

Transmission Expansion Advisory Committee – PEPCO Supplemental Projects

September 1, 2020

Solution

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

Need Number: PEP-2020-001

Process Stage: Solutions Meeting 9/1/2020

Previously Presented: Need Meeting 8/4/2020

Project Driver:

Equipment Material Condition, Performance and Risk

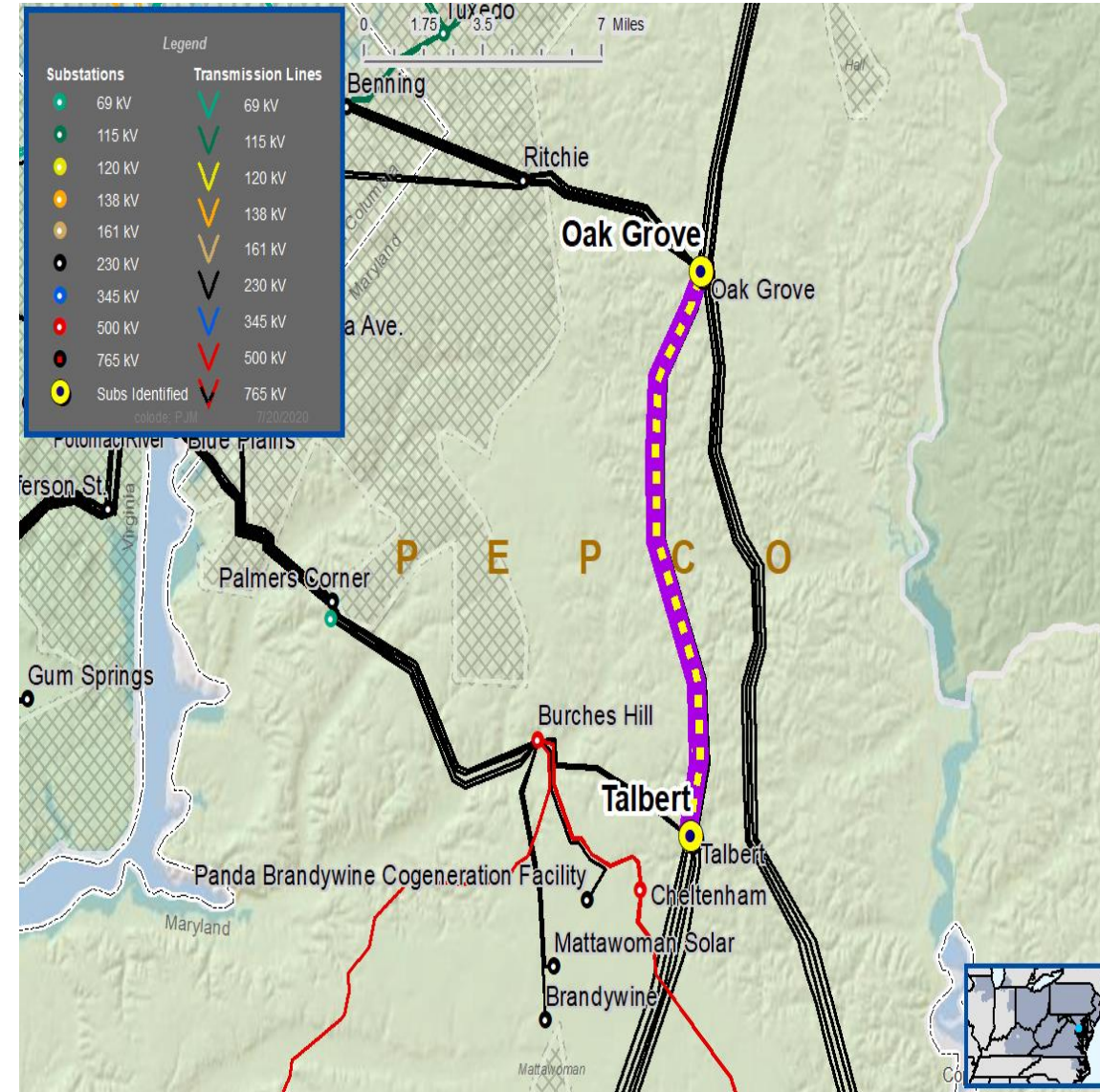
Specific Assumption Reference:

Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions

Problem Statement:

230kV circuits 23067 & 23087 from Oak Grove to Talbert (~10 miles), constructed in 1968, are exhibiting severe material condition issues:

- All structures are currently rusting and are at risk for structural failure
- All structures need replacement of insulators, conductor, all hardware, lattice coating, foundation/lattice leg repairs, tower attachment points/vangs
- 20% structures need immediate grounding replacement, foundation replacement and lattice/bent member repairs
- Tested insulator samples no longer meet mechanical design rating



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Process Stage: Solutions Meeting 9/1/2020

Proposed Solution:

Rebuild 10 miles of existing 230kV double-circuit lattice tower transmission lines 23067 and 23087 with new steel monopole structures along the existing route

Estimated cost: \$38M

Expected ratings changes:

23067 & 23087 Talbert – Oak Grove S/N from 582 to 1312 MVA

23067 & 23087 Talbert – Oak Grove W/N from 694 to 1511 MVA

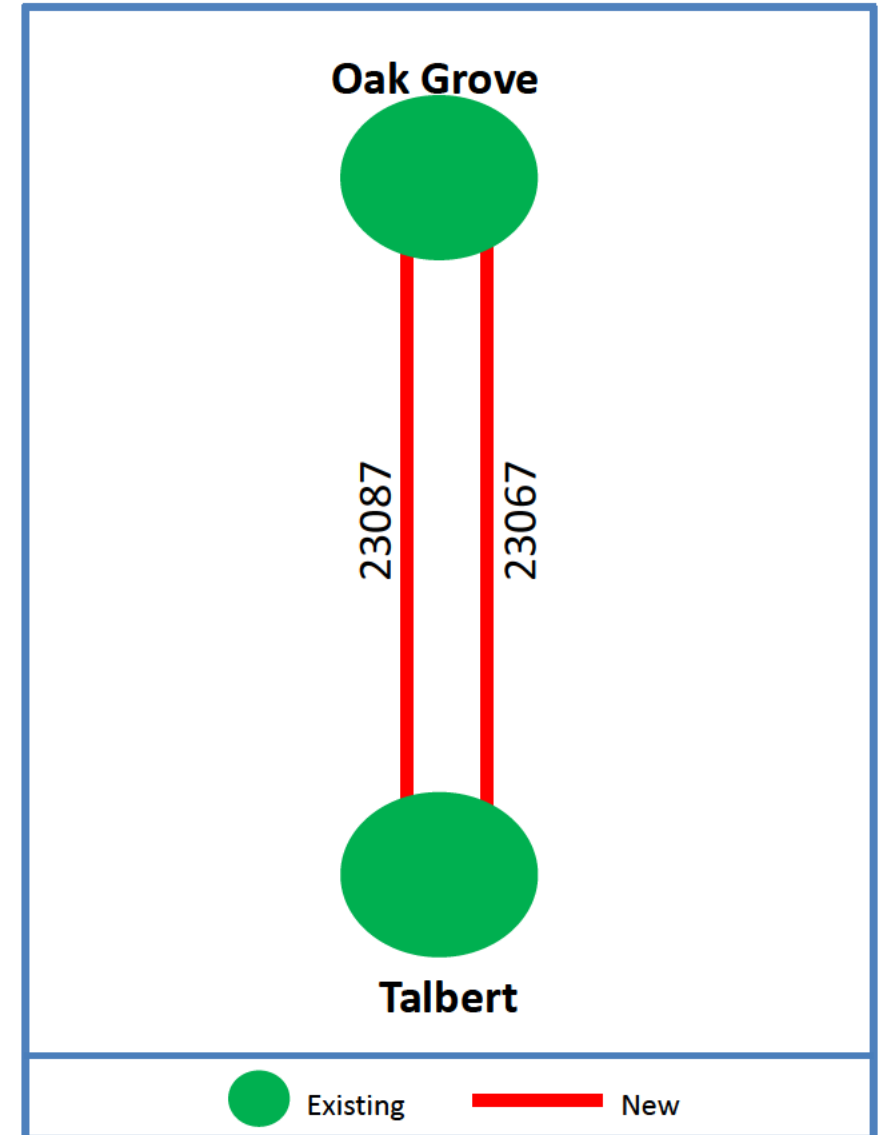
Alternatives Considered:

1. Do nothing - risk of asset failure
2. Re-Insulate - does not address issues related to foundations, lattice towers or conductors
3. Re-Conductor & Re-Insulate - does not address issues related to foundations or lattice towers

Projected In-Service: 12/1/2024

Project Status: Conceptual

Model: 2025 RTEP



Questions?



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

8/21/2020 - V1 – Original version posted to pjm.com