

PJM Facilities Study Report
For
Network Upgrade N8492
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 N8492. The scope of this Network Upgrade includes the following:

- Install new Yadkin – Fentress 500kV Line #5005.
- Rebuild existing Yadkin – Fentress 500kV Line #588

B. Transmission Owner Facilities Study Results

1. Detailed Scope of work for Network Upgrade N8492

The following is a detailed description of Transmission Owner Upgrades for Network Upgrade N8492. 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.

- Rebuild existing Yadkin – Fentress 500kV Line #588 to share the ROW with the New Yadkin-Fentress #5005 line.

2. MILESTONE SCHEDULE FOR COMPLETION OF DOMINION WORK

Facilities outlined in this report are being constructed under an IISA/IICAS agreement. The work is scheduled to be completed by 12/31/2026.

Description	Start	Finish
Engineering	Complete	Complete
Permitting/Procurement	Complete	Complete
Construction	On-going	12/31/2026

3. ASSUMPTIONS IN DEVELOPING SCOPE/COST/SCHEDULE

N8492 is currently under construction.

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

The 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