

SRRTEP Committee Southern Dominion Supplemental Projects

September 15, 2022

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 Customer Load Request

Need Number: DOM-2022-0022

Process Stage: Solution Meeting 09/15/2022

Previously Presented: Need Meeting 06/13/2022

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 for a new 138kV DP (Alleghany) to serve increasing load in Alleghany County. The total projected load will be approximately 21 MW by 2033. The requested in-service date is 12/31/2023.

Initial In-Service Load (2024)	Projected Load (2027)
Summer: 16.9 MW	Summer: 17.4 MW



Dominion Transmission Zone: Supplemental Alleghany 138kV Delivery Point

Need Number: DOM-2022-0022

Process Stage: Solution Meeting 09/15/2022

Proposed Solution:

Create a tee-tap on 138kV Line #133 Clifton Forge – Low Moor between structures 22 and 23 to source the customer substation located approximately 100' away from the line. Install switch structures and switches on both sides of the tap point and an H-frame backbone structure inside Alleghany Substation, along with a wave trap, MOAB switch, circuit switcher and other ancillary work as needed.

Estimated Project Cost:

Total Cost: \$5.0 M

Transmission Cost: \$3.6 M

Substation Cost: \$1.4 M

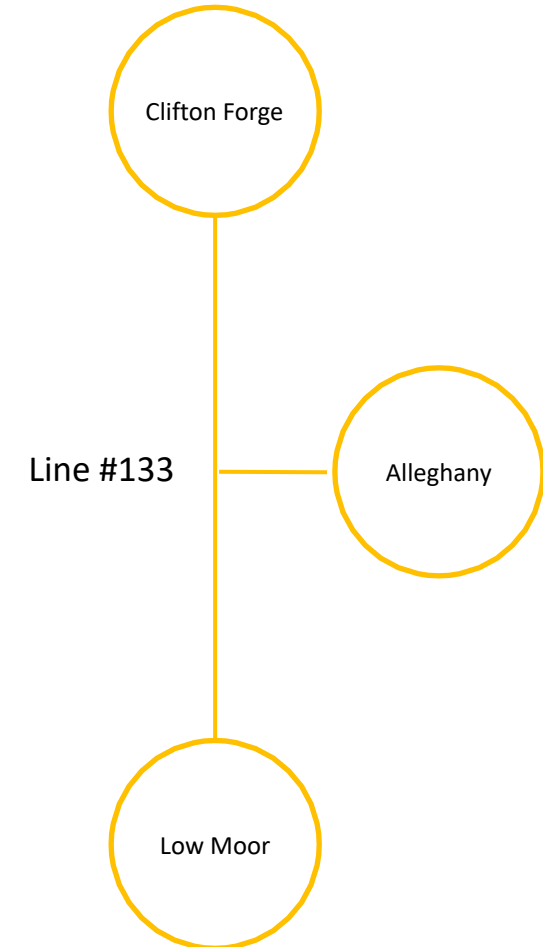
Alternatives Considered:

No feasible alternatives

Projected In-service Date: 12/31/2023

Project Status: Engineering

Model: 2025 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2022-0050

Process Stage: Solutions Meeting 09/15/2022

Previously Presented: Need Meeting 08/18/2022

Project Driver: Customer Service

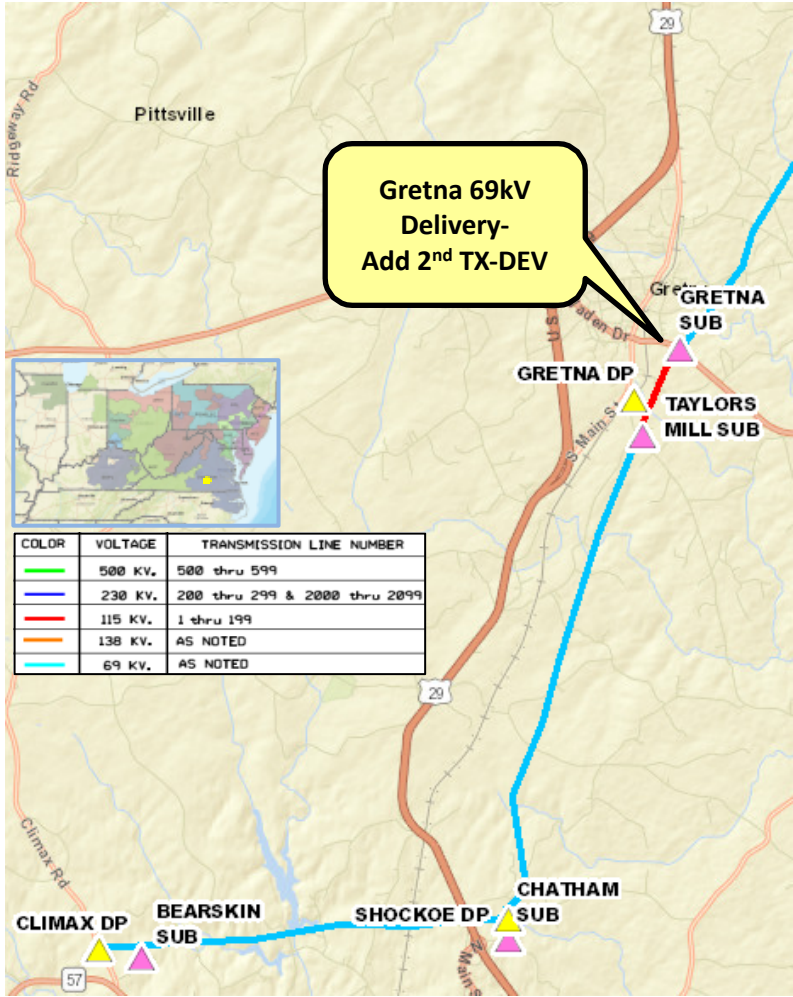
Specific Assumption References:

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 2nd, 3 - 2.5/3.125 MVA distribution transformer at Gretna Substation in Pittsylvania County, Virginia. The new transformer is needed for voltage island mitigation. Requested in-service date is 12/15/2024.

Initial In-Service Load	Projected 2027 Load
Winter: 7.5 MW	Summer: 8.5 MW



Dominion Transmission Zone: Supplemental Gretna 69kV Delivery- Add 2nd TX - DEV

Need Number: DOM-2022-0050

Process Stage: Solutions Meeting 09/15/2022

Proposed Solution:

Install a 69kV circuit switcher, high side switch and associated equipment (bus, switches, relaying, etc.) to feed the new transformer at Gretna.

Estimated Project Cost: \$0.5 M

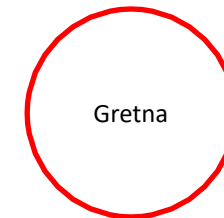
Alternatives Considered:

No feasible alternatives

Projected In-service Date: 12/15/2024

Project Status: Engineering

Model: 2025 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 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

08/29/2022 – V1 – Original version posted to pjm.com.