

Submission of Supplemental Projects for Inclusion in the Local Plan

Duquesne Light Local Plan - 2026

DLCO Transmission Zone M-3 Process Brunot Island Substation

Need Number: DLC-2026-001

Process Stage: Submission of Supplemental Project for inclusion in the 2026 Local Plan – 9/21/2026

Previously Presented: Solution Meeting SRRTEP-W - 05/15/2026

Previously Presented: Need Meeting 03/19/2026

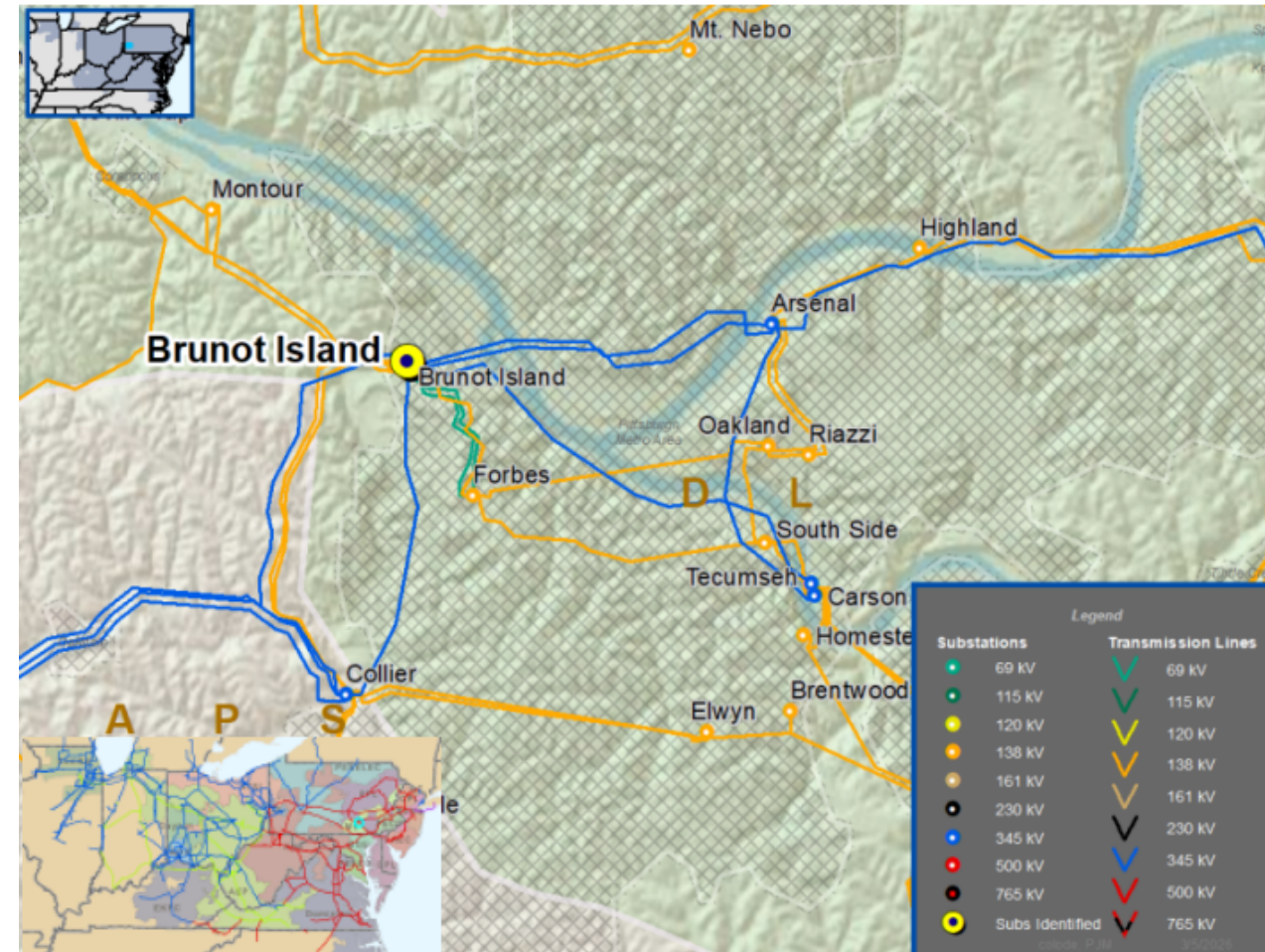
Project Driver: Equipment Condition/Performance/Risk

Slide 6 of the DLC 2026 Local Planning Assumptions.

Problem Statement:

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

- Equipment Age (49 years)
- Obsolescence (Spare parts are not readily available)



DLCO Transmission Zone M-3 Process Brunot Island Substation

Need Number: DLC-2026-001

Process Stage: Submission of Supplemental Project for inclusion
in the 2026 Local Plan – 9/21/2026

Proposed Solution:

Replace one aged 138 kV breaker with a modern breaker

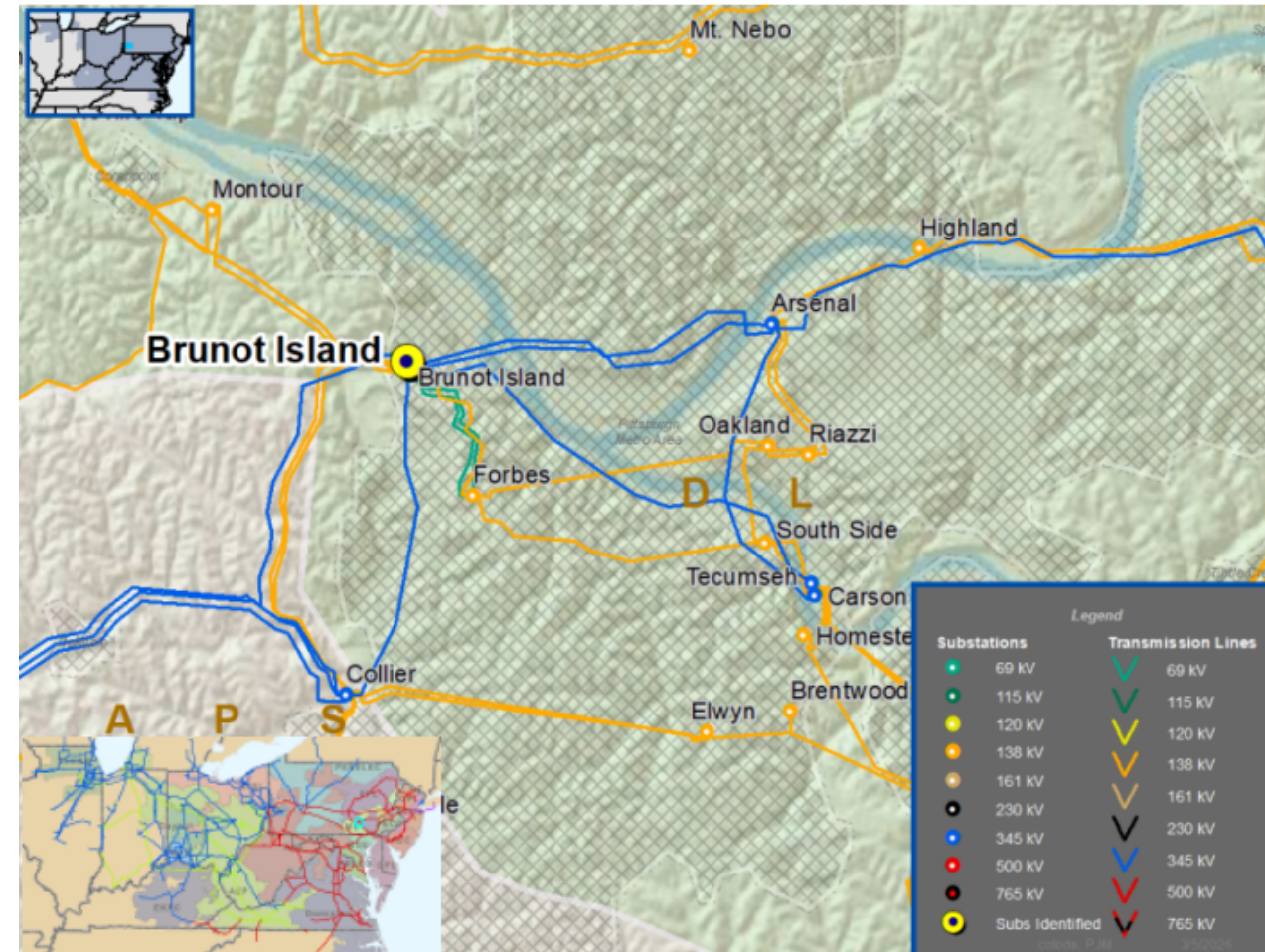
Alternatives Considered:

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

Cost Estimate: \$0.825 M

Projected In-Service: 12/31/2026

Supplemental number: s3929.1



DLCO Transmission Zone M-3 Process Monroeville, PA

Need Number: DLC-2024-003

Process Stage: Submission of Supplemental Project for inclusion in the
2026 Local Plan – 9/21/2026

Previously Presented: Solution Meeting – 09/09/2025
Needs Meeting – 10/18/2024

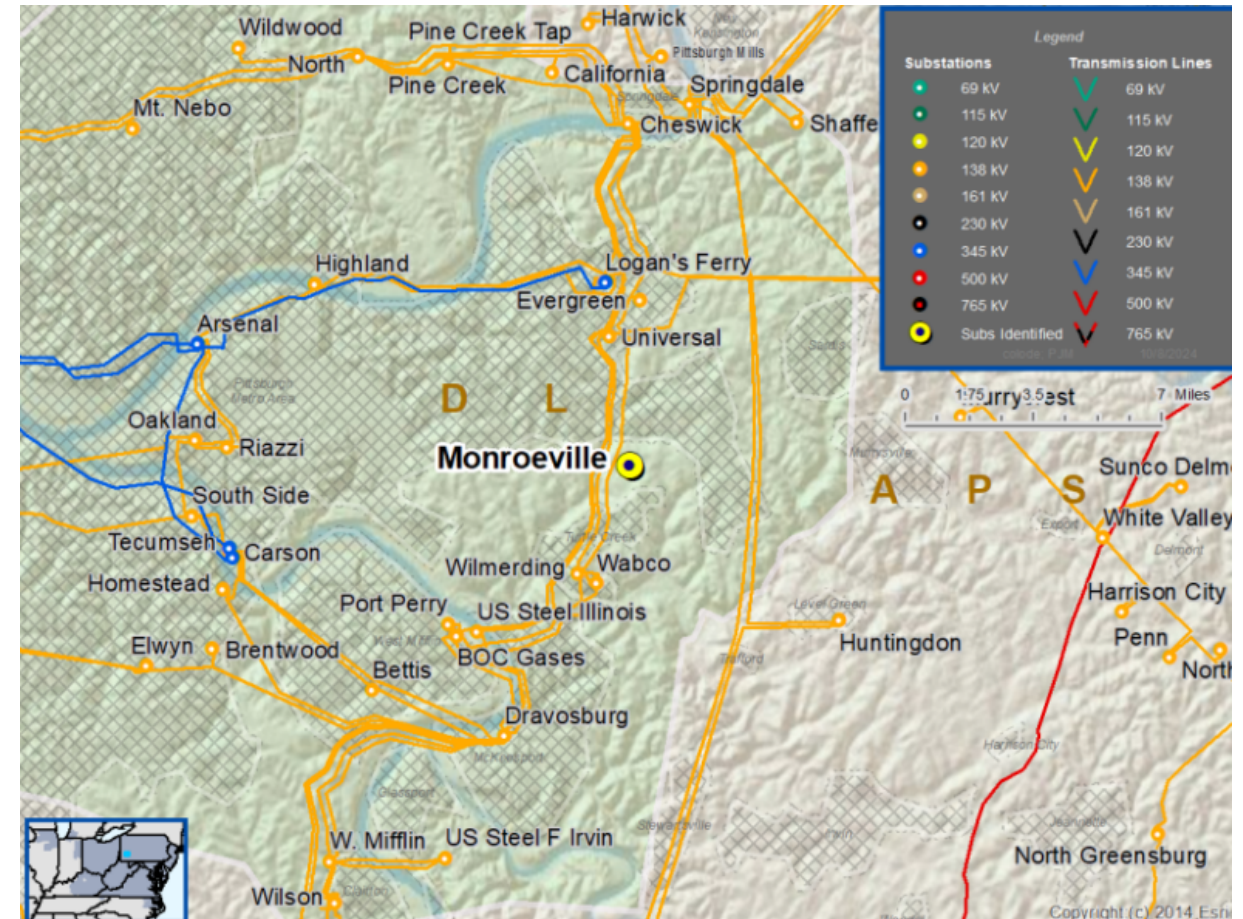
Customer Service

Specific Assumption References:

Slide 9 of the DLC 2024 Local Planning Assumptions.

Problem Statement:

Duquesne Light has received a customer request to serve a new customer in Monroeville, Pennsylvania. The request is for up to 250 MW. The customer is requesting service as soon as possible.



DLCO Transmission Zone M-3 Process Monroeville, PA

Need Number: DLC-2024-003

Process Stage: Submission of Supplemental Project for inclusion in the 2026 Local Plan – 9/21/2026

Proposed Solution:

- Duquesne Light Scope of Work - Estimated Cost: \$41.1 M
 - Establish a new breaker-and-a-half substation, McGinley Substation, to serve the requested customer load. Establishing this substation requires the looping of the Cheswick (DLC) – Yukon (FE) 138 kV transmission line and the Springdale (FE) – Huntingdon (FE) 138 kV transmission line. McGinley Substation is to be comprised of twelve 138 kV breakers and a 50 MVAR capacitor bank. Upgrade and coordinate relaying at Cheswick Substation. **(s3928.1)**
 - Install mechanical refrigeration on the existing Brunot Island – Carson 345 kV HPFF transmission circuit to mitigate a violation of DLC’s local planning criteria. **(s3928.3)**
- FirstEnergy Scope of Work - Estimated Cost: \$5.2 M
 - Loop the Huntingdon – Springdale and Cheswick – Yukon 138 kV Lines into McGinley Substation.
 - Replace a 138 kV breaker at Huntingdon Substation.
 - Upgrade and coordinate relaying at remote FE substations. **(s3928.2)**

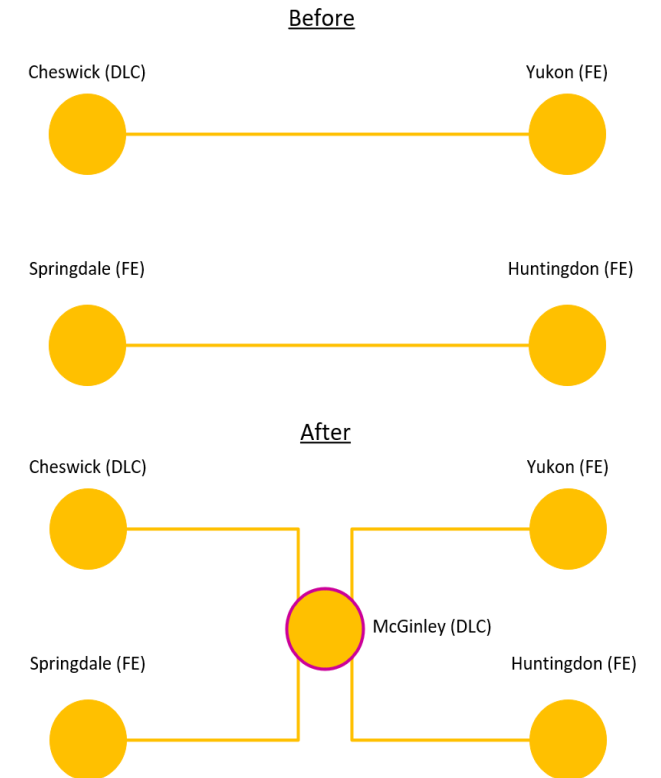
Total Estimated Cost: \$46.3 M

Alternatives Considered:

- 1. Loop One 138 kV Circuit** – Interconnection studies determined the looping of a single 138 kV circuit is insufficient as a loss of one feed into the station would result in an undervoltage at McGinley Substation. Estimated Cost: N/A
- 2. Establish new Brunot Island – Carson 345 kV Circuit** - DLC evaluated the construction of a new underground 345 kV circuit to mitigate the observed violation of DLC’s local planning criteria. This alternative was not selected due to the significant cost and lengthy timeline to construct. Estimated cost: \$210 M

Projected In-Service: January 2029

Supplemental number: s3928.1, s3928.2 and s3928.3



Legend	
345 kV	
138 kV	
69 kV	
23 kV	
New	

Revision History:

9/21/2026 – V1 – Initial Posting (DLC-2026-001 & DLC-2024-003)