

Dominion Supplemental Projects

Transmission Expansion Advisory
Committee
July 13, 2021

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-2021-0048

Process Stage: Need Meeting 07/13/2021

Project Driver: Customer Service

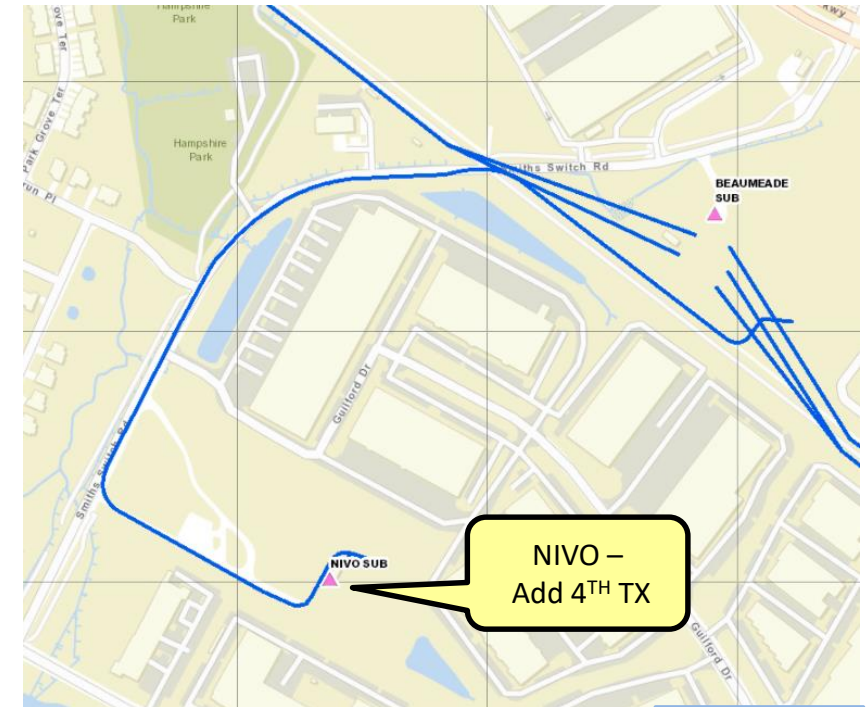
Specific Assumption References:

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 the 4th distribution transformer at NIVO Substation in Loudoun County. The new transformer is being driven by continued load growth in the area.

Requested in-service date is 09/01/2022.



Initial In-Service Load	Projected 2026 Load
Summer: 193.0 MW	Summer: 158.0 MW

COLOR	VOLTAGE	TRANSMISSION LINE NUMBER
Green	500 KV.	500 thru 599
Blue	230 KV.	200 thru 299 & 2000 thru 2099
Red	115 KV.	1 thru 199
Orange	138 KV.	AS NOTED
Cyan	69 KV.	AS NOTED

Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2021-0053

Process Stage: Need Meeting 07/13/2021

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 the 4th distribution transformer at Shellhorn Substation in Loudoun County. The new transformer is being driven by continued load growth in the area.

Requested in-service date is 12/15/2022.

Initial In-Service Load	Projected 2026 Load
Summer: 148.0 MW	Summer: 243.0 MW



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2021-0056

Process Stage: Need Meeting 7/13/2021

Project Driver: Customer Service

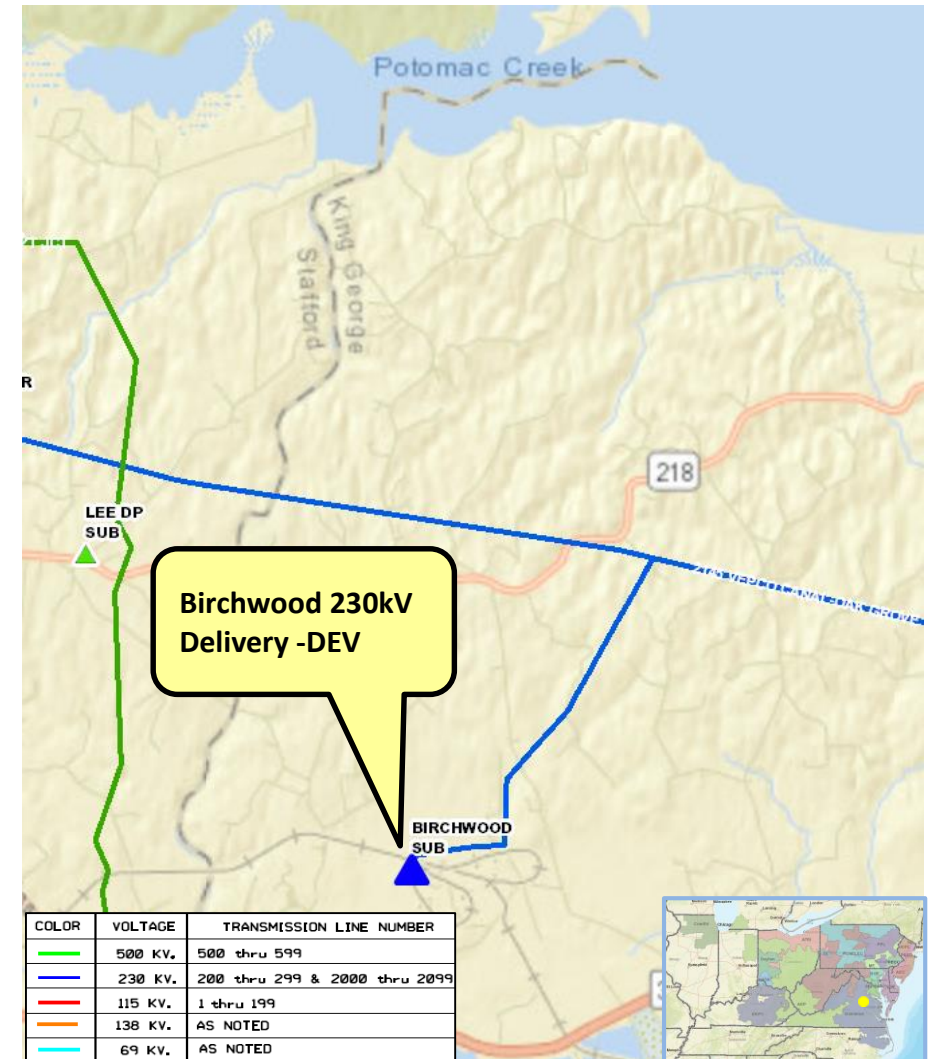
Specific Assumption References:

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 install a distribution transformer at Birchwood Substation. The new transformer is being driven by load growth in the area. The requested in-service date is 11/30/2022.

Initial In-Service Load	Projected 2026 Load
Summer: 5.0 MW	Summer: 32.0 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 Customer Load Request

Need Number: DOM-2021-0001

Process Stage: Solutions Meeting 07/13/2021

Previously Presented: Need Meeting 01/06/2021

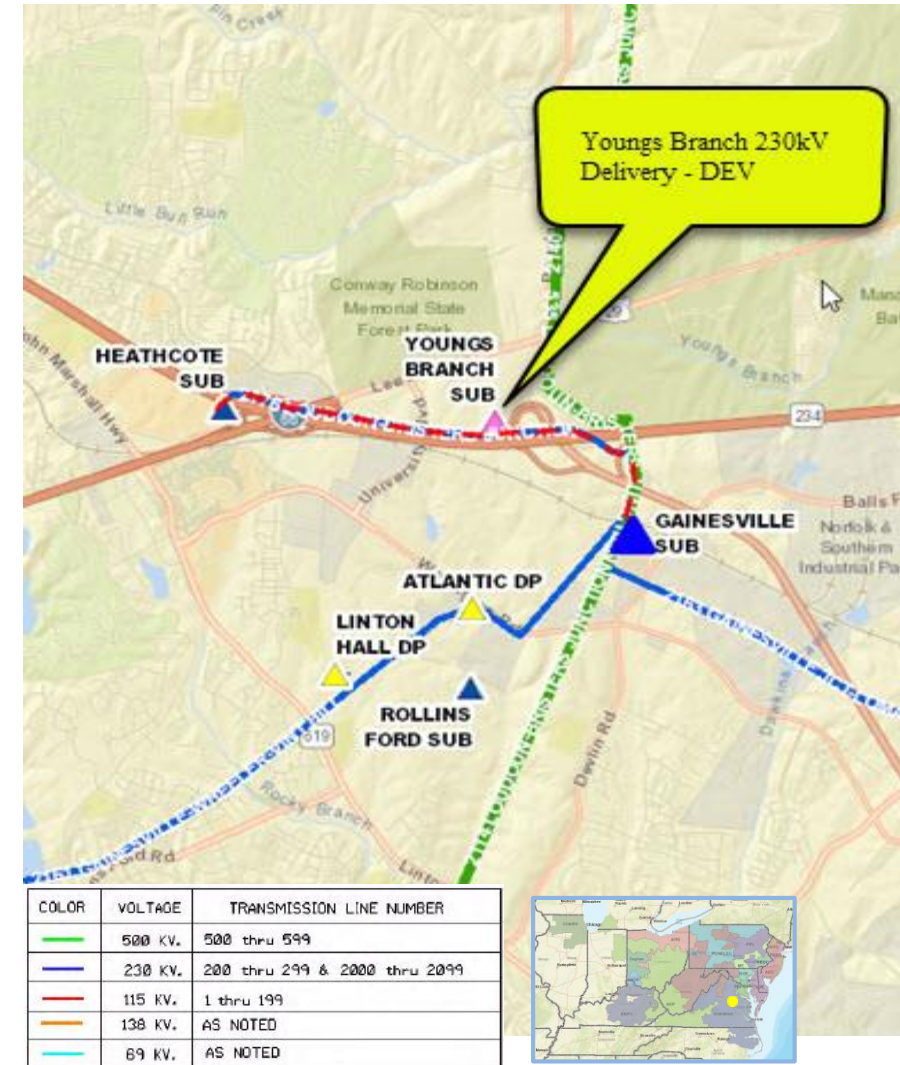
Project Driver: Customer Service

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 substation (Youngs Branch) to accommodate a new datacenter campus in Prince William County with a total load in excess of 100MW. Requested in-service date is 10/30/2022.



Initial In-Service Load	Projected 2026 Load
Winter: 31.0 MW	Winter: 143.3 MW

Dominion Transmission Zone: Supplemental Youngs Branch 230kV Delivery - DEV

Need Number: DOM-2021-0001

Process Stage: Solutions Meeting 07/13/2021

Proposed Solution:

Interconnect the new substation by cutting and extending Line #2140 (Heathcote - Loudoun) to the proposed Youngs Branch Substation. Terminate both ends into a four-breaker ring arrangement to create a Heathcote – Youngs Branch line and a Loudoun – Youngs Branch line.

Estimated Project Cost: \$10.0 M

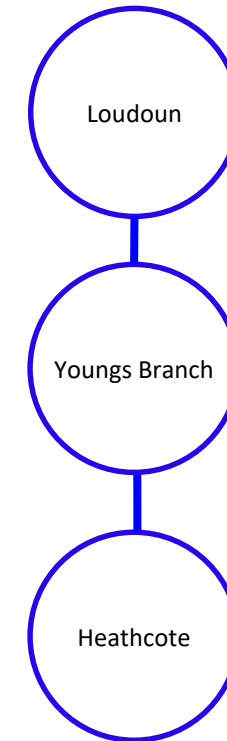
Alternatives Considered:

No feasible alternatives

Projected In-service Date: 10/30/2022

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

07/02/2021 – V1 – Original version posted to pjm.com.

07/07/2021 – V2 – Removed slides associated with DOM-2020-0040. Revised solution to be presented at a future meeting.