# **Dominion Supplemental Projects**

Transmission Expansion Advisory Committee February 4, 2020



## Needs

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



Dominion Transmission Zone: Supplemental

**Customer Load Request** 

Need Number: DOM-2020-0001

Process Stage: Need Meeting 02/04/2020

**Project Driver:** Customer Service

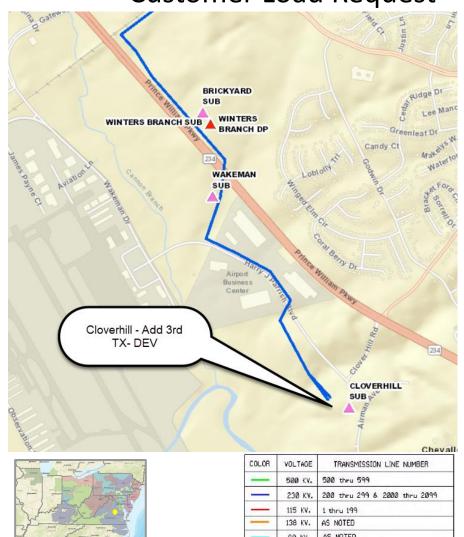
#### **Specific Assumption References:**

Customer load request will be evaluated per Dominion's Facility Interconnection Requirements Document and Dominion's Transmission Planning Criteria.

#### **Problem Statement:**

DEV Distribution has submitted a DP Request to add a 3rd, 84 MVA distribution transformer at Cloverhill Substation in Prince William County. The new transformer is being driven by continued load growth in the area and contingency loading for loss of one of the existing transformers. Requested in-service date is 06/01/2022.

Initial In-Service Load	Projected 2025 Load
Summer: 137.2 MW	Summer: 272.2 MW





# 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



Dominion Transmission Zone: Supplemental TX Health Assessment (THA)

Need Number: DOM-2019-0027

**Process Stage:** Solutions Meeting 02/04/2020

**Previously Presented:** Need Meeting – 07/11/2019

Project Driver: TX Health Assessment (THA)

#### **Specific Assumption References:**

See details on Equipment Material Condition, Performance and Risk in Dominion's Planning Assumptions presented in December 2018.

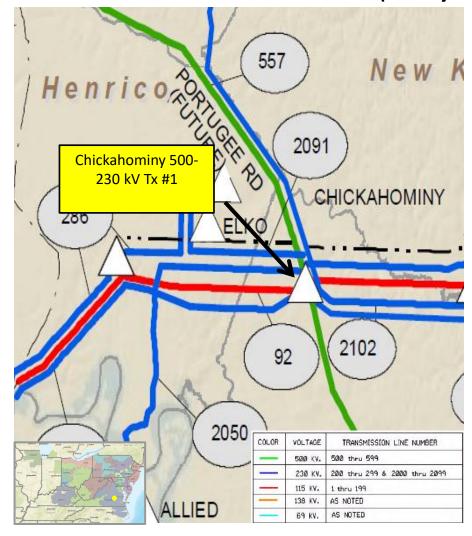
#### **Problem Statement:**

Chickahominy 500-230 kV 840 MVA transformer #1 needs to be replaced as a result of Dominion's ongoing transformer health assessment (THA) process. This process considers design characteristics, past electrical test results, dissolved gas-in-oil test results, age, ongoing maintenance issues, and past failures of similar designed transformers.

This transformer was manufactured in 1987 and is the last shell transformer on the Dominion System, these transformers have known issues.

Drivers for replacement are:

- Reduced BIL Ratings
- Previously remanufactured following failure
- Transformers of this manufacture are considered suspect due to previous transformer failures





# Dominion Transmission Zone: Supplemental Chickahominy 500-230 kV TX #1

Need Number: DOM-2019-0027

**Process Stage:** Solutions Meeting 02/04/2020

**Proposed Solution:** 

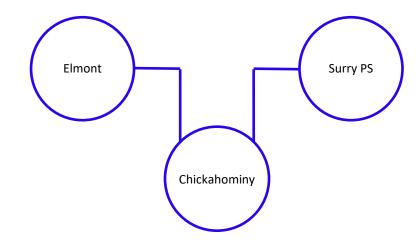
Replace the three single phase banks and one spare bank with new units.

**Actual Project Cost: \$14.1M** 

**Alternatives Considered:** No feasible alternatives

**Project Status:** Complete

Model: 2023 RTEP





# 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	Activity	Timing	
Supplemental	Do No Harm (DNH) analysis for selected solution	Prior to posting selected solution	
Projects & Local	Post selected solution(s)	Following completion of DNH analysis	
Plan	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**

01/24/2020 – V1 – Original version posted to pjm.com.

01/31/2020 – V2 – Updated transformer cost information on slide 6.

