

# Marley Neck 115 kV Substation

## General Information

Proposing entity name	PEPCO
Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project?	Yes
Company proposal ID	
PJM Proposal ID	295
Project title	Marley Neck 115 kV Substation
Project description	Construct new Marley Neck 115 kV substation.
Email	proprietary information
Project in-service date	12/2030
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	proprietary information

## Project Components

### 1. Marley Neck 115 kV Substation

#### Substation Upgrade Component

Component title	Marley Neck 115 kV Substation
Project description	Construct new Marley Neck 115 kV substation.
Substation name	Marley Neck 115 kV Substation

Substation zone 232

Substation upgrade scope Construct new 230kV AIS in accordance with the BGE Substation Configuration guidelines including Bus sectionalizing breakers. Marley Neck 115kV portion will accommodate 10 breaker-and-a-half bays, with only 6 bays planned for initial service while accommodating 4 future bays. Two Standard 230/115kV transformers will be connected between the 230 and 115 kV equipment with appropriate isolation methods.

Transformer Information

	Name	Capacity (MVA)		
Transformer	Marley neck 230-1	500		
	High Side	Low Side	Tertiary	
Voltage (kV)	230	115		

	Name	Capacity (MVA)		
Transformer	Marley neck 230-2	500		
	High Side	Low Side	Tertiary	
Voltage (kV)	230	115		

New equipment description Marley Neck 115kV substation will accommodate 10 breaker-and-a-half bays, with only 6 bays planned for initial service while accommodating 4 future bays. Two Standard 230/115kV transformers will be connected between Solley Rd 230 kV Substation and 115 kV equipment with appropriate isolation methods. Adjacent 115 kV lines will be brought into the substation.

Substation assumptions Marley neck 115kV substation along with Solley Rd will connect all adjacent 115kV lines.

Real-estate description This project will be constructed in BGE owned land. No new real estate is required.

Construction responsibility proprietary information

Benefits/Comments proprietary information

Component Cost Details - In Current Year \$

Engineering & design	proprietary information
Permitting / routing / siting	proprietary information
ROW / land acquisition	proprietary information
Materials & equipment	proprietary information
Construction & commissioning	proprietary information
Construction management	proprietary information
Overheads & miscellaneous costs	proprietary information
Contingency	proprietary information
Total component cost	\$107,621,988.31
Component cost (in-service year)	\$115,213,046.26

## Congestion Drivers

None

## Existing Flowgates

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2024W1-N11-ST25	221050	FRED.RD7	221054	CHESTN7A	1	115	232	Summer N-1-1 Thermal	Excluded
2024W1-N11-ST18	221049	FRED.RD8	221051	CHESTN8A	1	115	232	Summer N-1-1 Thermal	Excluded
2024W1-N11-ST29	220975	WAG-1 HS	221041	WAGNER	1	230/115	232	Summer N-1-1 Thermal	Included
2024W1-N11-ST17	221049	FRED.RD8	221051	CHESTN8A	1	115	232	Summer N-1-1 Thermal	Excluded
2024W1-N11-ST28	220976	WAG-2 HS	221041	WAGNER	1	230/115	232	Summer N-1-1 Thermal	Included
2024W1-N11-ST27	220979	NEAST317	221112	N.EAST	1	230/115	232	Summer N-1-1 Thermal	Included
2024W1-N11-ST26	221050	FRED.RD7	221054	CHESTN7A	1	115	232	Summer N-1-1 Thermal	Excluded
2024W1-N11-ST22	221049	FRED.RD8	221051	CHESTN8A	1	115	232	Summer N-1-1 Thermal	Excluded
2024W1-N11-ST9	220954	HOWARD32	220974	PUMPHRY	1	230	232	Summer N-1-1 Thermal	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2024W1-N11-ST24	221050	FRED.RD7	221054	CHESTN7A	1	115	232	Summer N-1-1 Thermal	Excluded
2024W1-N11-ST12	220954	HOWARD32	220974	PUMPHRY	1	230	232	Summer N-1-1 Thermal	Included
2024W1-N11-ST23	220965	NEAST339	221112	N.EAST	1	230/115	232	Summer N-1-1 Thermal	Included

## New Flowgates

None

## Financial Information

Capital spend start date 01/2025

Construction start date 01/2028

Project Duration (In Months) 71

## Additional Comments

None