

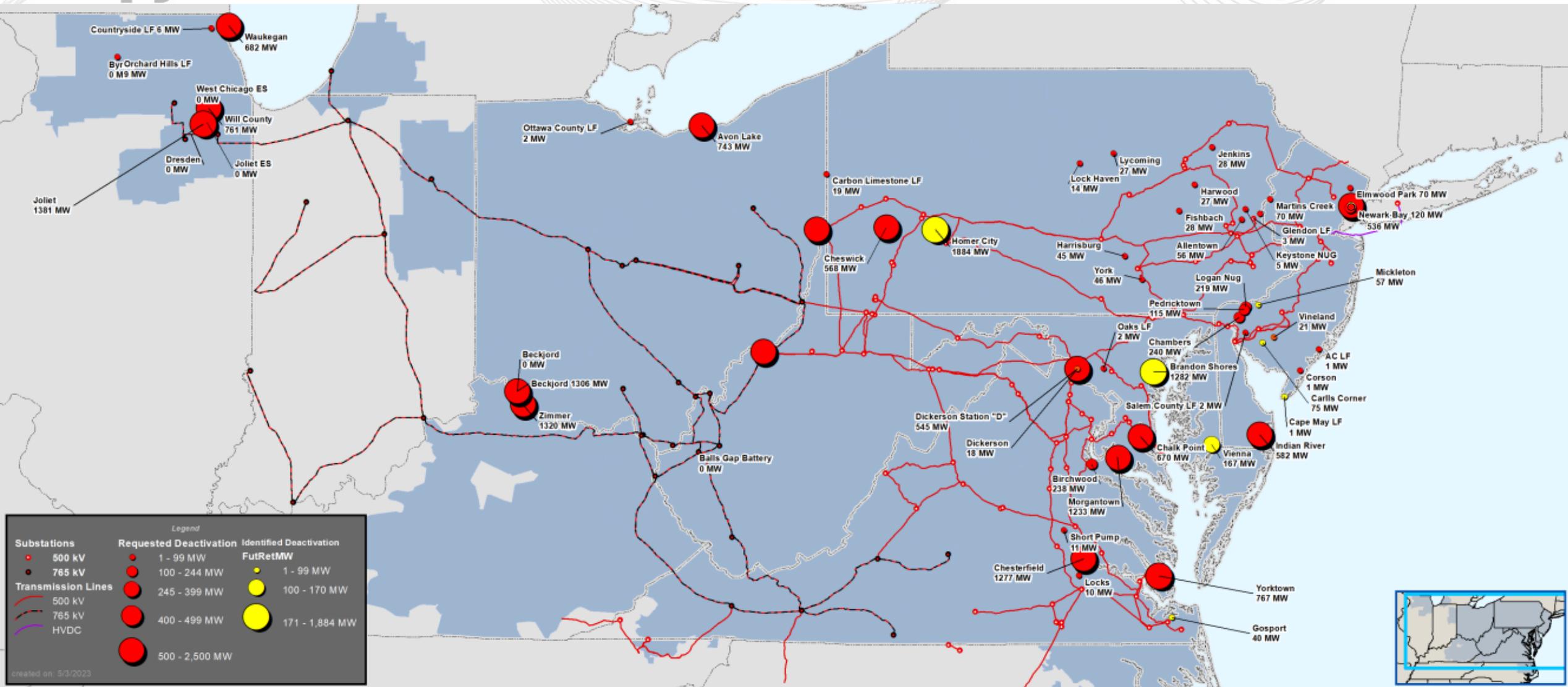


Generation Deactivation Notification Update

Transmission Expansion Advisory Committee
May 7, 2023



Generation Deactivation Announcements 2020-2023





Deactivation Status

Unit(s)	Transmission Zone	Requested Deactivation Date	PJM Reliability Status
Carlls Corner CT1 and CT2 -74 MW	ACE	6/1/2024	Reliability analysis underway
Mickleton CT1 - 57.2 MW	ACE	6/1/2024	Reliability analysis underway
Gosport 1 - 40 MW	Dominion	7/1/2024	Reliability analysis underway
Vienna 8 and 10 - 167.3 MW	DPL	6/1/2025	Reliability analysis underway
Homer City 1,2 and 3 - 1,884 MW	Penelec	7/1/2023	Reliability analysis underway
Brandon Shores 1 and 2 - 1,281.6 MW	BGE	6/1/2025	Reliability analysis underway
Cape May County Municipal LF -0.6 MW	ACE	10/1/2023	Reliability analysis underway

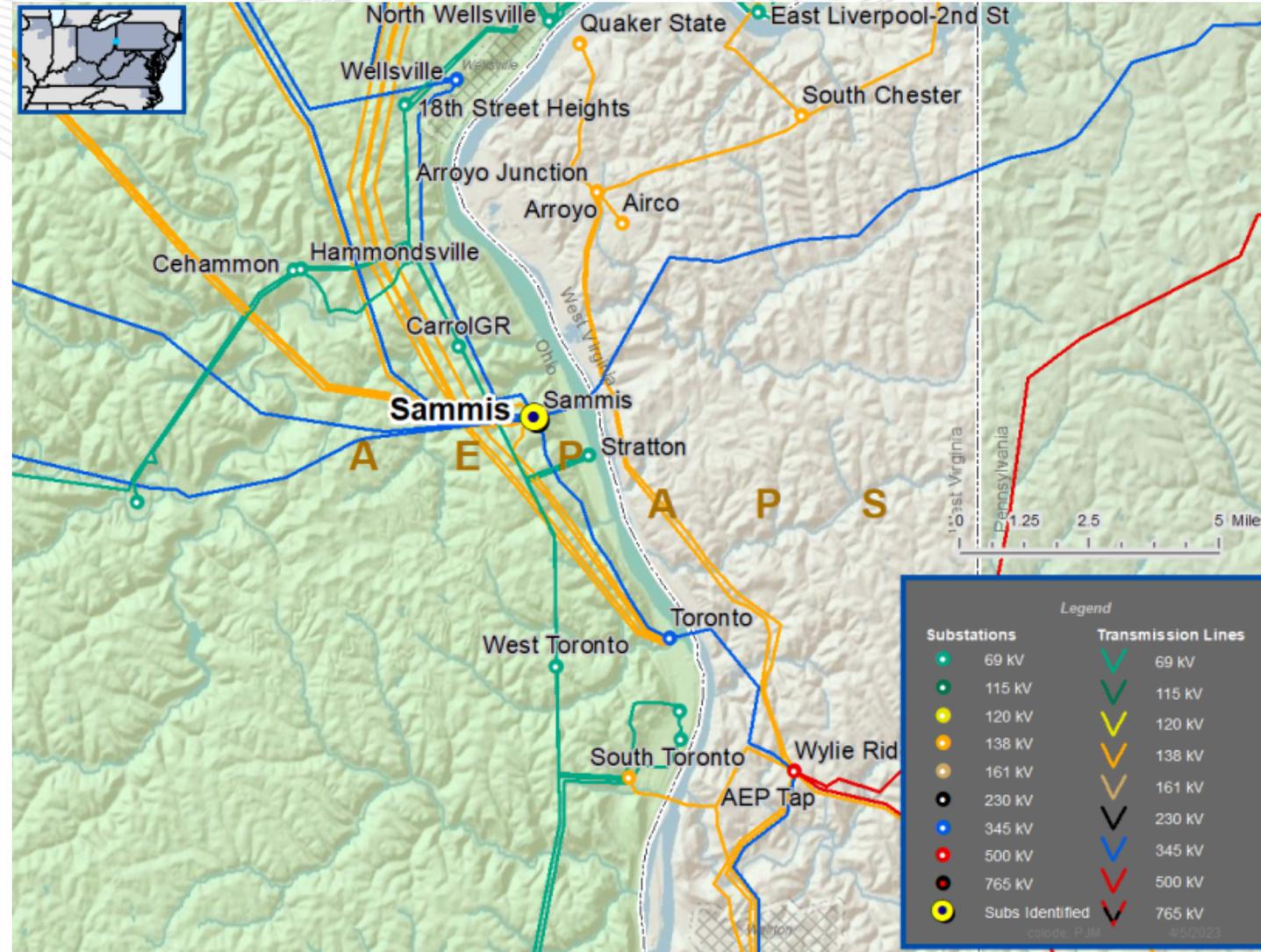
SECOND READ

Sammis 5,6, and 7 Deactivation – 1491.3 MW

- The actual deactivation date will be 06/01/2023
- All impacts and associated baseline projects were presented on 05/10/2022
- FE recently informed of the necessary substation work associated with deactivating those units (B3777)
 - Disconnect and remove three 345 kV breakers, foundations, and associated equipment from Sammis substation.
 - Remove nine 345 kV CVT's.
 - Remove two 345 kV disconnect switches.
 - Install new 345 kV buswork and foundations.
 - Install new fencing.
 - Remove and adjust relaying at Sammis substation

Estimated Cost: \$2.1M

Projected IS Date: 06/01/2023

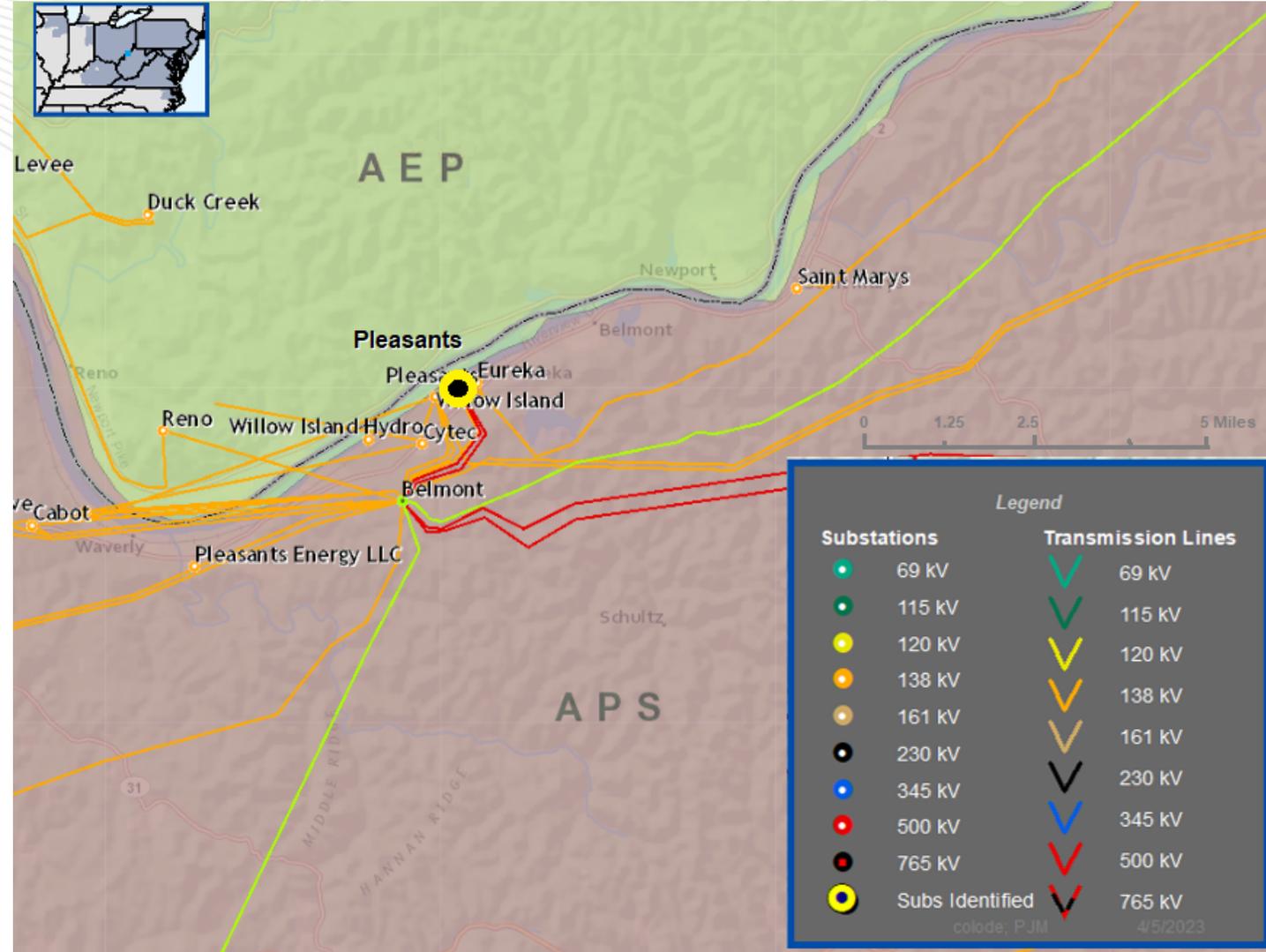


Pleasant 1 and 2 Deactivation – 1278 MW

- The actual deactivation date will be 06/01/2023
- All impacts and associated baseline project were presented on 05/10/2022
- FE recently informed of the necessary substation work associated with deactivating those units (B3778)
- Remove two spans for each Pleasant – Belmont 500 kV #1 and #2 line.
- Remove the Belmont – Pleasants 500 kV #1 and #2 Transmission Lines.
- Modify relay settings at Belmont Substation.

Estimated Cost: \$0.99M

Projected IS Date: 06/01/2023



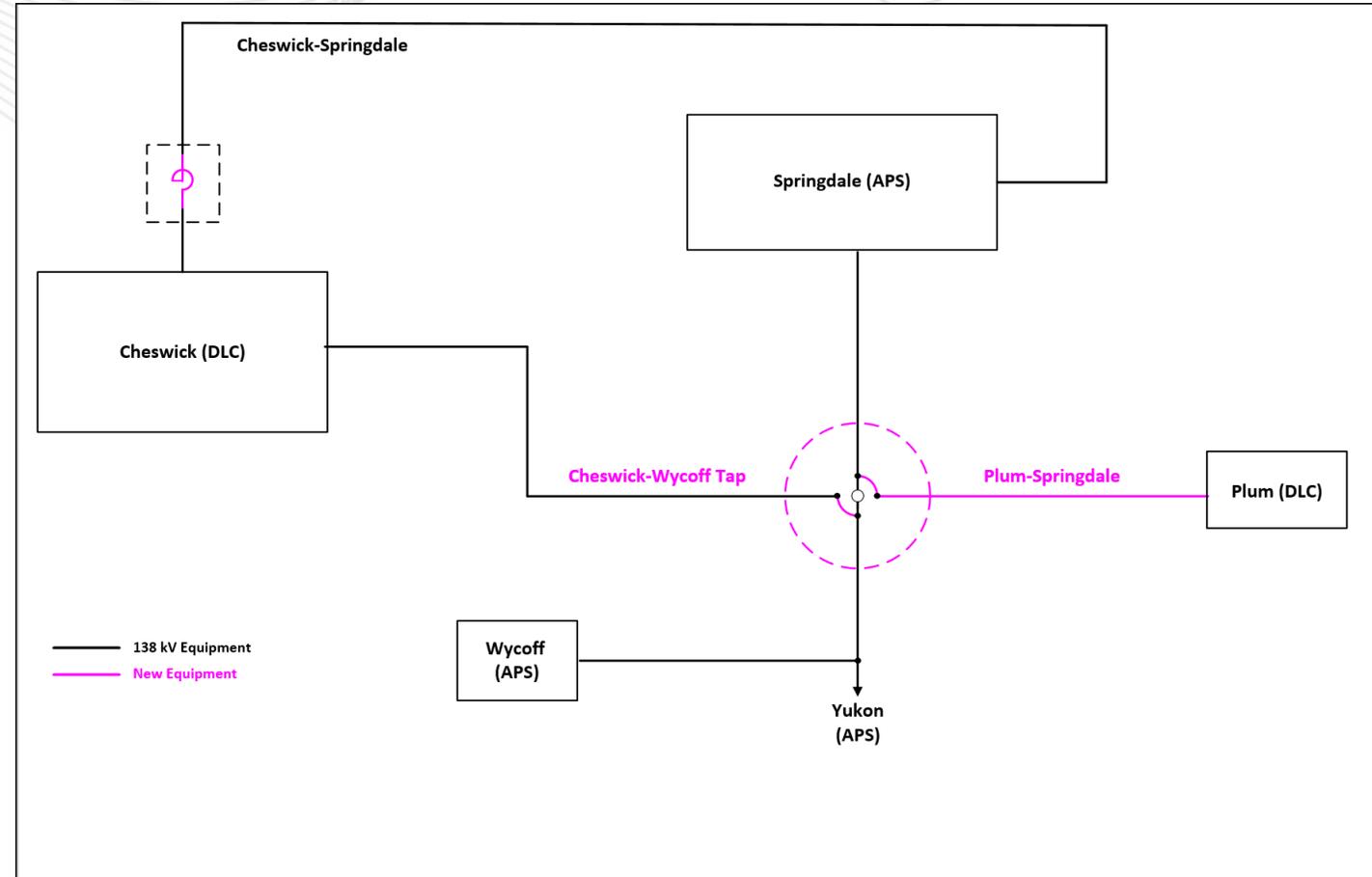
Cheswick Deactivation - 567.5 MW

- The actual deactivation date was 03/31/2022.
- FE recently informed of the necessary work associated with the existing baseline projects with Duquesne Light.
 - DLCO - B3717.1: Install a series reactor on Cheswick - Springdale 138 kV line.
 - **FE – B3713.3: Relay work at Springdale.**
 - DLCO - 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.
 - **FE - B3717.4: Transmission Line work – a new transmission structure and necessary tower work to handle the change in tension**

Projected ISD: 12/31/2024*

Estimated Cost: B3717.3 - \$1M, B3717.2: \$2M

* Operating measures identified to mitigate reliability impacts in interim.



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Generation Deactivation Notification



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Revision History

V1 - 05/04/23 - Original slides posted.

V1 - 05/16/23 - Scope and cost were updated on slide 6.