

Submission of Supplemental Projects for Inclusion in the Local Plan

Need Number: NEET-2021-01

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 6/1/2021

Previously Presented: Solutions Meeting 03/09/2021 and 05/11/2021; Needs Meeting 02/09/2021

Project Driver:
Equipment Material Condition, Performance and Risk

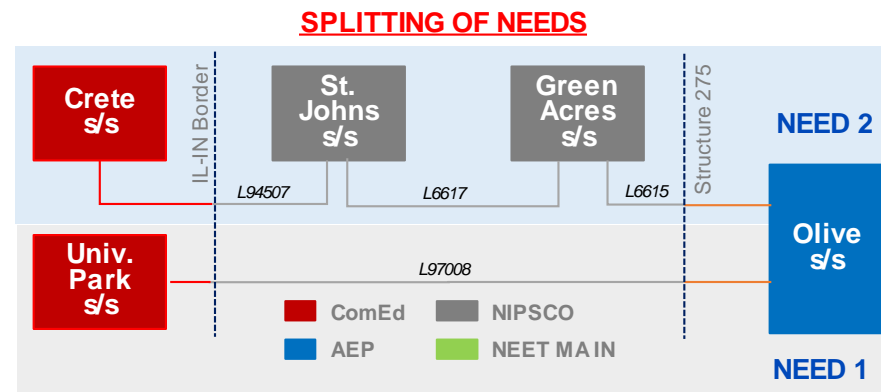
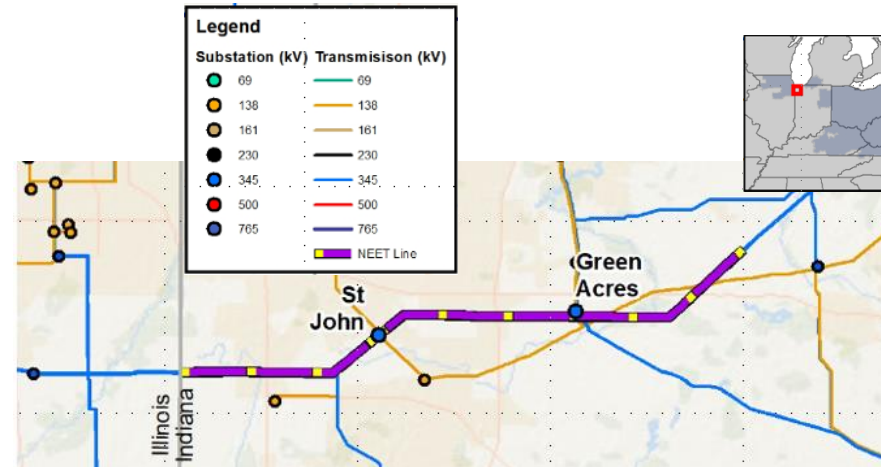
Specific Assumption Reference:
[NEET MA IN 2021 Annual Assumption](#) and
[Asset Management Strategy](#)
EOL/Condition/Obsolescence

Problem Statement:

NEET MidAtlantic IN 345kV (double-circuit) transmission line assets are ~20 miles representing four segments. Asset represents 115 galvanized steel lattice structures:

University Park to Olive (L97008)

- Transmission lines were built in 1958 and are over 60 years old. Reliability concerns with increased failure probability is expected as components have exceeded the industry recommended service life
- The existing 1414 kCMIL (62/19) paper expanded conductor is obsolete and no longer manufactured
- Structural components are exhibiting significant deterioration
 - Structural corrosion, insulator EOL, foundation wear, lack of cathodic protection, missing structural components and section loss, etc.



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Selected Solution:

Rebuild the (L97008) of the ~20 mile double-circuit line with monopoles and new conductor utilizing existing ROW:

- Facility Before: 1414 ACSR Paper Expanded Conductor
- Facility After: 2 x 1033.5 ACSS “Curlew” Conductor
- The Circuit Rating is limited by Substation Equipment

Estimated Project Cost: \$51.9M¹

Supplemental ID: s2509

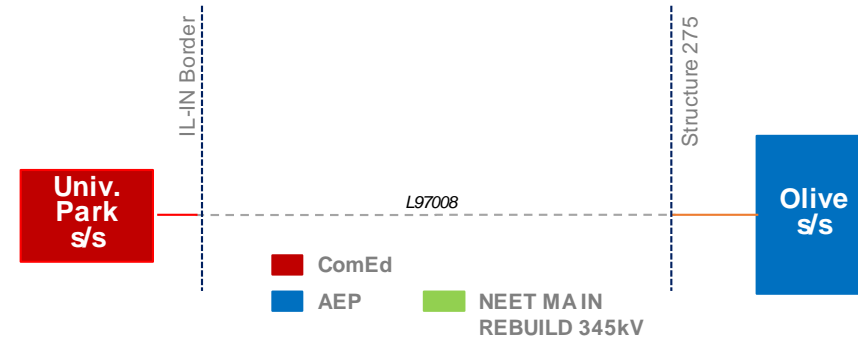
Projected In-Service Date: 6/15/2023

Project Status: Conceptual

Model: 2025 RTEP

Footnote 1 – Continuous Extended Double-Circuit Outage; includes AFUDC; Nominal Dollars, Assumes Scope of Work performed to address Needs (NEET-2021-01 and NEET-2021-02) is addressed simultaneously for efficient cost management.

Note: Solution for NEET-2021-02 (Northern Conductor – L94507, L6615, and L6617) will be part of separate solution.



Revision History

6/2/2021 – V1 – Added S2509

6/30/2021 – V2 – Changed S2509 Projected IS Date from 1/1/2023 to 6/15/2023