



Subregional RTEP Committee - Mid-Atlantic ACE Supplemental Projects

March 14, 2024



Need

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: ACE-2024-003

Process Stage: Need Meeting 03/14/2024

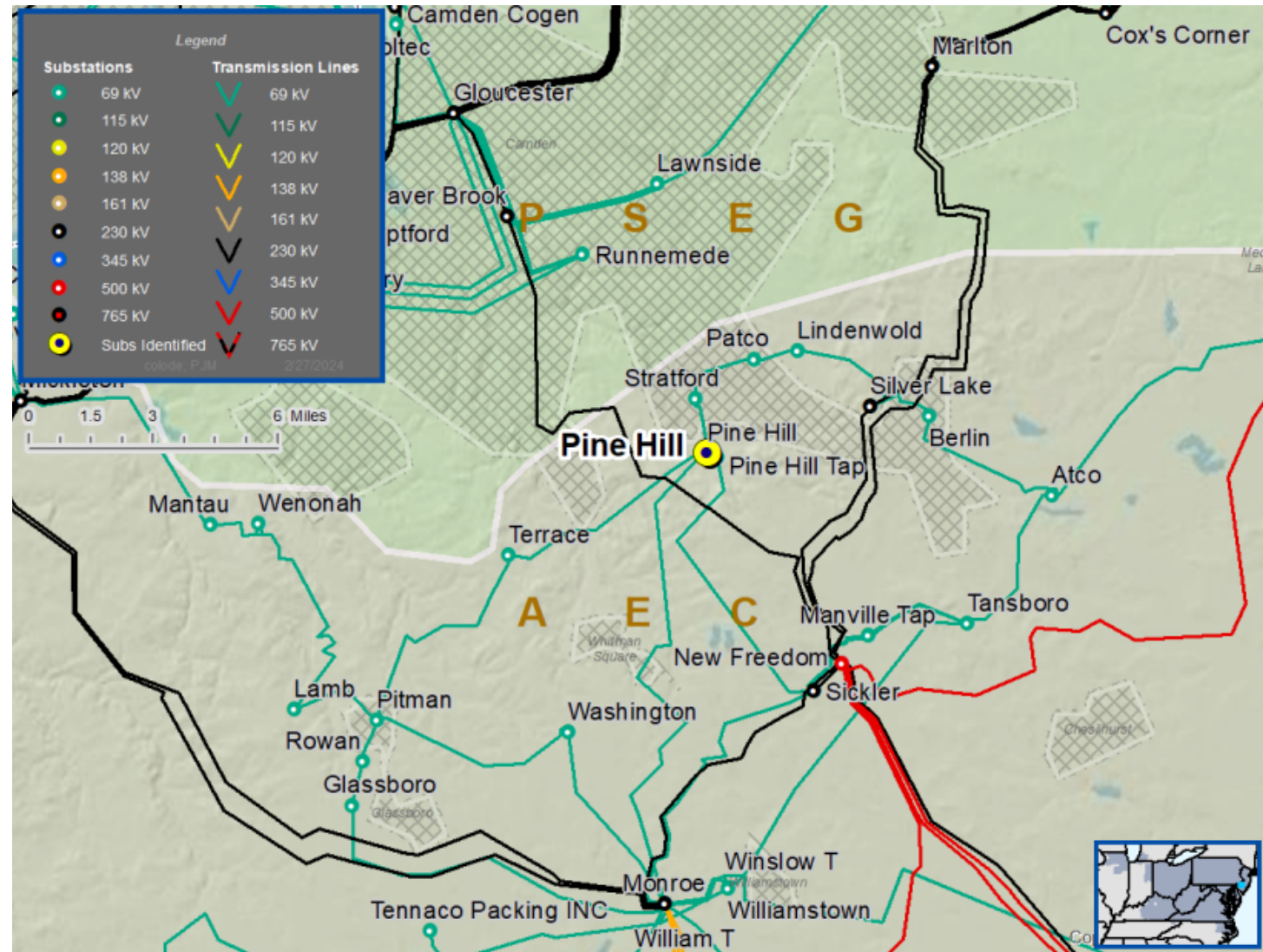
Project Driver: Equipment Material Condition, Performance and Risk, Operational Flexibility and Efficiency

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.





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

Need Number: ACE-2024-002

Process Stage: Solution Meeting 3/14/2024

Previously Presented: Need Meeting 1/18/2024

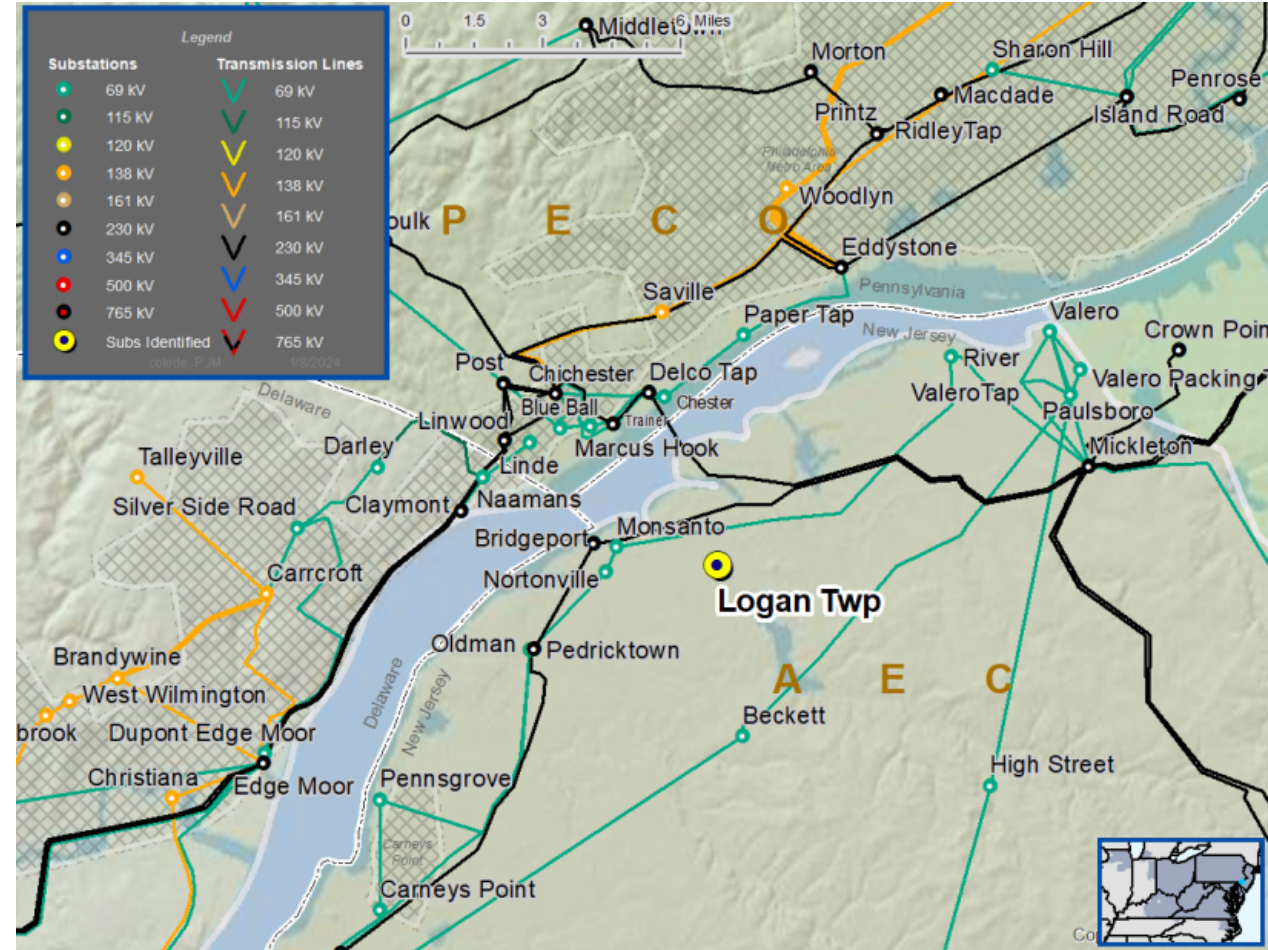
Project Driver: Customer Service

Specific Assumption Reference:

- New Transmission customer interconnections or modifications to an existing customer

Problem Statement:

- New customer in Logan Township has requested for ACE to provide service. Distribution infrastructure in the area cannot adequately accommodate this load. Customers load is expected to be 14 MW by December of 2027.



Need Number: ACE-2024-002

Process Stage: Solution Meeting 3/14/24

Proposed Solution:

- Install a 3-mile 69 kV line from the new Woolwich substation to the customer location.
- Construct new six (6) breaker 69 kV ring bus substation by cutting into Paulsboro – Beckett line (Woolwich Presented at SRRTEP 9/14/2023, s3149.1)

Estimated cost: \$0 (Transmission cost included in s3149.1)

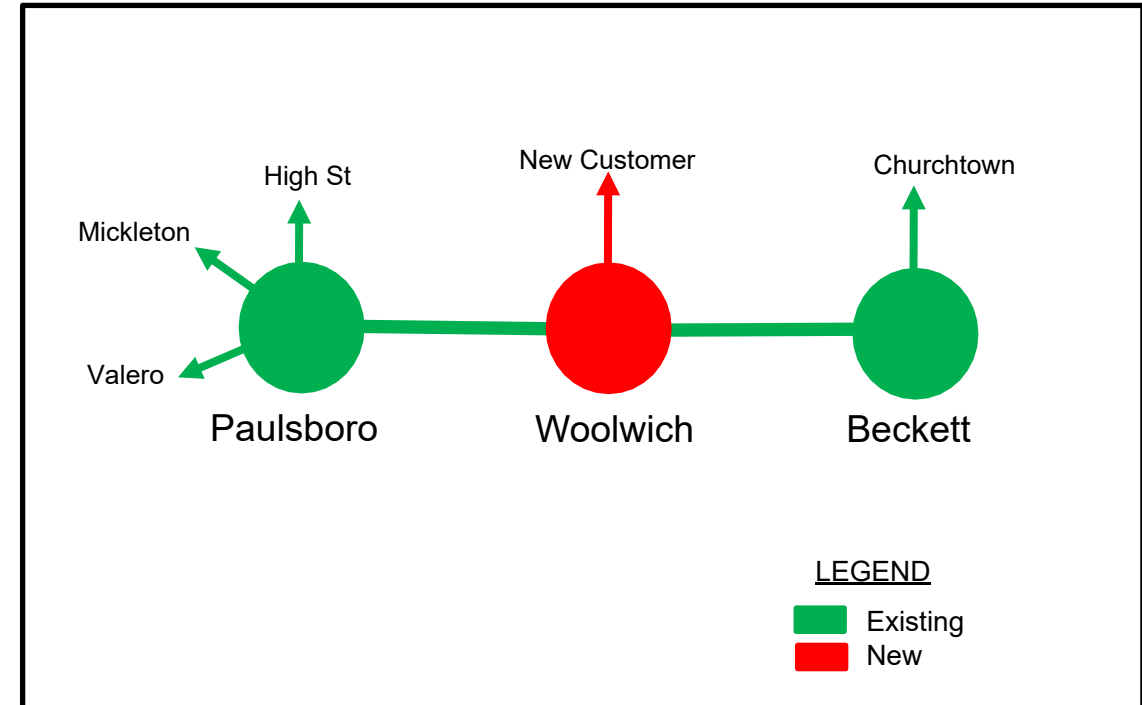
Alternatives Considered:

- Feed Customer from 12 kV Distribution System
 - Express feeders can not supply load request.

Projected In-Service: 4/1/2028

Project Status: Conceptual

Model: 2027 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

3/04/2024 – V1 – Original version posted to pjm.com