Dominion Supplemental Projects

Transmission Expansion Advisory Committee March 7, 2023



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



Need Number: DOM-2023-0006

Process Stage: Need Meeting 03/07/2023

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.

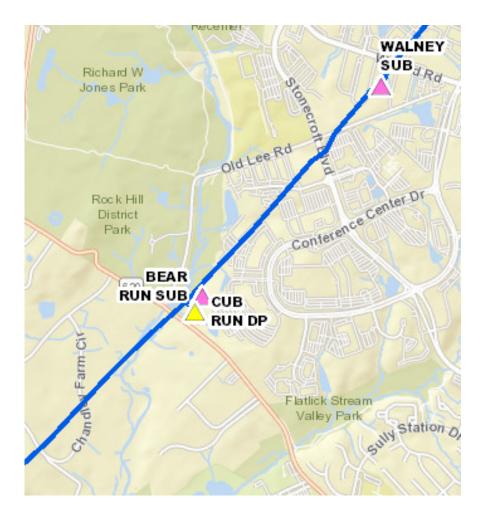
Problem Statement:

DEV Distribution has submitted a delivery point request for a new substation (NIT) in Norfolk, VA with a total load less than 100MW. The customer requests service by June 1, 2025.

Initial In-Service Load	Projected 2028 Load
Summer: 49.3 MW	Summer: 49.3 MW









Need Number: DOM-2023-0007

Process Stage: Need Meeting 03/07/2023

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:

NOVEC has submitted a Delivery Point (DP) Request stating that it is expanding Cub Run Substation in Fairfax County and the total load will exceed 100MW. Requested in-service date is 3/15/2024.

Initial In-Service Load	Projected 2028 Load
Summer: 45.0 MW	Summer: 90.0 MW

Need Number: DOM-2023-0015

Process Stage: Need Meeting 03/07/2023

Project Driver: Customer Service

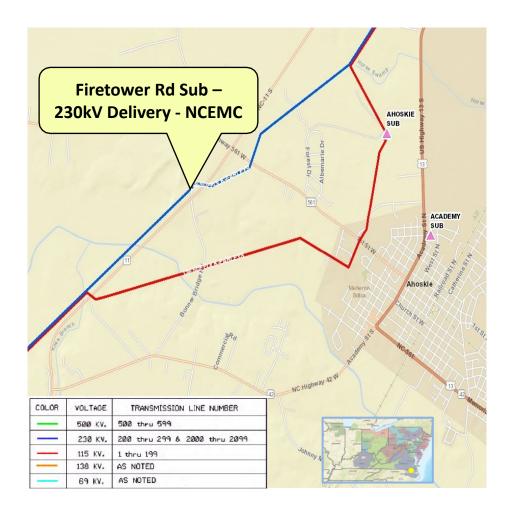
Specific Assumption References:

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

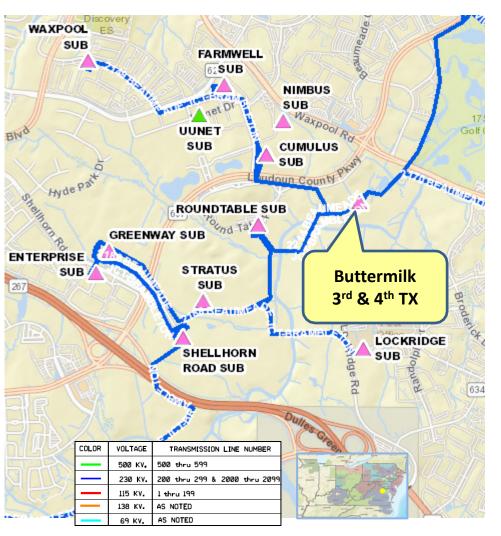
Problem Statement:

NCEMC has submitted a delivery point request for a new substation (Firetower Rd) to serve a gas compression facility in Ahoskie, NC. The total load is less than 100 MW. The customer requests service by December 31, 2023.

Initial In-Service Load	Projected 2028 Load
Winter: 8.1 MW	Summer: 8.1 MW







Need Number: DOM-2023-0019

Process Stage: Need Meeting 03/07/2023

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 3rd and 4th distribution transformers at Buttermilk Substation in Loudoun County. The new transformer is being driven by continued load growth in the area. Requested in-service date is 12/15/2024.

Initial In-Service Load	Projected 2028 Load
Summer: 128.0 MW	Summer: 147.0 MW



Need Number: DOM-2023-0020

Process Stage: Need Meeting 03/07/2023

Project Driver: Customer Service

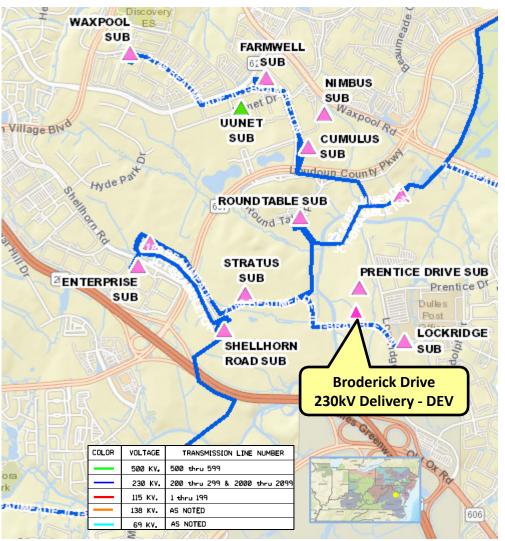
Specific Assumption References:

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 (Broderick Drive) to serve a data center campus in Loudoun County with a total load in excess of 100 MW. Requested in-service date is 03/01/2026.

Initial In-Service Load	Projected 2028 Load
Summer: 8.0 MW	Summer: 112.0 MW





LOMAR SANDLOT SUB Foster Drive 230 kV **Delivery - CoM** DOMINION DP FOS TER DRIVE SUB NNON BRANCH COLOR VOLTAGE TRANSMISSION LINE NUMBER 500 K) 230 K AIRPORT DP 115 KV. l thru 199 138 KV. AS NOTED 69 KV. AS NOTED



Need Number: DOM-2023-0008

Process Stage: Need Meeting 03/07/2023

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:

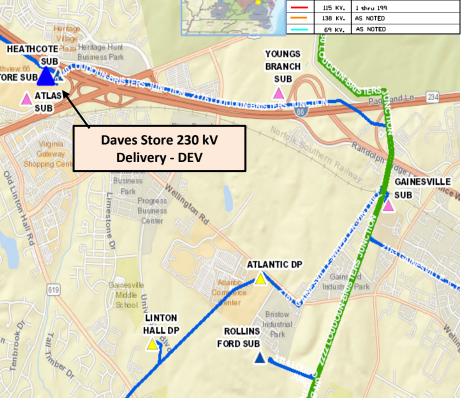
The City of Manassas has submitted a DP Request for a new substation (Foster Drive) to serve a data center complex in Manassas with a total load in excess of 100 MW.

Requested in-service date is 03/31/2025.

Initial In-Service Load	Projected 2028 Load
Summer: 100.0 MW	Summer: 260.0 MW



COLOF VOLTAGE TRANSMISSION LINE NUMBER 500 KV 230 KV. 200 thru 299 & 2000 thru 2 115 KV. thru 199 138 KV. AS NOTED AS NOTED 69 KV HEATHCOTE YOUNGS Business Park SUB BRANCH DAVES STORE SUB SUB STRAM ATLA SUB Daves Store 230 kV **Delivery - DEV** GAINESVILLE Business Progress ATLANTIC DP LINTON HALL DP ROLLINS FORD SUB



Need Number: DOM-2023-0009

Process Stage: Need Meeting 03/07/2023

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 (Daves Store) to serve a data center complex in Gainesville with a total load in excess of 100 MW.

Requested in-service date is 06/01/2025.

Initial In-Service Load	Projected 2028 Load
Summer: 90.0 MW	Summer: 248.0 MW



COLOR VOLTAG TRANSMISSION LINE NUMBER 500 K) 500 thru 599 230 KV 200 thru 299 & 2000 thru 20 115 KV 1 thru 199 138 KV AS NOTED 69 KV. AS NOTED HEATHCOTE Plaza Heritage Hunt YOUNGS **Business** Park SUB BRANCH DAVES STORE SUB SUB SUB Piney Branc Gemini 230 kV Delivery Industria – DEV GAINESVILLE Busines: Progress Busines ATLANTIC DP LINTON HALL DP ROLLINS FORD SUB



Need Number: DOM-2023-0010

Process Stage: Need Meeting 03/07/2023

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 (Gemini) to serve a data center complex in Gainesville with a total load in excess of 100 MW.

Requested in-service date is 08/01/2026.

Initial In-Service Load	Projected 2028 Load
Summer: 30.0 MW	Summer: 223.0 MW

COLOF VOLTAGE TRANSMISSION LINE NUMBE 500 KV 230 KV. 200 thru 299 & 2000 thru 2 115 KV. thru 199 138 KV. AS NOTED AS NOTED CO KV HEATHCOTE YOUNGS Business Park SUB BRANCH DAVES STORE SUB SUB STERSON SUB Piney Brand Industria Atlas 230 kV Delivery -GAINESVILLE DEV ATLANTIC DP LINTON HALL DP ROLLINS FORD SUB



Process Stage: Need Meeting 03/07/2023

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:

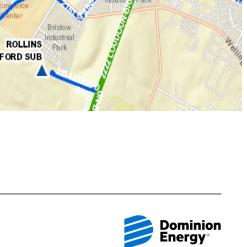
DEV Distribution has submitted a DP Request for a new substation (Atlas) to serve a data center complex in Gainesville with a total load in excess of 100 MW.

Requested in-service date is 04/01/2028.

Initial In-Service Load	Projected 2028 Load
Summer: 70.0 MW	Summer: 70.0 MW



COLOR VOLTAGE TRANSMISSION LINE NUMBER 500 KV 500 thru 599 200 thru 299 & 2000 thru 20 230 KV. 115 KV. 1 thru 199 138 KV. AS NOTED 69 KV. AS NOTED HEATHCOTE Maza Heritage Huni YOUNGS **Business** Park SUB BRANCH DAVES STORE SUB SUB STREET ATLAS SUB Piney Brand Industria Stoned rea GAINESVILLE Trident 230 kV Delivery - NOVEC ATLANTIC DP 20 Gainesvill LINTON HALL DP ROLLINS FORD SUB



Need Number: DOM-2023-0012

Process Stage: Need Meeting 03/07/2023

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:

NOVEC has submitted a DP Request for a new substation (Trident) to serve a data center complex in Bristow with a total load in excess of 100 MW.

Requested in-service date is 04/01/2026.

Initial In-Service Load	Projected 2028 Load
Summer: 85.0 MW	Summer: 178.0 MW



Stoned rea GAINESVILLE **Busines** Progress Business ATLANTIC DP LINTON ROLLINS HALL D FORD SUB Devlin 230 kV Delivery -NOVEC Stream O 619 Bristow Run COLOF VOL TAG TRANSMISSION | THE NUMBER entar 500 KN 500 thru 599 200 thru 299 & 2000 thru 209 230 K 115 KV +bru 199 AS NOTED 138 KV. AS NOTED CO VV



Need Number: DOM-2023-0013

Process Stage: Need Meeting 03/07/2023

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:

NOVEC has submitted a DP Request for a new substation (Devlin) to serve a data center complex in Bristow with a total load in excess of 100 MW.

Requested in-service date is 05/01/2025.

Initial In-Service Load	Projected 2028 Load
Summer: 60.0 MW	Summer: 147.0 MW

COLOF VOLTAGE TRANSMISSION LINE NUMBER 500 KV 500 thru 599 200 thru 299 & 2000 thru 20 230 KV. 115 KV. 1 thru 199 138 KV. AS NOTED AS NOTED HEATHCOTE YOUNGS Business Park SUB BRANCH DAVES STORE SUB SUB SHARSON ATLAS SUB Piney Branch Youngs Branch – Add 3rd, 4th. 5th TX GAINESVILLE Progress Business ATLANTIC DP LINTON HALL DP ROLLINS FORD SUB



Process Stage: Need Meeting 03/07/2023

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, 4th, and 5th distribution transformer at Youngs Branch Substation in Gainesville. The new transformers are being driven by significant area load growth.

Requested in-service date is 07/01/2024.

Initial In-Service Load	Projected 2028 Load
Summer: 193.0 MW	Summer: 275.0 MW

Need Number: DOM-2023-0018

Process Stage: Need Meeting 03/07/2023 Project Driver: Customer Service

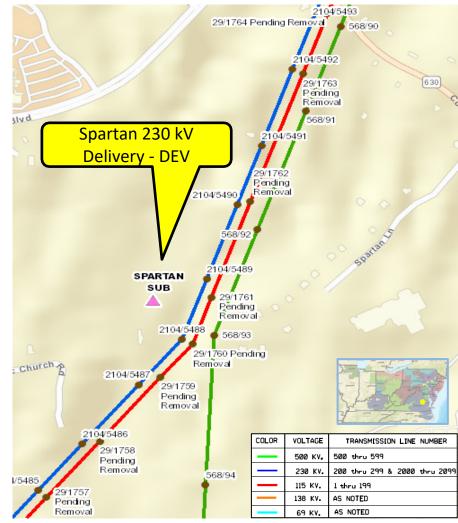
Specific Assumption References:

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 (Spartan) to serve a new data center in Stafford County with a total load in excess of 100 MW. The requested in-service date is 05/02/2025.

Initial In-Service Load	Projected 2028 Load
Summer: 69.0 MW	Summer: 110.0 MW





Need Number: DOM-2023-0016 Process Stage: Need Meeting 03/07/2023 Project Driver: Customer Service

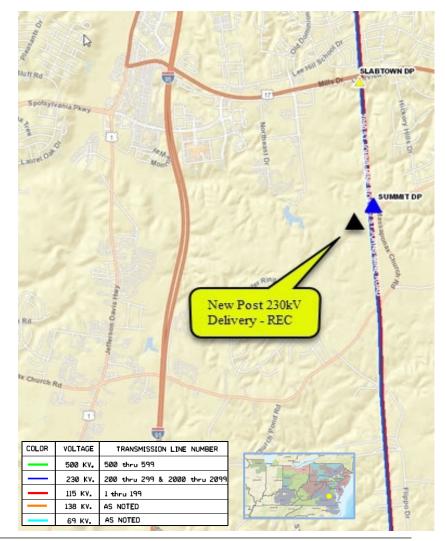
Specific Assumption References:

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

Problem Statement:

Rappahannock Electric Cooperative (REC) has submitted a DP Request for a new substation (New Post) to serve a data center in Spotsylvania County with a total load in excess of 100 MW. The requested in-service date is 05/01/2025.

Initial In-Service Load	Projected 2028 Load
Summer: 33.0 MW	Summer: 248.0 MW





Need Number: DOM-2023-0017 Process Stage: Need Meeting 03/07/2023 Project Driver: Customer Service

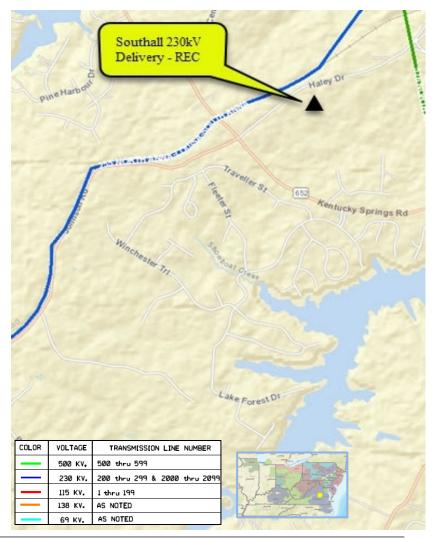
Specific Assumption References:

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

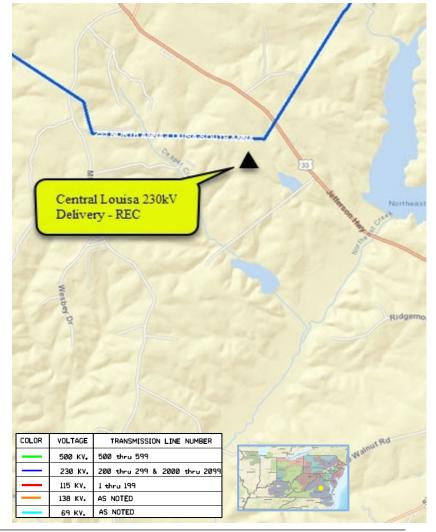
Problem Statement:

Rappahannock Electric Cooperative (REC) has submitted a DP Request for a new substation (Southall) to serve a data center in Louisa County with a total load in excess of 100 MW. The requested in-service date is 05/01/2025.

Initial In-Service Load	Projected 2028 Load
Summer: 11.0 MW	Summer: 220.0 MW









Need Number: DOM-2023-0022 Process Stage: Need Meeting 03/07/2023 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:

Rappahannock Electric Cooperative (REC) has submitted a DP Request for a new substation (Central Louisa) to serve a data center in Louisa County with a total load in excess of 100 MW. The requested in-service date is 05/01/2026.

Initial In-Service Load	Projected 2028 Load
Summer: 11.0 MW	Summer: 138.0 MW

Need Number: DOM-2023-0023 Process Stage: Need Meeting 03/07/2023 Project Driver: Customer Service

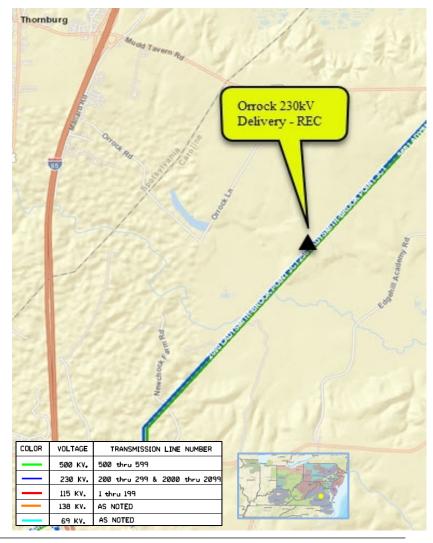
Specific Assumption References:

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

Problem Statement:

Rappahannock Electric Cooperative (REC) has submitted a DP Request for a new substation (Orrock) to serve a data center in Caroline County with a total load in excess of 100 MW. The requested in-service date is 01/01/2026.

Initial In-Service Load	Projected 2028 Load
Summer: 33.0 MW	Summer: 116.0 MW





Need Number: DOM-2023-0024 Process Stage: Need Meeting 03/07/2023 Project Driver: Customer Service

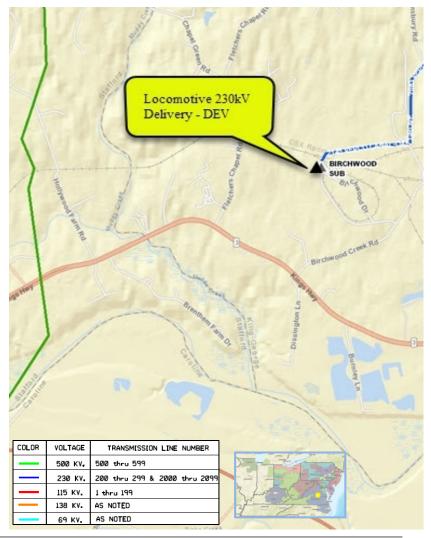
Specific Assumption References:

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 (Locomotive) to serve a data center in King George County with a total load in excess of 100 MW. The requested in-service date is 05/01/2025.

Initial In-Service Load	Projected 2028 Load
Summer: 6.0 MW	Summer: 84.0 MW





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	Activity	Timing
Supplemental	Do No Harm (DNH) analysis for selected solution	Prior to posting selected solution
Projects & Local Plan	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

02/24/2023 – V1 – Original version posted to pjm.com

