Reliability Status
Vineland CT - 21.1 MW	ACE	10/10/2022	Reliability analysis complete. No violation identified. The unit can be deactivated as scheduled.
Joliet 6,7, and 8 - 1381 MW	ComEd	6/1/2023	Reliability analysis is underway.
Dickerson CT	PEPCO	10/23/2022	Reliability analysis is underway.

Cheswick Deactivation - 567.5 MW

- The unit was deactivated on 03/31/2022.
- The study results and associated baseline projects were presented on 08/10/2021.
- The missing N-1-1 thermal violations driven by Cheswick deactivation were identified during the review of the analysis results with 2023 summer and 2027 summer load flow models developed in 2022.
- The further investigation confirmed that there was the issue in the study file used for the N-1-1 thermal analysis performed in 2021.

Problem Statement:

- Thermal violation:
 - Collier - Elwyn #1 138 KV
 - Collier - Elwyn #2 138 KV
 - Forbes - Oakland 138 KV
 - Carson - Oakland 138 KV
- Contingency: Various N-1-1



Recommended Solution

B3717.1: Install a series reactor on Cheswick - Springdale 138 kV line.

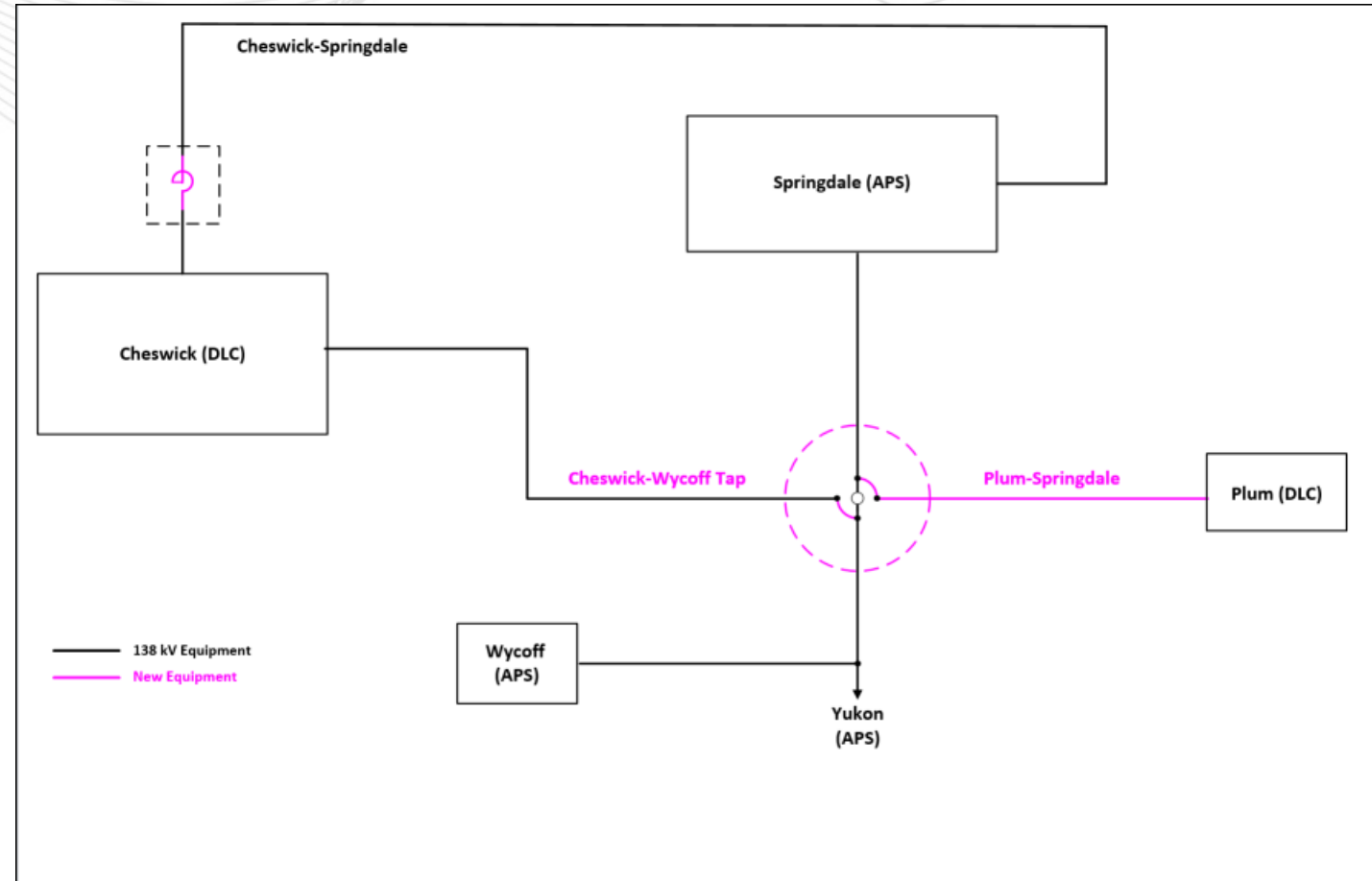
B3717.2: Transmission Line Rearrangement

- Replacement of four structures and reconductor DLCO portion of Plum – Springdale 138 kV line.
- Associated communication and relay setting changes at Plum and Cheswick.
- Current Rating: 220 MVA SN/ 248 MVA SE
- New Rating: 288 MVA SN/ 343 MVA SE

Projected ISD: 12/31/2024*

Estimated Cost: B3717.1 - \$9M, B3717.2: \$15M

* Operating measures identified to mitigate reliability impacts in interim.



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Generation Deactivation Notification



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Revision History

V1 - 08/05/22 - Original slides posted.