

ACE 2023
Submission of Supplemental Projects for
Inclusion in the Local Plan

Need Number: ACE-2022-006

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 1/18/2023

Previously Presented:

Needs Meeting 3/17/2022

Solutions Meeting 8/18/2022

Project Driver:

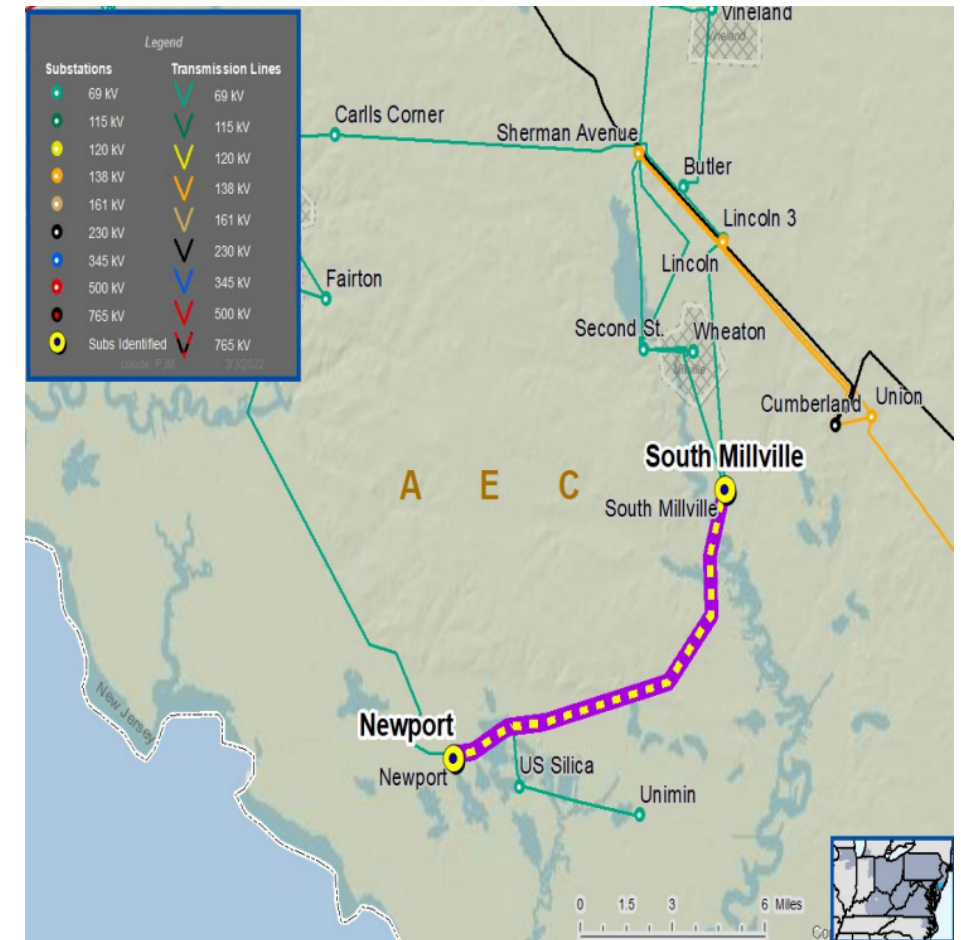
Equipment Material Condition, Performance and Risk, Operational Flexibility and Efficiency

Specific Assumption Reference:

- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions
- Programmatic review and/or replacement of breakers, relays, wood poles, cables, etc.
- Internal and/or regulatory recommended design guidelines or standards
- Enhancing system functionality, flexibility, visibility, or operability

Problem Statement:

Existing 69kV circuit 0762 between Newport and South Millville substations is 70 years old and is in deteriorating condition. This line experienced 11 interruptions (including momentary) since 2018.



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Selected Solution:

- Rebuild a 9.8-mile section of 69 kV line 0762 between Newport and South Millville
- The conductor will be upgraded to 795 ACSR and the existing shield wire will be replaced with new OPGW

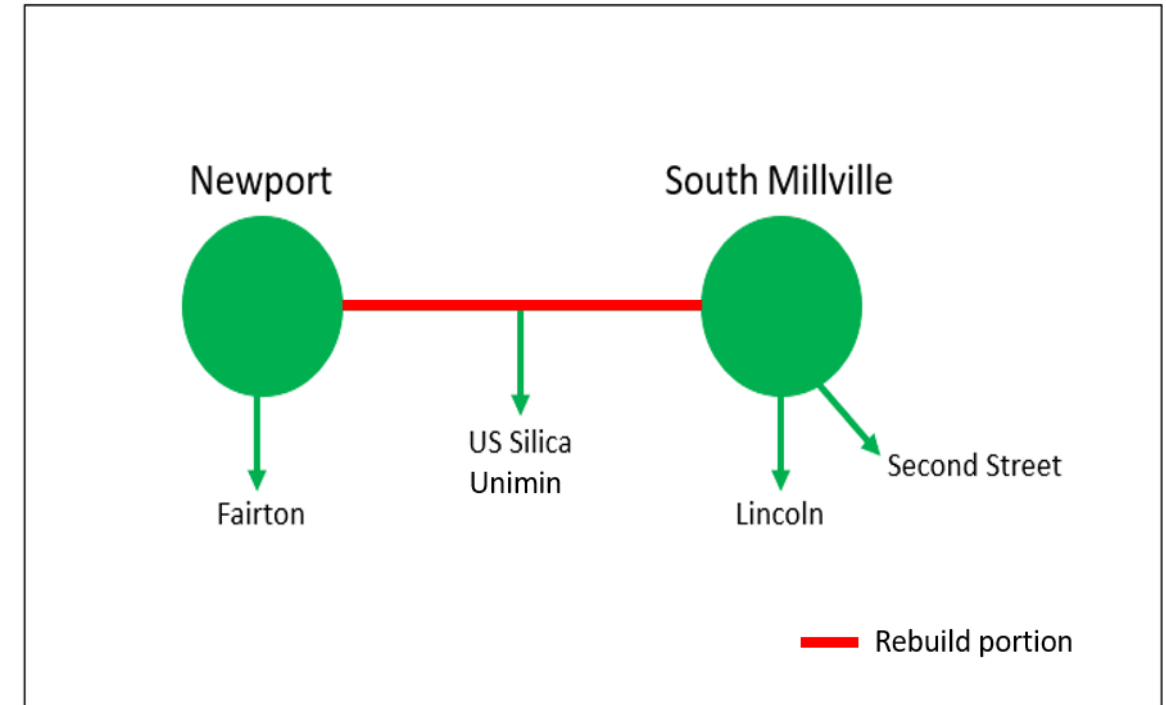
Estimated Cost: \$40 M

Projected In-Service: 12/31/25

Supplemental Project ID: s2823

Project Status: Engineering

Model: 2027 RTEP



Need Number: ACE-2022-010

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 10/2/2023

Previously Presented:

Need Meeting 11/17/2022

Solution Meeting 12/14/22

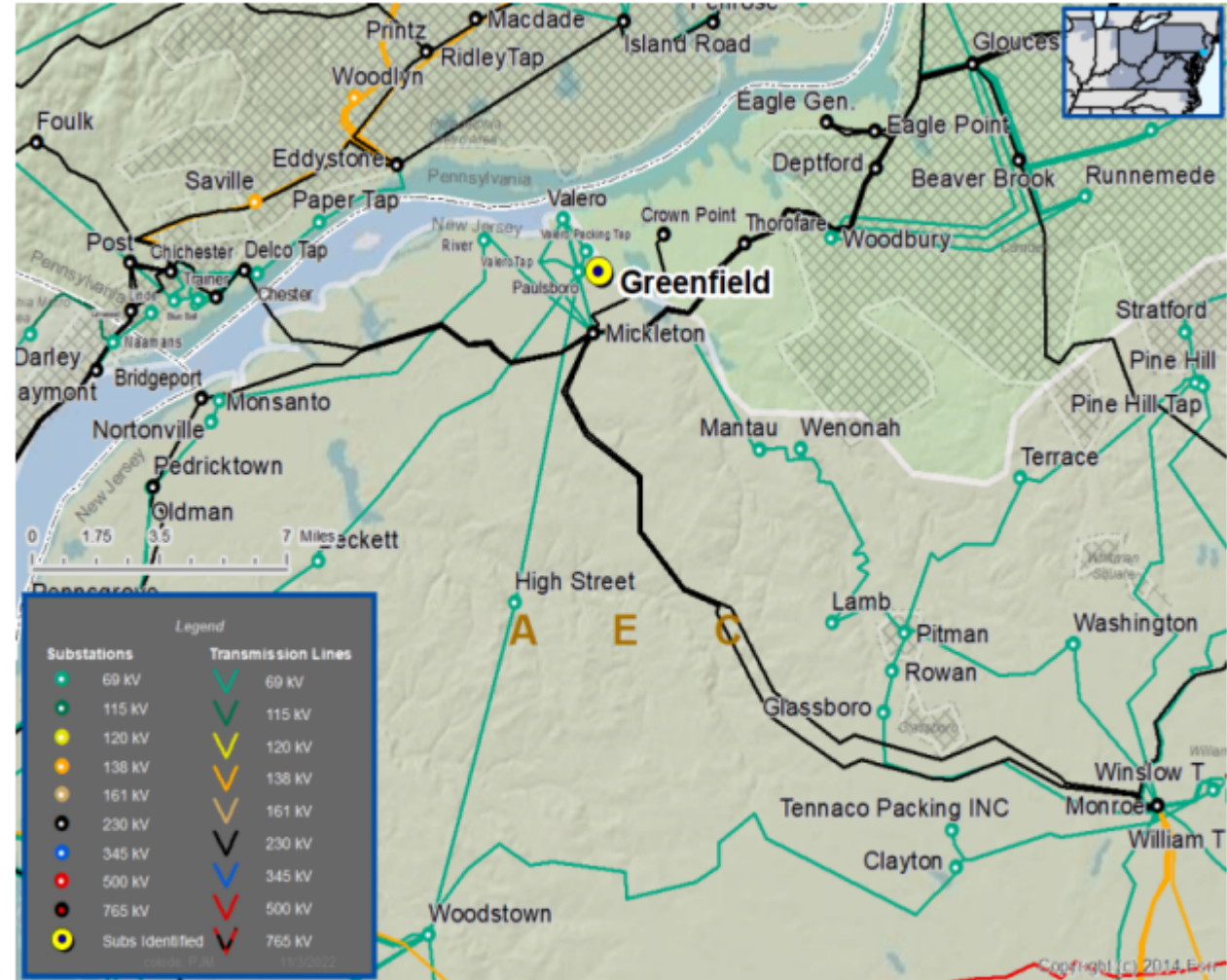
Project Driver: Customer Service

Specific Assumption Reference:

- New Transmission customer interconnections or modifications to an existing customer

Problem Statement:

- Existing customer at Paulsboro Marine Terminal is installing an additional 9.5 MW in the Gloucester County, NJ area. Distribution infrastructure in the area cannot adequately accommodate this load.
 - Existing Load: 4 MW
 - Projected Load: 13.5 MW





ACE Transmission Zone M-3 Process Paulsboro New Customer Line

Need Number: ACE-2022-010

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 10/2/2023

Proposed Solution:

- Install a new 69 kV terminal position at Paulsboro substation
- Install new 2.5-mile 69 kV line to service the customer

Estimated cost: \$3.2M

Alternatives Considered:

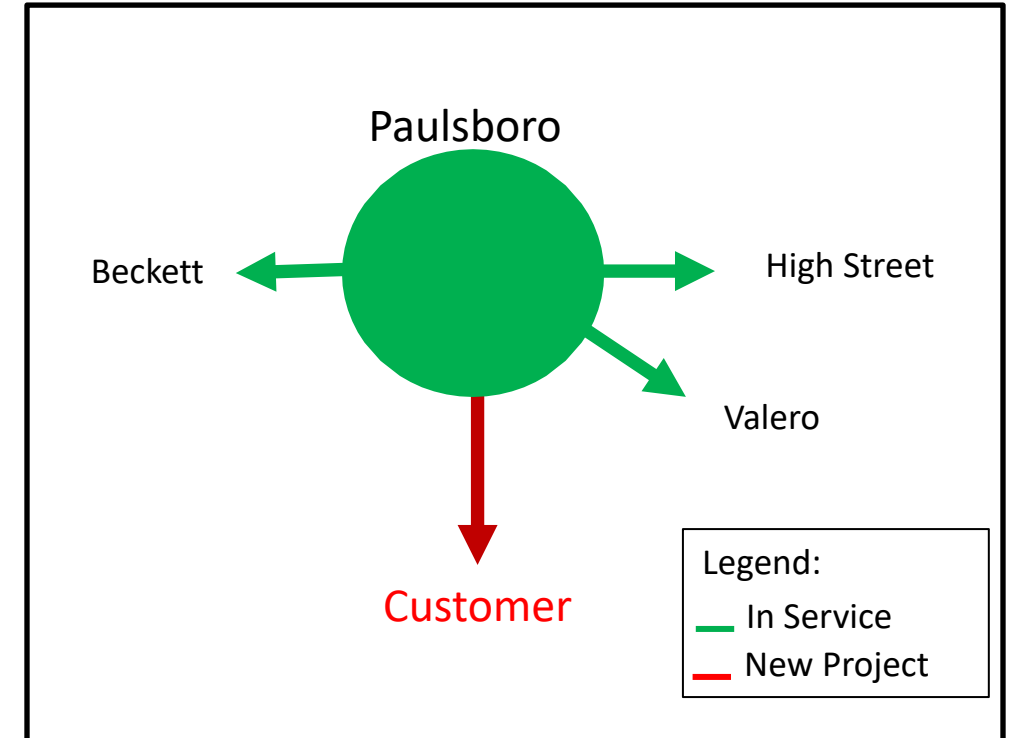
- Feed Customer from 12 kV Distribution System
 - Customers total load cannot be supported by distribution system
 - Do Nothing
 - Unable to serve new customer

Projected In-Service: 6/31/2025

Supplemental Project ID: s2889

Project Status: Conceptual

Model: 2027 RTEP



Revision History

1/18/2023 – V1 – Posted Local plan for s2823

10/2/2023 – V2 – s2889 added to Local Plan