

Dominion Supplemental Projects

Transmission Expansion Advisory
Committee
June 2, 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 Customer Load Request

Need Number: DOM-2020-0012

Process Stage: Solutions Meeting 06/02/2020

Previously Presented: Need Meeting 05/12/2020

Project Driver: Customer Service

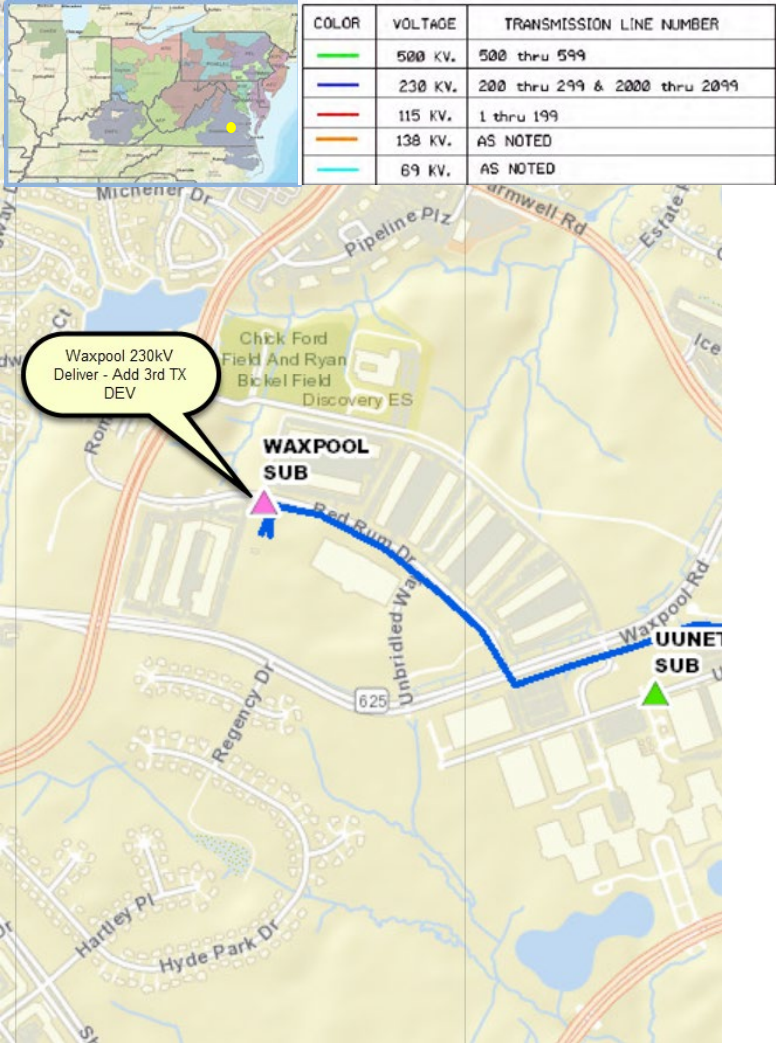
Specific Assumption References:

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, 112 MVA distribution transformer at Waxpool Substation in Loudoun County. The new transformer is being driven by continued load growth in the area. Requested in-service date is 10/01/2021.

Initial In-Service Load	Projected 2025 Load
Summer: 185.5 MW	Summer: 217.5 MW



Dominion Transmission Zone: Supplemental Waxpool 230kV Delivery- Add 3rd TX - DEV

Need Number: DOM-2020-0012

Process Stage: Solutions Meeting 06/2/2020

Proposed Solution:

Install a 1200 Amp, 50kAIC circuit switcher and associated equipment (bus, switches, relaying, etc.) to feed the new transformer at Waxpool.

Estimated Project Cost: \$0.5 M

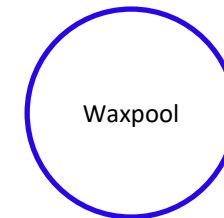
Alternatives Considered:

No feasible alternatives

Projected In-service Date: 10/01/2021

Project Status: Engineering

Model: 2023 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2020-0013

Process Stage: Solutions Meeting 06/02/2020

Previously Presented: Need Meeting 05/12/2020

Project Driver: Customer Service

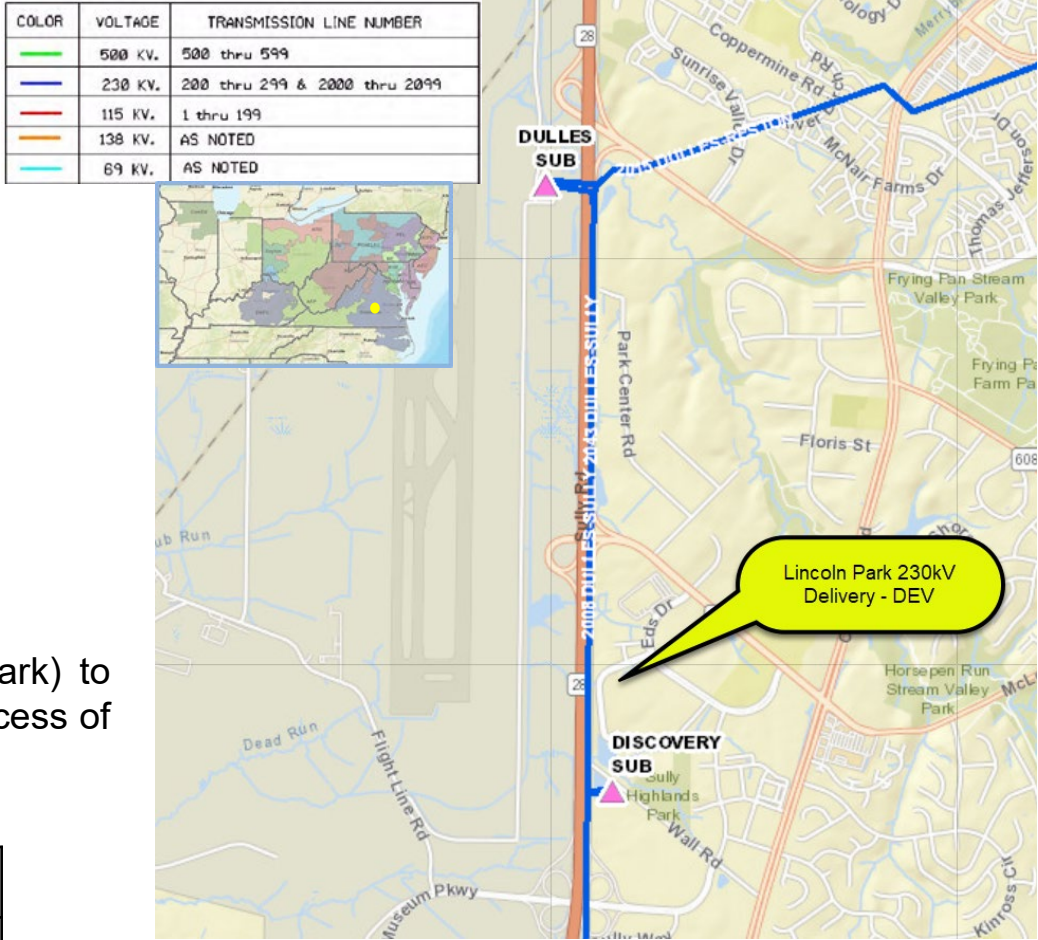
Specific Assumption References:

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 for a new substation (Lincoln Park) to accommodate a new datacenter campus in Loudoun County with a total load in excess of 100MW. Requested in-service date is 9/01/2023.

Initial In-Service Load	Projected 2025 Load
Summer: 16.0 MW	Summer: 52.0 MW



Dominion Transmission Zone: Supplemental Lincoln Park 230kV Delivery - DEV

Need Number: DOM-2020-0013

Process Stage: Solutions Meeting 06/02/2020

Proposed Solution:

Interconnect the new substation by cutting and extending Line #2008 (Dulles-Loudoun) and Line #2143 (Discovery-Reston) to the proposed Lincoln Park Substation. Lines to terminate in a six-breaker ring arrangement.

Estimated Project Cost: \$10.0 M

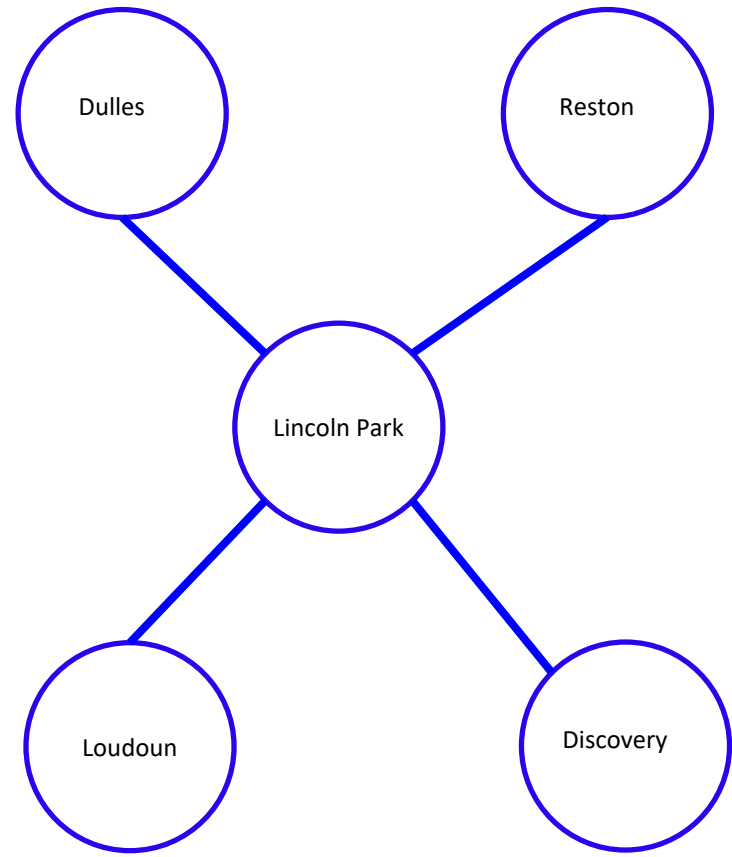
Alternatives Considered:

No feasible alternatives

Projected In-service Date: 09/01/2023

Project Status: Engineering

Model: 2023 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2019-0022 – UPDATE

Supplemental Number: s2130

Process Stage: Solutions Meeting 06/02/2020

Previously Presented: Solutions Meeting 10/17/2019

Project Driver: Customer Service

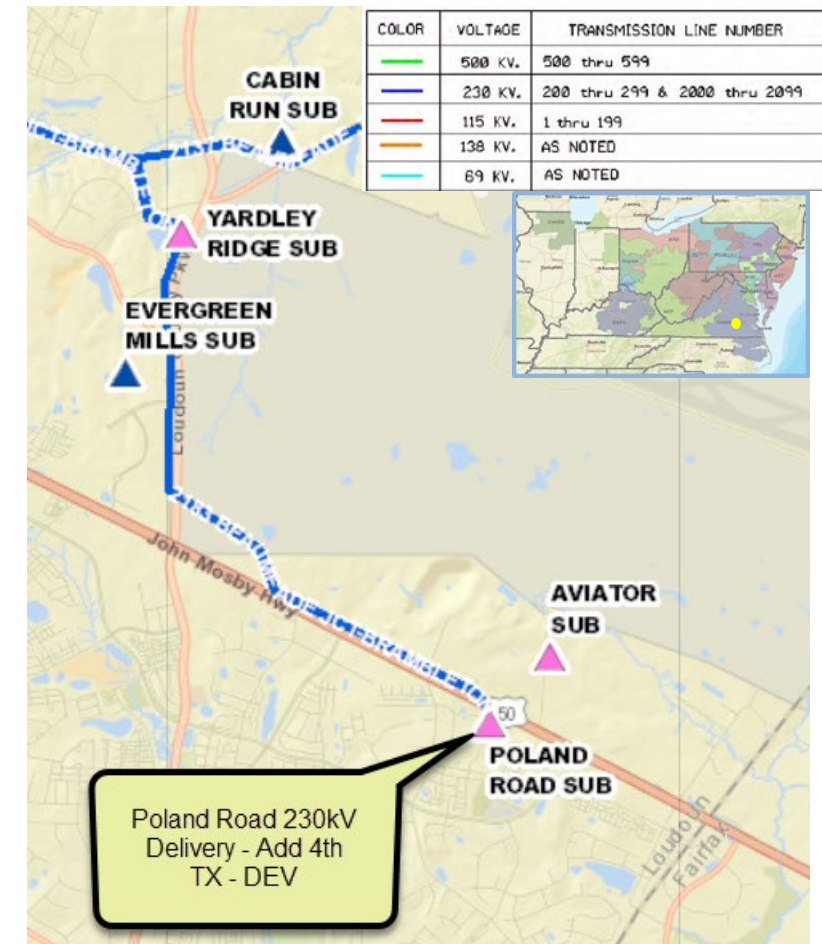
Specific Assumption References:

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 **revised** DP Request to add a 4th, 84 MVA distribution transformer at Poland Road Substation in Loudoun County. The new transformer is being driven by continued datacenter load growth and alternate feed contract reservations. Requested **revised** in-service date is 09/01/2021.

Initial In-Service Load	Projected 2024 Load
Summer: 186.0 MW (UPDATED)	Summer: 214.0 MW (UPDATED)



Dominion Transmission Zone: Supplemental Poland Road 230kV Delivery- Add 4th TX - DEV

Need Number: DOM-2019-0022 - UPDATE

Supplemental Number: s2130

Process Stage: Solutions Meeting 06/02/2020

Proposed Solution:

Install a 1200 Amp, 50kAIC circuit switcher and associated equipment (bus, switches, relaying, etc.) to feed the new transformer at Poland Road.

Estimated Project Cost: \$0.4 M (UPDATED)

Alternatives Considered:

No feasible alternatives

Projected In-service Date: 09/01/2021 (UPDATED)

Project Status: Engineering

Model: 2023 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2019-0024 – **Cancelled**

Supplemental Number: s2132

Process Stage: Solutions Meeting 06/02/2020

Previously Presented: Solutions Meeting 11/14/2019

Project Driver: Customer Service

Specific Assumption References:

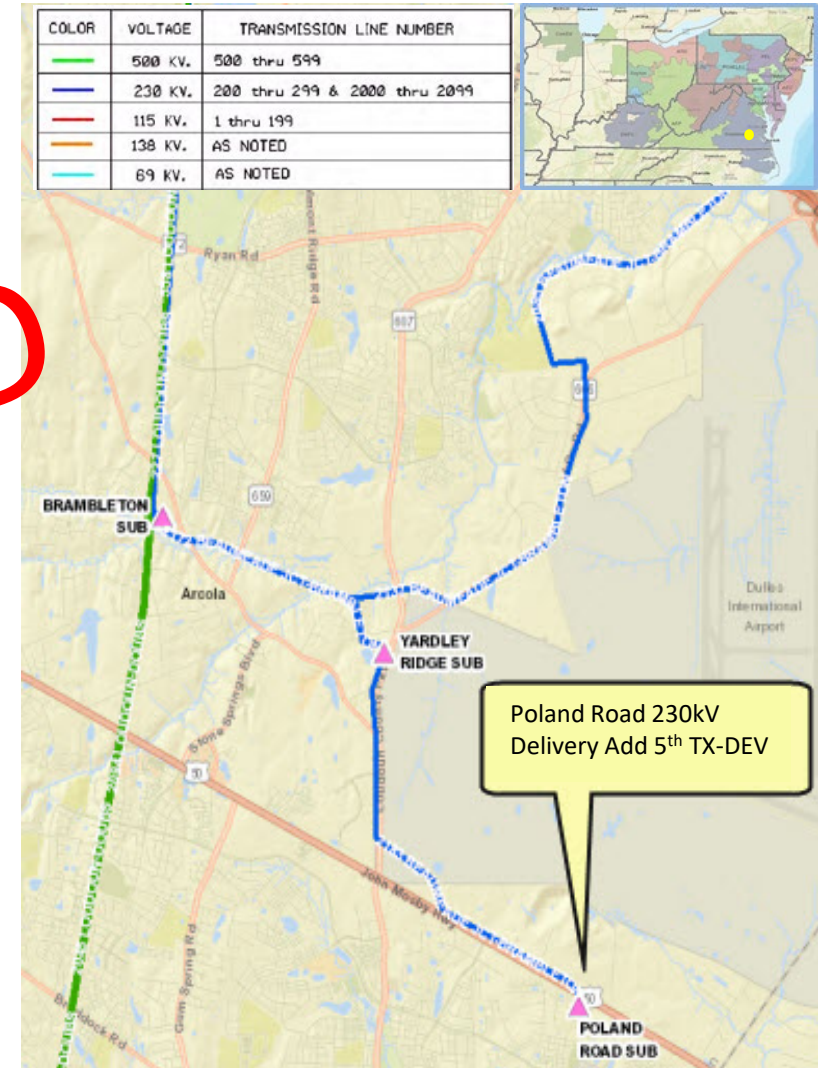
Customer load request will be evaluated per Dominion's Facility Interconnection Requirements Document and Dominion's Transmission Planning Criteria.

CANCELLED

Problem Statement:

DEV Distribution has submitted a DP Request to add a 5th, 84 MVA distribution transformer at Poland Road Substation in Loudoun County. The new transformer is being driven by continued datacenter load growth and alternate feed contract reservations. Requested in-service date is 10/15/2022.

Initial In-Service Load	Projected 2024 Load
Summer: 268.0 MW	Summer: 293.0 MW



Dominion Transmission Zone: Supplemental Poland Road 230kV Delivery- Add 5th TX - DEV

Need Number: DOM-2019-0024

Supplemental Number: s2132

Process Stage: Solutions Meeting 11/14/2019

Proposed Solution:

Install a 1200 Amp, 50kAIC circuit switcher and associated equipment (bus, switches, relaying, etc.) to feed the new transformer at Poland Road.

Estimated Project Cost: \$0.4 M

Alternatives Considered:

No feasible alternatives

Projected In-service Date: 10/15/2022

Project Status: Engineering

Model: 2023 RTEP

CANCELLED



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

5/21/2020 – V1 – Original version posted to pjm.com.