



TEAC Committee: Mid-Atlantic PSE&G Supplemental Projects

March 9, 2021

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: PSEG-2021-0001

Process Stage: Solutions Meeting 03/09/2021

Previously Presented: Need Meeting 02/09/2021

Supplemental Project Driver:

- Customer Service

Specific Assumption Reference:

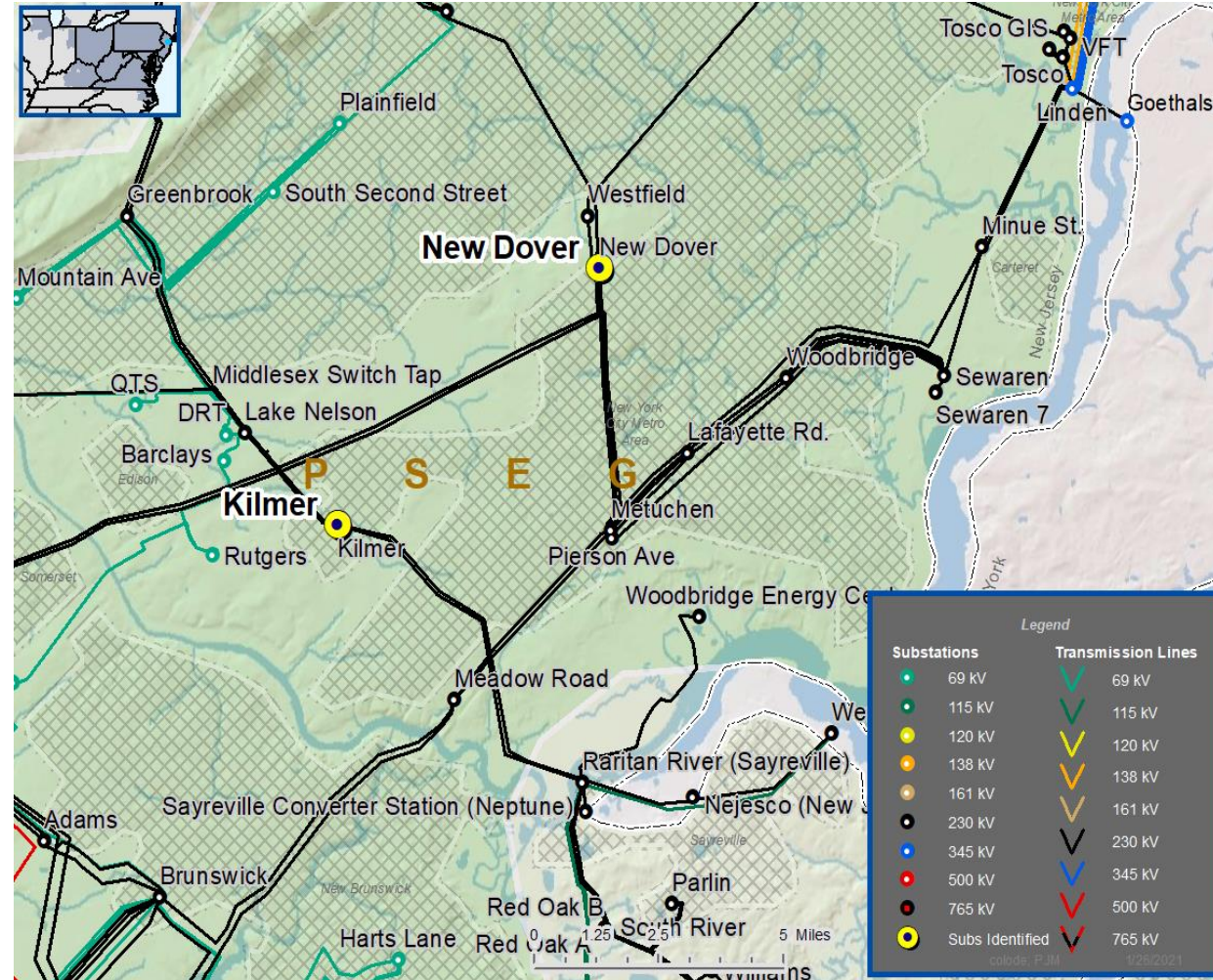
[PSE&G 2021 Annual Assumptions](#)

Localized Load Growth & Contingency Overloads

Problem Statement:

- Kilmer is a station in the Edison area at capacity of 120 MVA. New Dover is a station in the Edison area at capacity of 60 MVA.
- Kilmer serves roughly 24,200 customers with a peak load of 130 MVA in 2019.
- New Dover serves roughly 16,300 customers with a peak load of 75 MVA in 2019.

Model: 2020 Series 2025 Summer RTEP 50/50



Need Number: PSEG-2021-0001

Process Stage: Solutions Meeting 03/09/2021

Proposed Solution:

New 230kV Substation in Edison Area:

- Install a 230kV substation with two (2) 230/13kV transformers.
- Cut and loop the New Dover-Metuchen 230kV line in to the 230kV bus.
- Transfer load from heavily loaded New Dover and Kilmer to the new station.
- **Estimated Cost:** \$48.0M

Ancillary Benefits:

- Decreases the amount of exposure and increases the reliability of the 230kV circuit.

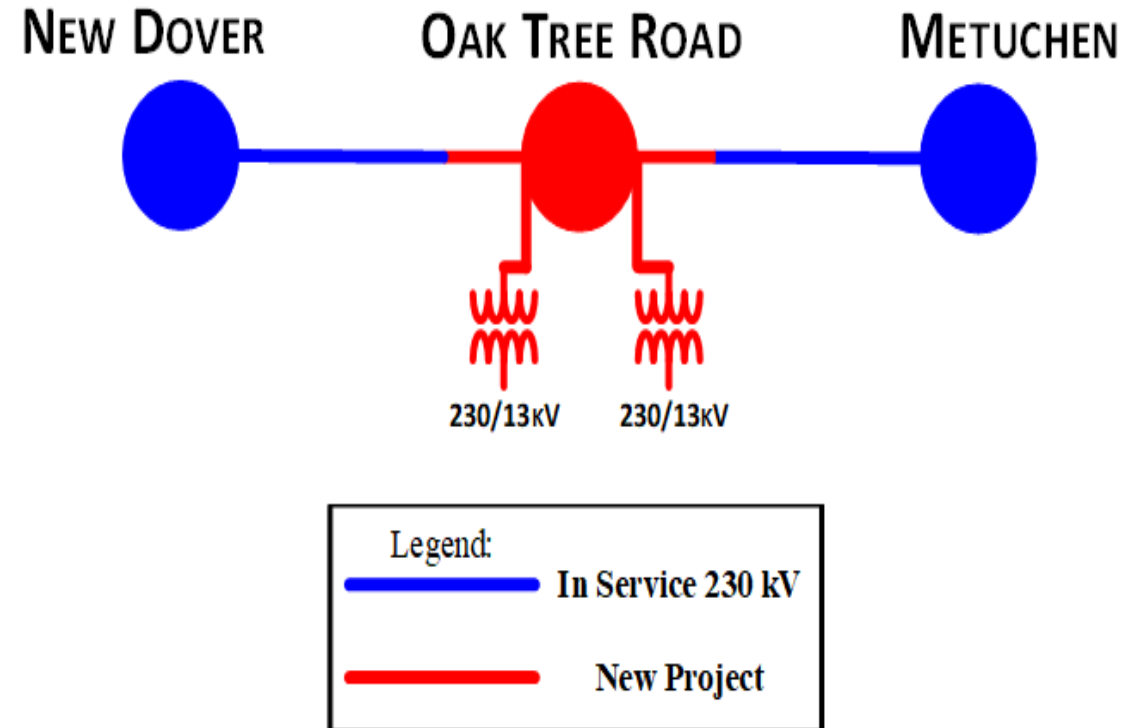
Alternatives Considered:

New 69-13kV Substation in Edison Area:

- Install a 69kV substation with two (2) 69/13kV transformers.
- Construct a 69kV network in the Edison and Rahway area. Utilize the Front Street-Linden 69kV line.
- **Estimated Cost:** \$92.9M

Projected In-Service: 05/2025

Project Status: Conceptual



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

2/26/2021 – V1 – Original version posted to pjm.com