



SRRTEP Committee: Mid-Atlantic PSE&G Supplemental Projects

October 21, 2019



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-2019-0002

Process Stage: Solutions Meeting 10/21/2019

Previously Presented: Need Meeting 9/24/2019

Supplemental Project Driver:

- Customer Service

Specific Assumption Reference:

[PSE&G 2019 Annual Assumptions](#)

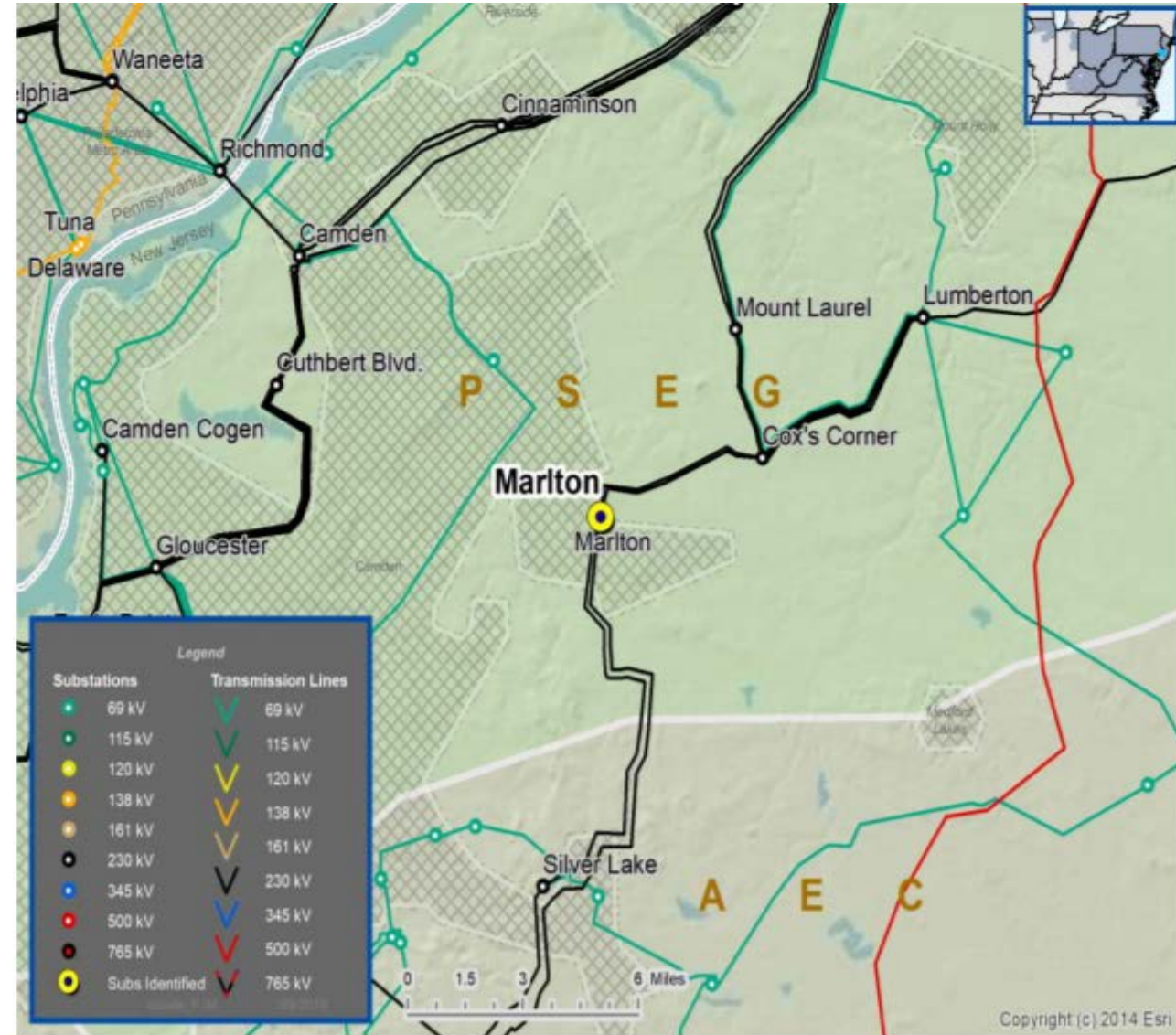
- Localized Load Growth & Contingency Overloads

Problem Statement:

Marlton is a station in the Voorhees area over capacity. The station exceeds its capacity of 120MVA.

- Marlton serves roughly 22,100 customers with a current load of 131 MVA and a projected load of 140 MVA in 2024.

Model: 2018 Series 2023 Summer RTEP 50/50



Need Number: PSEG-2019-0002

Process Stage: Solutions Meeting 10/21/2019

Proposed Solution:

- New 230kV Station in Echelon
 - Install a 230kV station with two (2) 230/13kV transformers.
 - Cut and loop the New Freedom-Marlton 230kV line in to the 230kV bus.
 - Transfer load from heavily loaded Marlton 1H and Marlton 2H to the new station.
 - **Estimated Cost:** \$39M

Ancillary Benefits:

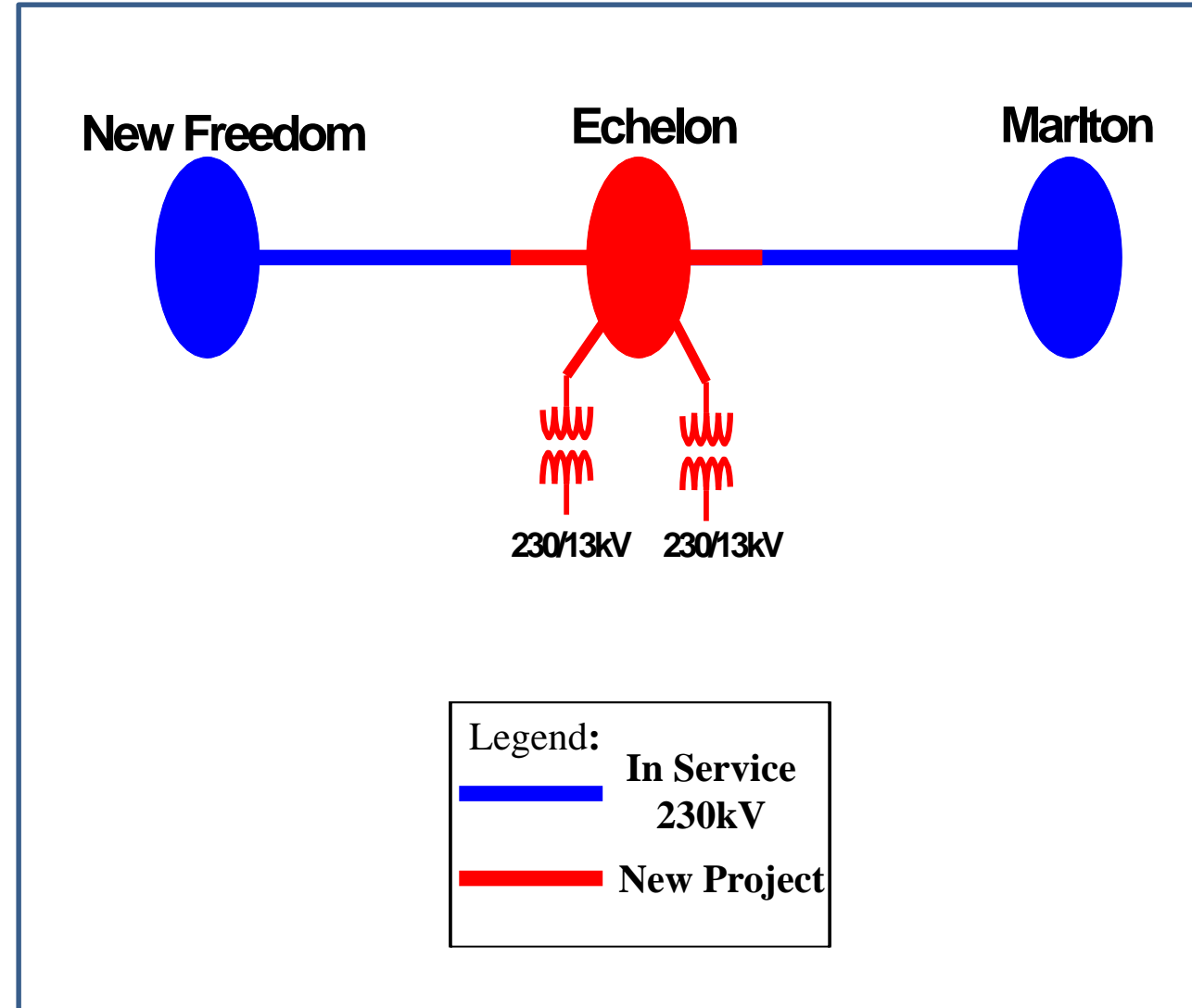
- Decreases the amount of exposure and increases the reliability of the 230kV circuit.

Alternatives Considered:

- New 69-13kV Substation in Echelon
 - Install a 69kV station with two (2) 69/13kV transformers.
 - Cut and loop Lawnside – Maple Shade 69kV circuit in to new Echelon Class H.
 - Construct a new 69kV circuit between the new Echelon station and Hilltop
 - Transfer load from heavily loaded Marlton 1H and Marlton 2H to the new station.
 - **Estimated Cost:** \$68M

Projected In-Service: 06/2024

Project Status: Conceptual



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

10/11/2019 – V1 – Original version posted to pjm.com