



Subregional RTEP Committee - Mid-Atlantic ACE Supplemental Projects

February 13, 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

ACE Transmission Zone M-3 Process Pine Hill Substation

Need Number: ACE-2024-003

Process Stage: Solution Meeting 02/13/2025

Previously Presented: Need Meeting 3/14/2024

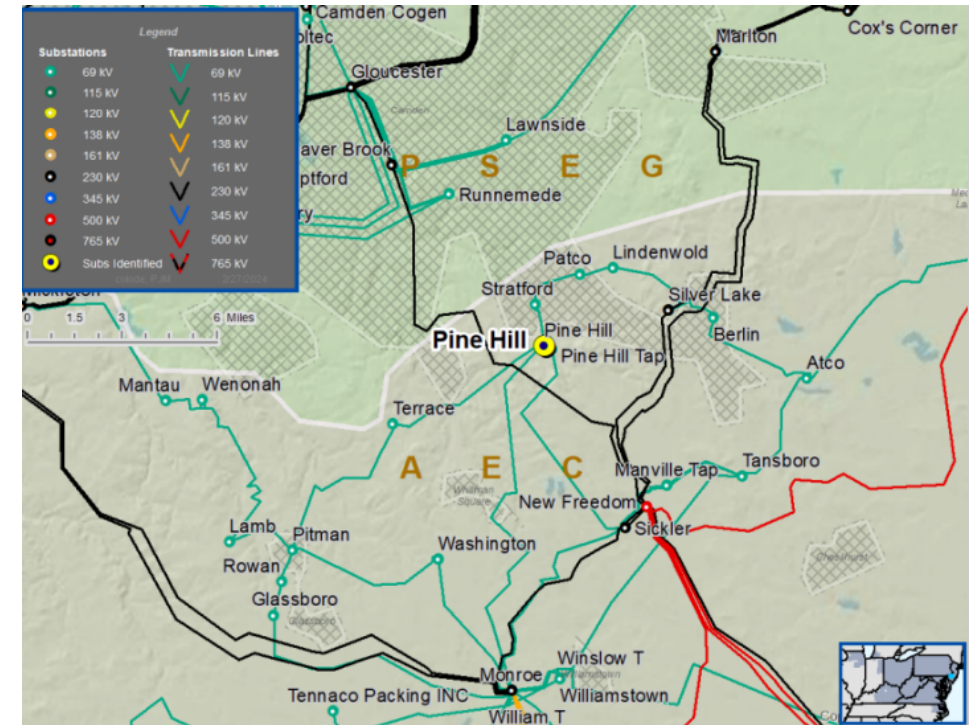
Project Driver: Equipment Material Condition, Performance and Risk, Operational Flexibility and Efficiency

Specific Assumption Reference:

- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions
- Provide Operations more options to deal with non-standard operating conditions
- Enhancing system functionality, flexibility, visibility, or operability

Problem Statement:

- The Pine Hill 69kV substation was installed in the 1960's. Many of the major components of the substation are in deteriorating condition, have a lack of replacement parts and elevated maintenance cost.
 - ✓ Substation has a high degree of foundation deterioration
 - ✓ Supporting steel structures are rusting and failing to meet standards
- When a fault occurs at the substation due to its non-standard configuration, customers served by Pine Hill will experience a loss of service.



ACE Transmission Zone M-3 Process Pine Hill Substation

Need Number: ACE-2024-003

Process Stage: Solution Meeting 2/13/25

Proposed Solution:

- Rebuild Pine Hill as a 7-position indoor GIS breaker-and-a-half substation.
- Split the existing 3-terminal Sickler-Pine Hill-Stratford line at Pine Hill to create Sickler-Pine Hill and Pine Hill-Stratford transmission circuits.

Estimated Transmission Cost: \$27.4 M

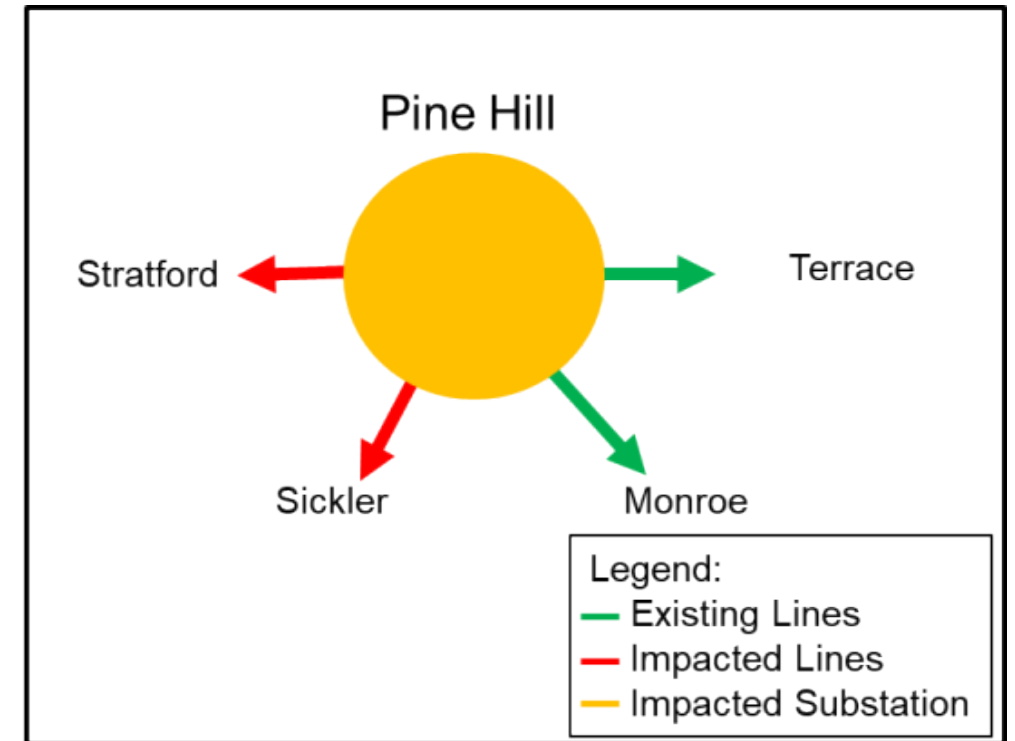
Alternatives Considered:

- Open air 7-position breaker-and-a-half configuration substation.
 - Insufficient land for open-air construction.

Projected In-Service: 9/1/2029

Project Status: Conceptual

Model: 2029 RTEP



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

02/03/2025 – V1 – Original version posted to pjm.com