

**PJM Facilities Study Report**  
**For**  
**Network Upgrade N9266**  
**Transition Cycle #1**

June 2025

## Introduction

This Facilities Study has been prepared in accordance with the PJM Open Access Transmission Tariff and PJM Manuals. The Transmission Owner (TO) is Virginia Electric and Power Company (VEPCO or Dominion).

### A. Project Description

The System Impact Study for PJM Interconnection Transition Cycle #1 has identified the need for PJM Network Upgrade N9266. The scope of this Network Upgrade includes the following:

- Replacement of switches 25944 and 25945 at Basin Substation

The Preliminary Scoping Document located in the Appendices, Attachment #1.

### B. Transmission Owner Facilities Study Results

#### 1. Detailed Scope of work for Network Upgrade N9266:

The following is a detailed description of Transmission Owner Upgrades for Network Upgrade N9266. These facilities shall be designed according to the Transmission Owner's Applicable Technical Requirements and Standards. Once built the Transmission Owner will own, operate, and maintain these facilities.

See Preliminary Scoping Summaries located in the Appendices, Attachment #1.

#### 2. MILESTONE SCHEDULE FOR COMPLETION OF DOMINION WORK

Facilities outlined in this report are estimated to take 38 months to construct, from the time of full execution of the Generation Interconnection Agreement and completion of a construction kickoff call. This schedule may be impacted by the timeline for procurement and installation of long lead items and the ability to obtain outages to construct and test the proposed facilities.

Description	Start month	Finish month
Engineering	1	9
Permitting/Procurement	3	35
Construction	36	38

### **3. ASSUMPTIONS IN DEVELOPING SCOPE/COST/SCHEDULE**

- The preliminary construction schedule is dependent on outage availability.
- See Attachment 1 – Preliminary Scoping Summary – Substation for additional assumptions

### **4. LAND REQUIREMENTS**

Dominion will be responsible for the following expectations in the area of Real Estate:

- Any additional land needed for Storm Water Management, Landscaping, and Wetlands/Wetlands Mitigation.
- Any other Land/Permitting requirements required by the Network Upgrade

### **5. ENVIRONMENTAL AND PERMITTING**

Dominion will be responsible for the following expectations in the area of Environmental and Permitting:

- Assessment of environmental impacts related to the Network Upgrade including:
  - Environmental Impact Study requirements
  - Environmental Permitting
- A stormwater easement and/or specific stormwater design BMP's to allow access to and use of the facilities, including a maintenance agreement for said stormwater facilities.
- Conditional Use Permit for Substation
- Any additional land needed for Storm Water Management, Landscaping, and Wetlands/Wetlands Mitigation
- Any other Permitting requirements required by the Network Upgrade

### **C. APPENDICES**

Attachment #1: Preliminary Scoping Summary – Basin Substation



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Project Number: N9266 – Basin Substation

Project Description: Replace 230kV Switches 25944 and 25945  
***SUBSTATION SCOPE OF WORK***

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Date: 06/20/2025

Revision Number: 0

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### Project Summary

Project Number N9266 provides for the replacement of switches 25944 and 25945 at Basin Substation in Richmond, Virginia.

#### **Purchase and install substation material – Network Upgrade:**

1. One (1), 230kV, 4000A, 3-phase double end break switch
2. One (1), 230kV, 4000A, 3-phase vertical mounted switch
3. Conductors, connectors, conduits, control cables, and grounding materials as per engineering standards

#### **Remove substation material – Network Upgrade:**

1. One (1), 230kV, 2000A, 3-phase center break gang operated switch
2. One (1), 230kV, 2000A, 3-phase vertical mounted switch