



TEAC Committee: Mid-Atlantic PSE&G Supplemental Projects

August 31, 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-2021-0004

Process Stage: Solutions Meeting 08/31/2021

Previously Presented: Need Meeting 08/10/2021

Supplemental Project Driver:

- Customer Service

Specific Assumption Reference:

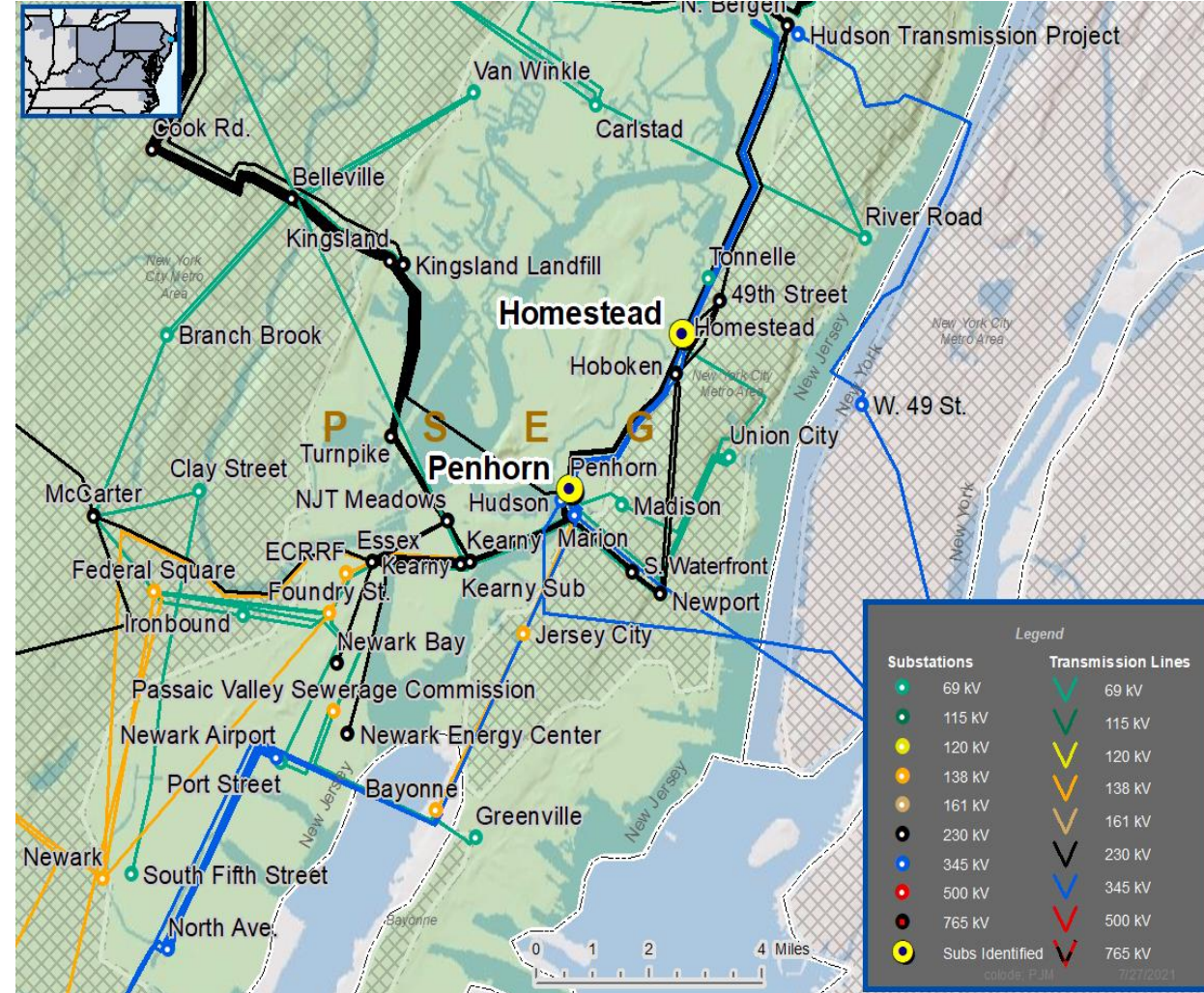
[PSE&G 2021 Annual Assumptions](#)

- Localized Load Growth & Contingency Overloads

Problem Statement:

- Homestead 2H and Penhorn 1H are stations in the North
- Bergen area with capacity less than 60MVA.
- Homestead 2H serves roughly 22,000 customers and 64.8 MVA of load.
- Penhorn 1H serves roughly 20,200 customers and 62.1 MVA of load.

Model: 2020 Series 2025 Summer RTEP 50/50



Need Number: PSEG-2021-0004

Process Stage: Solutions Meeting 08/31/2021

Proposed Solution:

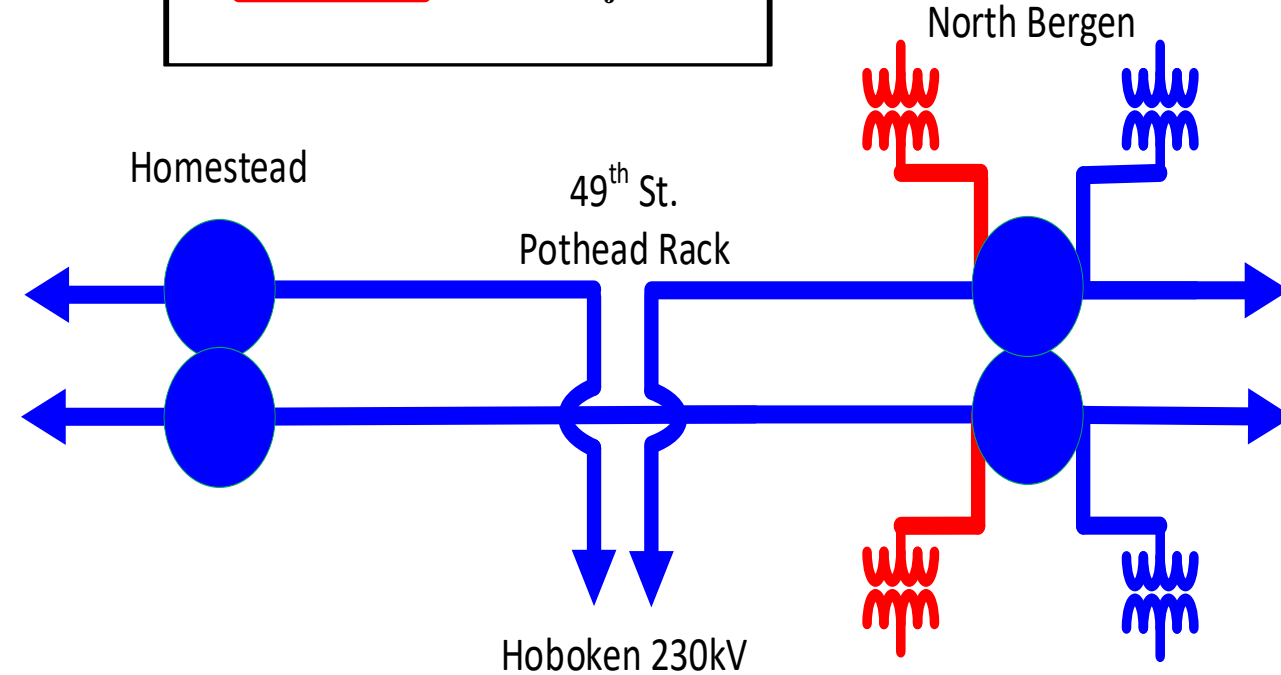
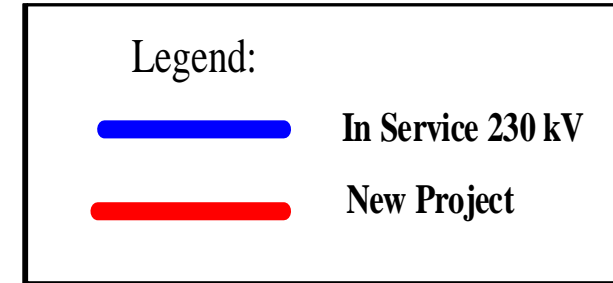
- Construct second half of 230-13kV Class H station at existing North Bergen station.
 - Two (2) additional new 230-13kV transformers and associated equipment.
 - Transfer load from heavily loaded Homestead and Penhorn to the new second half North Bergen 230kV station.
- **Estimated Cost:** \$28.9M

Alternatives Considered:

- Construct a new 230-13kV Class H station at 49th Street Pothead Rack.
 - Two (2) additional new 230-13kV transformers and associated equipment.
 - Transfer load from heavily loaded Homestead and Penhorn to the new 230kV station.
- **Estimated Cost:** \$46.4M
- Construct a new 69-13kV Class H station in West New York.
 - Purchase property to accommodate new construction.
 - Install a 69kV station with two (2) 69-13kV transformers.
 - Construct a 69kV network between Carlstadt, Tonnelle, River Rd and Union City.
 - Transfer load from heavily loaded Homestead and Penhorn to the new 69kV station.
- **Estimated Cost:** \$95.8M

Projected In-Service: 12/2025

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

8/20/2021 – V1 – Original version posted to pjm.com