ACE 2024
Submission of Supplemental Projects for Inclusion in the Local Plan

M-3 Process
ACE Transmission Zone
Quinton New Customer Line

Need Number: ACE-2022-002

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 2/23/2024

Previously Presented:
Need Meeting 9/15/22
Solution Meeting 9/14/23

Project Driver: Customer Service

Specific Assumption Reference:
New transmission customer interconnections or modification to an existing customer

Problem Statement:
New customer is installing 32.5 MVA load in the Salem County, NJ area. Distribution infrastructure in the area cannot adequately accommodate this load.

M-3 Process
ACE Transmission Zone
Quinton New Customer Line

Need Number: ACE-2022-002

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 2/23/2024

Proposed Solution:

- Install a new 69 kV terminal position at Quinton substation
- Install new 11-mile 69kV line to provide service to the customer

Estimated cost: $4.6M

Alternatives Considered:

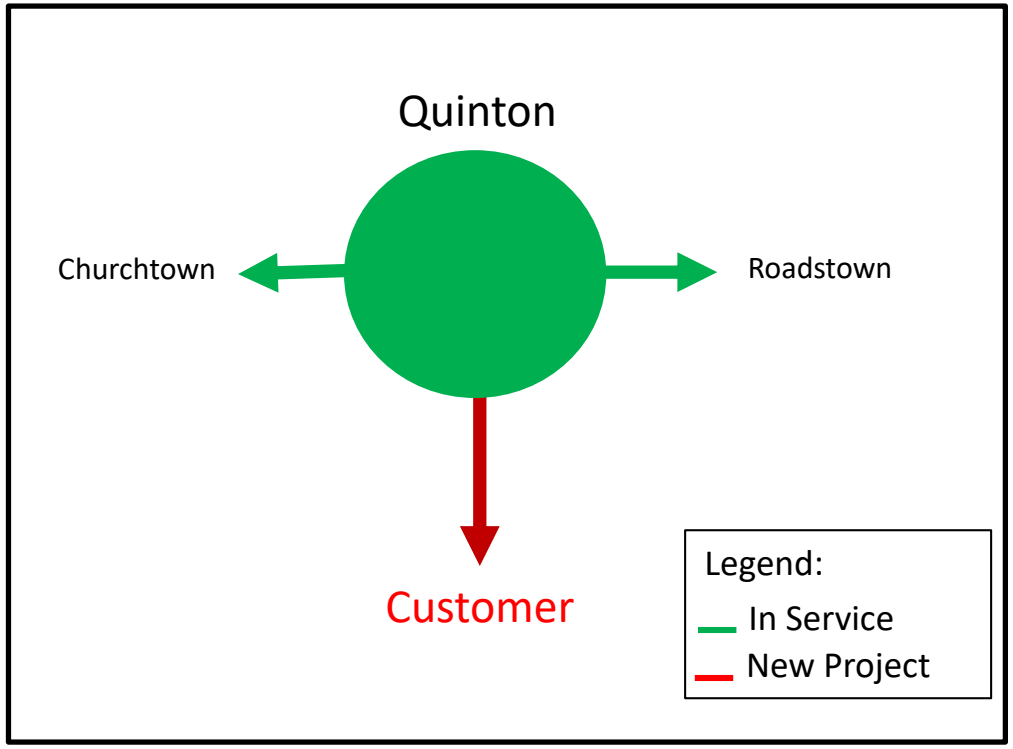
- Construct a new 12kV express feeder from the Quinton substation
  - Express feeder can supply only up to 9 MVA of load

Projected In-Service: 04/30/24

Supplemental Project ID: s3154.1

Project Status: Engineering

Model: 2027 RTEP



Need Number: ACE-2022-009

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 2/23/2024

Previously Presented: Need Meeting 8/18/2022

Solution Meeting 9/14/2023

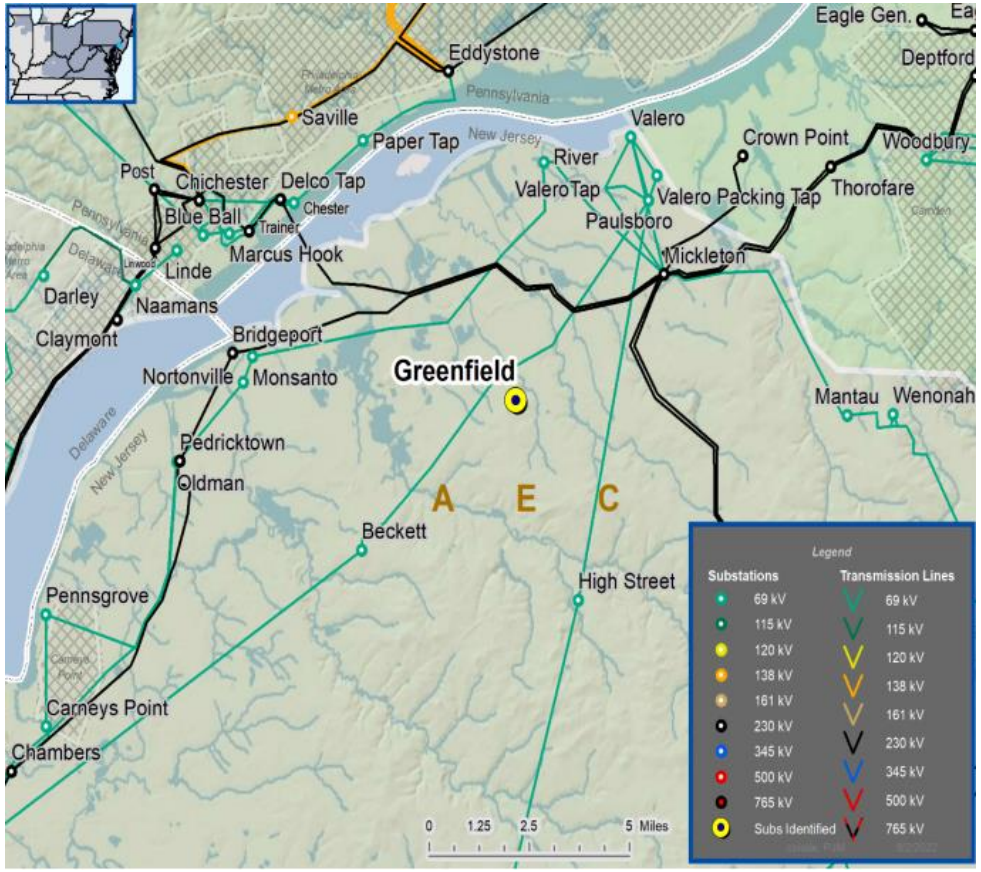
Project Driver: Customer Service

Specific Assumption Reference:

Transmission System configuration changes due to new or expansion of existing distribution substations

Problem Statement:

ACE's existing distribution system is unable to serve the growing distribution customer load of 35 MVA in the Logan area



Need Number: ACE-2022-009

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 2/23/2024

Proposed Solution:

- Construct new six (6) breaker 69 kV ring bus substation by cutting into Paulsboro – Beckett line
- Install a 30 MVAR Cap bank at Woolwich Substation
- Install 2 new 69/12 kV 40MVA transformers to address the growing distribution load in the area

Estimated cost: $18M

Alternatives Considered:

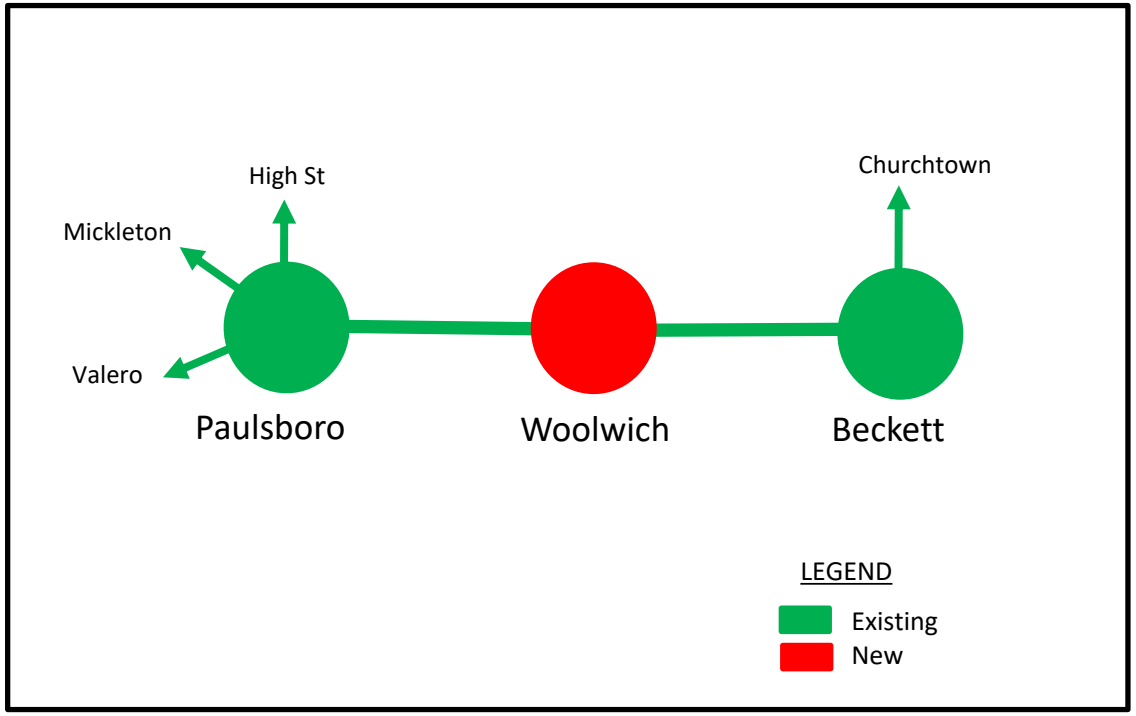
- Install second transformer at Nortonville substation
    - Second transformer doesn't physically fit within the available space in the substation

Projected In-Service: 1/31/2028

Supplemental Project ID: s3149.1

Project Status: Engineering

Model: 2027 RTEP



Revision History

2/23/2024 – V1 – Posted Local plan for s3149.1, s3154.1