



NEET MA IN Rebuild : PJM Supplemental Project

August 10, 2021

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

NEET MA IN Transmission Zone M-3 Process Indiana

Need Number: NEET-2021-02

Process Stage: Solutions Meeting 08/10/2021

Previously Presented: Needs Meeting 02/09/2021,
05/11/2021

Project Driver:

Equipment Material Condition, Performance and Risk

Specific Assumption Reference:

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

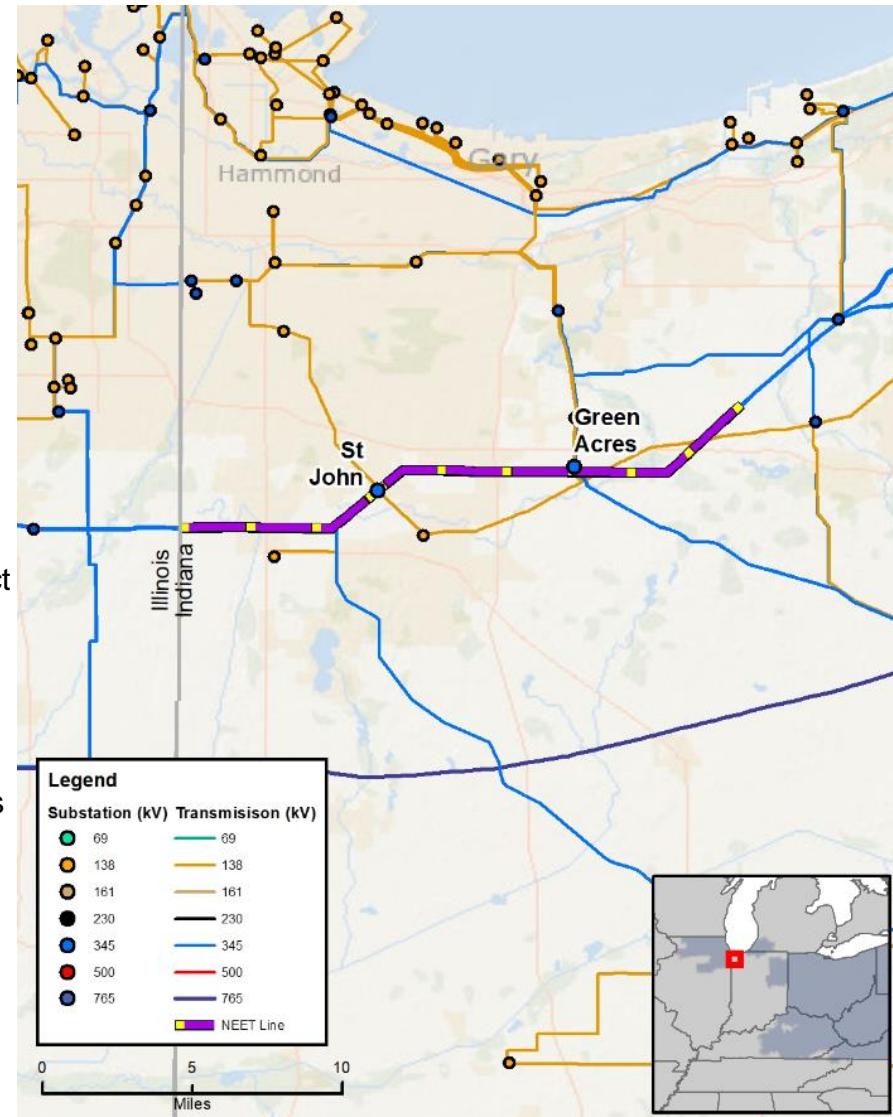
EOL/Condition/Obsolescence

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- The existing 1414 kCMIL (62/19) paper expanded conductor is obsolete and no longer manufactured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



NEET MA IN Transmission Zone M-3 Process Indiana

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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:

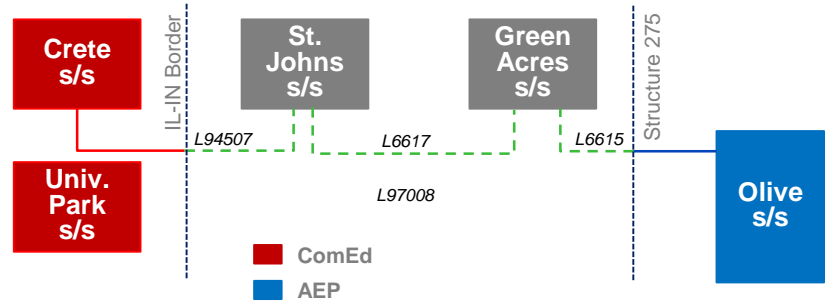
- Do Nothing: Maintain existing condition with elevated risk of failure and limited options for repair during an event due to obsolesce of conductor (Not Feasible)

Projected In-Service Date: 6/1/2023

Project Status: Conceptual

Model: 2025 RTEP

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



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

8/10/2021– V1 – Original version posted to pjm.com