Subregional RTEP Committee – Western
Duquesne Light Supplemental Projects

September 9, 2025

Solutions

Stakeholders must submit any comments within 10 days of this meeting in order to provide time necessary to consider these comments prior to the next phase of the M-3 process

DLCO Transmission Zone M-3 Process
Monroeville, PA

Need Number: DLC-2024-003

Process Stage: Solution Meeting – 09/09/2025

Needs Meeting – 10/18/2024

Project Driver:

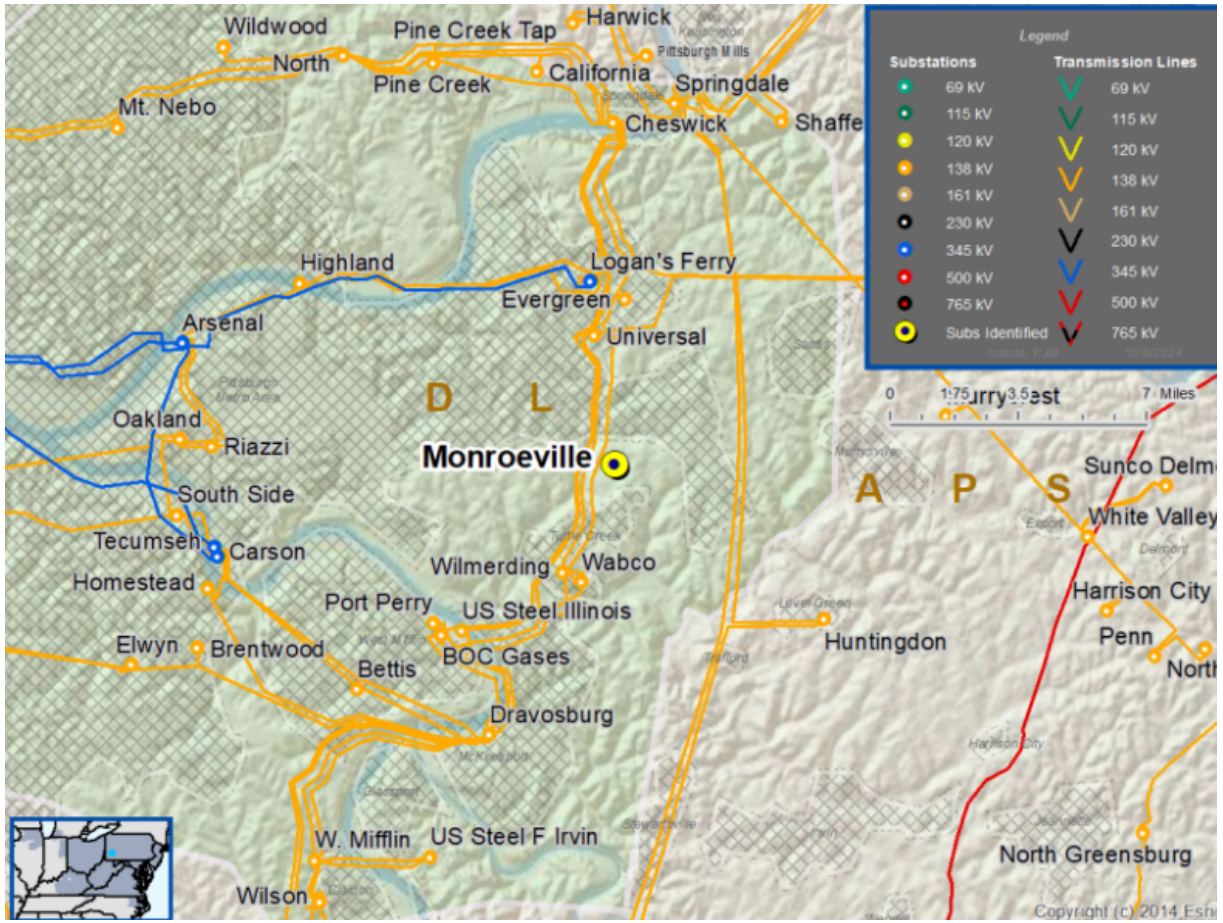
Customer Service

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: Solution Meeting – 09/09/2025

Needs Meeting – 10/18/2024

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.
  - Install mechanical refrigeration on the existing Brunot Island – Carson 345 kV HPFF transmission circuit to mitigate a violation of DLC's local planning criteria.
- FirstEnergy Scope of Work - Estiamated 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.

Total Estimated Cost: $46.3 M

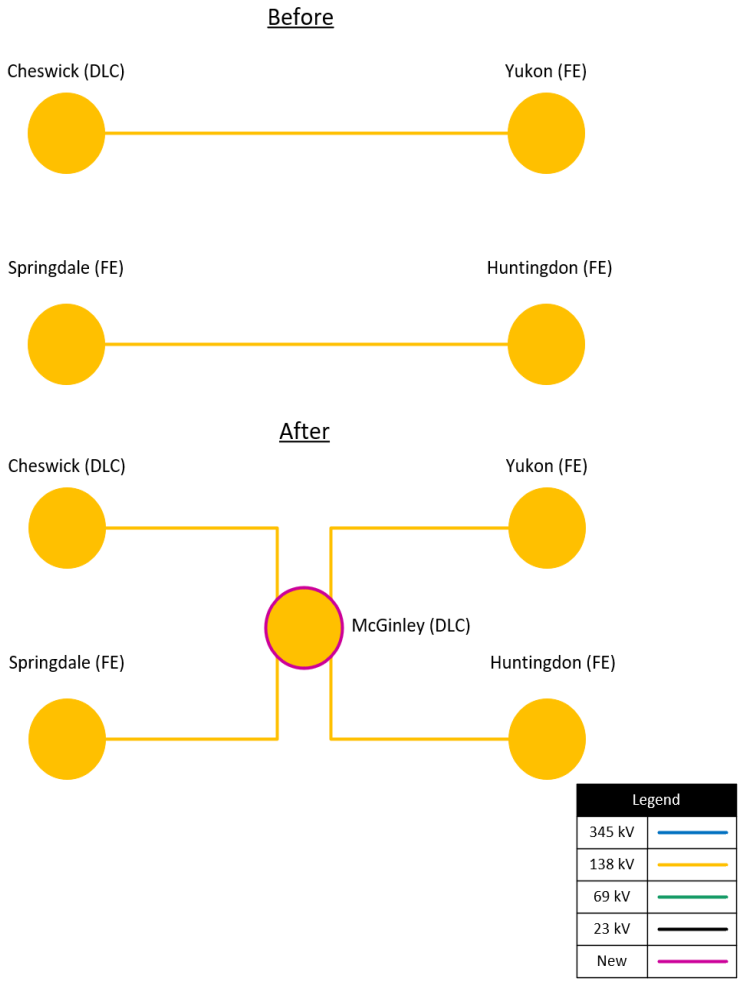
Alternatives Considered:

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

Project Status: Planning

Model: 2024 RTEP model for 2029 Summer (50/50)



Appendix

High Level M-3 Meeting Schedule

Assumptions

Activity	Timing
Posting of TO Assumptions Meeting information	20 days before Assumptions Meeting
Stakeholder comments	10 days after Assumptions Meeting

Needs

Activity	Timing
TOs and Stakeholders Post Needs Meeting slides	10 days before Needs Meeting
Stakeholder comments	10 days after Needs Meeting

Solutions

Activity	Timing
TOs and Stakeholders Post Solutions Meeting slides	10 days before Solutions Meeting
Stakeholder comments	10 days after Solutions Meeting

Submission of Supplemental Projects & Local Plan

Activity	Timing
Do No Harm (DNH) analysis for selected solution	Prior to posting selected solution
Post selected solution(s)	Following completion of DNH analysis
Stakeholder comments	10 days prior to Local Plan Submission for integration into RTEP
Local Plan submitted to PJM for integration into RTEP	Following review and consideration of comments received after posting of selected solutions

Revision History

8/29/2025– V1 – Original version posted to pjm.com