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October 2, 2023

**Via Electronic Filing**

Ms. Rosemary Chiavetta, Secretary  
Pennsylvania Public Utility Commission  
Commonwealth Keystone Building, 2<sup>nd</sup> Floor  
400 North Street  
Harrisburg, PA 17120

**Re: Letter of Notification of Duquesne Light Company, Filed Pursuant to 52 Pa. Code Chapter 57 Subchapter G, for Approval of the Cheswick-Plum Reconfiguration Project in Plum Borough, Allegheny County, Pennsylvania.- Data Requests Docket No. A-2023-3042138**

Dear Secretary Chiavetta:

Per the secretarial letter dated September 21, 2023. Enclosed please find Duquesne Light Company's responses to A-1 and A-2 of the provided data requests.

Please feel free to contact me if you have any questions, comments, or concerns.

Respectfully Submitted,



Emily M. Farah  
Counsel, Regulatory

Enclosures

cc: Jordan Van Order (via email, w/encl.)

**Bureau of Technical Utility Services**  
**Data Requests**  
Docket No. A-2023-3042138

Witness: Michelle Antantis

**A-1** Reference the Letter of Notification, Paragraph 11. Please provide a detailed description of the violations (e.g., thermal, voltage, etc.) and the transmission facilities on which the violations occur.

**Response:**

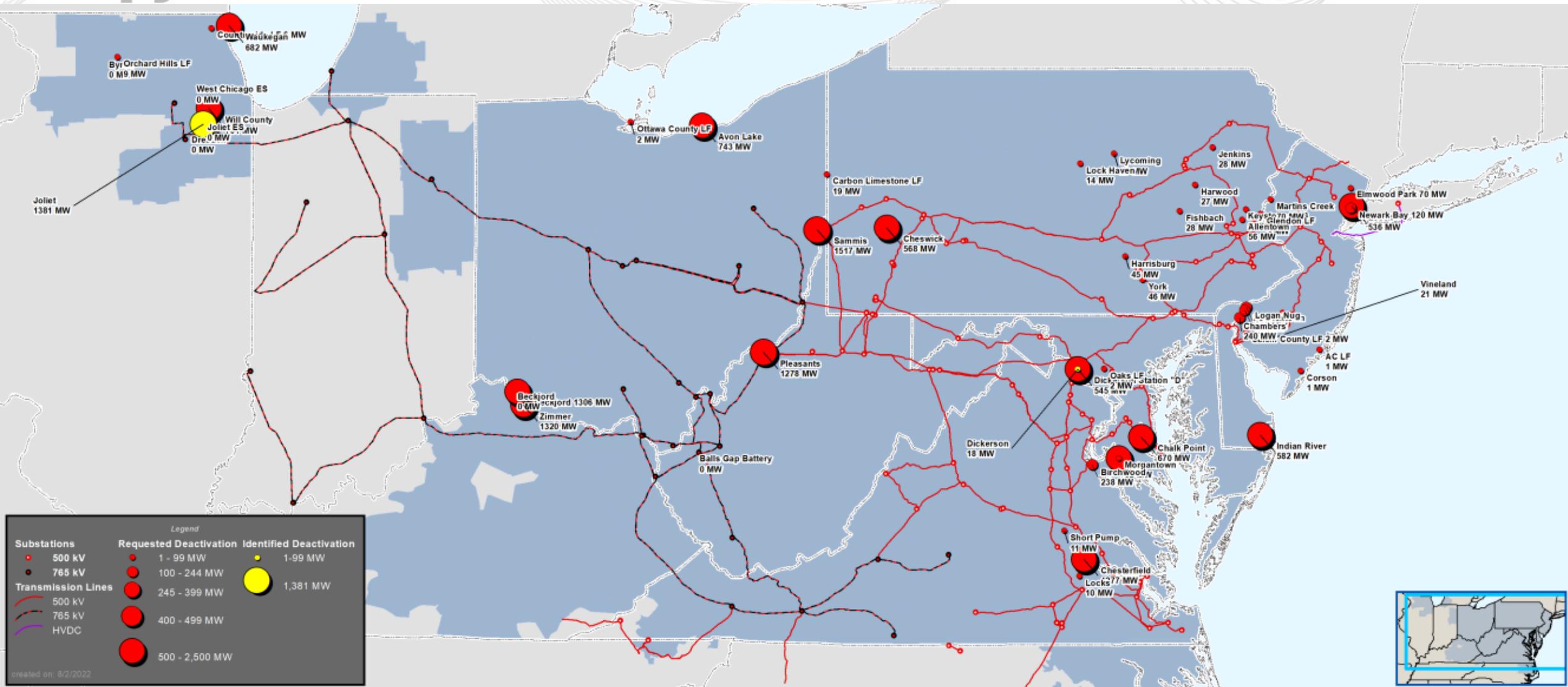
The deactivation of the Cheswick Generating Station in the northeast portion of the Duquesne Light system resulted in increased power flows from the southern tie lines into the southern and central portions of the Duquesne Light system. The N-1-1 analysis conducted by PJM and Duquesne Light identified that the change in transmission system flows could result in reliability criteria violations on Duquesne Light's transmission system, identified in footnote 6 of the Letter of Notification. The N-1-1 analysis identified the potential for thermal violations based on contingencies outlined in TPL-001-4, P3 and TPL-001-4, P6.

The summary of the N-1-1 analysis, referenced in footnote 2 of the Letter of Notification, is included with this response and identified as "A-1 Attachment." As shown on slide 4 of "A-1 Attachment," potential thermal violations were identified on four transmission lines: Collier-Elwyn (Z-62), Collier-Elwyn (Z-162), Carson-Oakland (Z-86), and Forbes-Oakland (Z-48).



# Generation Deactivation Notification Update

Transmission Expansion Advisory Committee  
August 9, 2022





# Deactivation Status

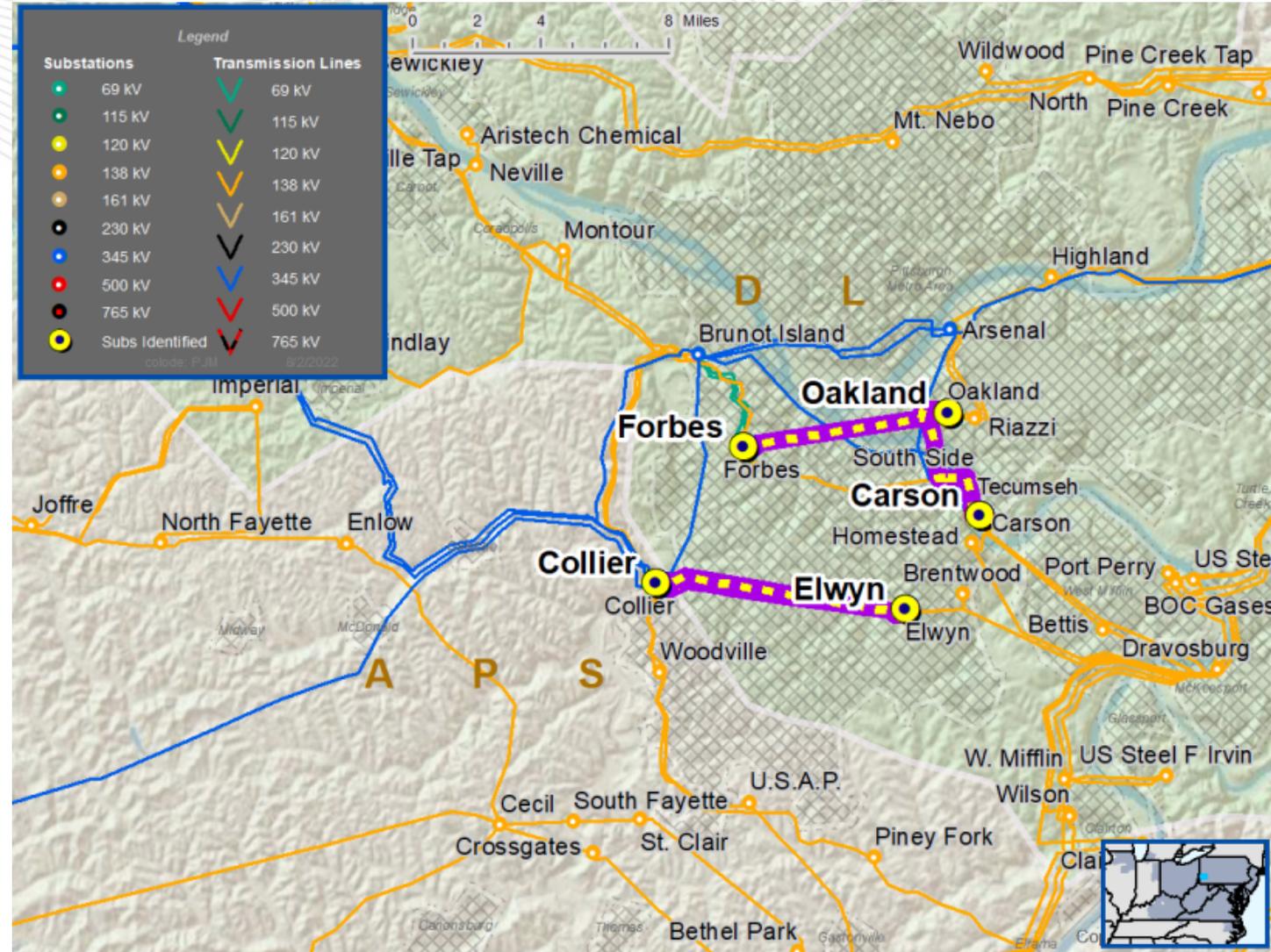
Unit(s)	Transmission Zone	Requested Deactivation Date	PJM Reliability Status
Vineland CT - 21.1 MW	ACE	10/10/2022	Reliability analysis complete. No violation identified. The unit can be deactivated as scheduled.
Joliet 6,7, and 8 - 1381 MW	ComEd	6/1/2023	Reliability analysis is underway.
Dickerson CT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

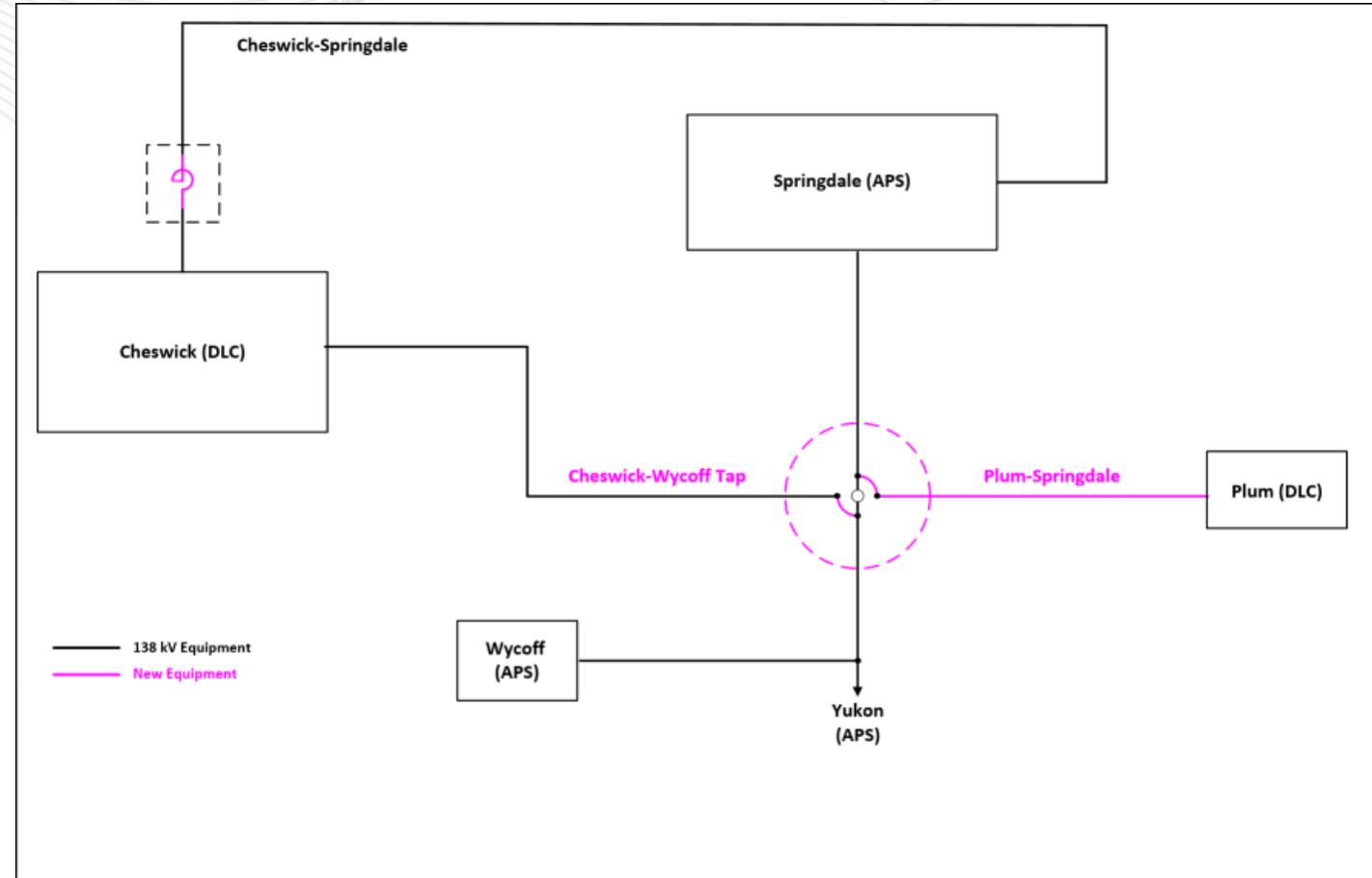
B3717.2: Transmission Line Rearrangement

- 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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Secretary:  
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## Generation Deactivation Notification



### Member Hotline

(610) 666 – 8980

(866) 400 – 8980

custsvc@pjm.com



# Revision History

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

**Bureau of Technical Utility Services**  
**Data Requests**  
Docket No. A-2023-3042138

Witness: Michelle Antantis

**A-2** Reference the Letter of Notification, Paragraph 18. Please provide a detailed explanation as to how the proposed project will address the issue.

**Response:**

As described in Paragraph 18 of the Letter of Notification, the Project consists of two main components: (i) replacement and/or relocation of four transmission structures on Company-owned property to interconnect with FirstEnergy, and (ii) reconductoring a 138kV transmission circuit for approximately three miles between the Duquesne Light Company Plum Substation and the FirstEnergy Springdale Substation.

As to the first component, interconnecting with FirstEnergy will allow additional power flow into the Duquesne Light system from the northeast and alleviate the potential thermal overloads on the four transmission lines identified in Response A-1.

As to the second component, the reconductoring will address potential thermal overload(s) on the Plum-Springdale 138 kV transmission line as a result of the interconnection.

**VERIFICATION**

I, Michelle Antantis, hereby state that the facts set forth above are true and correct to the best of my knowledge, information and belief, and I expect to be able to prove the same at a hearing held in this matter. I understand that the statements herein are made subject to the penalties of 18 Pa. C.S. § 4904 (relating to unsworn falsification to authorities).



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Michelle Antantis

Dated: October 2, 2023