

Submission of Supplemental Projects for Inclusion in the Local Plan



**NEET MA IN Rebuild :
PJM Supplemental Project ID s2631**

NEET MA IN Transmission Zone M-3 Process Indiana

Need Number: NEET-2021-02

Process Stage: Submission for Supplemental Project for inclusion in the Local Plan December 3, 2021

Previously Presented:

Needs Meeting 02/09/2021, 5/11/2021

Solutions Meeting 08/10/2021

Project Driver:

Equipment Material Condition, Performance and Risk

Specific Assumption Reference:

[NEET MA IN 2021 Annual Assumption](#) and
[Asset Management Strategy](#)

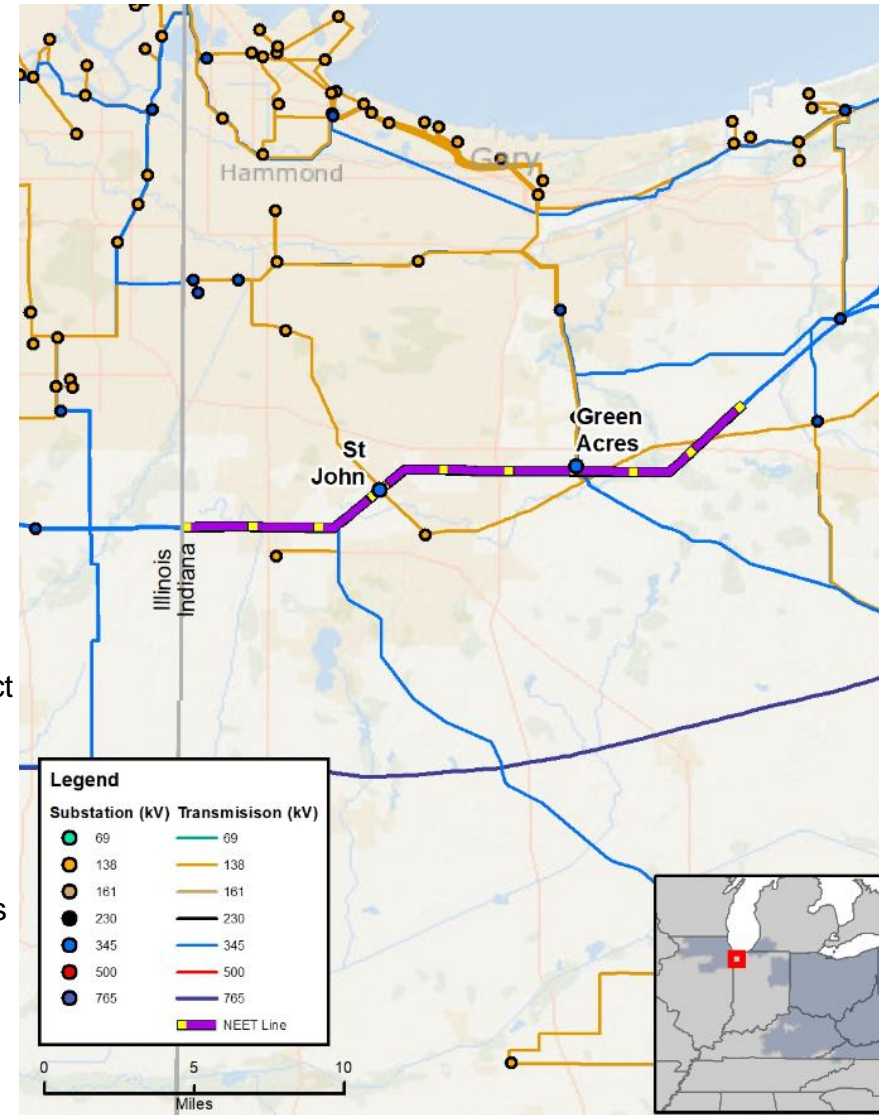
EOL/Condition/Obsolescence

Problem Statement:

NEET MidAtlantic IN 345kV (double-circuit) transmission line assets are ~20 miles representing four segments. This project is for three of the four segments.

Circuit 1: Crete-St.Johns-Green Acres-Olive (L94507, L6617, L6615)

- Transmission conductor is 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- The existing 1414 kCMIL (62/19) paper expanded conductor is obsolete and no longer manufactured
- Components are exhibiting significant deterioration



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Potential Solution:

Reconductor Circuit 1 of the ~20 mile double-circuit lines from Crete-St.Johns-Green Acres-Olive (L94507, L6617, L6615) with new conductor:

- 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: ~\$11.5M¹

Alternatives Considered:

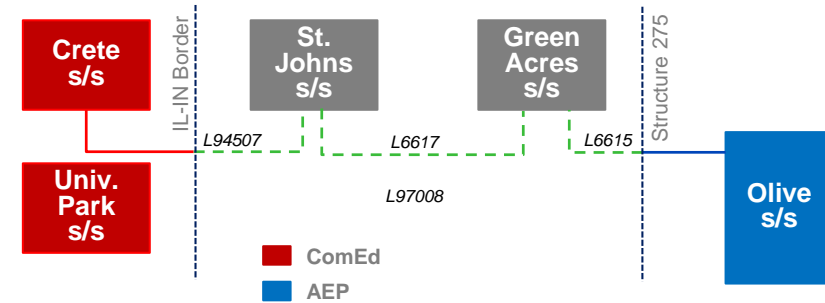
- Do Nothing: Maintain existing condition with elevated risk of failure and limited options for repair during an event due to obsolescence of conductor (Not Feasible)

Supplemental Project ID: s2631

Projected In-Service Date: 6/1/2023

Project Status: Engineering/Procurement

Model: 2025 RTEP



Footnote 1 – Continuous Extended Double-Circuit Outage; includes AFUDC; Nominal Dollars

Revision History

12/3/2021 – V1 – Added s2631