

SRRTEP Committee Southern Dominion Supplemental Projects

September 24, 2019

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: Equipment Material Condition, Performance, and Risk

Need Number: DOM-2019-030

Process Stage: Need Meeting 09/24/2019

Project Driver: Equipment Material Condition, Performance, and Risk

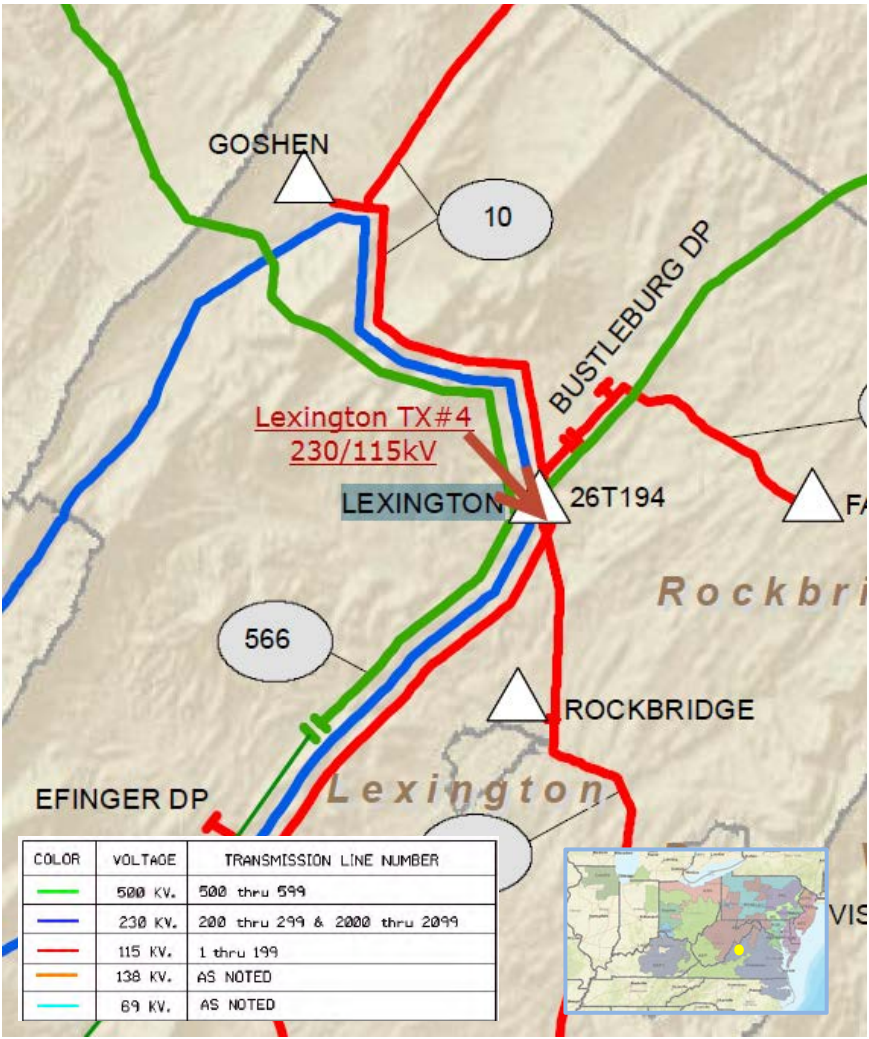
Problem Statement:

Lexington Tx#4 is a 168 MVA 230/115 kV transformer originally manufactured by Ferranti Packard in 1986. This transformer is being replaced as part of our strategic transmission transformer replacement program as based on the results of our ongoing transformer health assessment (THA) process. Detailed drivers are:

- DGA indicates trending upward levels of Hydrogen, Methane, along with high levels of carbon monoxide and carbon dioxide since 1997. Oil was degasified in 2009 but gas trending continues.
- Reduced BIL ratings

Specific Assumption References:

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



Dominion Transmission Zone: Equipment Material Condition, Performance, and Risk

Need Number: DOM-2019-031

Process Stage: Need Meeting 09/24/2019

Project Driver: Equipment Material Condition, Performance, and Risk

Problem Statement:

Gordonsville Tx#3 is a 224 MVA 230/115 kV transformer originally manufactured by Cooper Power Systems in 1990. This transformer is being replaced as part of our strategic transmission transformer replacement program as based on the results of our ongoing transformer health assessment (THA) process. Detailed drivers are:

- Transformer failed in service at Dooms in 1999, repaired / remanufactured in 2000 and returned to service in Gordonsville in 2005.
- Oil DGA indicates trending upward levels of Methane and Ethylene, along with high levels of carbon monoxide and carbon dioxide since returning to service.
- Reduced BIL ratings

Specific Assumption References:

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



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

9/12/2019 – V1 – Original version posted to pjm.com