

Sub Region RTEP Mid-Atlantic Committee ACE Supplemental Projects

January 18, 2024

Needs

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-2024-001

Process Stage: Need Meeting 01/18/2024

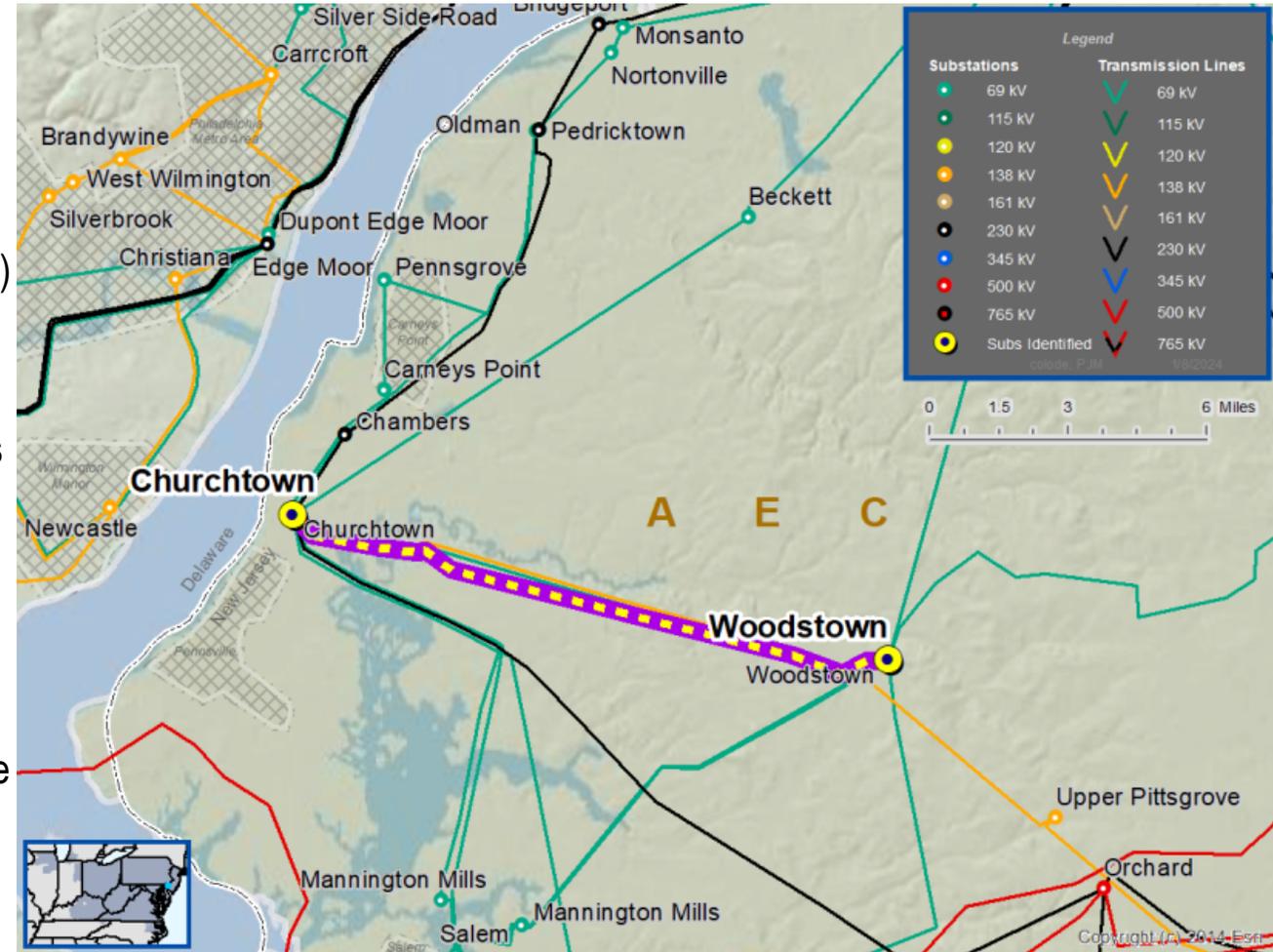
Project Driver: Equipment Material Condition, Performance and Risk

Specific Assumption Reference:

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

Problem Statement:

- Existing 69kV circuits 0725 and 0726 between Churchtown and Woodstown (approx. 10.6 miles), are 94 years old. There are 78 structures along this circuit of which, 59 are the original steel lattice towers erected in 1929 and are showing signs of deterioration. This line experienced 5 interruptions since 2019. Maintenance costs of the lines have increased.



Need Number: ACE-2024-002

Process Stage: Need Meeting 1/18/2024

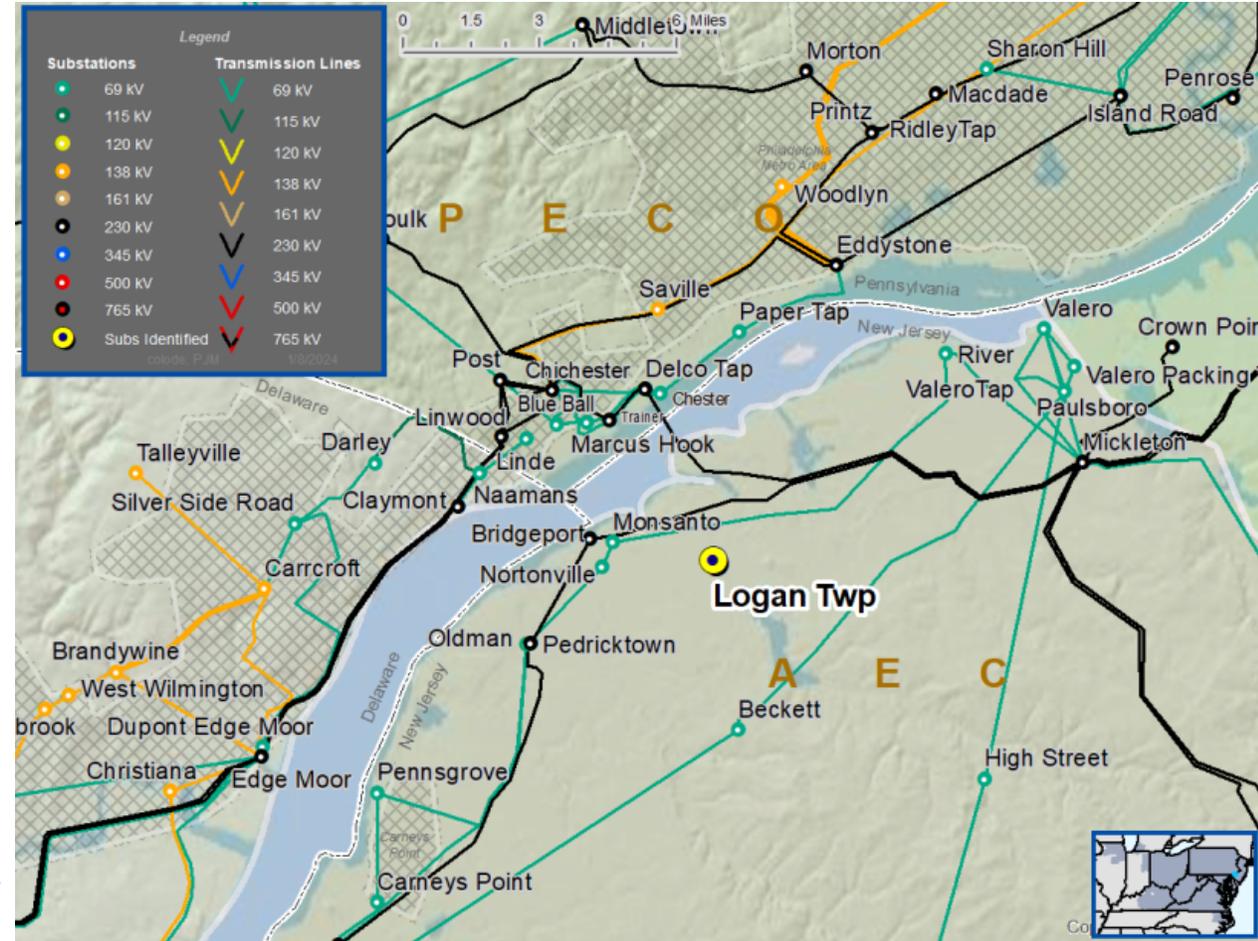
Project Driver: Customer Service

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.



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

New Transformer at Lamb Substation

Need Number: ACE-2023-002

Process Stage: Solution Meeting 1/18/2024

Previously Presented: Need Meeting 11/16/2023

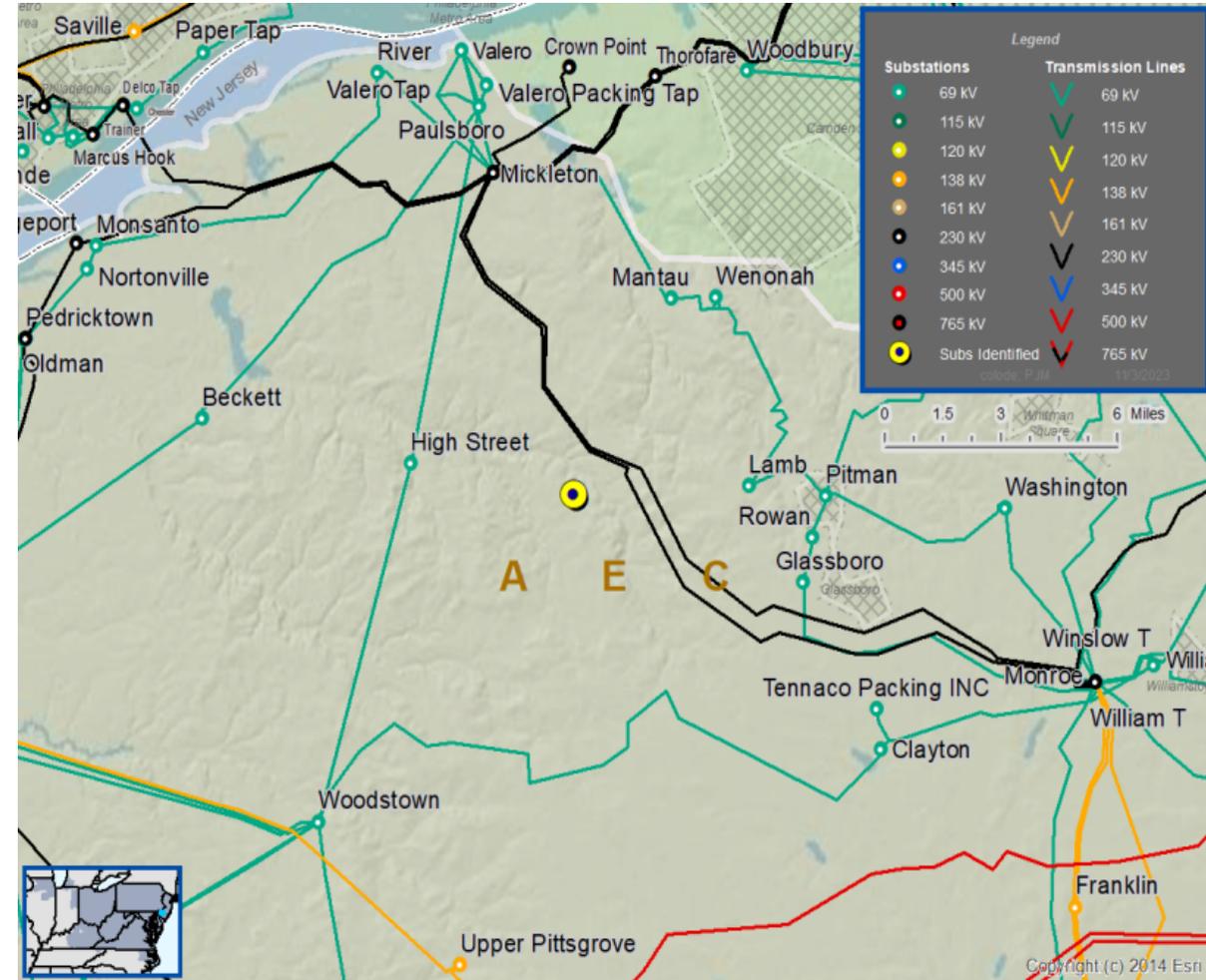
Project Driver: Customer Service

Specific Assumption Reference:

- Building to support future economic growth
- Transmission System configuration changes due to new or expansion of existing distribution substations

Problem Statement:

- ACE Distribution Capacity Planning requested additional capacity in the Glassboro NJ region to accommodate load growth of 12 MVA. Existing distribution facilities do not have enough capacity to accommodate this load growth.





ACE Transmission Zone M-3 Process New Transformer at Lamb Substation

Need Number: ACE-2023-002

Process Stage: Solution Meeting 1/18/24

Proposed Solution:

- Install a new 69 kV tie breaker at Lamb substation to provide an additional terminal for distribution resources.

Estimated cost: \$2.5 M

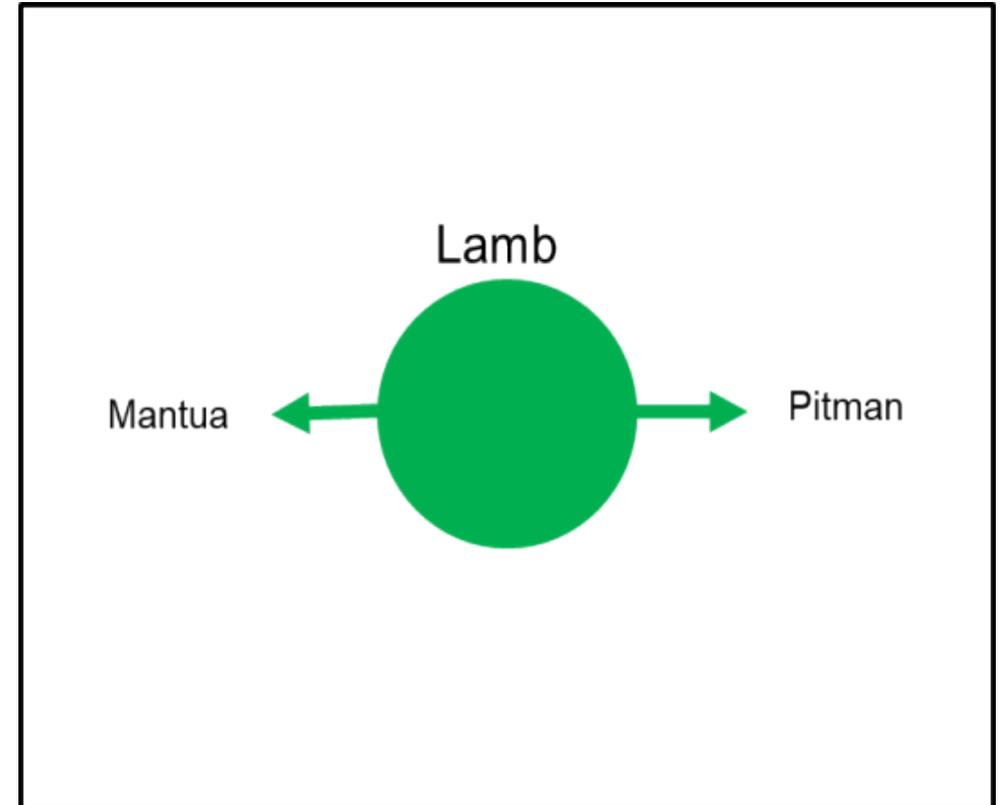
Alternatives Considered:

- Rebuild existing Mullica Hill 34 kV substation as a 69/12 kV substation
 - Greater overall project cost

Projected In-Service: 6/30/2027

Project Status: Conceptual

Model: 2027 RTEP



ACE Transmission Zone M-3 Process New Transformer at Nortonville Substation

Need Number: ACE-2023-003

Process Stage: Solution Meeting 1/18/2024

Previously Presented: Need Meeting 11/16/2023

Project Driver:

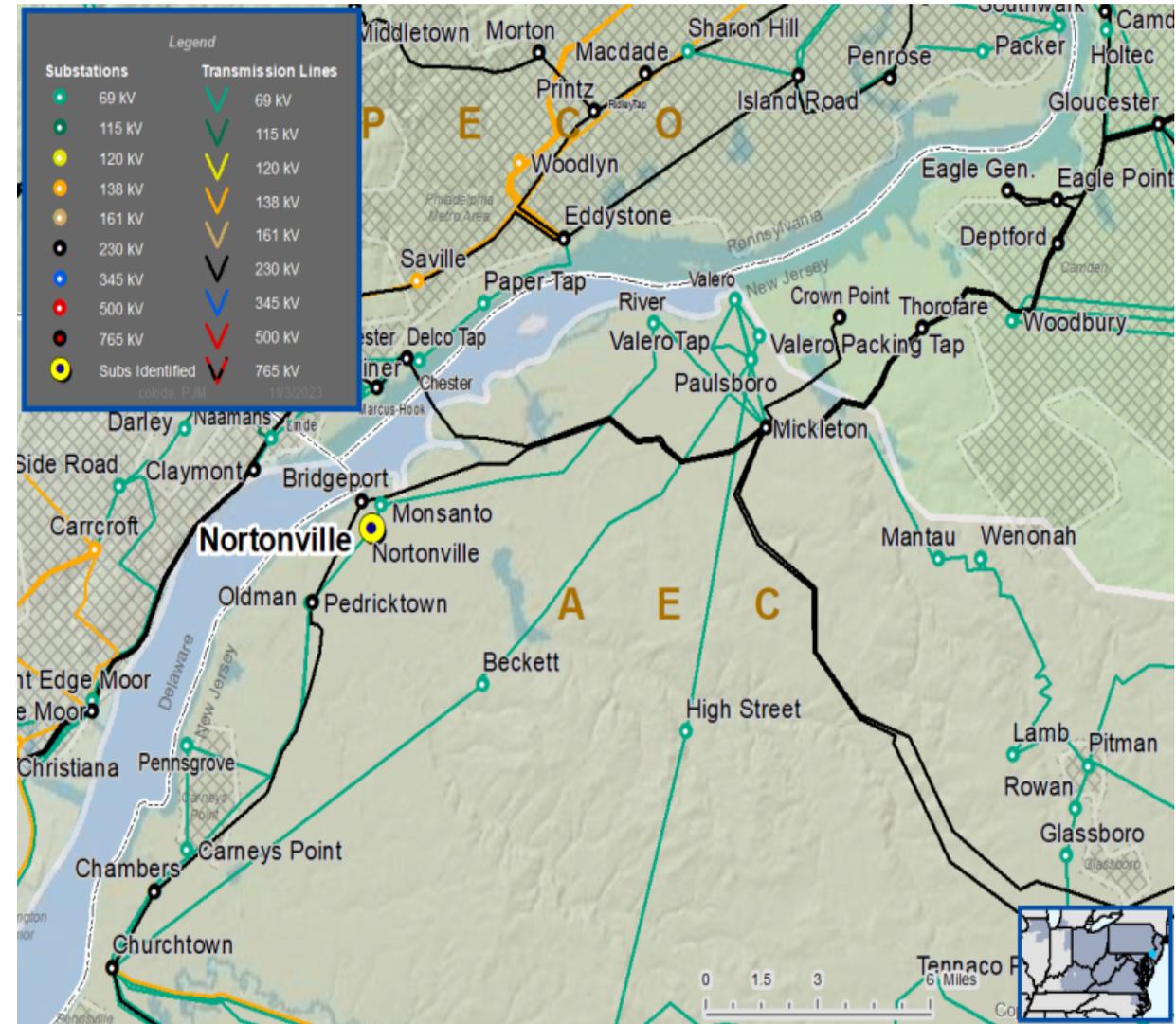
- Customer Service

Specific Assumption Reference:

- Building to support future economic growth
- Transmission System configuration changes due to new or expansion of existing distribution substations

Problem Statement:

- ACE Distribution requested additional capacity in the area surrounding Nortonville substation to accommodate load growth of 20 MVA. Existing distribution facilities do not have enough capacity to accommodate this load growth.



ACE Transmission Zone M-3 Process New Transformer at Nortonville Substation

Need Number: ACE-2023-003

Process Stage: Solution Meeting 1/18/2024

Proposed Solution:

- Install a new 69 kV tie breaker at Nortonville substation to provide an additional terminal for distribution resources.
- Install two new 69 kV line breakers at Nortonville substation

Estimated cost: \$4M

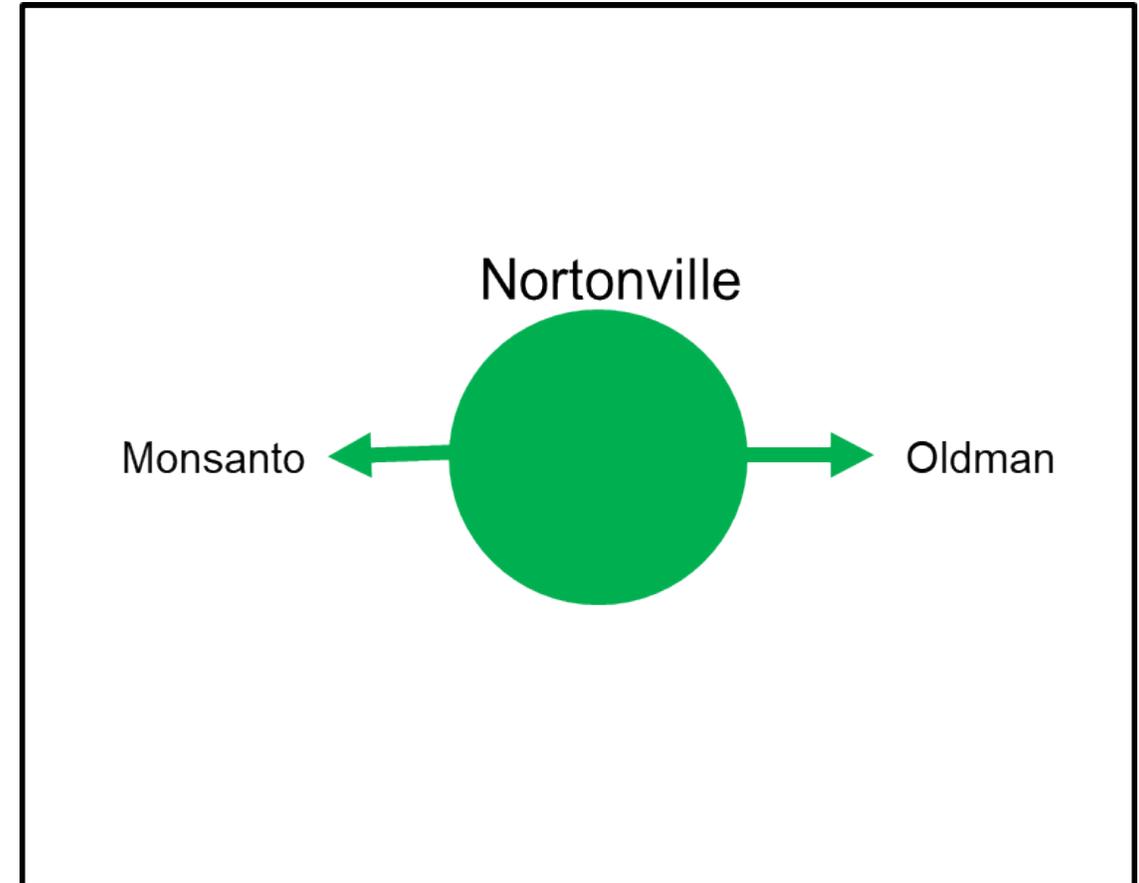
Alternatives Considered:

- No other feasible alternatives identified

Projected In-Service: 6/30/2026

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

1/8/2024 – V1 – Original version posted to pjm.com