

Submission of Supplemental Projects for Inclusion in the Local Plan

Duquesne Light Local Plan - 2025

DLCO Transmission Zone M-3 Process Carson Substation Breakers

Need Number: DLC-2025-001

Process Stage: Submission of Supplemental Project for inclusion in the 2025 Local Plan – 8/8/2025

Previously Presented:

Needs Meeting – 02/14/2025

Solution Meeting – 03/14/2025

Supplemental Project Driver(s):

- Equipment Material Condition, Performance, and Risk

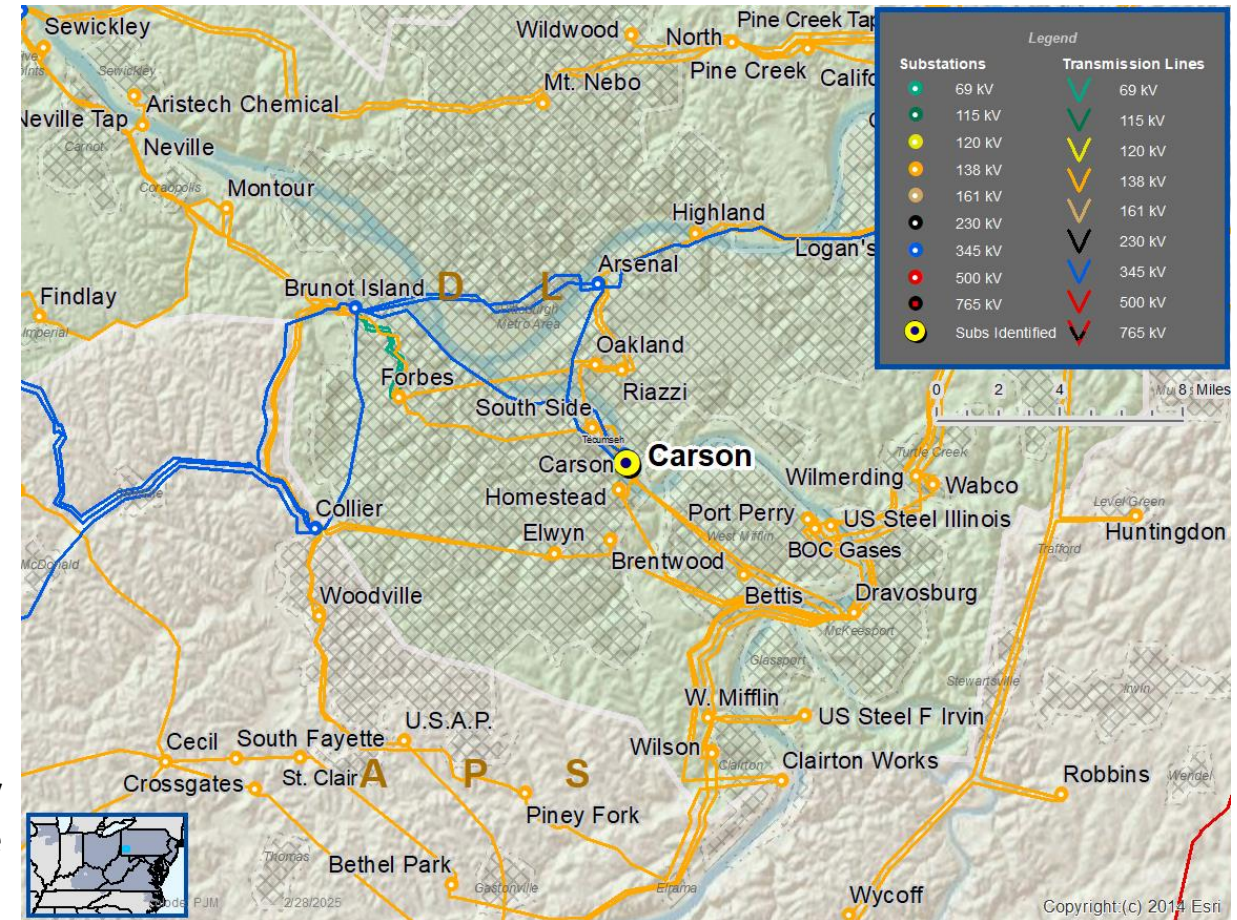
Specific Assumptions Reference:

Slide 6 of the DLC 2025 Local Planning Assumptions.

Problem Statement:

Duquesne Light's Asset Management team has determined two 138 kV oil breakers at Carson Substation have increased failure probability due to:

- Equipment Age (both 47 years)
- Obsolescence (Spare parts are not readily available)



DLCO Transmission Zone M-3 Process Carson Substation Breakers

Need Number: DLC-2025-001

Process Stage: Submission of Supplemental Project for inclusion in the 2025 Local Plan – 8/8/2025

Previously Presented:

Needs Meeting – 02/14/2025

Solution Meeting – 03/14/2025

Proposed Solution:

Replace two aged 138kV oil breakers with modern breakers

Estimated Cost: \$1.6 M

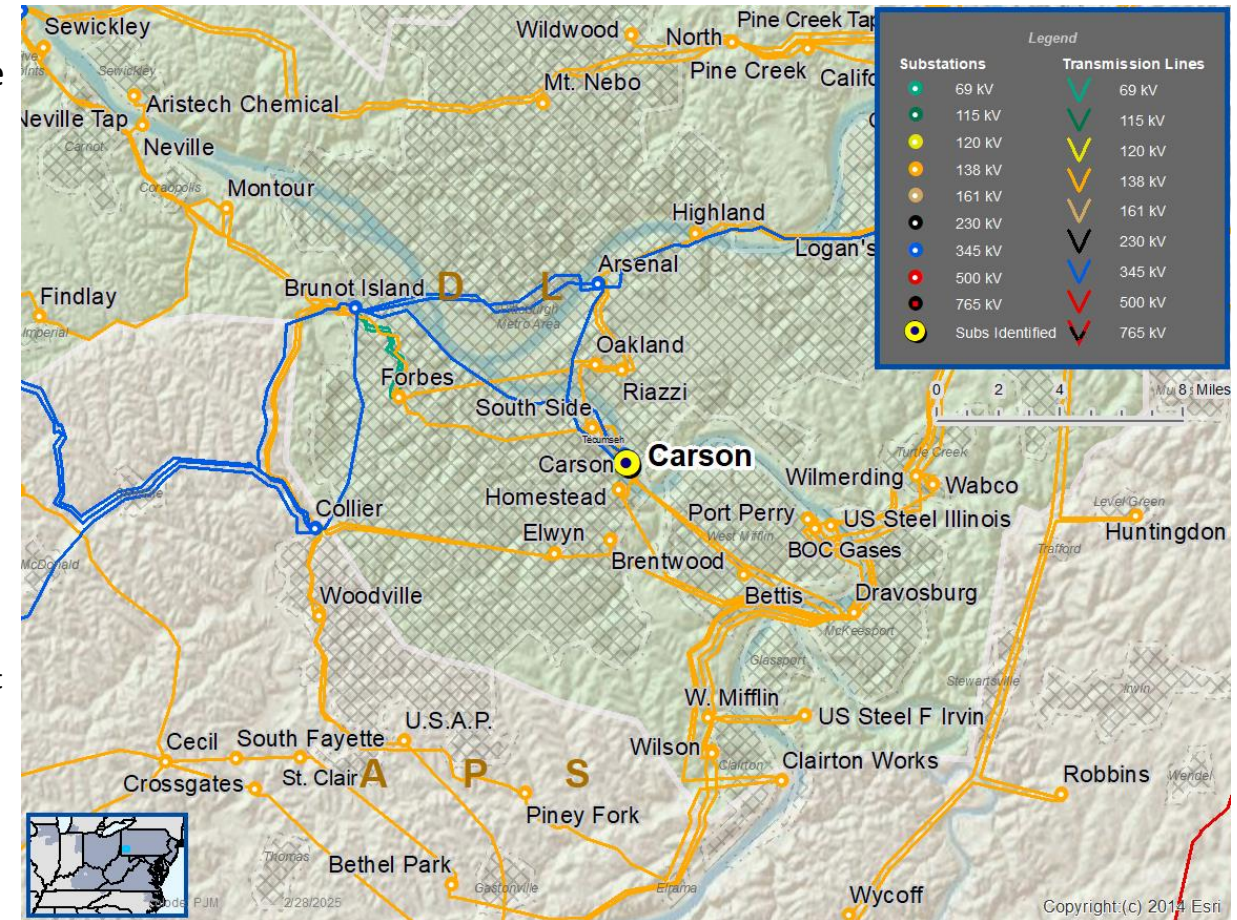
Alternatives Considered:

Maintain existing condition – Maintaining the existing condition of the equipment does not address the increased failure risk of the aged breakers

Projected In-Service: 12/31/2025

Project Status: Planning

Model: 2023 RTEP model for 2028 Summer (50/50)



DLCO Transmission Zone M-3 Process Dravosburg Substation Breaker

Need Number: DLC-2025-002

Process Stage: Submission of Supplemental Project for inclusion in the 2025 Local Plan – 8/8/2025

Previously Presented:

Needs Meeting – 02/14/2025

Solution Meeting – 03/14/2025

Supplemental Project Driver(s):

- Equipment Material Condition, Performance, and Risk

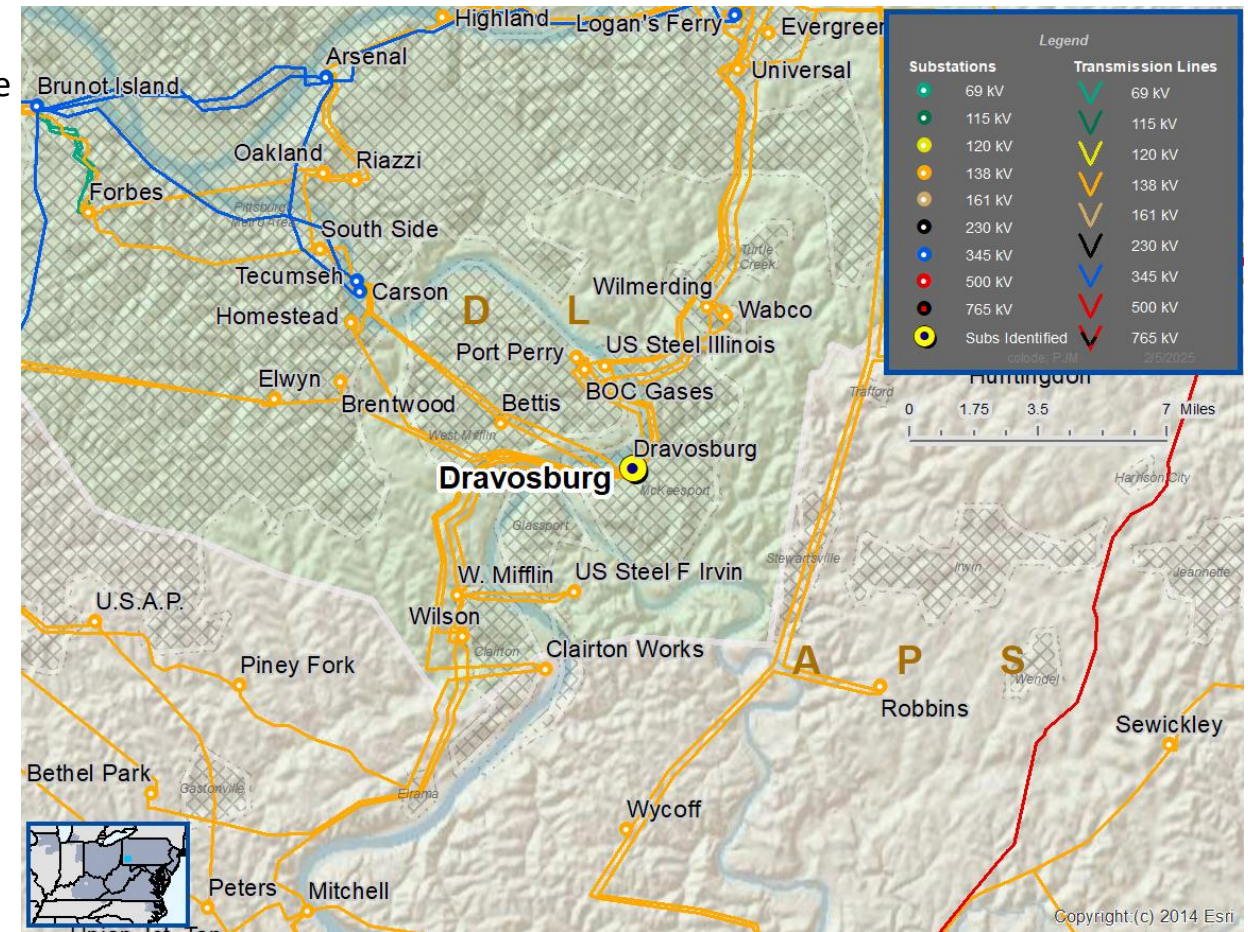
Specific Assumptions Reference:

Slide 6 of the DLC 2025 Local Planning Assumptions.

Problem Statement:

Duquesne Light's Asset Management team has determined that one 138kV oil circuit breaker at Dravosburg Substation has increased failure probability due to:

- Equipment Age (47 years)
- Obsolescence (Spare parts are not readily available)



DLCO Transmission Zone M-3 Process Dravosburg Substation Breaker

Need Number: DLC-2025-002

Process Stage: Submission of Supplemental Project for inclusion in the 2025 Local Plan – 8/8/2025

Previously Presented:

Needs Meeting – 02/14/2025

Solution Meeting – 03/14/2025

Proposed Solution:

Replace one aged 138kV breaker with a modern breaker

Estimated Cost: \$0.8 M

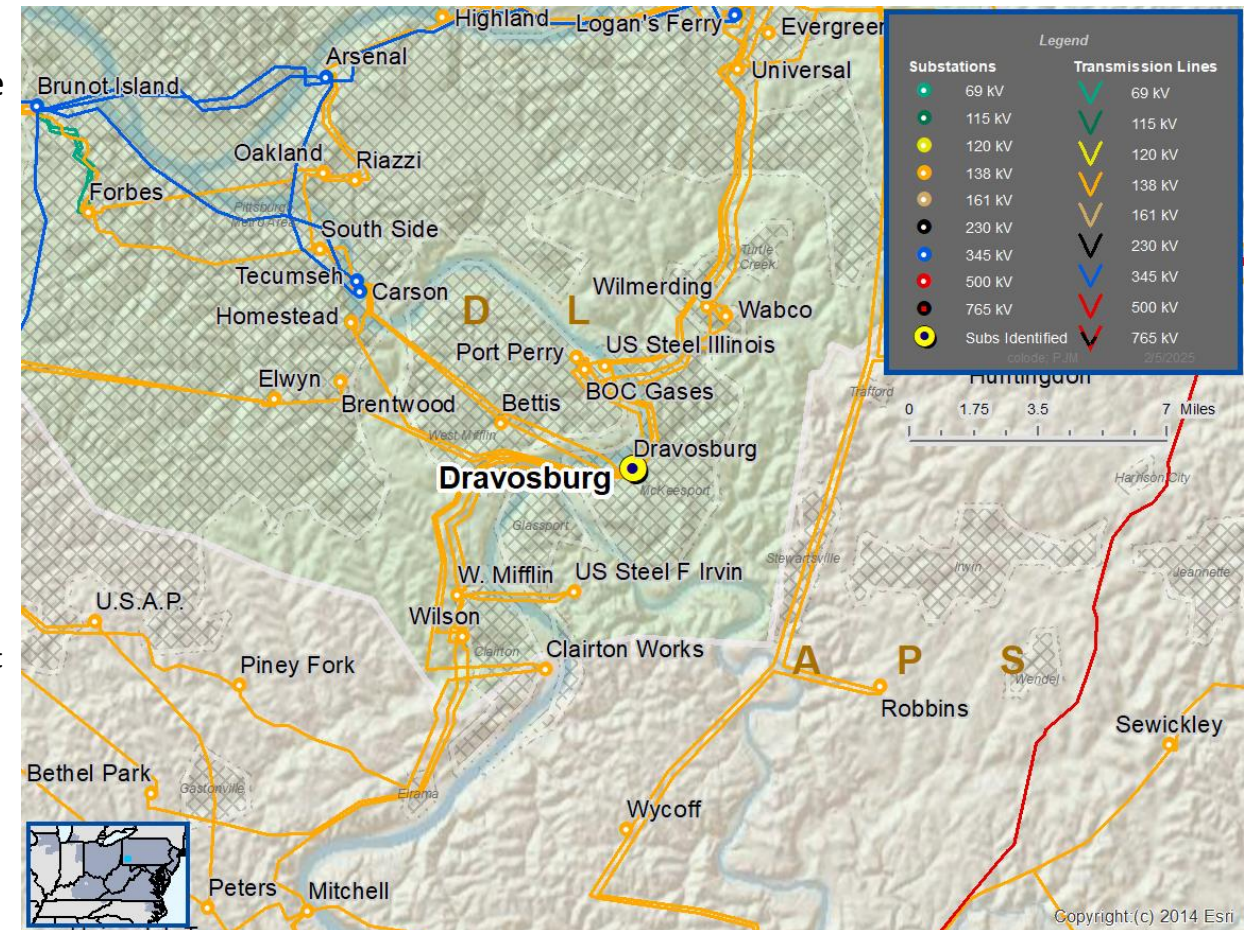
Alternatives Considered:

Maintain existing condition – Maintaining the existing condition of the equipment does not address the increased failure risk of the aged breaker

Projected In-Service: 12/31/2025

Project Status: Planning

Model: 2023 RTEP model for 2028 Summer (50/50)



DLCO Transmission Zone M-3 Process Findlay Substation Breaker

Need Number: DLC-2025-003

Process Stage: Submission of Supplemental Project for inclusion in the 2025 Local Plan – 8/8/2025

Previously Presented:

Needs Meeting – 02/14/2025

Solution Meeting – 03/14/2025

Supplemental Project Driver(s):

- Equipment Material Condition, Performance, and Risk

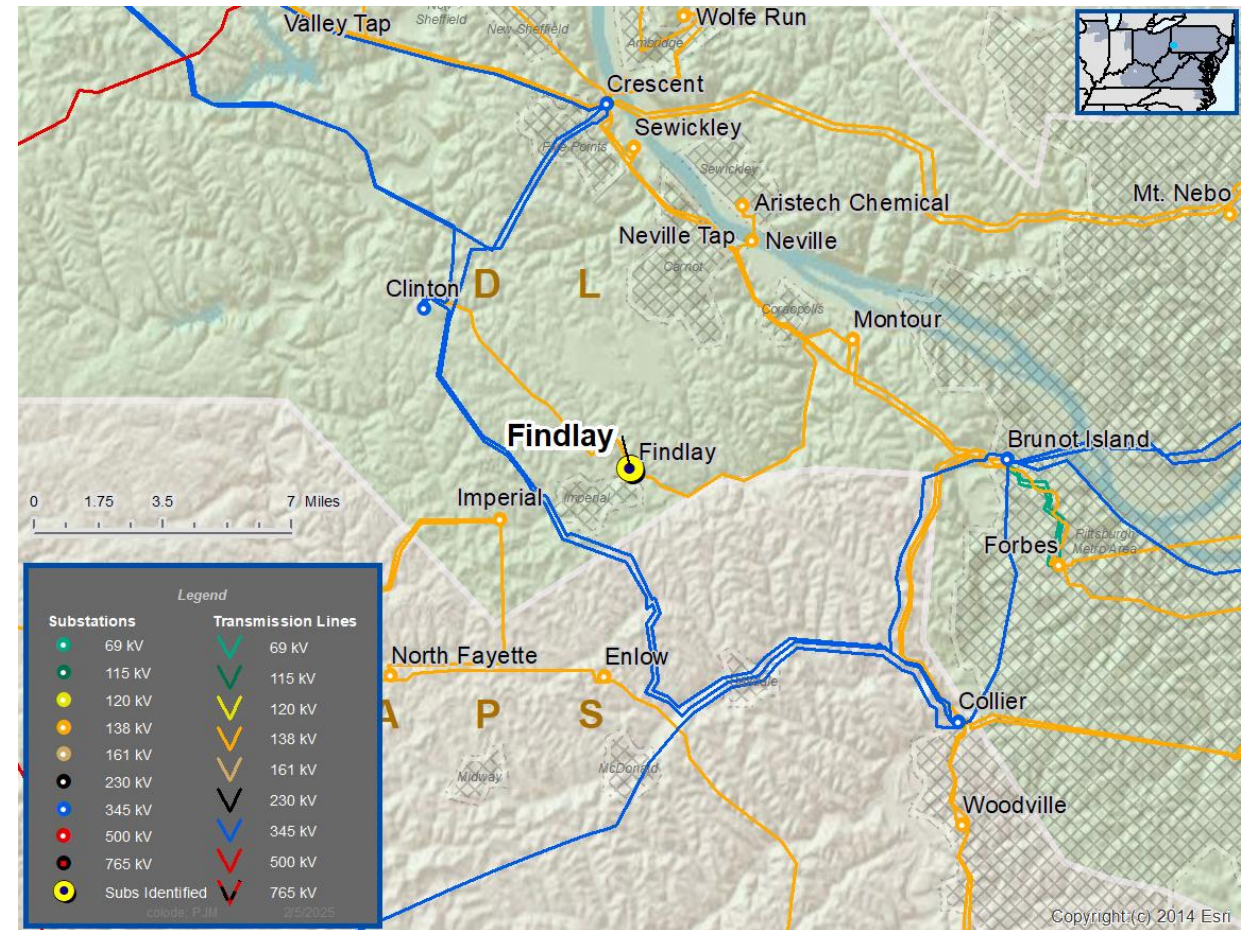
Specific Assumptions Reference:

Slide 6 of the DLC 2025 Local Planning Assumptions.

Problem Statement:

Duquesne Light's Asset Management team has determined one 138kV oil circuit breaker at Findlay Substation has increased failure probability due to:

- Equipment Age (34 years)
- Obsolescence (Spare parts are not readily available)
- Failed bushing power factor test



DLCO Transmission Zone M-3 Process Findlay Substation Breaker

Need Number: DLC-2025-003

Process Stage: Submission of Supplemental Project for inclusion in the 2025 Local Plan – 8/8/2025

Previously Presented:

Needs Meeting – 02/14/2025
Solution Meeting – 03/14/2025

Proposed Solution:

Replace one aged 138kV breaker with a modern breaker

Estimated Cost: \$0.8 M

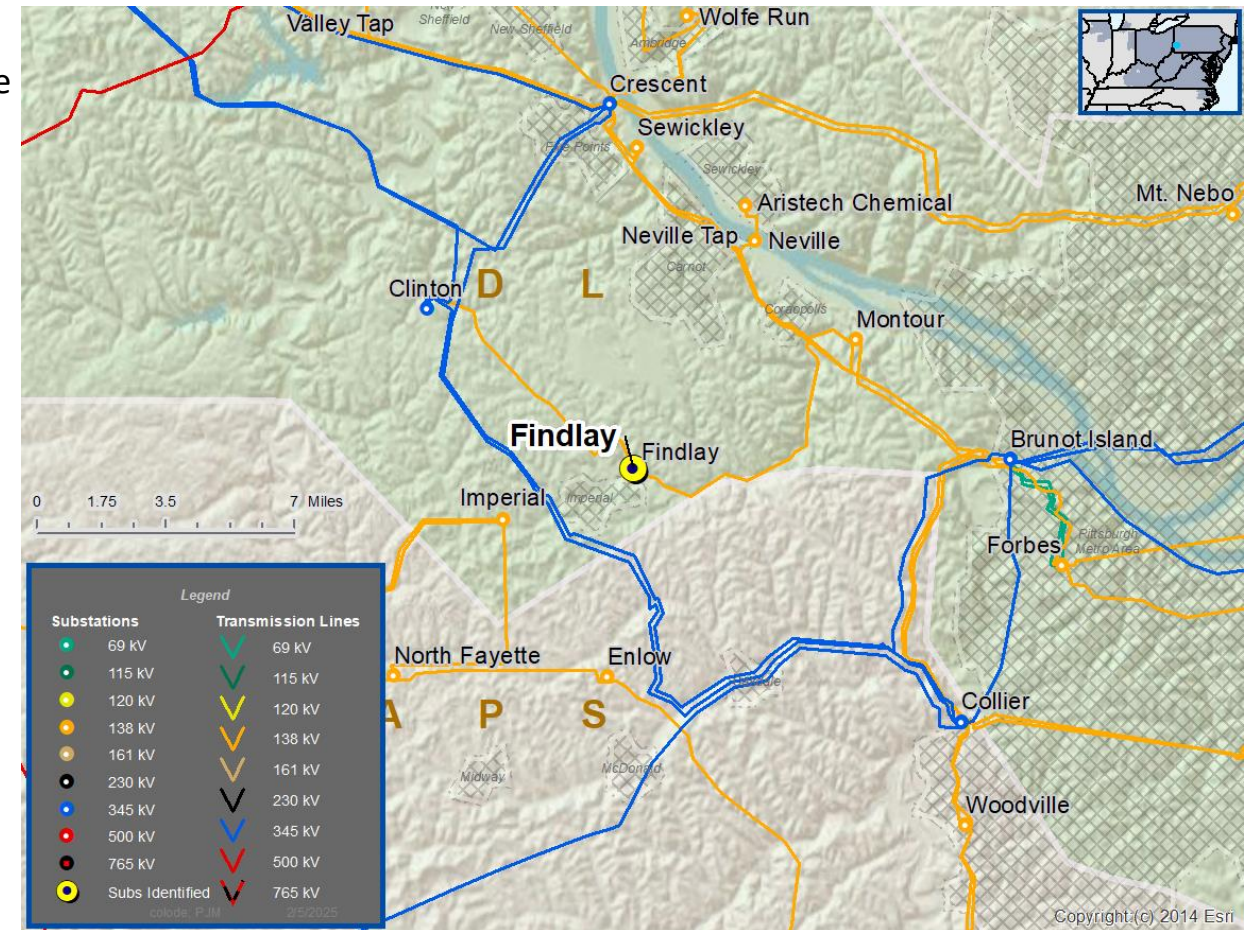
Alternatives Considered:

Maintain existing condition – Maintaining the existing condition of the equipment does not address the increased failure risk of the aged breaker

Projected In-Service: 12/31/2025

Project Status: Planning

Model: 2023 RTEP model for 2028 Summer (50/50)



DLCO Transmission Zone M-3 Process Neville Substation Breaker

Need Number: DLC-2025-004

Process Stage: Submission of Supplemental Project for inclusion in the 2025 Local Plan – 8/8/2025

Previously Presented:

Needs Meeting – 02/14/2025

Solution Meeting – 03/14/2025

Supplemental Project Driver(s):

- Equipment Material Condition, Performance, and Risk

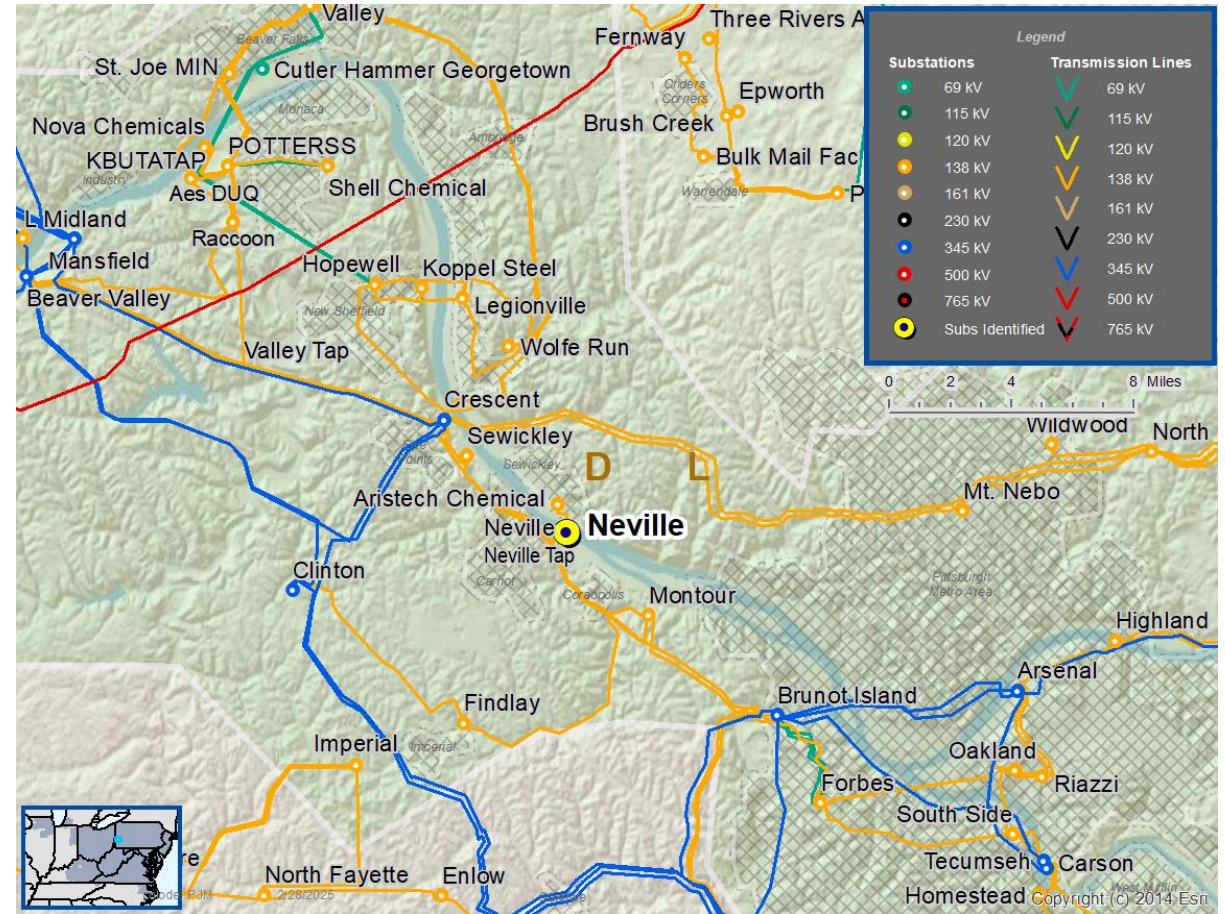
Specific Assumptions Reference:

Slide 6 of the DLC 2025 Local Planning Assumptions.

Problem Statement:

Duquesne Light's Asset Management team has determined one oil circuit breaker at Neville Substation has increased failure probability due to:

- Equipment Age (55 years)
- Obsolescence (Spare parts are not readily available)



DLCO Transmission Zone M-3 Process Neville Substation Breaker

Need Number: DLC-2025-004

Process Stage: Submission of Supplemental Project for inclusion in the
2025 Local Plan – 8/8/2025

Previously Presented:

Needs Meeting – 02/14/2025

Solution Meeting – 03/14/2025

Proposed Solution:

Replace one aged 138kV breaker with a modern breaker

Estimated Cost: \$0.8 M

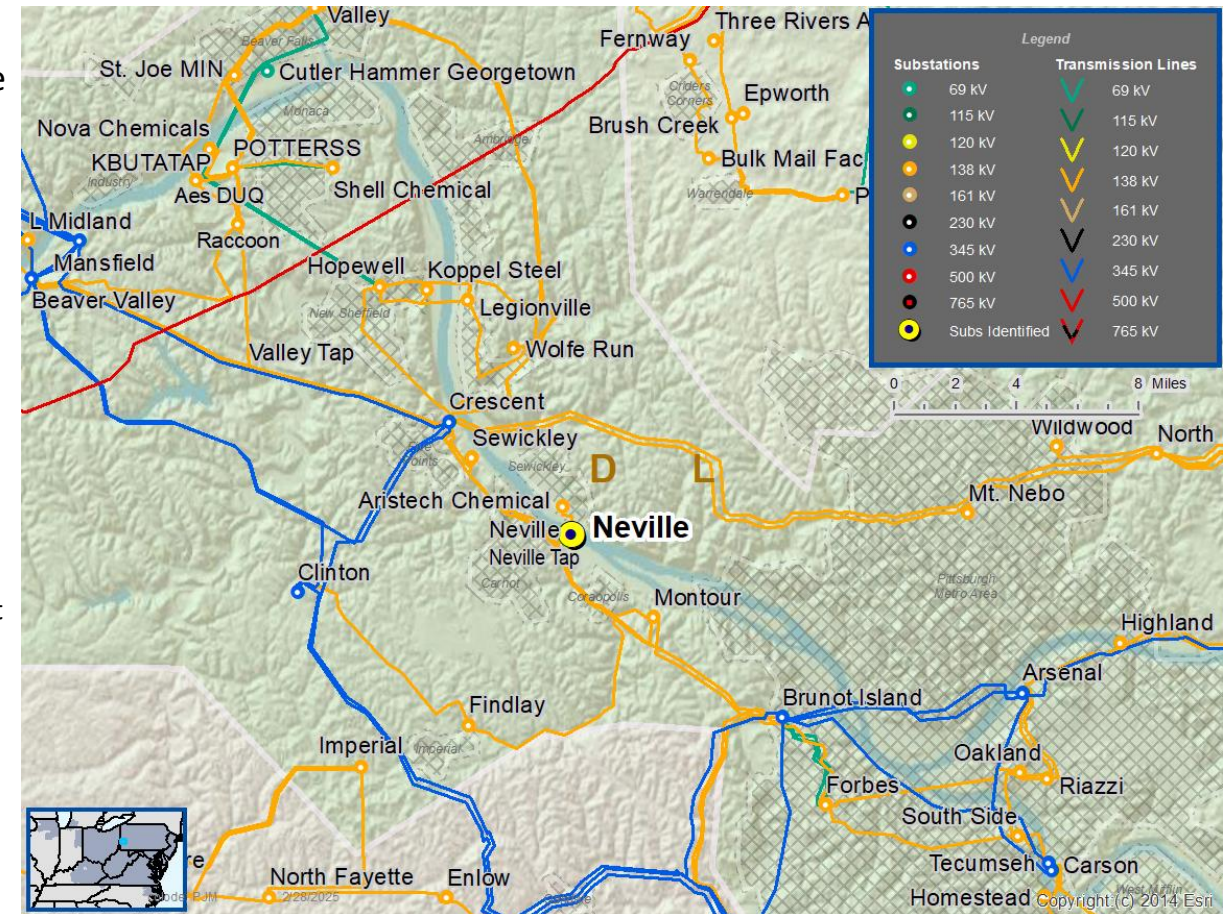
Alternatives Considered:

Maintain existing condition – Maintaining the existing condition of the equipment does not address the increased failure risk of the aged breaker.

Projected In-Service: 12/31/2025

Project Status: Planning

Model: 2023 RTEP model for 2028 Summer (50/50)



Revision History:

08/08/2025 – V1 – Initial Posting (DLC-2025-001, DLC-2025-002, DLC-2025-003 and DLC-2025-004)