

SRRTEP Committee Southern Dominion Supplemental Projects

October 15, 2020

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 Equipment Material Condition, Performance and Risk

Need Number: DOM-2020-0034

Process Stage: Solutions Meeting 10/15/2020

Previously Presented: Need Meeting 09/10/2020

Project Driver: Equipment Material Condition, Performance and Risk

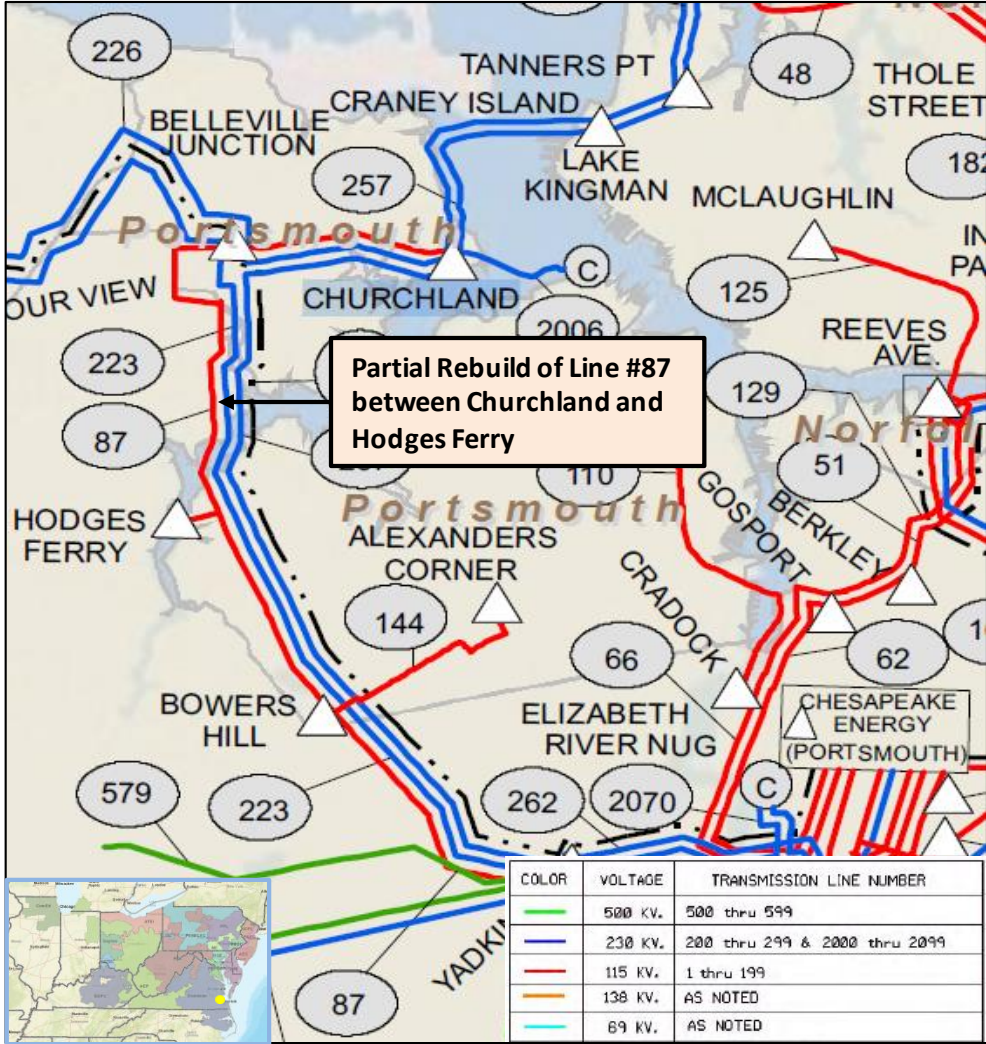
Specific Assumption Reference:

See details on Equipment Material Condition, Performance and Risk in Dominion’s Planning Assumptions presented in December 2019 and updated in June 2020.

Problem Statement:

Dominion Energy has identified a need to replace 42 wood pole structures (Churchland – Hodges Ferry segment) of 115kV Line #87 (Churchland – Chesapeake Energy Center) based on the Company’s End of Life criteria.

- The 5.21 miles segment of 115kV Line #87 was constructed on wood H-frame structures in 1957, and includes ACSR conductor and 3#8 static. These structures are at the end of their useful life.
- Industry guidelines indicate equipment life for wood structures is 35-55 years, conductor and connectors are 40-60 years, and porcelain insulators are 50 years.
- 115kV Line #87 provides service to Bower’s Hill and Hodges Ferry substations with approximately 18 MW and 61 MW tapped load. Removal of the Churchland – Hodges Ferry segment will create a radial line exceeding Dominion’s 700 MW-miles criteria.



Dominion Transmission Zone: Supplemental Line #87 End-of-Life Partial Rebuild – Churchland to Hodges Ferry

Need Number: DOM-2020-0034

Process Stage: Solutions Meeting 10/15/2020

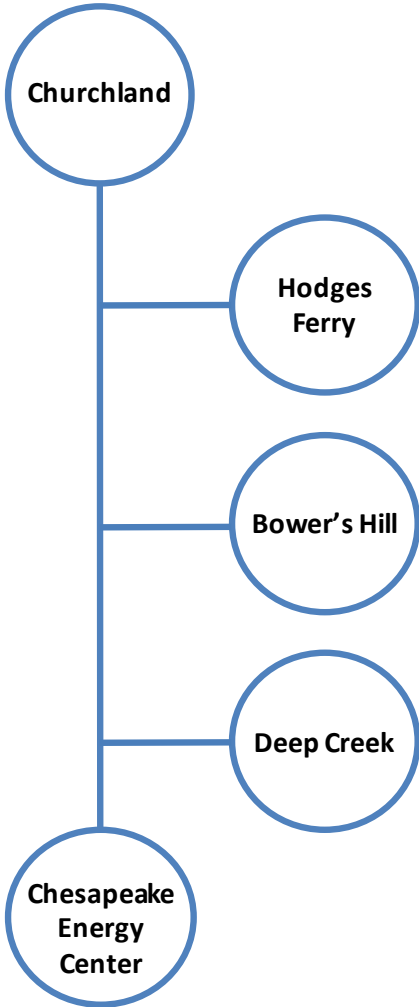
Proposed Solution:
Rebuild approximately 5.21 miles of 115kV Line #87 between Churchland and Hodges Ferry to current 115kV standards. The summer rating of the line segment will be 262 MVA.

Project Status: Conceptual

Estimated Project Cost: \$ 8 M

Project Target In-service Date: 12/31/2023

Alternative:
No feasible alternatives



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

10/5/2020 – V1 – Original version posted to pjm.com