

Dominion 2026 Submission of Supplemental Projects for Inclusion in the Local Plan

Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2023-0056

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented:

Need Meeting 12/05/2023

Solutions Meeting 10/08/2025

Project Driver: Customer Service

Specific Assumption References:

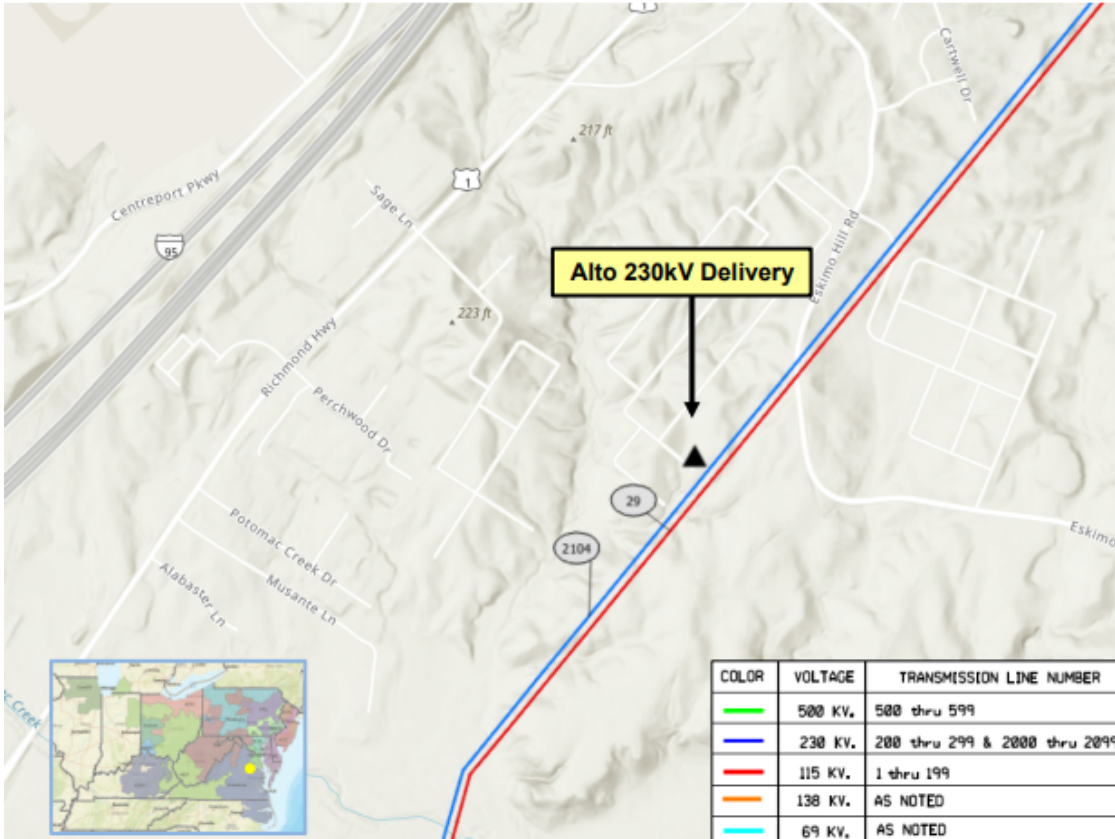
Customer load request will be evaluated per Dominion’s Facility Interconnection Requirements Document and Dominion’s Transmission Planning Criteria.

Problem Statement:

DEV has submitted a DP request for a new 230 kV delivery point (Alto Sub) to serve a data center customer in Stafford County, VA with a total load in excess of 100 MW.

Requested in-service date is 07/02/2027.

Initial In-Service Load	Projected 2029 Load
Summer: 26.0 MW Winter: 14.0 MW	Summer: 213.7 MW Winter: 165.7 MW



Dominion Transmission Zone: Supplemental Alto 230kV Delivery - DEV

Need Number: DOM-2023-0056

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

- Cut and extend Line #2104 (Spartan – Centreport) and Line #2305 (Aquia Harbor – Allman) approx. 0.3 miles to interconnect the proposed Alto Substation.
- Lines to terminate into a 230 kV six-breaker ring arrangement.

Estimated Project Cost: \$16.5M (Total)

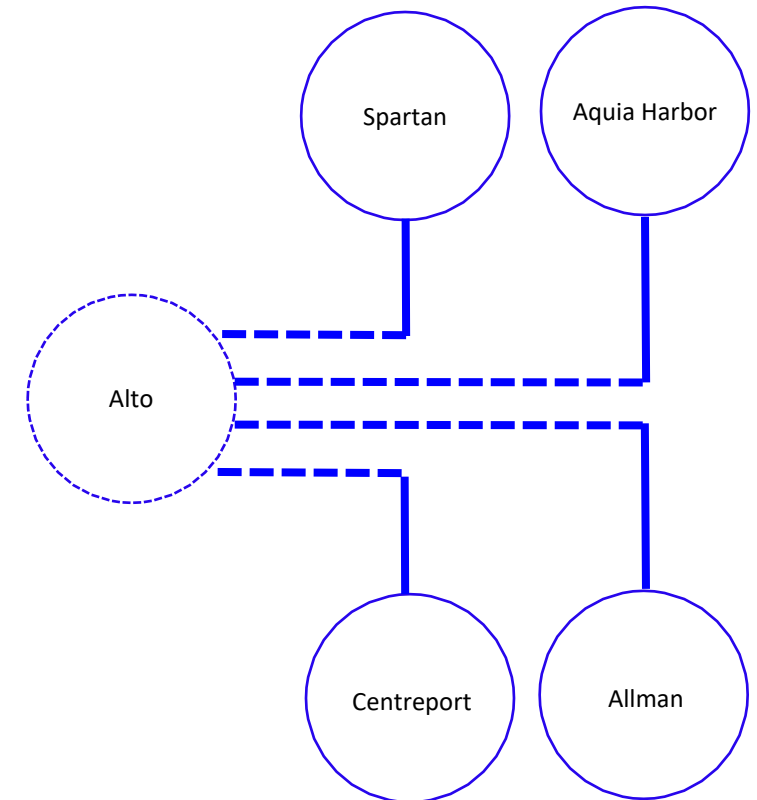
- Substation: \$15.0M
- Transmission Line: \$1.5M

Supplemental Project ID: s3813

Projected In-service Date: 07/02/2027

Project Status: Engineering

Model: 2029 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2024-0008

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented:

Need Meeting 02/06/2024

Solutions Meeting 10/08/2025

Project Driver: Customer Service

Specific Assumption References:

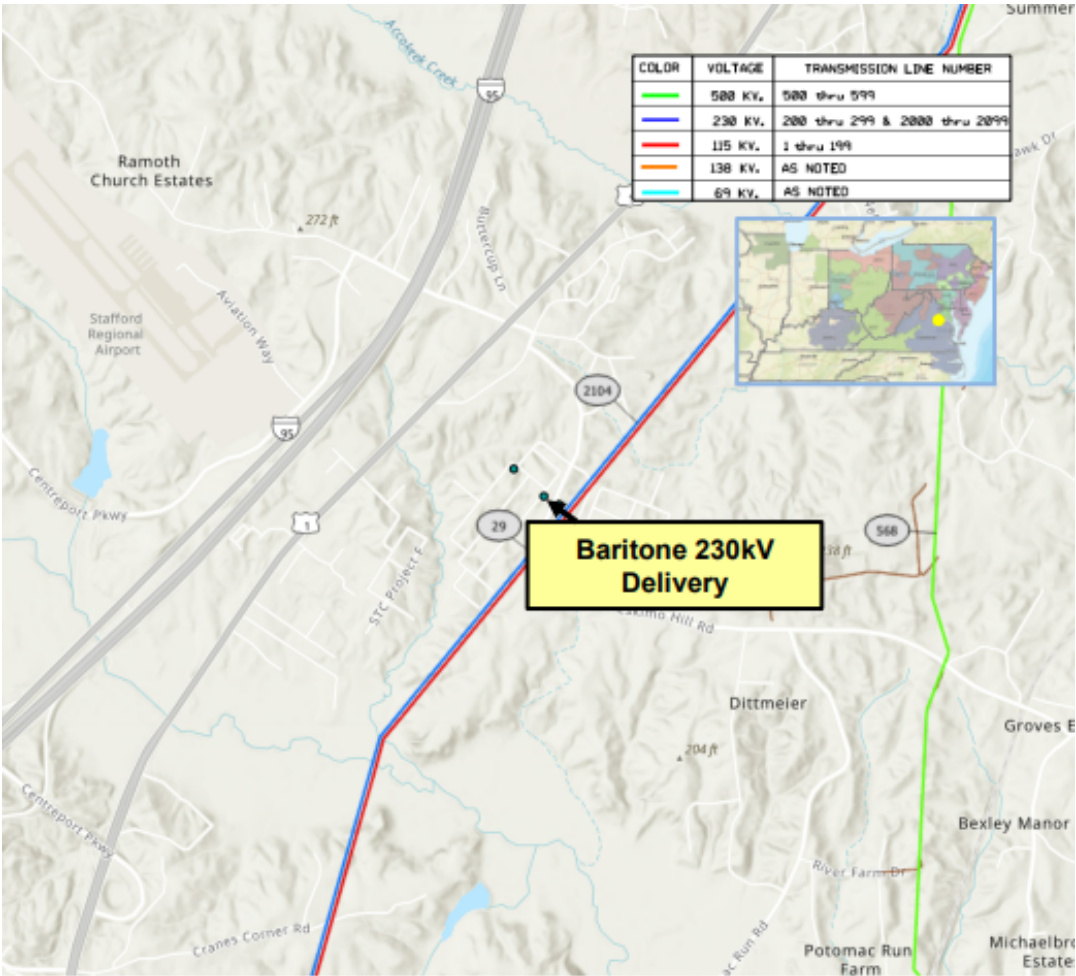
Customer load request will be evaluated per Dominion’s Facility Interconnection Requirements Document and Dominion’s Transmission Planning Criteria.

Problem Statement:

DEV has submitted a DP request for a new 230 kV delivery point (Baritone) to serve a data center customer in Stafford County, VA with a total load in excess of 100 MW.

Requested in-service date is 12/30/2029.

Initial In-Service Load	Projected 2029 Load
Summer: 0 MW Winter: 32 MW	Summer: 0 MW Winter: 32 MW



Dominion Transmission Zone: Supplemental Baritone 230kV Delivery - DEV

Need Number: DOM-2024-0008

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

- Cut and extend Line #2104 (Alto – Centreport) and #9575 (Alto – Allman) to interconnect the proposed Baritone Substation.
- Lines to terminate into a 230 kV six-breaker ring arrangement.

Estimated Project Cost: \$15.5M (Total)

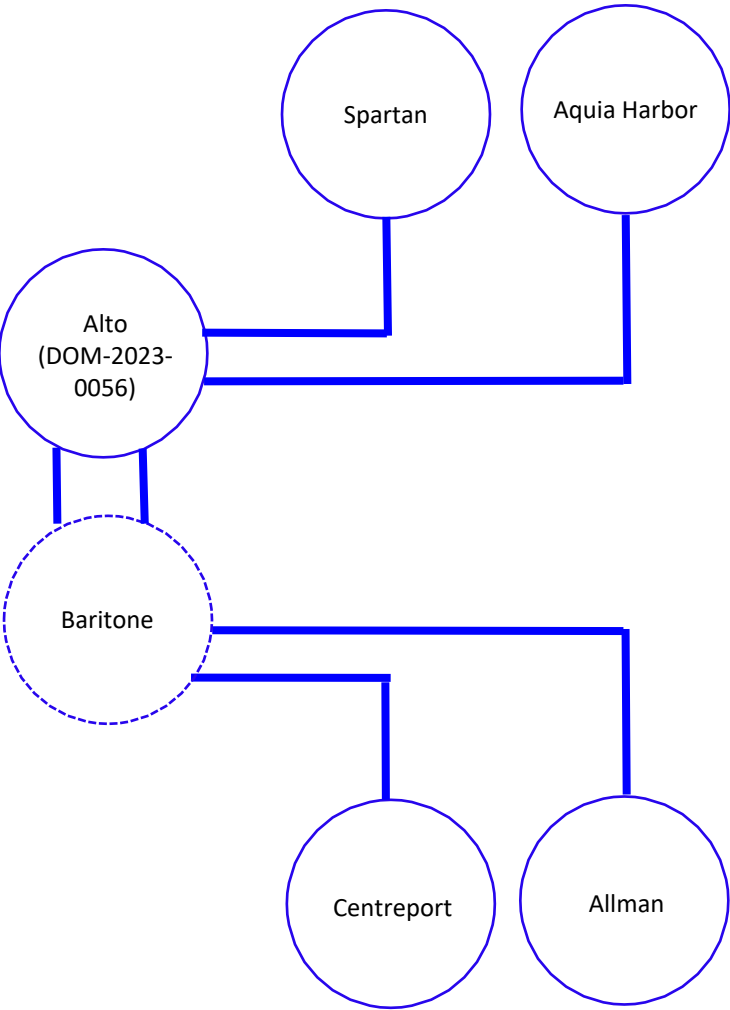
- Substation: \$15.0M
- Transmission Line: \$0.5M

Supplemental Project ID: s3810

Projected In-service Date: 12/30/2029

Project Status: Engineering

Model: 2029 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0011
Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan
Previously Presented:
Need Meeting 11/04/2025
Solution Meeting 12/08/2025

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 (Hibie St) to serve customer load in Norfolk, VA south of the Elizabeth River. Two distribution circuits from Reeves Ave cross underneath the Elizabeth River. DEV Distribution reports that one circuit has reached end of life with significant loss of ampacity and replacing it would involve high costs and pose considerable environmental risks. These two distribution circuits will be retired and existing customer load picked up by the new substation.

The requested in-service date is 12/31/2027.

Initial In-Service Load (TX#1)	10-year Projected Load
Summer: 23.0 MW Winter: 26.9 MW	Summer: 25.5 MW Winter: 29.8 MW



Dominion Transmission Zone: Supplemental Hibie St - New 230 kV Delivery - DEV

Need Number: DOM-2025-0011

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented:

Need Meeting 11/04/2025

Solution Meeting 12/08/2025

Project Driver: Customer Service

Selected Solution:

- Construct new 230 kV substation Hibie St with an installed 84 MVA 230/24.5 kV TX and standard high-side protection (MOAB, circuit switcher, wave trap)
- Tap Line #279 Reeves Ave <> Thrasher between structures 279/86 and 279/87 to extend a single circuit 230 kV source to the site.

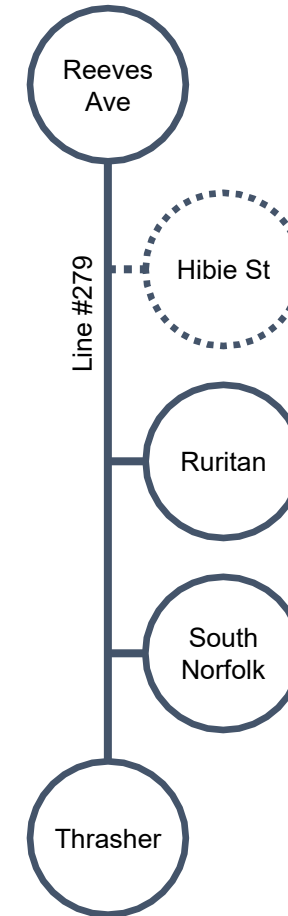
Estimated Project Cost: \$3.56M (Substation only)

Supplemental Project ID: s3834

Projected In-Service Date: 12/31/2027

Project Status: Engineering

Model: 2030 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0034
Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously presented:
Need Meeting 09/18/2025
Solution Meeting 10/16/2025

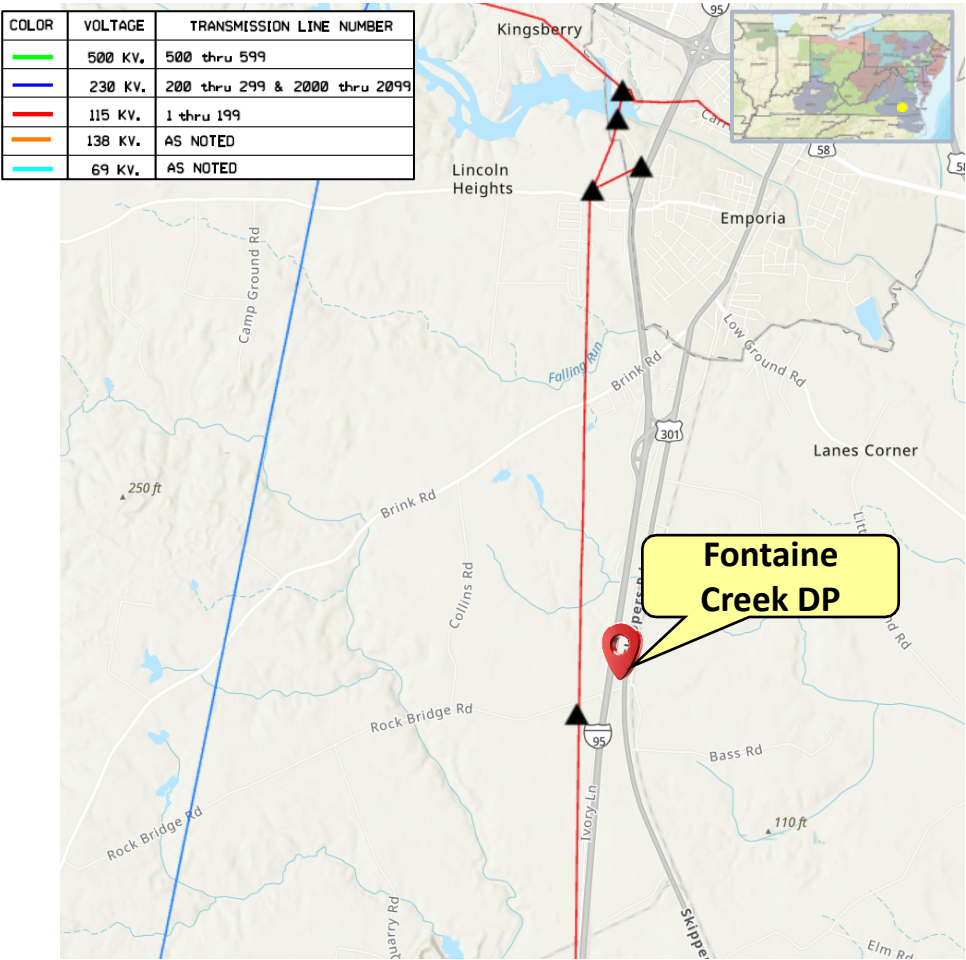
Project Driver: Customer Service

Specific Assumption References:
Customer load request will be evaluated per Dominion’s Facility Interconnection Requirements Document and Dominion’s Transmission Planning Criteria.

Problem Statement:

ODEC has submitted a delivery point request on behalf of Mecklenburg Electric Cooperative (MEC) for a new delivery point Fontaine Creek to serve a motor load customer in Skippers, VA. The site is located in Greensville County at the intersection of Rockbridge Road and Hwy 301 South. The driver for the new delivery is a pipeline station with a 6.5 MVA electric motor. Requested in-service date is 10/01/2025.

Initial In-Service Load	Projected 2030 Load
Summer: 0 MW Winter: 6.5 MW	Summer: 6.5 MW Winter: 6.5 MW



Dominion Transmission Zone: Supplemental Fontaine Creek 115kV Delivery - MEC

Need Number: DOM-2025-0034

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Tap Line #1037 (Skippers – Ivory Lane) near Ivory Lane Sub and structure 1037/67 and extend a 115kV line to Fontaine Creek DP using 1-636 ACSR (24/7) “ROOK” conductor. The distance from Line #1037 to the proposed delivery point is approximately 0.34 miles.

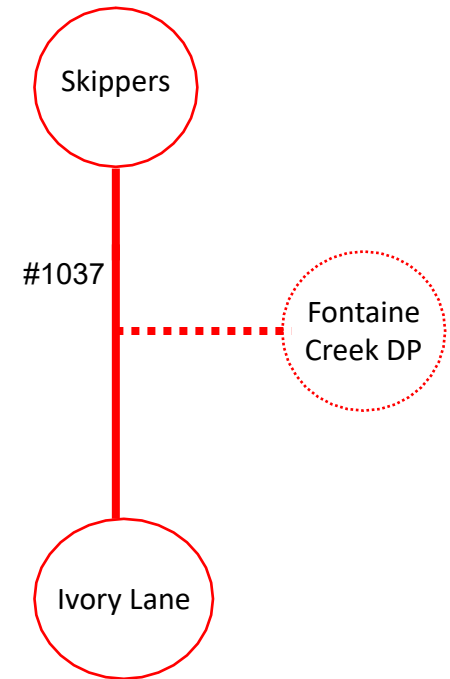
Estimated Project Cost: \$4M (Transmission only)

Supplemental Project ID: s3814

Projected In-service Date: Q1 2026

Project Status: Construction

Model: 2029 RTEP



Need Number: DOM-2025-0058

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented:

Need Meeting 06/04/2024
Solution Meeting 07/09/2024

Project Driver: Equipment Material Condition, Performance Risk

Specific Assumption References:

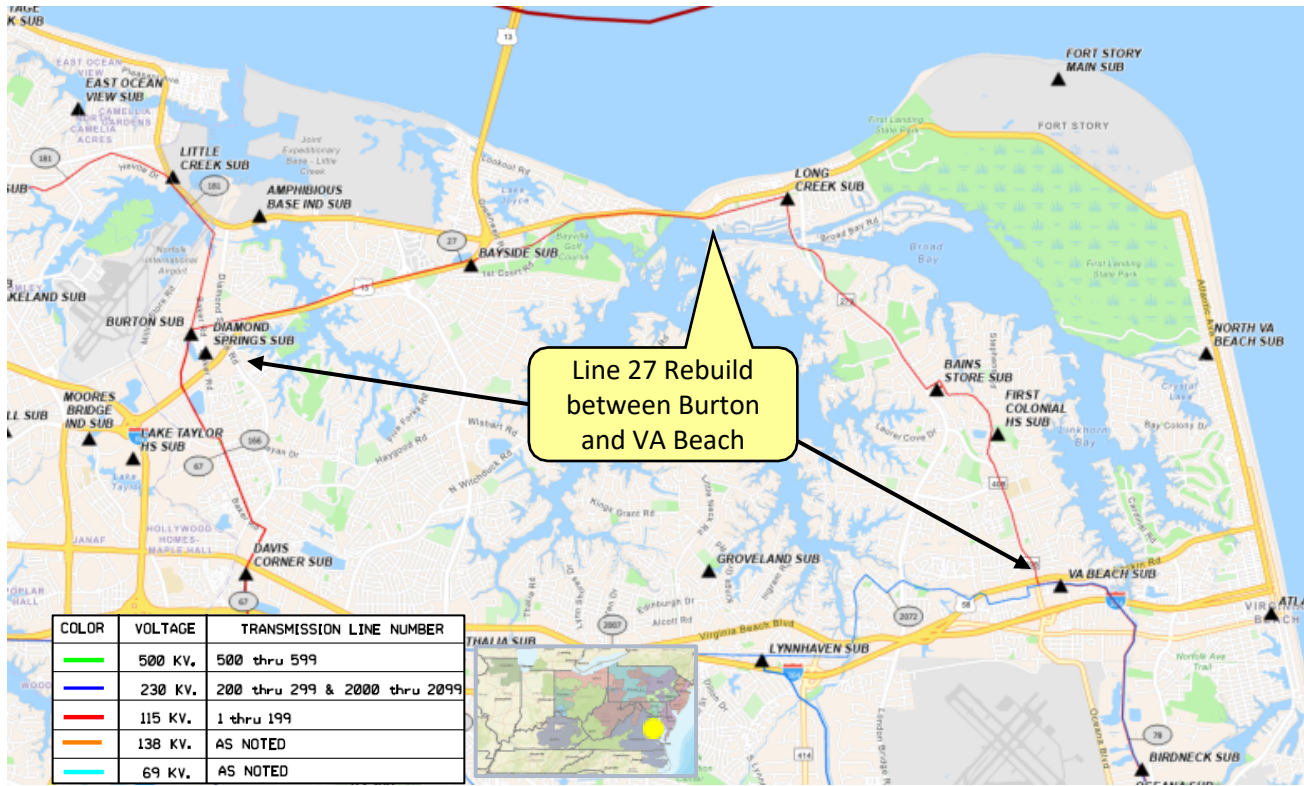
See details on Equipment Material Condition, Performance and Risk in Dominion’s Planning Assumptions presented in December 2023.

Problem Statement:

Dominion Energy has identified a need to replace approximately 12.7 miles of 115kV Line #27 (Burton to VA Beach) to new 115kV standards based on the Company’s End of Life criteria.

- Line #27 was constructed on a combination of wood, concrete and steel structures dating back to 1971, with many in need of replacement due to deterioration.
- Industry guidelines indicate equipment life for steel structures is 40-60 years, wood structures is 35-55 years, conductor and connectors are 40-60 years, and porcelain insulators are 50 years.
- This area is subjected to salt contamination which can accelerate degradation of transmission equipment.

Dominion Transmission Zone: Supplemental Customer Load Request



Dominion Transmission Zone: Supplemental 115kV Line 27 – EOL Rebuild

Need Number: DOM-2025-0058

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution: Rebuild approximately 12.7 miles of Line 27 between Burton and VA Beach to current 115kV standards. The normal rating of the line conductor will be 393 MVA.

Estimated Project Cost: \$64M (Total)

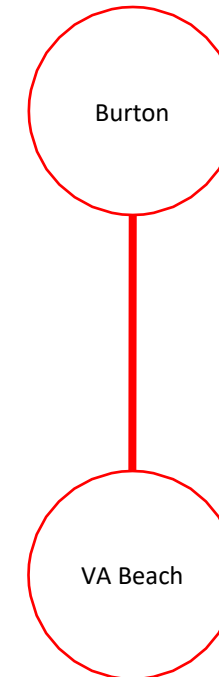
- Substation: \$2.8M
- Transmission Lines: \$61.2

Supplemental Project ID: s3815

Project In-service Date: 04/01/2027

Project Status: Construction

Model: 2029 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0076
Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

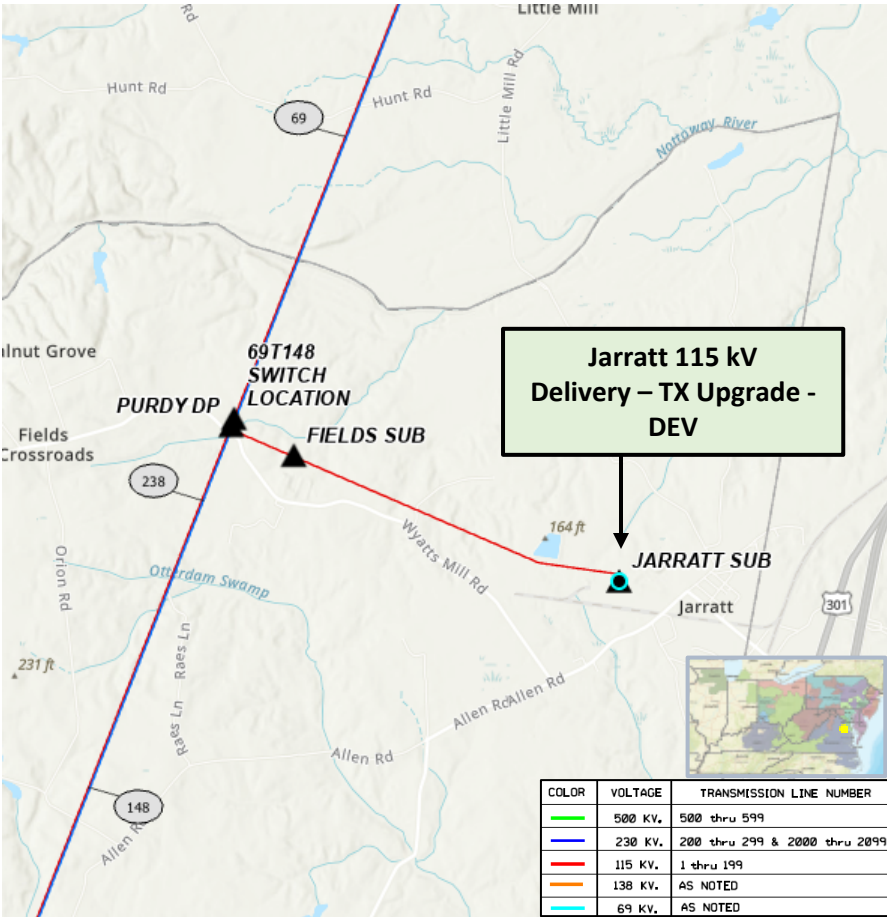
Previously Presented:
Need Meeting 11/13/2025
Solution Meeting 12/11/2025

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 upgrade TX #4 and retire TX #3 at Jarratt Substation in Greensville County, VA. The reason for this request is deployment of GTP Phase III Substation Technology which will enable real-time monitoring and control, as well as advanced protection, automation, and power quality monitoring. The total expected capacity is 33 MW.

Expected in-service date is 6/30/2028



Dominion Transmission Zone: Supplemental Jarratt 115kV Delivery – Upgrade TX#4 and Retire TX#3 - DEV

Need Number: DOM-2025-0076

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Project Driver: Customer Service

Selected Solution:

Install a 1200 Amp, 25 kAIC circuit switcher and associated equipment (center break switch, bus work, relaying, etc) on the high side of the new transformer at Jarratt Substation.

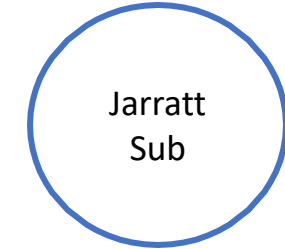
Estimated Project Cost: \$0.4M (Substation only)

Supplemental Project ID: s3833

Expected in-service date: 6/30/2028

Project Status: Engineering

Model: 2029 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0077

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented:

Need Meeting 11/13/2025

Solution Meeting 12/11/2025

Project Driver: Customer Service

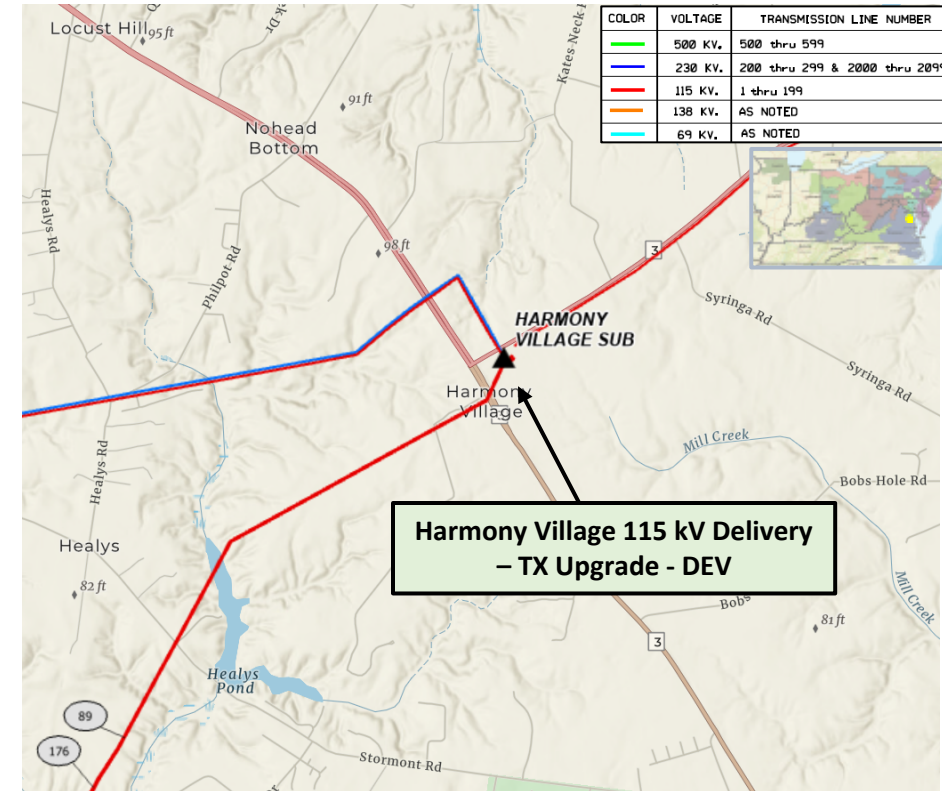
Specific Assumption References:

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 upgrade a distribution transformer (TX#3) at Harmony Village Substation in Middlesex County, VA. The replacement is being driven by non-data center load growth with a total expected capacity of 159 MW.

Expected in-service date is 12/15/2026.



Dominion Transmission Zone: Supplemental Harmony Village 115 kV Delivery – Upgrade TX#3 - DEV

Need Number: DOM-2025-0077

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Project Driver: Customer Service

Selected Solution:

Install a 1200 Amp, 50 kAIC circuit switcher and associated equipment (center break switch, bus work, relaying, etc) on the high side of the new transformer at Harmony Village.

Estimated Project Cost: \$1.21M (Substation only)

Supplemental Project ID: s3816

Expected in-service date: 12/15/2026

Project Status: Engineering

Model: 2029 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2023-0016

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented:

Need Meeting 03/07/2023

Solutions Meeting 04/01/2025

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 230 kV delivery point (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 2030 Load
Summer: 33.0 MW	Summer: 248.0 MW



Dominion Transmission Zone: Supplemental New Post 230kV Delivery - DEV

Need Number: DOM-2023-0016

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

- Construct New Post 230 kV switching station with 4-breaker ring bus configuration.
- Cut Line #2090 (Fredericksburg – Ladysmith CT) and extend double-circuit 230kV lines for approx. 0.3 miles to New Post Switching Station.

Estimated Project Cost: \$27 M (Total)

Substation: \$18M

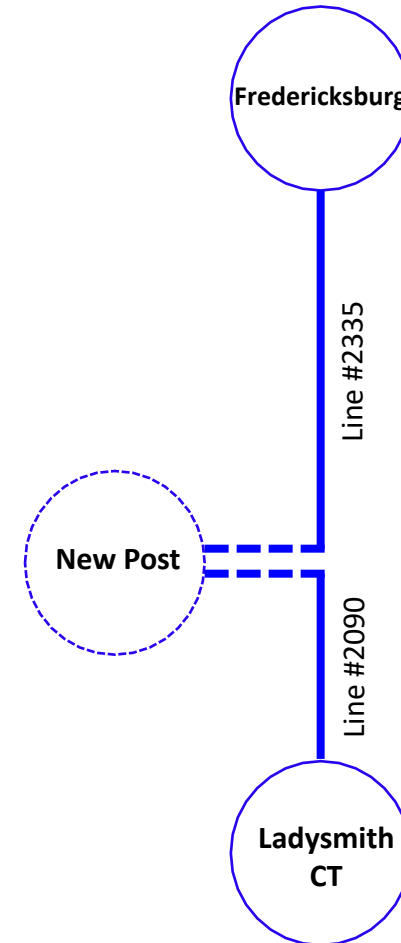
Transmission Line: \$ 9M

Supplemental Project ID: s3731

Projected In-service Date: 05/31/2025

Project Status: Engineering

Model: 2029 RTEP



Need Number: DOM-2023-0053
Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented:
Need Meeting 12/05/2023
Solutions Meeting 04/01/2025

Project Driver: Customer Service

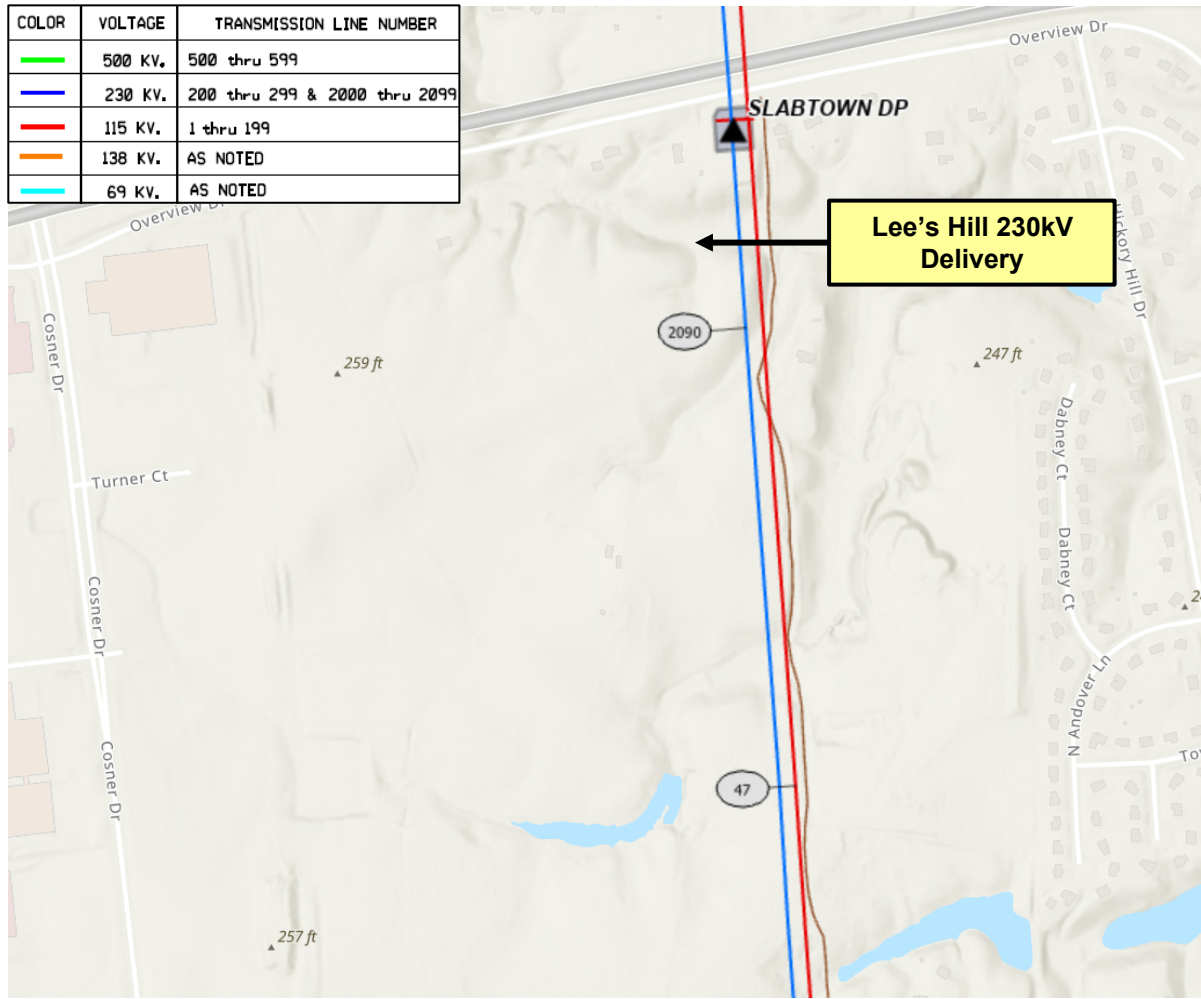
Specific Assumption References:
Customer load request will be evaluated per Dominion’s Facility Interconnection Requirements Document and Dominion’s Transmission Planning Criteria.

Problem Statement:
REC has submitted a DP request for a new 230 kV delivery point (Lee’s Hill Sub) to serve a data center customer in Spotsylvania County with a total load in excess of 100 MW.

Requested in-service date is 12/15/2025.

Initial In-Service Load	Projected 2030 Load
Summer: 0 MW Winter: 55 MW	Summer: 300 MW Winter: 300 MW

Dominion Transmission Zone: Supplemental Customer Load Request



Dominion Transmission Zone: Supplemental Lee's Hill 230kV Delivery - DEV

Need Number: DOM-2023-0053

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

- Construct Lee's Hill 230 kV switching station with 4-breaker ring bus configuration.
- Cut the existing 230kV Line from Fredericksburg to New Post and extend double-circuit 230kV lines for approx. 0.1 miles to Lee's Hill Switching Station.

Estimated Project Cost: \$16.0 M (Total)

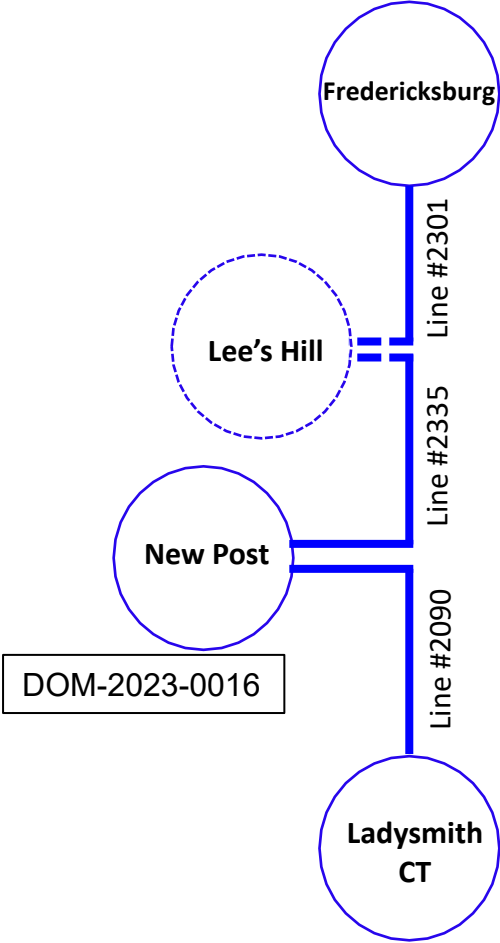
Transmission Line	\$ 6M
230kV Substation	\$10M

Supplemental Project ID: s3732

Projected In-service Date: 12/15/2025

Project Status: Complete

Model: 2029 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2023-0055

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented:

Solution Meeting 4/01/2025

Need Meeting 12/05/2023

Project Driver: Customer Service

Specific Assumption References:

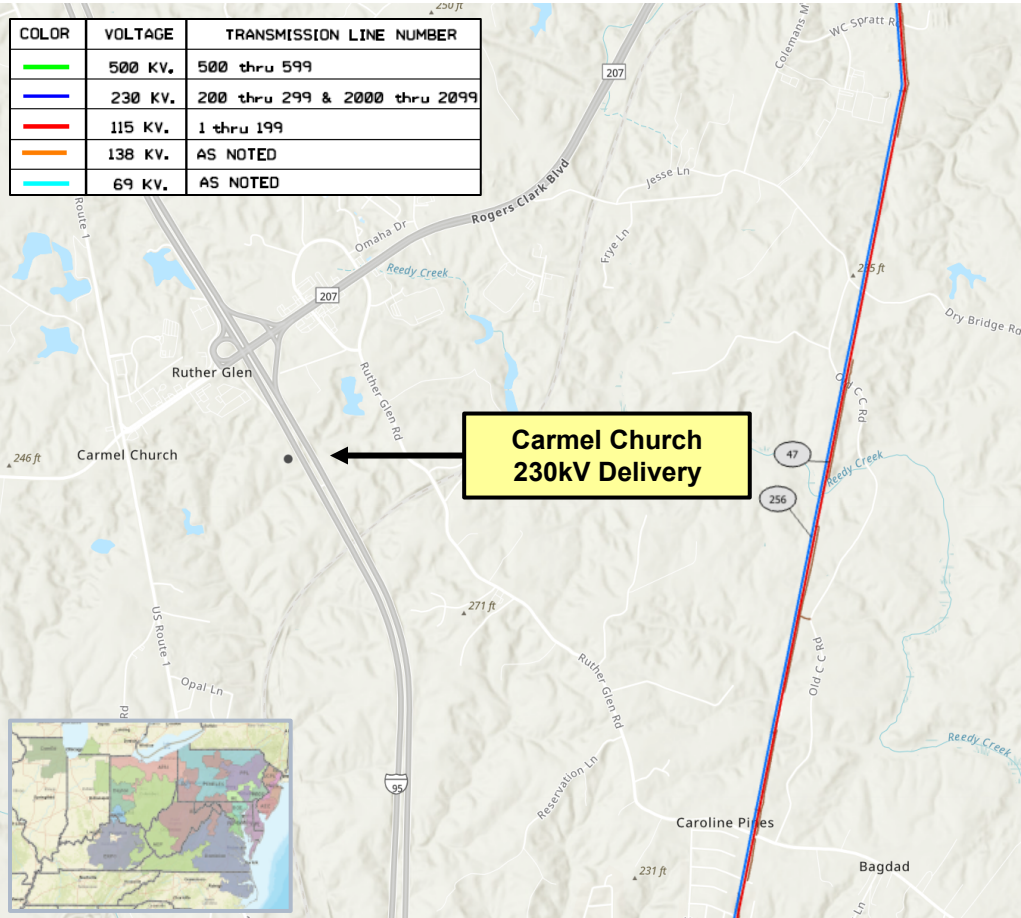
Customer load request will be evaluated per Dominion’s Facility Interconnection Requirements Document and Dominion’s Transmission Planning Criteria.

Problem Statement:

REC has submitted a DP request for a new 230 kV delivery point (Carmel Church Sub) to serve a data center customer in Caroline County with a total load in excess of 100 MW.

Requested in-service date is 7/1/2027.

Initial In-Service Load	Projected 2029 Load
Summer: 18.0 MW Winter: 18.0 MW	Summer: 125.0 MW Winter: 125.0 MW



Dominion Transmission Zone: Supplemental Carmel Church 230kV Delivery - DEV

Need Number: DOM-2023-0055

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

- Construct new Carmel Church 230kV substation with 4 breaker ring bus configuration.
- Cut existing 230kV Line 256 (Ladysmith CT to Four Rivers) and extend double circuit 230kV transmission lines for approximately two miles to proposed Carmel Church substation.

Estimated Project Cost: \$40M (Total)

Substation: \$15M

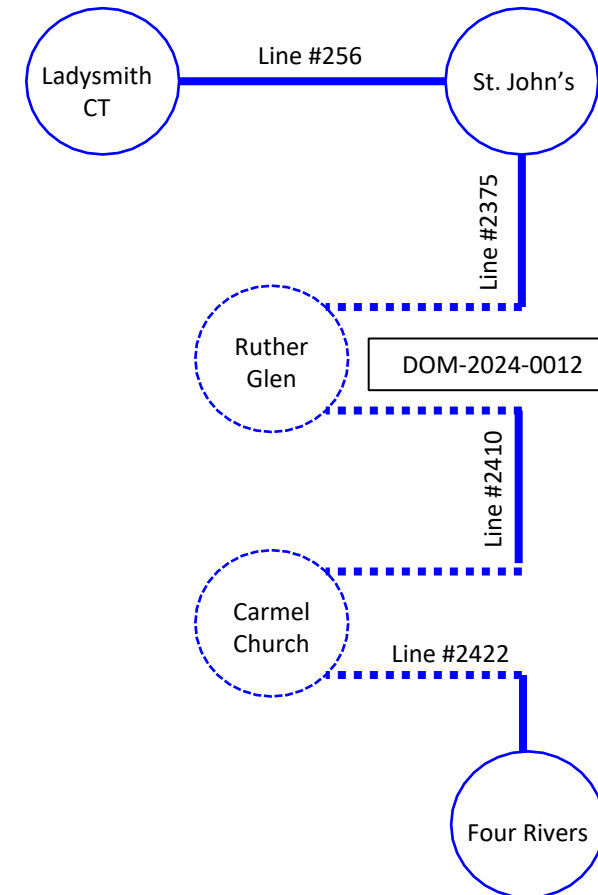
Transmission Lines: \$25M

Supplemental Project ID: s3881

Projected In-service Date: 7/1/2027

Project Status: Engineering

Model: 2029 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2024-0012

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented:

Need Meeting 02/06/2024

Solution Meeting 4/01/2025

Project Driver: Customer Service

Specific Assumption References:

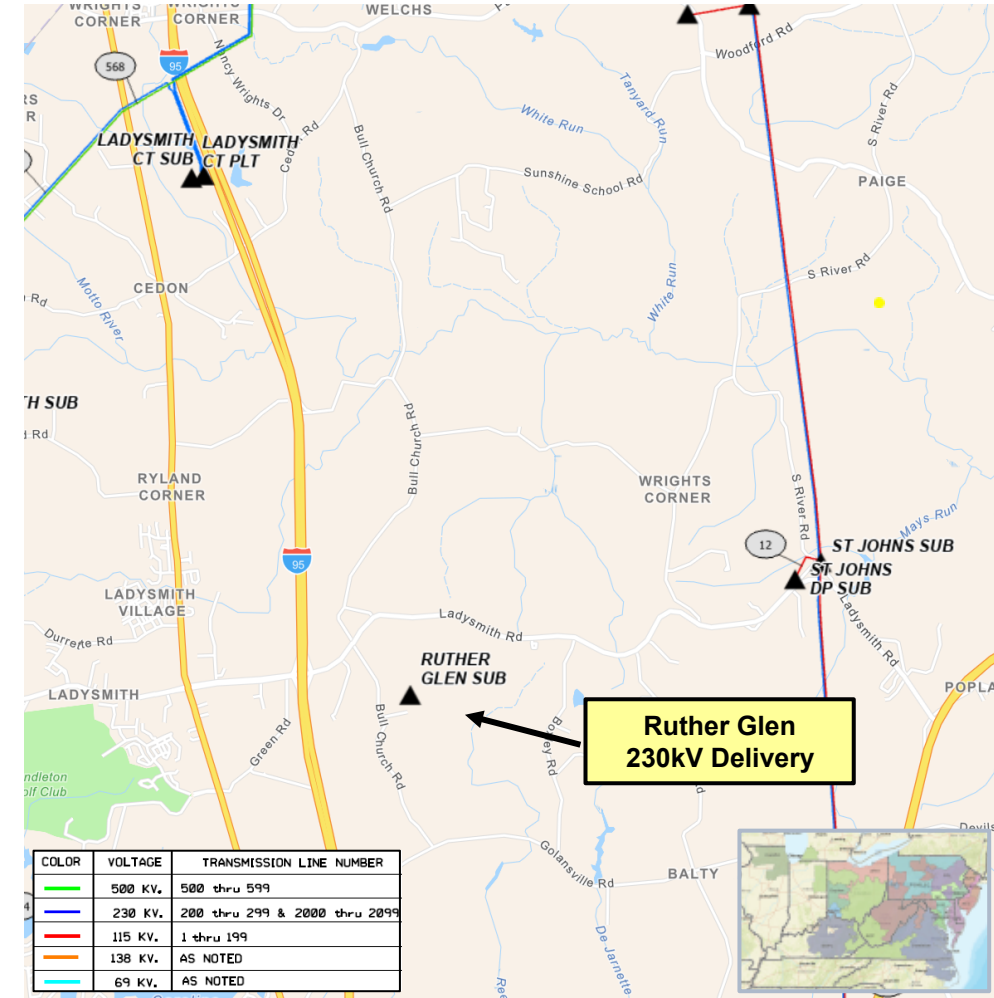
Customer load request will be evaluated per Dominion's Facility Interconnection Requirements Document and Dominion's Transmission Planning Criteria.

Problem Statement:

ODEC has submitted a DP request for a new 230 kV delivery point (Ruther Glen) to serve a data center customer in Caroline County VA with a total load in excess of 100 MW.

Requested in-service date is 7/1/2027.

Initial In-Service Load	Projected 2029 Load
Summer: 170 MW Winter: 170 MW	Summer: 300 MW Winter: 300 MW



Dominion Transmission Zone: Supplemental Ruther Glen 230kV Delivery - DEV

Need Number: DOM-2024-0012

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

- Construct new Ruther Glen 230kV substation with 6 breaker ring bus configuration.
- Cut existing 230kV Line 256 (Ladysmith CT to Four Rivers) and extend double circuit 230kV lines approximately three miles to proposed Ruther Glen substation.

Estimated Project Cost: \$47M (Total)

Substation: \$15M

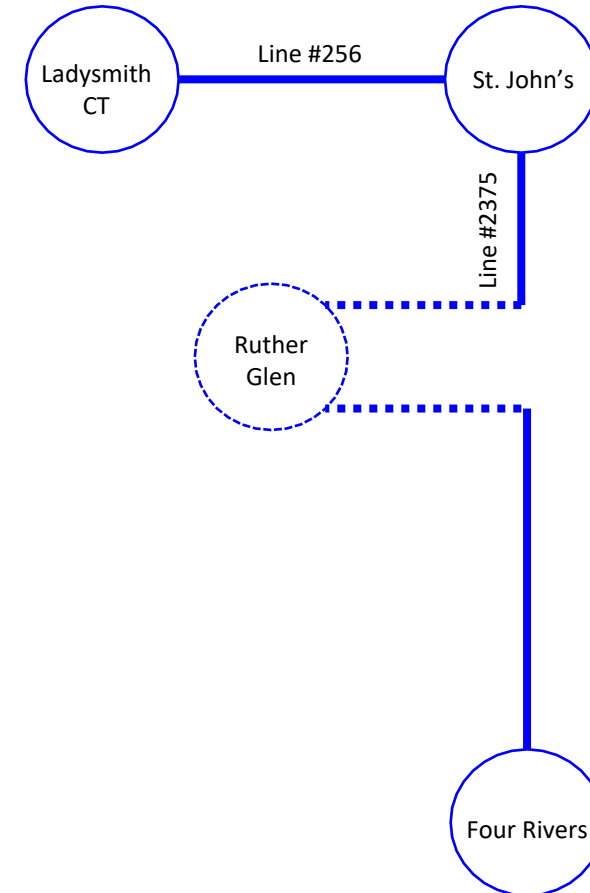
Transmission Lines: \$32M

Supplemental Project ID: s3882

Projected In-service Date: 7/1/2027

Project Status: Engineering

Model: 2029 RTEP



Need Number: DOM-2018-0018 (Update)

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: Solutions Meeting 01/10/2019, Solution Meeting 10/08/2025

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.

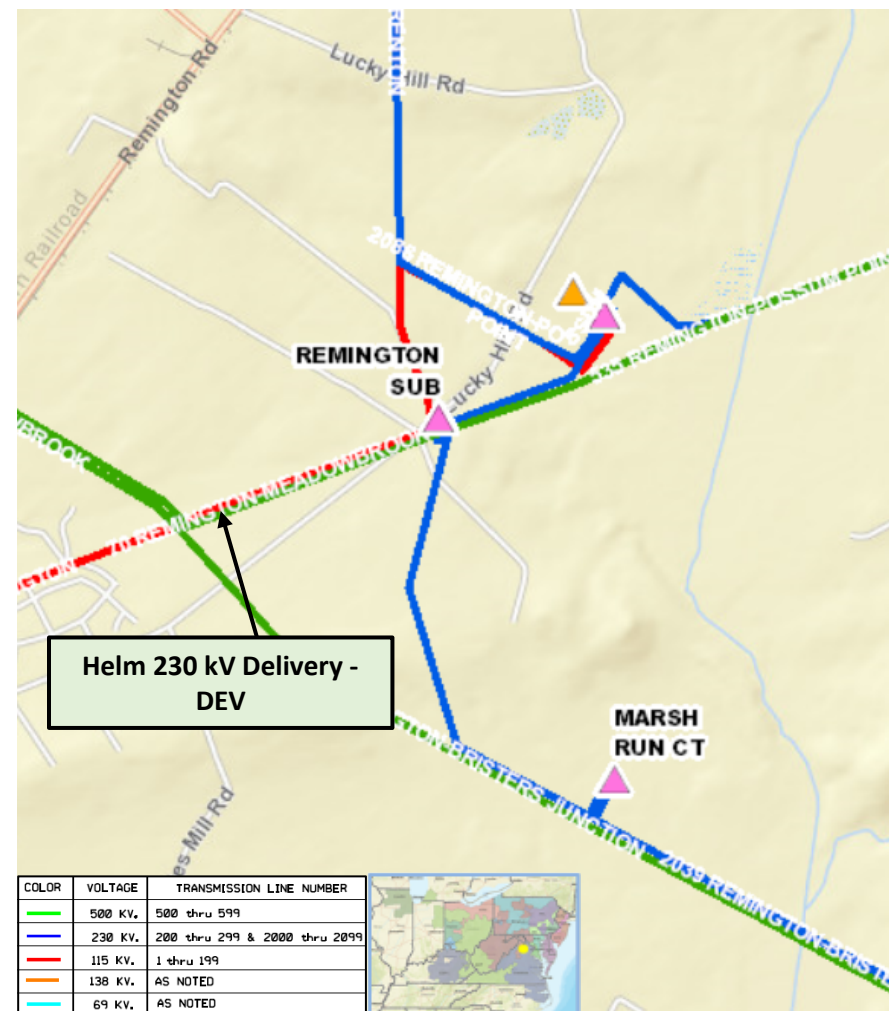
Problem Statement:

DEV Distribution has submitted a request for a new substation (Lucky Hill-Helm) to accommodate a new datacenter campus in Fauquier County with a total load in excess of 100 MW. The original request (Lucky Hill) had been placed on long-term hold prior to the requested in-service date in 2020 and has been replaced by the request for Helm Substation.

Requested in-service date is ~~09/15/2020~~ 06/01/2030.

Initial In-Service Load	Projected 2030 Load
Summer: 0.0 MW Winter: 3.0 MW	Summer: 0.0 MW Winter: 3.0 MW

Dominion Transmission Zone: Supplemental Customer Load Request



Dominion Transmission Zone: Supplemental Helm 230kV Delivery – DEV

Need Number: DOM-2018-0018 (Update)

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

- Interconnect the new DP substation by cutting and extending Line ~~#2199 (Remington – Gordonsville)~~ #2276 (Remington – Kyser) to the new ~~Lucky Hill~~ Helm Substation.
- Terminate both ends into a four-breaker ring arrangement to create new 230 kV (~~Gordonsville~~ Kyser – ~~Lucky Hill~~ Helm) and (~~Lucky Hill~~ Helm – Remington) lines.

Estimated Project Cost: \$7.5 14M(Total)

Transmission Line Cost: \$0.5M

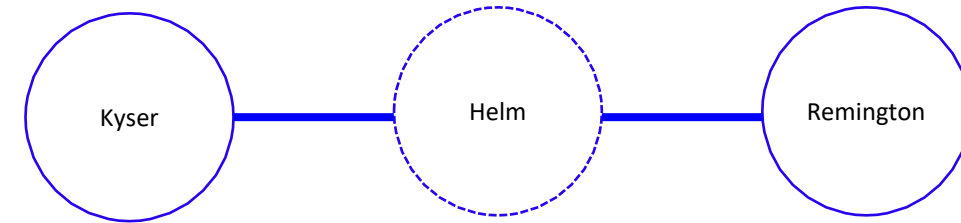
Substation Cost: \$13.5M

Supplemental Project ID: s1841

Projected In-service Date: ~~09/15/2020~~ 06/01/2030

Project Status: Engineering

Model: 2029 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2022-0046 (Update)

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: Solutions Meeting 08/09/2022, Solutions Meeting 10/08/2025

Project Driver: Customer Service

Specific Assumption References:

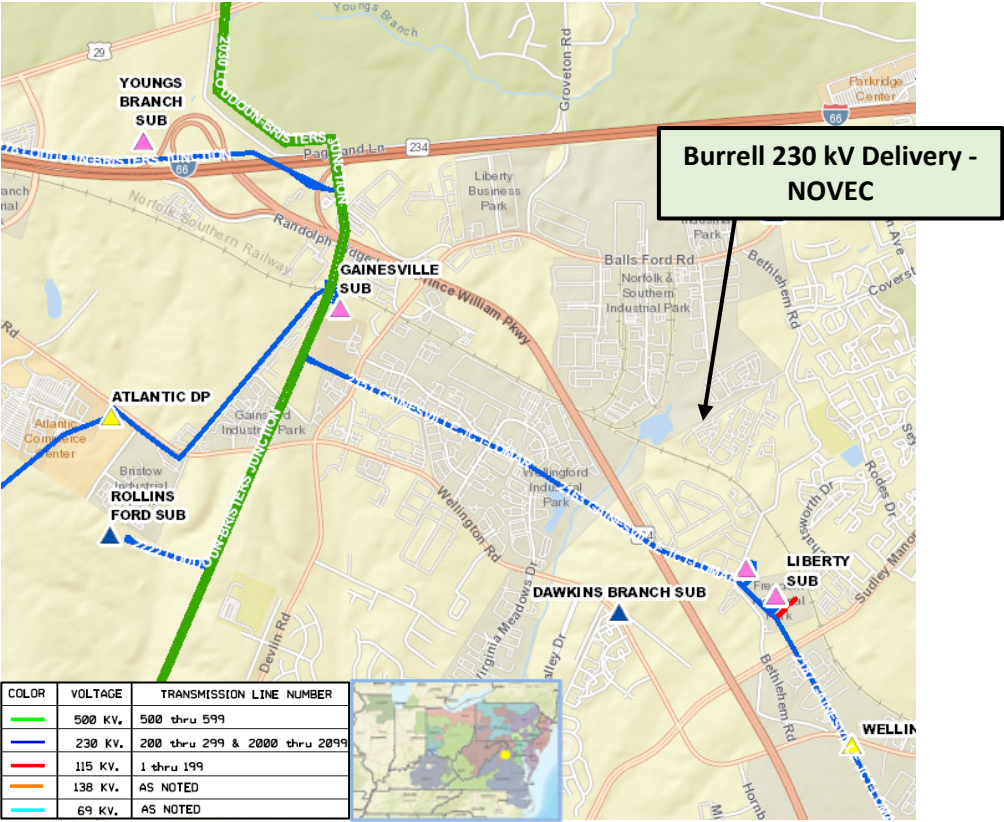
Customer load request will be evaluated per Dominion’s Facility Interconnection Requirements Document and Dominion’s Transmission Planning Criteria.

Problem Statement:

NOVEC has submitted a DP Request for a new substation (~~Mint Springs~~ Burrell) to serve a data center complex in Prince William County with a total load in excess of 100 MW. The original request (Mint Springs) has been cancelled prior to the requested in-service date in 2026 and replaced by the request for Burrell Substation.

Requested in-service date is ~~01/02/2026~~ 12/30/2028.

Initial In-Service Load	Projected 2029 Load
Summer: 1.7 MW	Summer: 20.8 MW
Winter: 1.7 MW	Winter: 20.8 MW



Dominion Transmission Zone: Supplemental Burrell 230kV Delivery - NOVEC

Need Number: DOM-2022-0046 (Update)

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Interconnect the new substation by cutting and extending ~~Line #2030 (Loudoun - Gainesville)~~ Line #2151 (Railroad - Gainesville) to the proposed ~~Mint Springs~~ Burrell Substation. Lines to terminate into a 230 kV four-breaker ring arrangement.

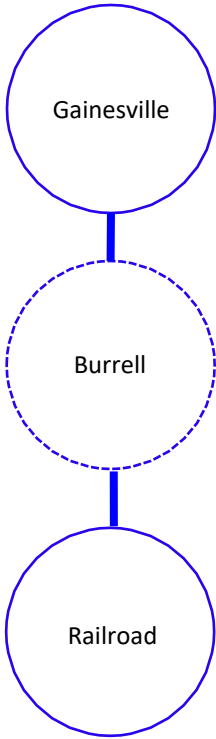
Estimated Project Cost: \$16.0M

Supplemental Project ID: s3036

Projected In-service Date: ~~01/02/2026~~ 12/30/2028

Project Status: Engineering

Model: 2029 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0014

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: Need Meeting 04/10/2025, Solution Meeting 09/18/2025

Project Driver: Customer Service

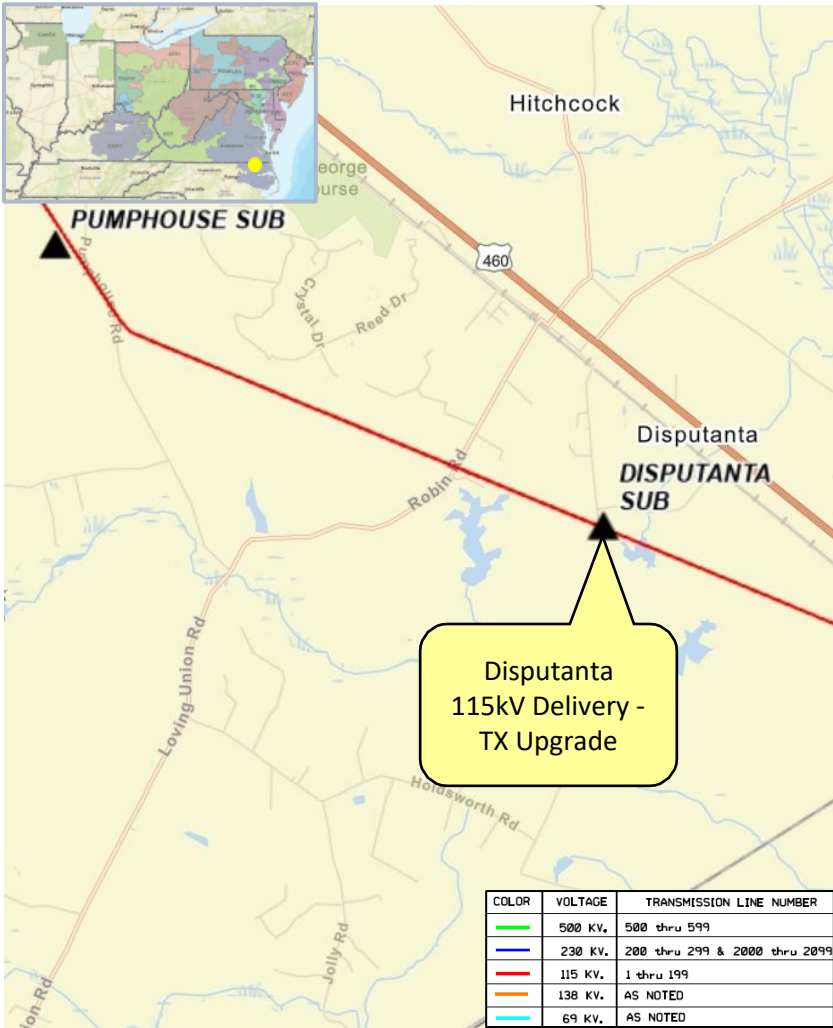
Specific Assumption References:

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 (DP) request to upgrade TX #1 at Disputanta Substation in Prince George County, VA. The reason for the upgrade is GTP Phase III Substation Technology Deployment which will enable real-time monitoring and control, advanced protection, automation, and control, and power quality monitoring. Requested in-service date is 12/31/2026.

Initial In-Service Load	Projected 2029 Load
Summer: 1.1 MW	Summer: 1.2 MW
Winter: 1.3 MW	Winter: 1.4 MW



Dominion Transmission Zone: Supplemental Customer Service

Need Number: DOM-2025-0014

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Replace existing 115-13.2 kV 5 MVA TX #1 with 9.375 MVA at Disputanta Substation.
Transformer must be upgraded to comply with GTP Phase III Substation Technology
Deployment

Estimated Project Cost: \$670k

Supplemental Project ID: s3903

Project In-service Date: 12/31/2026

Project Status: Engineering

Model: 2030 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0090

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: Need Meeting 12/11/2025; Solution Meeting 03/18/2026

Project Driver: Customer Service

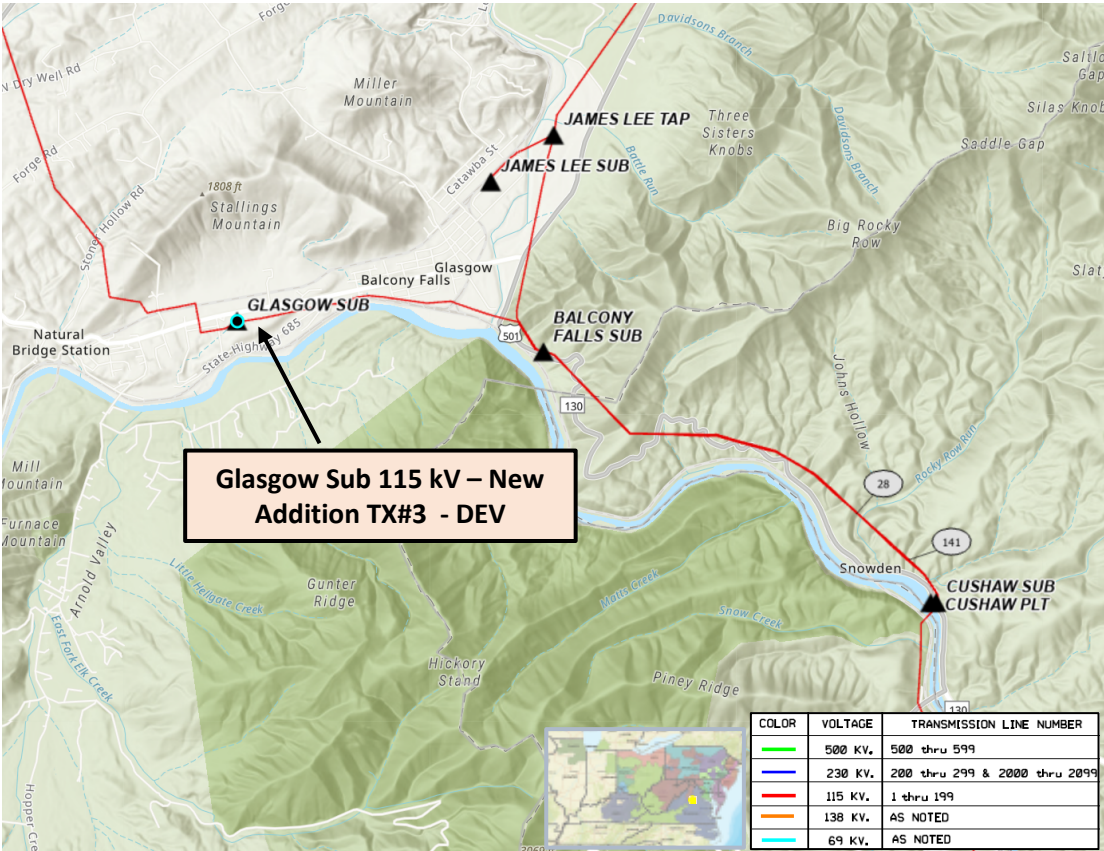
Specific Assumption References:

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 new transformer Tx #3, 22.4 MVA 115kV/13.2 kV at Glasgow substation in Rockbridge County, VA. The driver is a Grid Transformation Project to eliminate a risk of 12.5kV voltage island of distribution circuits from potential loss of Tx #2.

In-service Station Load - 2025	Projected Load- 2034
Summer:16 MW	Summer: 17MW
Winter: 22 MW	Winter: 25MW



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0090

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Install a 1200 Amp, 25 kAIC circuit switcher and associated equipment (center break switch, bus work, relaying, etc) on the 115kV high side of the new transformer at Glasgow Substation.

Estimated Project Cost: \$0.55M

Supplemental Project ID: s3896

Projected in-service date: 05/01/2027

Project Status: Engineering

Model: 2029 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0093

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: Need Meeting 12/11/2025; Solution Meeting 03/18/2026

Project Driver: Customer Service

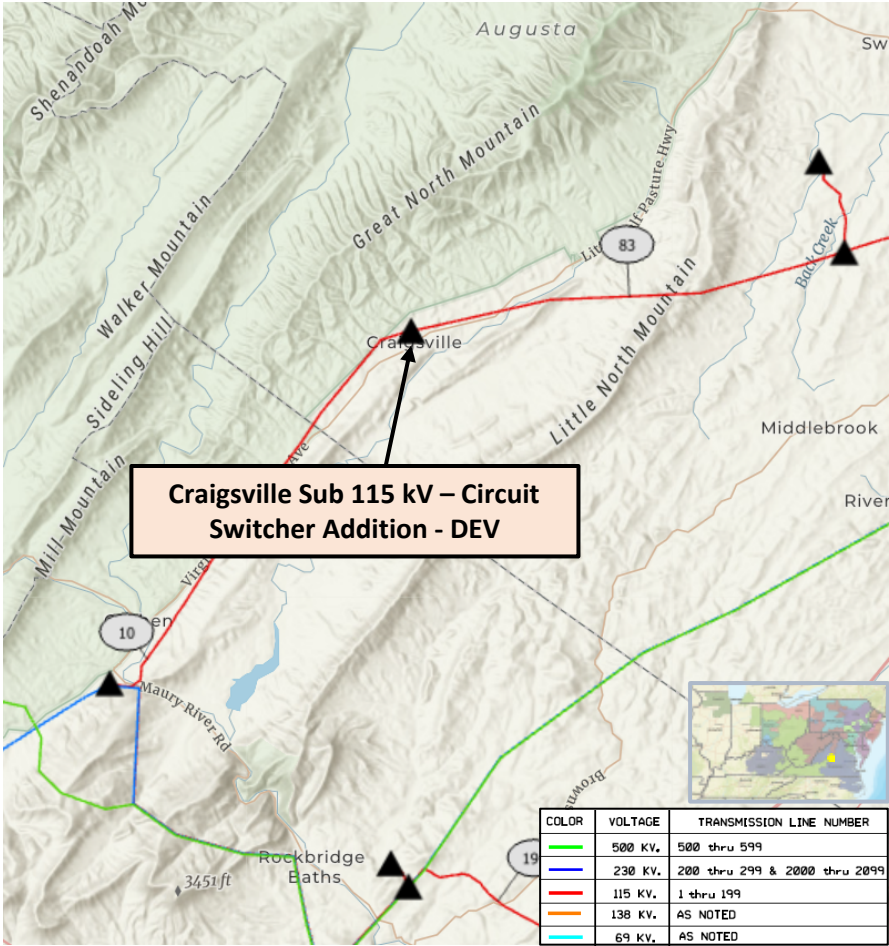
Specific Assumption References:

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 (DP) request to replace the fuse with circuit switcher at Craigsville Substation in Augusta County, VA. The reason for the upgrade is GTP Phase IV Substation Technology Deployment which will enable real-time monitoring and control, advanced protection, automation, control, and power quality monitoring.

Expected in-service date is 12/31/2029.



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0093

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Replace the fuse and the switch on the high side of TX#1, with a 1200 A circuit switcher and 2000 A switch at the Craigsville substation.

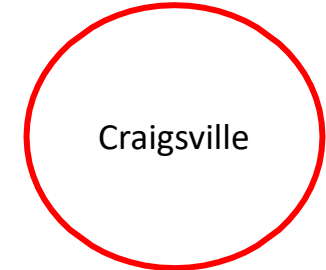
Estimated Project Cost: \$0.84M

Supplemental Project ID: s3897

Projected In-service date: 12/31/2029

Project Status: Conceptual

Model: 2029 RTEP



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

Need Number: DOM-2025-0085

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: Need Meeting 12/11/2025; Solution Meeting 03/18/2026

Project Driver: Equipment Material Condition, Performance Risk

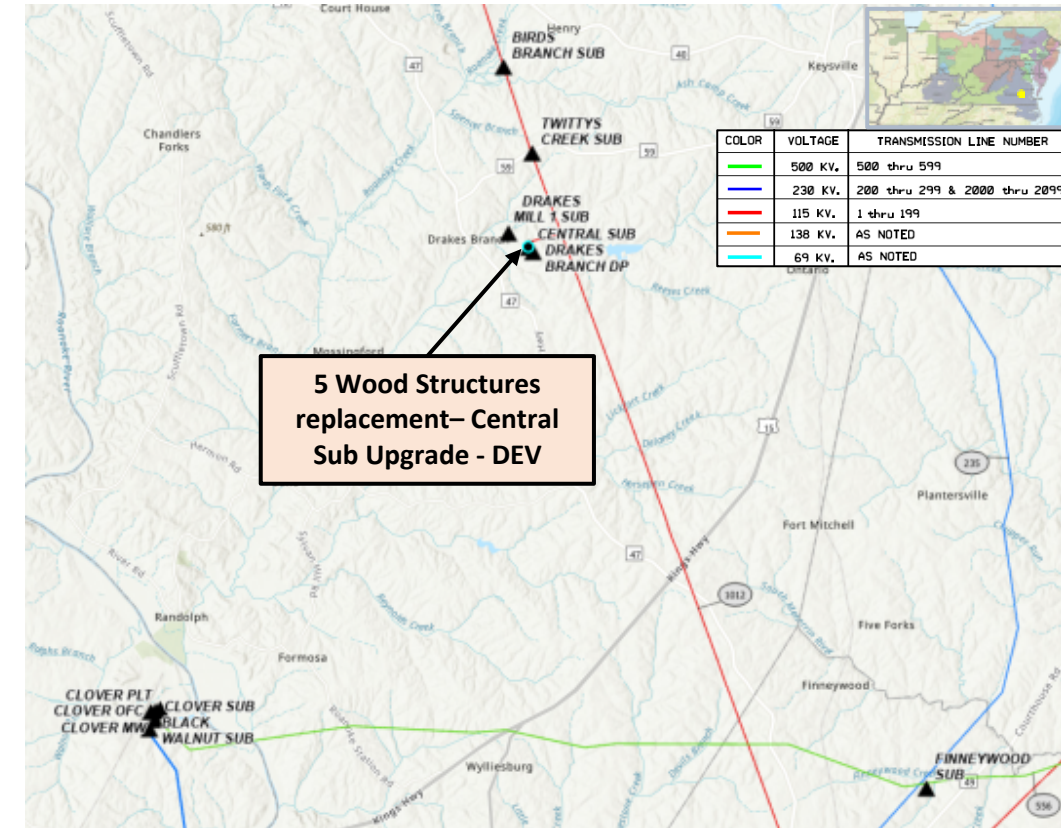
Specific Assumption References:

See details on Equipment Material Condition, Performance and Risk in Dominion's Planning Assumptions presented in December 2025.

Problem Statement:

Dominion Energy has identified a need to replace 5 wood pole switch structures and backbones of 115kV Line #1012 (Central Substation Tap) to new 115kV standard based on the Company's End of Life criteria.

- Wood pole switch structures and backbones 1012/909A, 1012/910A, 1012/910B, 1012/910, 1012/909 were installed in 1949. These poles are experiencing significant structural issues as they age.
- Industry guidelines indicate equipment life for steel structures is 40-60 years, wood structures is 35-55 years, conductor and connectors are 40-60 years, and porcelain insulators are 50 years.



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

Need Number: DOM-2025-0085

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Wreck and rebuild the structures 1012/909A, 1012/910A, 1012/910B, 1012/910 and switch structure 1012/909 to current 115 kV standards and replace the conductor using a minimum summer normal rating of 175.9 MVA. Replace the ground switch with a 2000A switch, and circuit switcher with a 1200A switcher. Substation expansion will be required.

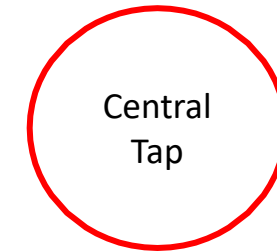
Estimated Project Cost: \$4M (\$1M T-line, \$3M Sub)

Supplemental Project ID: s3895

Expected in-service date: 12/31/2029

Project Status: Engineering

Model: 2029 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0017

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: Need Meeting 11/4/2025; Solution Meeting 1/6/2026

Project Driver: Customer Service

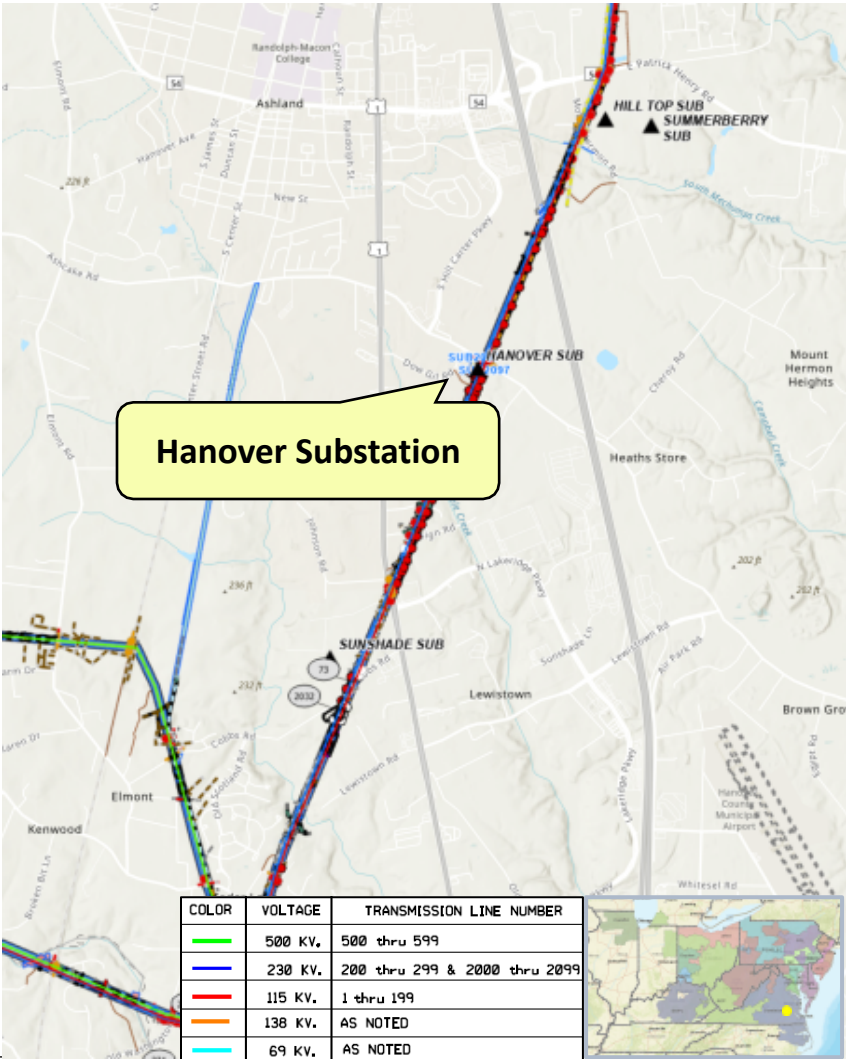
Specific Assumption References:

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

Problem Statement:

Due to load growth in Ashland, VA, the single 230/36.5 kV transformer rated at 50 MVA in Hanover Substation is projected to be overloaded by Summer 2027.

Expected in-service date is 12/31/2026.



Dominion Transmission Zone: Supplemental Hanover 230 kV Delivery – TX Upgrade - DEV

Need Number: DOM-2025-0017

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Install high side equipment to facilitate installation of a new 84 MVA 230-34.5 kV transformer.

Estimated Project Cost: \$1.38M

Supplemental Project ID: s3892

Projected In-Service Date: 12/31/2026

Project Status: Engineering

Model: 2030 RTEP



Dominion Transmission Zone: Supplemental Loading Exceeds Nameplate Rating, Voltage Island

Need Number: DOM-2025-0036

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: Need Meeting 09/18/2025; Solution Meeting 02/12/2026

Project Driver: Loading Exceeds Nameplate Rating, Voltage Island

Specific Assumption References:

See details on Equipment Material Condition, Performance and Risk in Dominion's Planning Assumptions presented in December 2025.

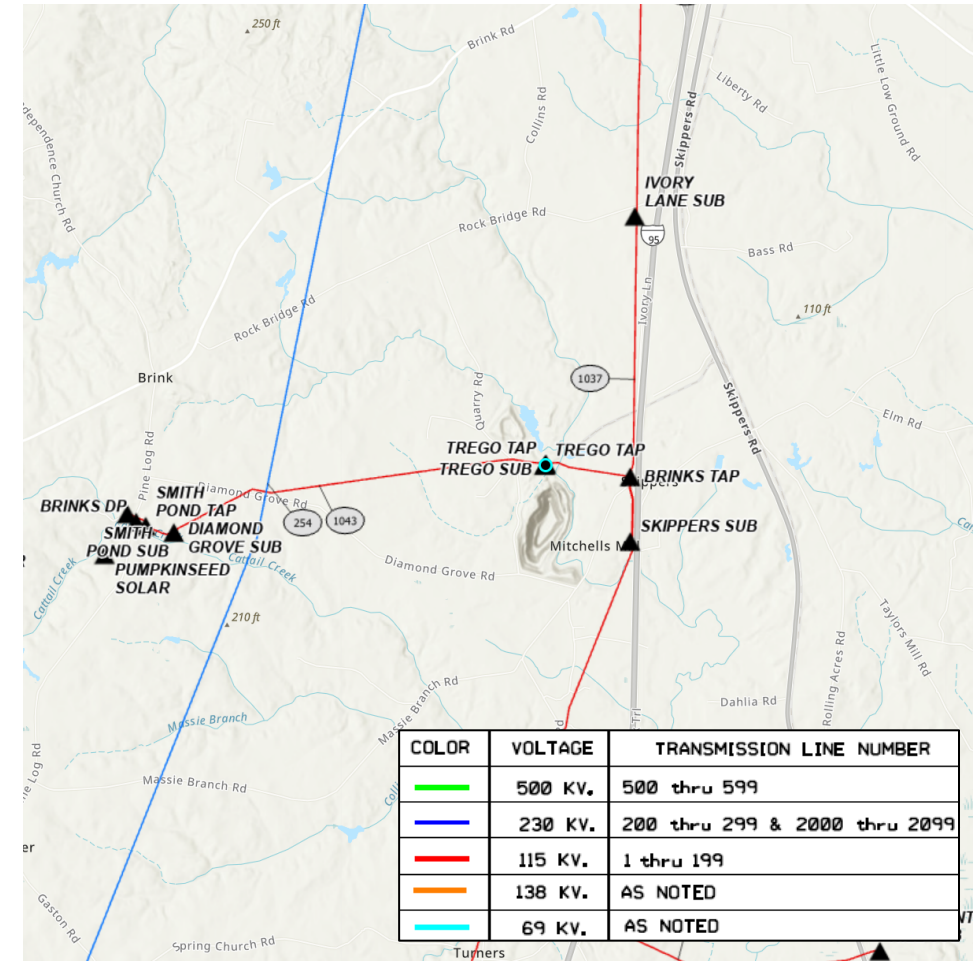
Problem Statement:

Dominion Energy Distribution has submitted a Delivery Point (DP) Request for the installation of one three-phase 9 MVA, 115/12.5kV transformer, and replace the existing transformer with a 9 MVA, 115/4.16kV transformer at Trego Substation.

Requested in-service date is 04/30/2026

The existing transformer at Trego Substation is a 6.3MVA transformer and is loaded to 109% of the nameplate rating and 100% of the summer NOL rating during summer peak.

- Loadings Exceed Nameplate Ratings
- Identified as a voltage island with no field ties



Dominion Transmission Zone: Supplemental Loading Exceeds Nameplate Rating, Voltage Island

Need Number: DOM-2025-0036

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Install a 2000 Amp, 16.8 kAIC circuit switcher and associated equipment (center break switch, bus work, relaying, etc) on the high side of the new transformer at Trego Substation.

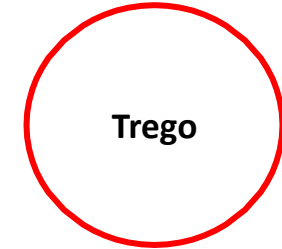
Estimated Project Cost: \$0.7M

Supplemental Project ID: s3893

Projected In-service date: 04/30/2026

Project Status: Construction

Model: 2030 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

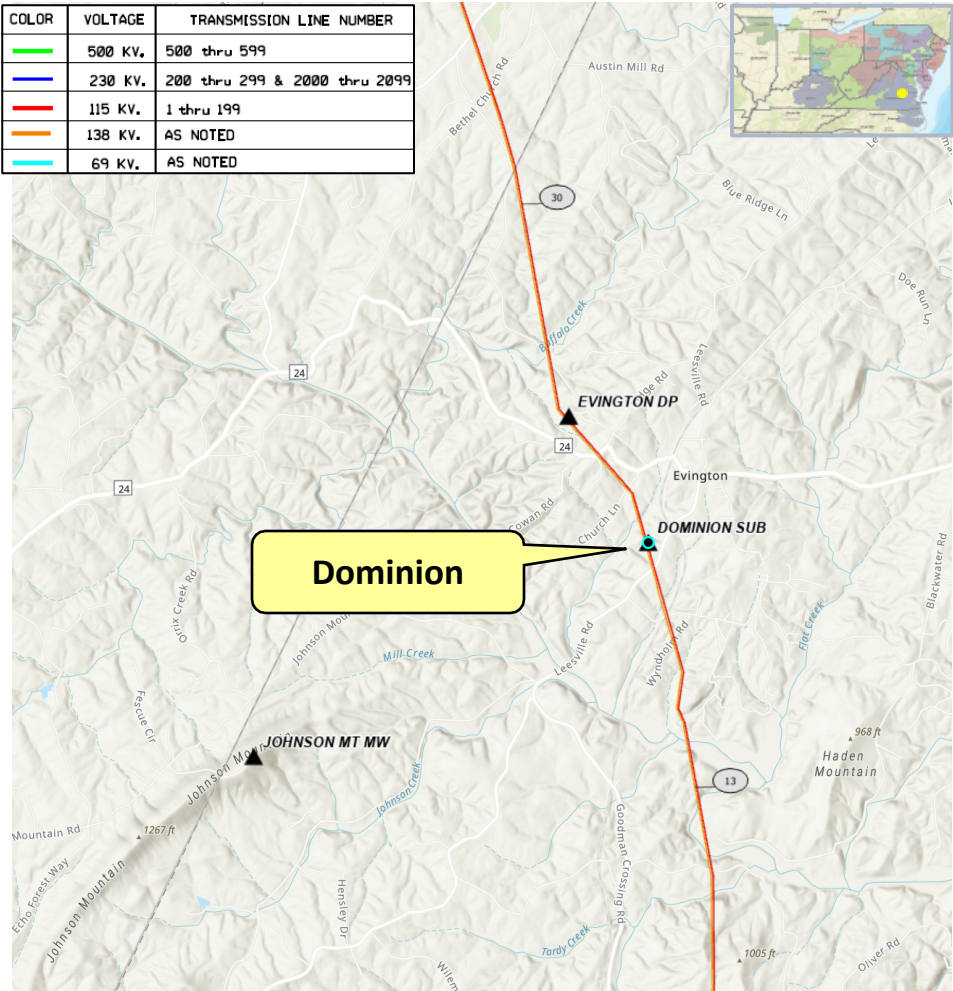
Need Number: DOM-2025-0038
Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan
Previously Presented: Need Meeting 09/18/2025; Solution Meeting 3/18/2025
Project Driver: Customer Service

Specific Assumption References:
Customer load request will be evaluated per Dominion’s Facility Interconnection Requirements Document and Dominion’s Transmission Planning Criteria.

Problem Statement:
Dominion Energy Distribution has submitted a Delivery Point (DP) Request for the installation of a second 115/36.5 kV, 22.4 MVA Delta-Wye connected TX at Dominion substation with a target energization date of 12/31/2026.

The driver for the DP request is that the existing Dominion TX#1 is a 115/36.5 kV 22.4 MVA unit serving roughly 1400 customers and this substation transformer is a voltage island for most of the year due to weak circuit ties. For the failure of this transformer, most customers during peak load conditions are subject to an extended outage, 18 to 24 hours, until mobile transformation can be installed to restore service.

Initial In-Service Load	Projected 2030 Load
Summer: 11.6 MW Winter: 13.2 MW	Summer: 14.2 MW Winter: 16.1 MW



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0038

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Install a 1200A, 25kAIC, 115kV circuit switcher and a 2000A switch on the high side of the transformer. Install any transmission related equipment (wave trap, etc.) to support the installation of the new transformer.

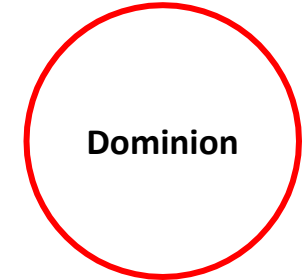
Estimated Project Cost: \$0.5M

Supplemental Project ID: s3894

Expected in-service date: 12/31/2026

Project Status: Planning

Model: 2030 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2023-0003

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: Need Meeting 01/10/2023; Solutions Meeting 09/09/2025

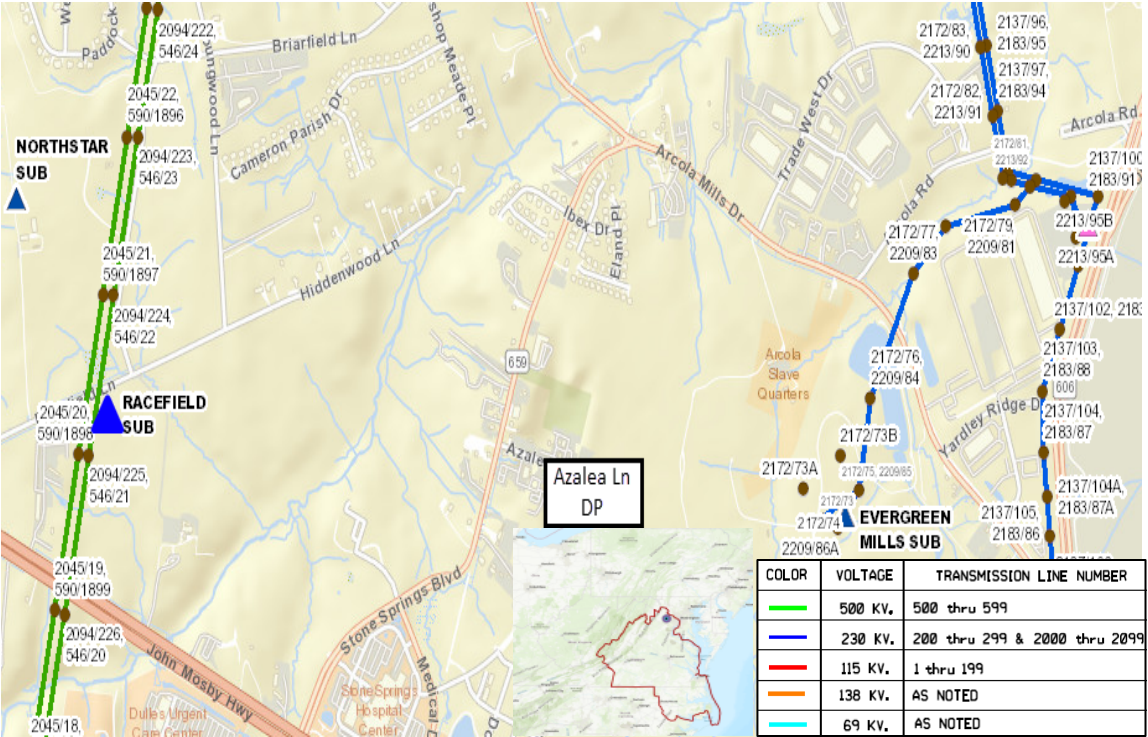
Project Driver: Customer Service

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 has submitted a DP Request for a new substation (Azalea Lane) in Loudoun County with a total load in excess of 100MW. Requested in-service date is 12/31/2029.



Initial In-Service Load	Projected 2030 Load
Summer: 39 MW Winter: 21 MW	Summer: 67.0 MW Winter: 41 MW

Dominion Transmission Zone: Supplemental Azalea Lane 230kV Delivery - NOVEC

Need Number: DOM-2023-0003
Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:
Interconnect the new substation by cutting and extending 230kV line #2210 (Brambleton Sub to Evergreen Mills Sub) approximately 1 mile to the proposed Azalea Lane Substation. Lines to terminate in a 230kV four-breaker ring arrangement with an ultimate arrangement of a six-breaker ring.

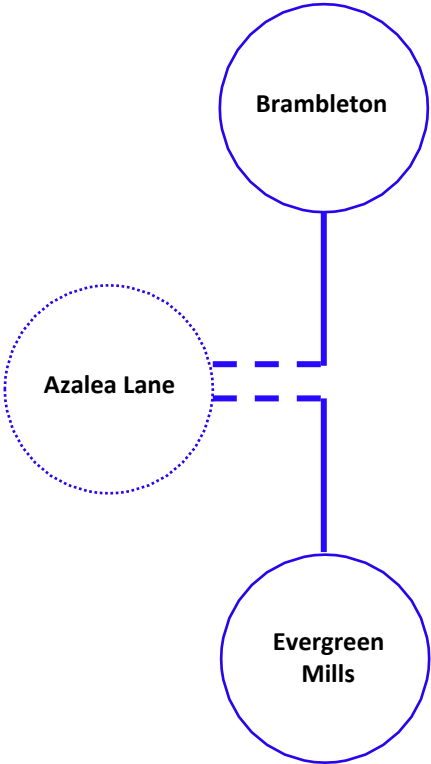
Estimated Project Cost: \$56.5 M
Transmission Line: \$22.2 M
230kV Substation: \$34.3 M

Supplemental Project ID: s3883

Projected In-service Date: 12/31/2029

Project Status: Engineering

Model: 2029 RTEP



Dominion Transmission Zone: Supplemental Operational Flexibility and Efficiency

Need Number: DOM-2022-0061 (Update)

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: Submission of Supplemental Project for Inclusion in the 2024 Local Plan 02/21/2024; **Solution Meeting 01/15/2026 (Update)**

Project Driver: Operational Flexibility and Efficiency

Specific Assumption References:

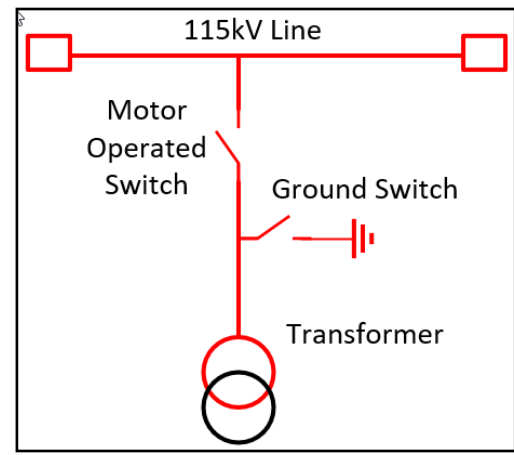
See details on Operational Flexibility and Efficiency in Dominion’s Planning Assumptions presented in December 2021.

Problem Statement:

Dominion has identified ~~5~~ 4 substations that have legacy protection schemes on the 115kV high side of distribution transformers. These protection schemes utilize a ground switch and a motor operated switch on the high side of each transformer. For a fault in the transformer protection zone:

- ❑ The ground switch closes resulting in a bolted fault on the 115kV line
- ❑ This causes the transmission line breakers to open at the substation terminal ends
- ❑ The transformer motor operated high side switch opens isolating the transformer from the 115kV line and the terminal end breakers reclose to re-energize the 115kV line

These schemes are no longer standard protection due to the stress on the transmission equipment from the fault applied by the ground switch and the operation of the 115kV line interrupting service to all customers served by the line.



Substation	Tx #
Quantico	1 & 2
Princess Anne	1
Deep Creek	1 & 2
Creswell	2
Alexander Corner	1
Tunis	2
Brown Boveri	1

Dominion Transmission Zone: Supplemental Operational Flexibility and Efficiency

Need Number: DOM-2022-0061 (Update)

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

The protection schemes at these locations are being upgraded to Dominion's current substation standard.

Remove the ground switches and install circuit switchers at ~~5~~ 4 substations:

~~Quantico Tx# 1 & 2~~

- ☐ Deep Creek Tx# 1 & 2
- ☐ Alexander Corner Tx# 1
- ☐ Tunis Tx# 2
- ☐ Brown Boveri Tx# 1

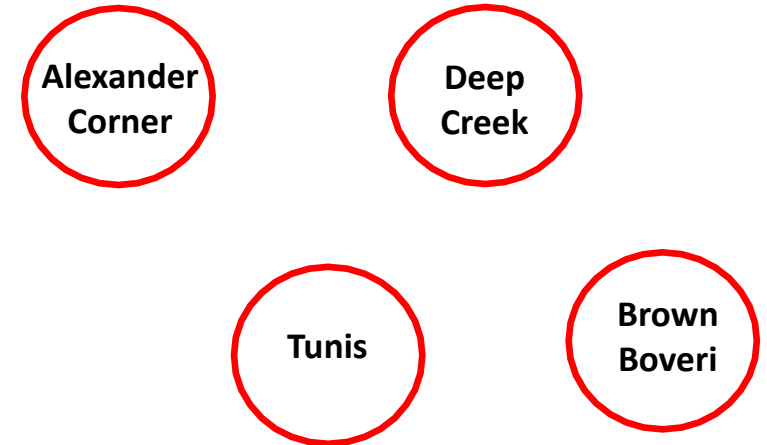
Estimated Project Costs: ~~\$2.5M~~ \$1.86M

Supplemental Project ID: s3052

Projected In-Service Date: ~~04/30/2024~~ 12/31/2026

Project Status: Engineering

Model: 2027 RTEP



Dominion Transmission Zone M-3 Process

Line #209 and Line #58 Partial Rebuild

Need Number: DOM-2021-0006 (Update)

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previous Presented: Submission of Supplemental Project for Inclusion in the 2021 Local Plan 11/12/2021; **Solution Meeting 05/08/2026 (Update)**

Project Driver: Equipment Material Condition, Performance, and Risk

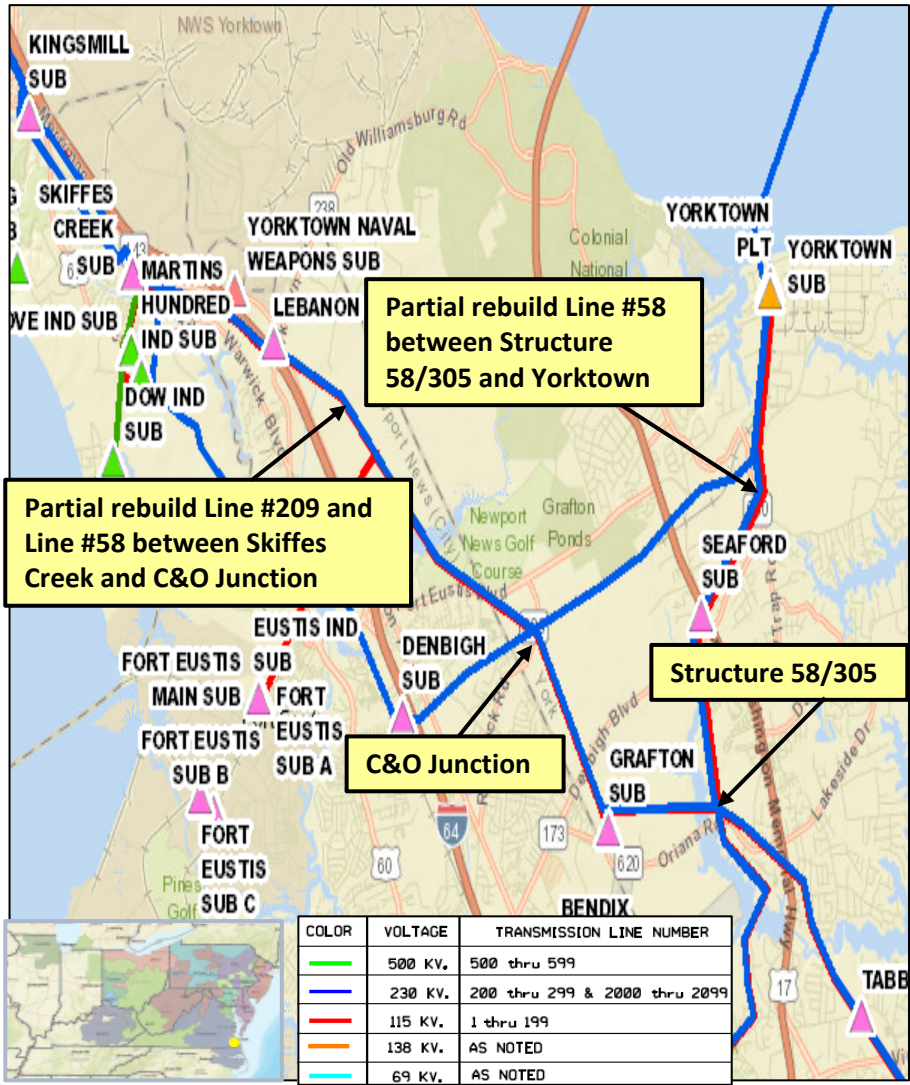
Specific Assumption Reference:

See details on Equipment Material Condition, Performance and Risk in Dominion’s Planning Assumptions presented in December 2020.

Problem Statement:

Dominion Energy has identified a need to replace 52 double-circuit wood pole structures from Skiffes Creek to C&O Junction of Line #209 (Skiffes Creek-Yorktown) and Line #58 (Skiffes Creek-Yorktown), and 47 single-circuit wood pole structures from Structure 58/305 to Yorktown of Line #58 based on the Company’s End of Life criteria.

- The 6.2 miles segment from Skiffes Creek-C&O Junction of Line #209 and Line #58, and the 4.5 miles segment from Structure 58/305-Yorktown of Line #58 were constructed on wood H-frame structures in 1952 and includes ACSR conductor and 3#8 static. These structures are at the end of their useful life.
- Industry guidelines indicate equipment life for wood structures is 35-55 years, conductor and connectors are 40-60 years, and porcelain insulators are 50 years.
- Line #209 and Line #58 provide service to Lebanon substation with approximately 46.6MW of load.



Dominion Transmission Zone M-3 Process

Line #209 and Line #58 Partial Rebuild

Need Number: DOM-2021-0006 (Update)

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Rebuild approximately 6.2 miles double circuit segment of Line #209 and Line #58 between Skiffes Creek and C&O Junction to current standards. The normal summer rating of this segment of Line #209 and Line #58 will be ~~1047MVA~~ **1573 MVA** and ~~262MVA~~ **393 MVA**, respectively.

Rebuild approximately 4.5 miles single circuit segment of Line #58 to current 115kV standards. The normal summer rating of the line segment will be 262MVA.

Current standards of 2026 are different than in 2021. Lines 209/58 will be rebuilt with 230 kV DC monopoles (instead of H-frames). Additional permanent ROW (0.4 acres) is necessary to maintain non-curtable service to the US Government. Rising material, labor, and construction costs have contributed to increased ET project costs over recent years.

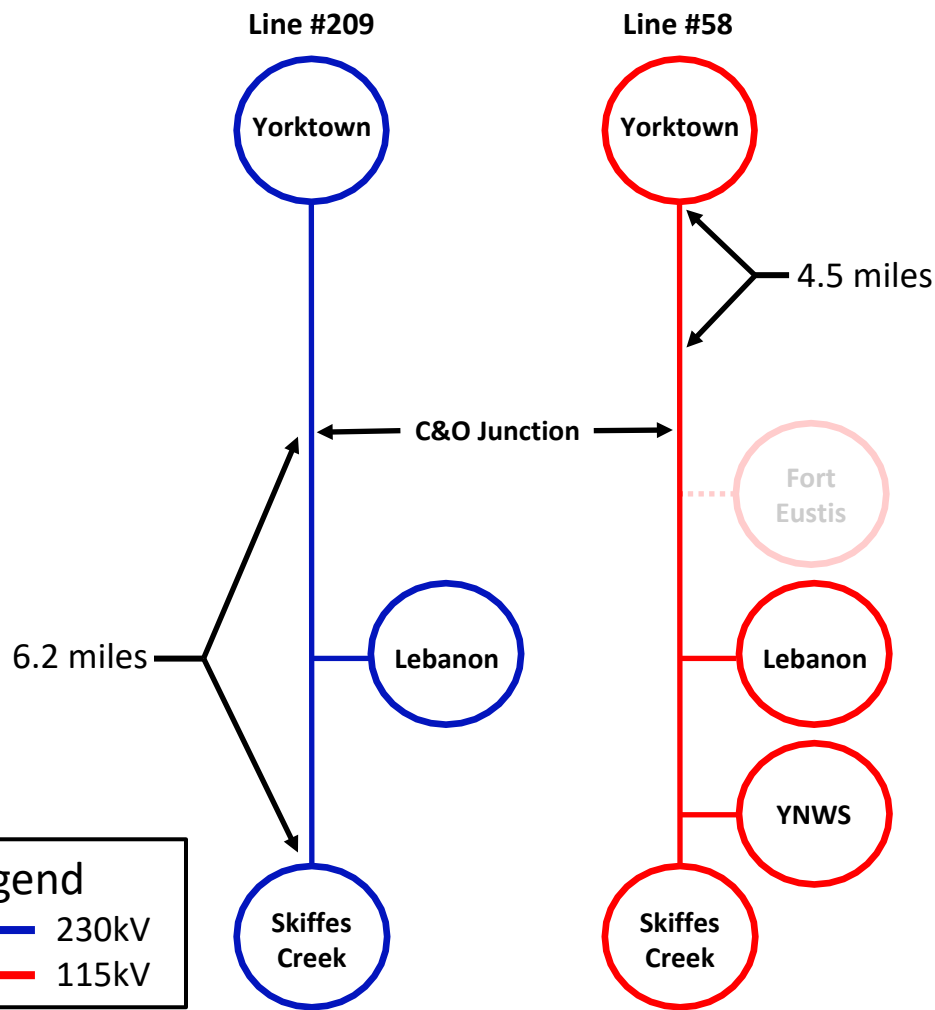
Estimated Cost: ~~\$19.5M~~ **\$66.89M** (Substation \$3.48M; T-Line \$63.41M)

Supplemental Project ID: s2623

Projected In-Service: ~~12/31/2025~~ **05/30/2029**

Project Status: Engineering

Model: 2025 RTEP



Dominion Transmission Zone: Supplemental Do No Harm Analysis

Need Number: DOM-2019-0021, DOM-2024-0022, DOM-2024-0023, DOM-2024-0024 – DNH (Update)

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: Submission of Supplemental Project for Inclusion in the 2025 Local Plan 09/25/2025;
 Solution Meeting 1/6/2026 (Update); Solution Meeting 7/7/2026 (Update)

Project Driver: Do No Harm Analysis – Meadowville Load Area

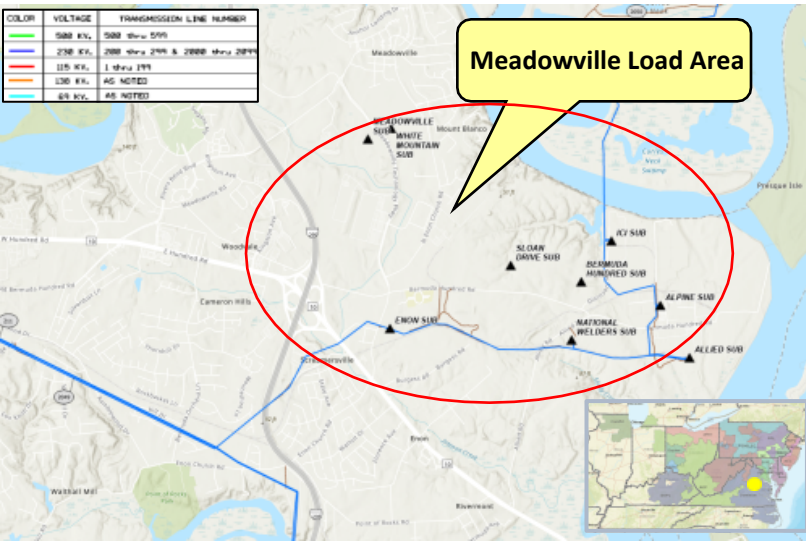
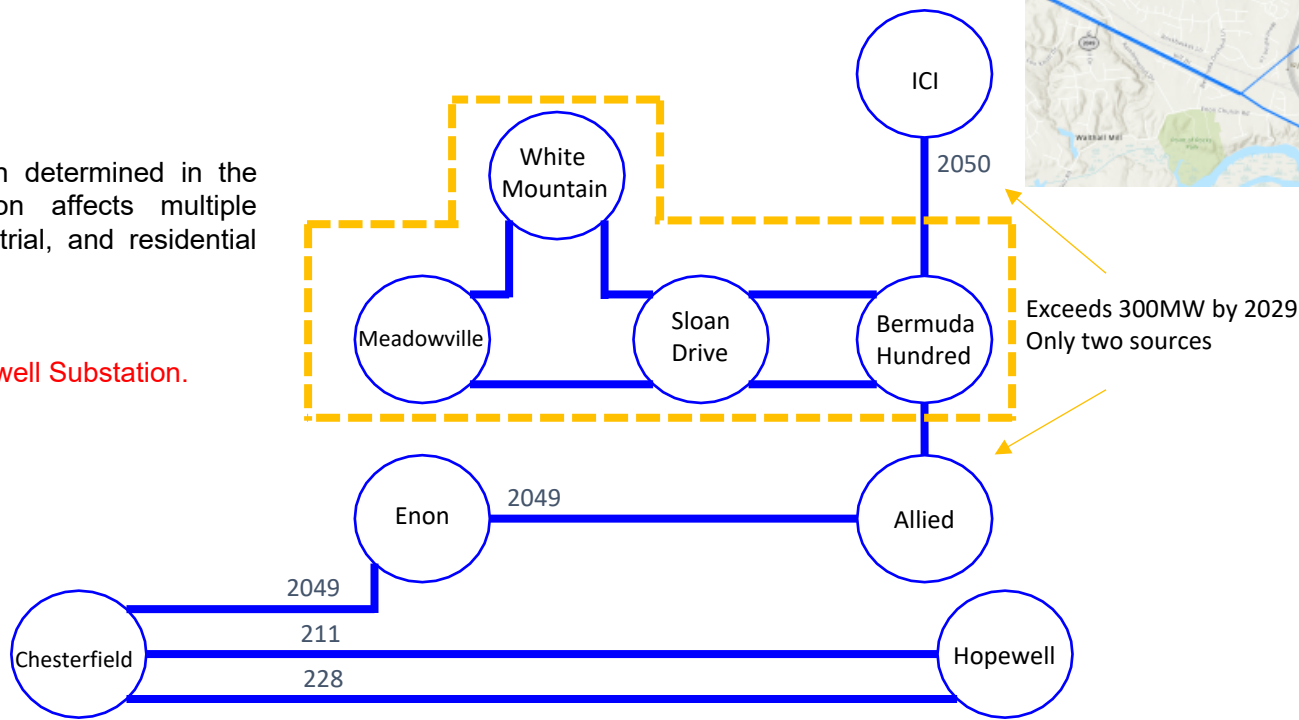
Specific Assumption References:

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

Problem Statement:

A 300MW N-1-1 contingency violation has been determined in the Meadowville general load area. This violation affects multiple customers including multiple data centers, industrial, and residential load.

PJM identified over duty breakers at existing Hopewell Substation.



Dominion Transmission Zone: Supplemental

Do No Harm Analysis

Need Number: DOM-2019-0021, DOM-2024-0022, DOM-2024-0023, DOM-2024-0024 – DNH (Update)

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

- Connect future Meadowville substation to ~~existing Enon substation~~ a new switching station (Shand Creek) by constructing approximately two miles of double circuit 230kV lines.
- ~~Enon substation was not able to be expanded, so Shand Creek substation will be built 0.5 miles down the ROW on county owned EDA land. Enon substation will need to be expanded to include a new 230kV ring bus.~~
- Construct new Sycamore Springs switching station in existing transmission corridor. Loop existing 230kV Lines 211, 228, and 2049 in and out of Sycamore Springs.
- Wreck and rebuild approximately two miles of existing 230kV Line 2049 between Sycamore Springs and ~~Enon~~ Shand Creek substation with double circuit structures. Install second 230kV conductor on new structures to create a third source to the Meadowville area.
- Upgrade 230kV breakers 212432, 219732, 204632, 204132, 26832, and 2046T2197 at Hopewell Substation from 40kA to 63kA.

Estimated Project Cost: ~~\$92.7M~~ \$101.7M

Substation: ~~\$37.6M~~ \$40.0M

Transmission Lines: \$55.1M

Hopewell Substation Breaker Upgrade: \$6.6M

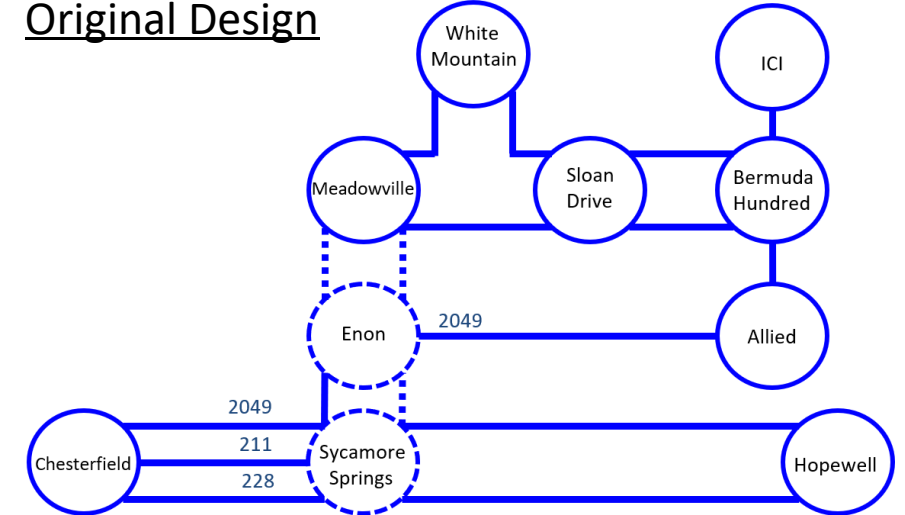
Supplemental Project ID: s3672

Projected In-service Date: Q4 2030

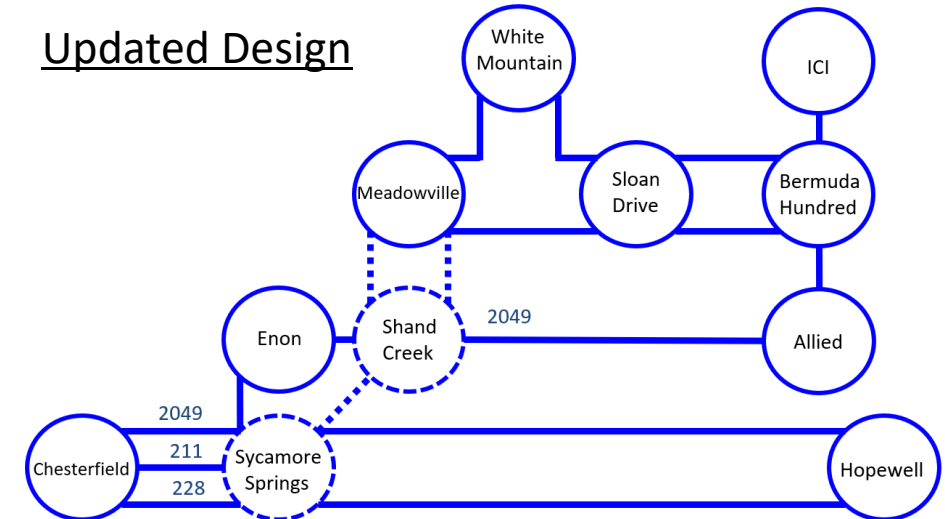
Project Status: Conceptual

Model: 2029 RTEP

Original Design



Updated Design



Dominion Transmission Zone: Supplemental Do No Harm Analysis

Need Number: DOM-2023-0016, 0053, 0055, 2024-0012 – DNH

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: Solution Meeting 04/01/2025; Solution Meeting 06/02/2026 (Update)

Supplemental Project Driver: Do No Harm Analysis

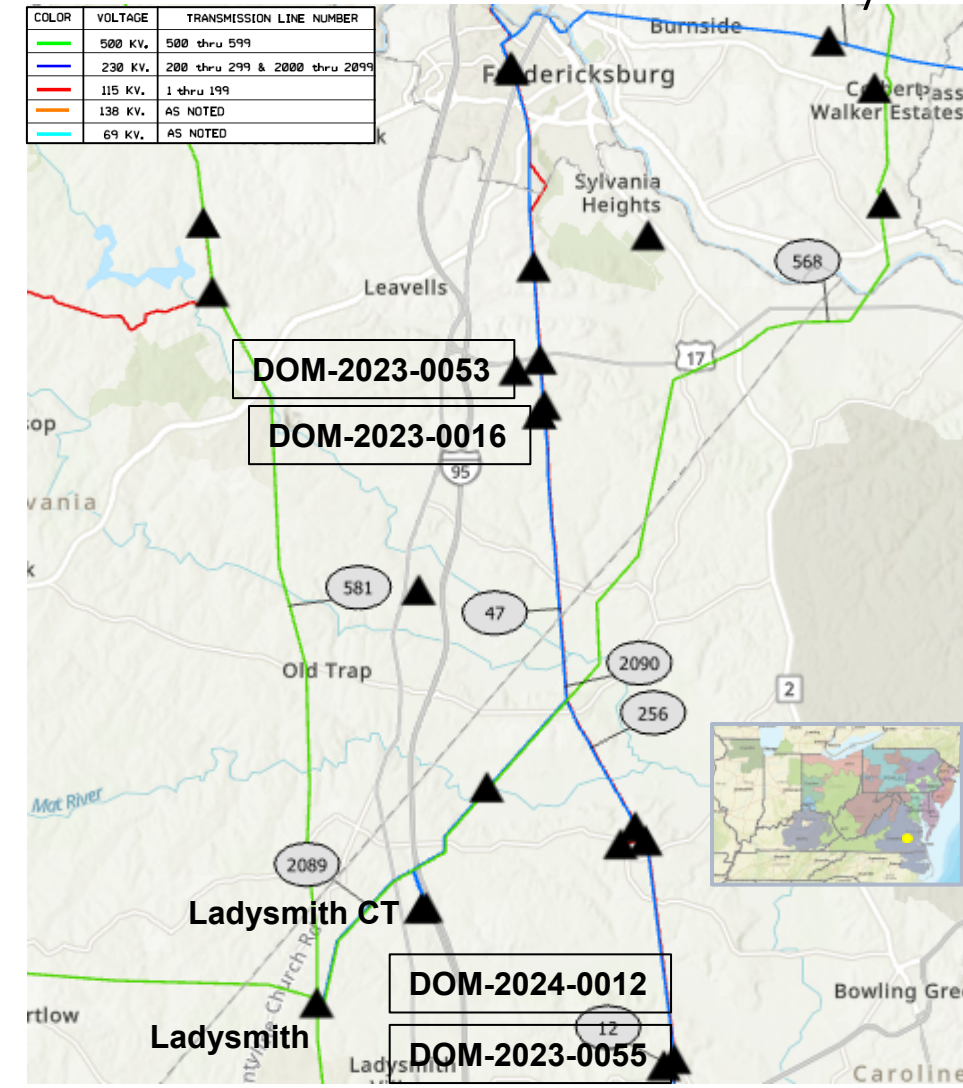
Specific Assumption Reference:

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

Problem Statement:

DEV has identified multiple violations on 230 kV Ladysmith CT - Fredericksburg and Ladysmith CT – Four Rivers via the 2025 Do-No-Harm analysis:

- 300 MW Load Drop Violation identified under two separate N-1-1 contingency events.
- N-1 Thermal Violation (Generator Deliverability) under two separate single contingency events.
- PJM identified over duty breakers at existing Fredericksburg, Ladysmith, and Possum Point substations associated with Dominion's initial DNH solution.



Dominion Transmission Zone: Supplemental Do No Harm Analysis

Need Number: DOM-2023-0016, 0053, 0055, 2024-0012 - DNH

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution - Phase1 (01/2028):

1. Rebuild approximately 6.5 miles of the existing 230kV Line #2090 between Summit DP and Fredericksburg Sub with double-circuit structures using a higher capacity conductor and associated substation equipment to achieve a minimum normal summer rating of 1573 MVA.
2. Reconductor the first circuit of the Line #2089 from Ladysmith to Ladysmith CT for approximately 4 miles to achieve a minimum normal summer rating of 1573 MVA. Reconductor the second circuit of the Line #2089 from Ladysmith to Structure #2089/19 for approximately 3.3 miles to achieve a minimum normal summer rating of 1573 MVA. The rest of the Line #2089 on one side of the structures remains idle from Structure #2089/19 to Ladysmith CT Station.
3. Construct a new 230kV Line from Structure #2089/19 to Structure #2090/106 for approx. 4.5 miles using double-circuit structures.
Install the second circuit between existing Structure #2090/107, New Post Sub, Lee's Hill Sub, and Fredericksburg Sub by utilizing the vacant arms positions on the double-circuit structures in the corridor. The termination points of the new line will be Ladysmith, New Post, Lee's Hill, and Allman.
4. Install two 500kV, 150 MVar Capacitor Banks At Ladysmith Sub.

Selected Solution – Phase2 (07/2029):

1. Expand Thornburg (fka Kraken) 500kV Switching Station by cutting the existing 230kV Lines #2090 and #256, and future 230kV Line from Ladysmith to Allman constructed in Phase1.
2. Rebuild Line #256 from St. Johns to Four Rivers for approx. 14.9 miles using double circuit monopoles. One circuit will be installed initially.
3. Rebuild Line #2032 from Four Rivers to Elmont for approx. 9 miles using double circuit monopoles. One circuit will be installed initially.
4. Wreck the 115kV Lines #47 (Fredericksburg-Four Rivers), #1008 (Pinewood-Four Rivers), #73 (Four Rivers-Elmont), 1013 (Pinewood-N. Doswell)
Construct a new double circuit 230kV from Kraken to Allman. Pinewood station should be converted to 230kV four-breaker ring station. From Thornburg to Elmont a 5/2 structure configuration was awarded in the 2025 Open Window b.4053.8, b4053.10.
5. Cut the Converted 230kV line near St. Johns and extend a double-circuit 230kV to Ruther Glen Sub.
6. Necessary changes to the customer delivery points will be considered.
7. Upgrade breakers at Fredericksburg from 40 to 63kA, upgrade breakers at Ladysmith from 40 to 63kA, split bus configuration at Possum Point

Estimated cost: \$450.0M (\$250M T-Line; \$200.0M Substation)

Supplemental Project ID: s3731, s3732, s3881, s3882

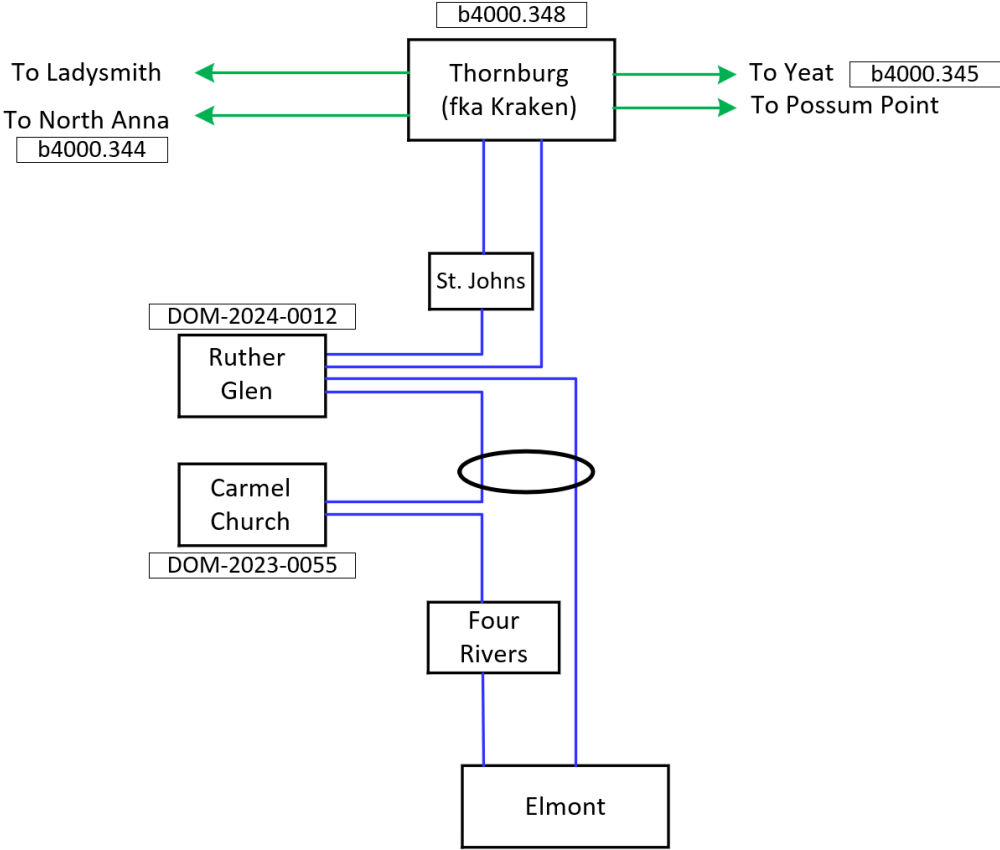
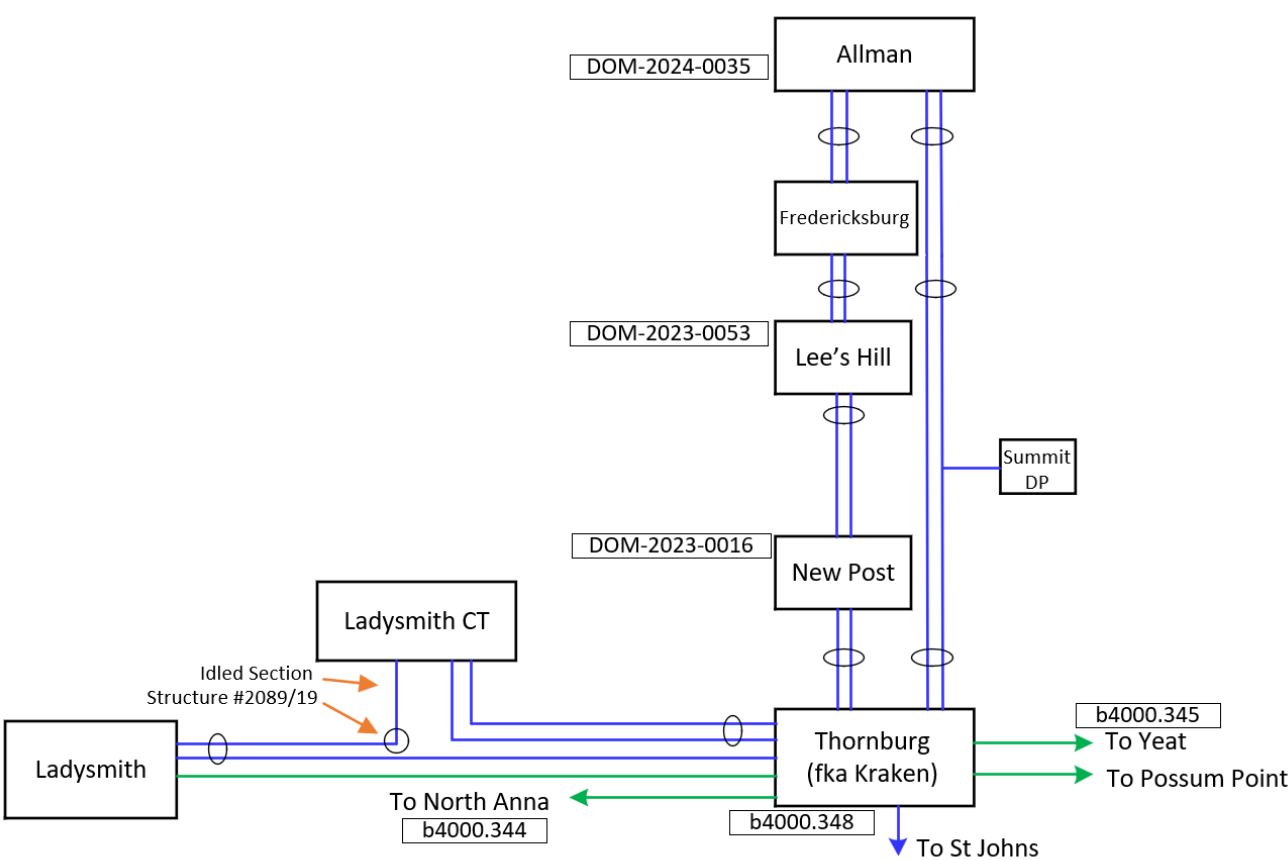
Projected In-service Date: 07/01/2029

Project Status: Engineering

Model: 2029 RTEP

Dominion Transmission Zone: Supplemental Do No Harm Analysis

One-line Diagram:



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0032

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: Need Meeting 10/8/2025; Solution Meeting 2/3/2026

Project Driver: Customer Service

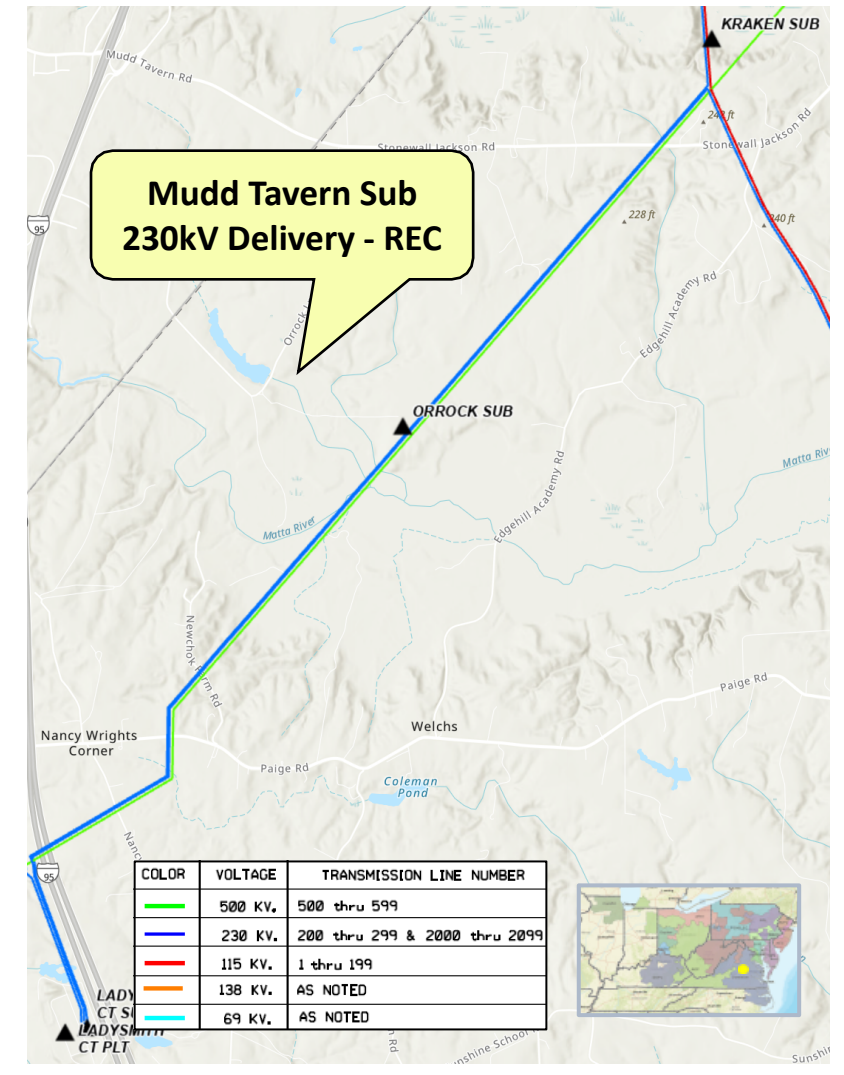
Specific Assumption References:

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 (Mudd Tavern) to serve a data center in Caroline County with a total expected capacity of 300 MW.

The requested in-service date is 8/1/2029.



Dominion Transmission Zone: Supplemental Mudd Tavern 230kV Delivery - REC

Need Number: DOM-2025-0032

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Extend two 230 kV lines approximately one mile from Orrock(Matta) to Mudd Tavern.
Mudd Tavern Substation will be constructed with a 230 kV ring-bus, configured for an ultimate arrangement of six breakers, with four breakers installed initially.

Estimated Project Cost: \$ 22 M (Total)

Transmission Line - \$7 Million

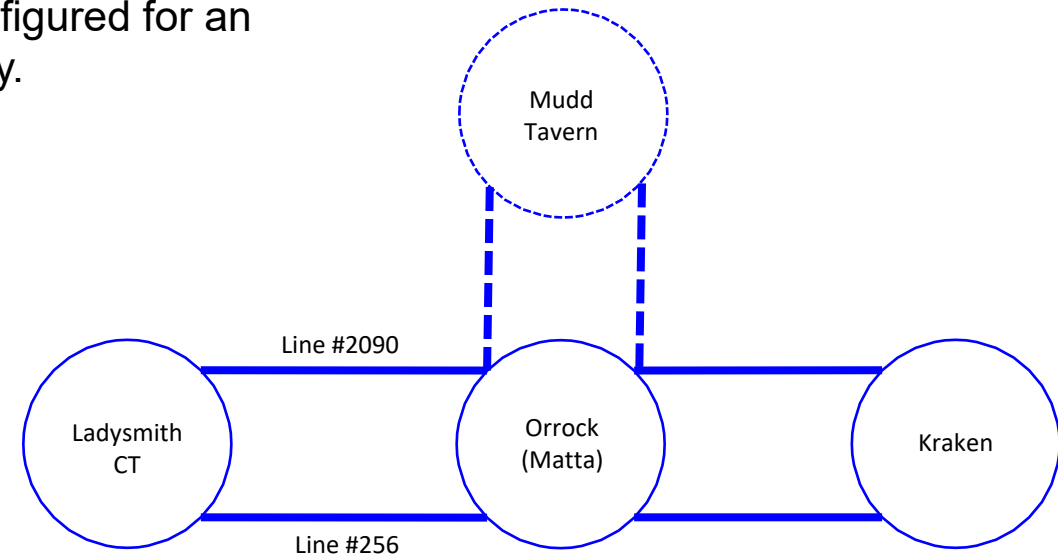
230kV Substation – \$15 Million

Supplemental Project ID: s3991

Projected In-service Date: 3/1/2029

Project Status: Planning

Model: 2029 RTEP



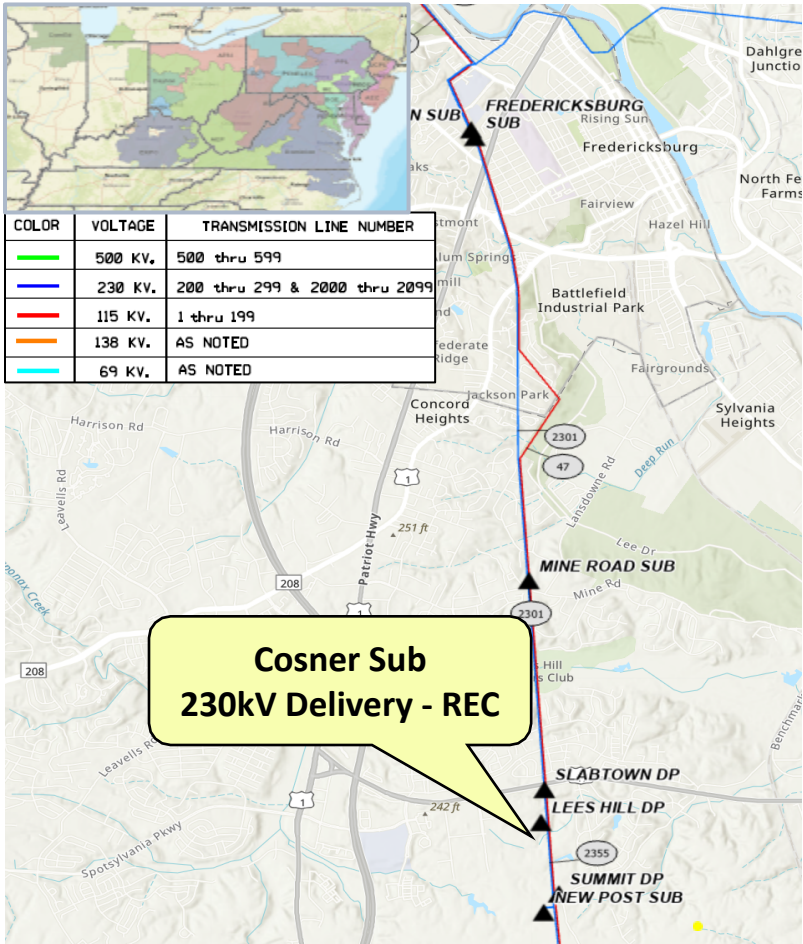
Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0083
Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan
Previously Presented: Need Meeting 12/08/2025; Solution Meeting 02/03/2026
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 (Cosner) to serve a data center in Spotsylvania County, VA with a total expected capacity of 300 MW.

The requested in-service date is 12/01/2027.



Dominion Transmission Zone: Supplemental Cosner 230kV Delivery - REC

Need Number: DOM-2025-0083

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Proposed Solution:

Cut double-circuit New Post to Lee's Hill lines south of Cosner and Lee's Hill and terminate at Cosner, removing the existing line terminations at Lee's Hill.

Extend two new 230 kV lines from Lee's Hill to Cosner.

Estimated Project Cost: \$28M (Total)

Transmission Line – \$6M

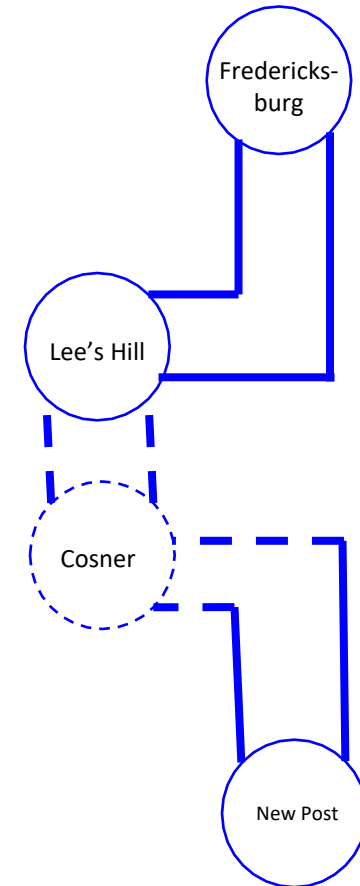
230kV Substation – \$20M

Supplemental Project ID: s3993

Projected In-service Date: 09/30/2030

Project Status: Conceptual

Model: 2030 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2024-0004

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: Need Meeting 02/06/2024; Solution Meeting 3/10/2026

Project Driver: Customer Service

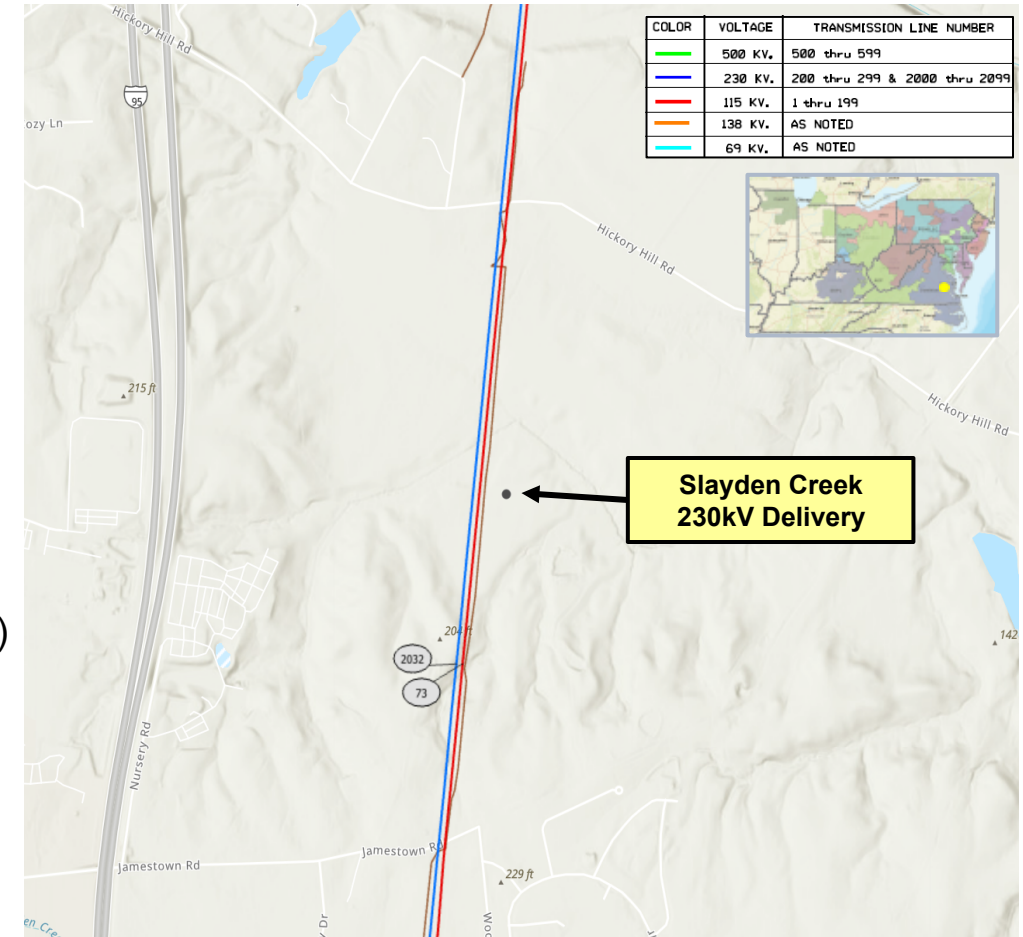
Specific Assumption References:

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

Problem Statement:

DEV has submitted a DP request for a new 230 kV delivery point (Slayden Creek) to serve a data center customer in Ashland VA with a total load of 300 MW.

Requested in-service date is 1/01/2026.



Dominion Transmission Zone: Supplemental Slayden Creek 230kV Delivery - REC

Need Number: DOM-2024-0004

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Cut existing 230kV Line 2032 between Hanover and Four Rivers and extend a new 230kV double circuit loop, approximately .5 miles, in and out of Slayden Creek Substation.

Slayden Creek Substation will be constructed with a 230 kV ring-bus, configured for an ultimate arrangement of six breakers, with four breakers installed initially.

Estimated Project Cost: \$ 26M (Total)

Transmission Line – \$6M

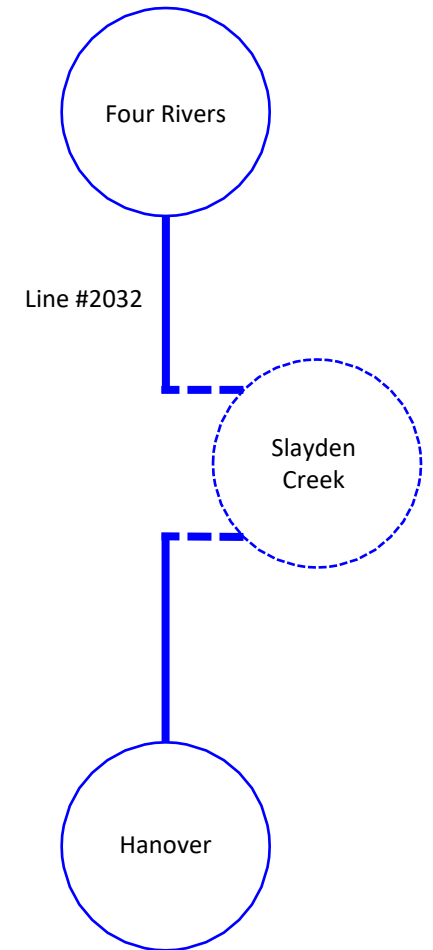
230kV Substation – \$20M

Supplemental Project ID: s3994

Projected In-service Date: 12/1/2029

Project Status: Planning

Model: 2029 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2024-0049

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: Need Meeting 07/09/2024; Solution Meeting 05/05/2026

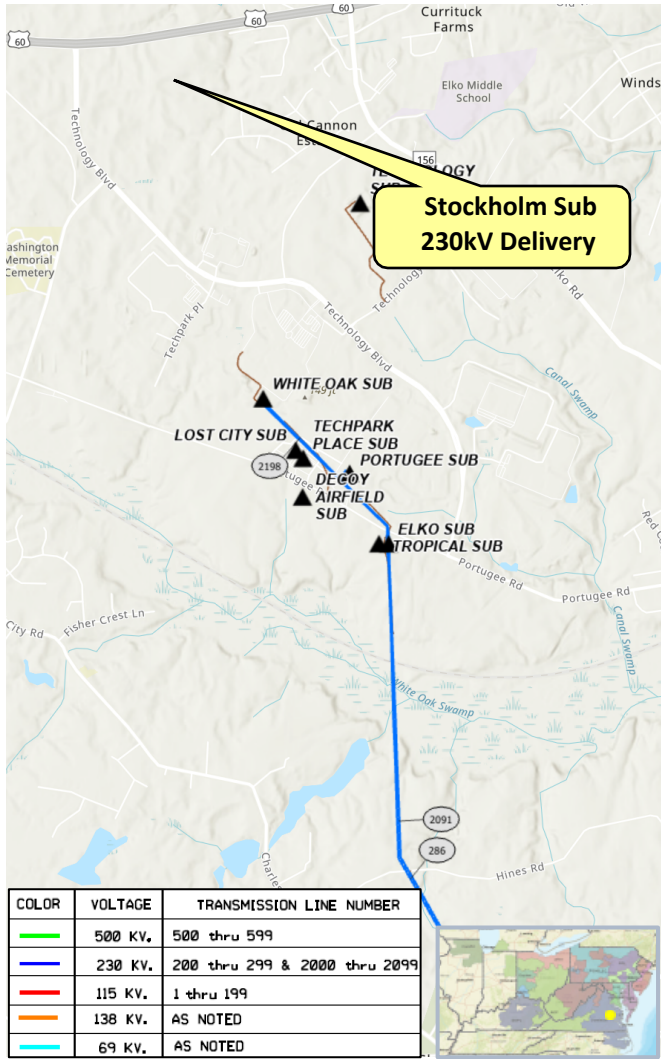
Project Driver: Customer Service

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 (Stockholm) to serve a data center in Henrico County with a total load of 300 MW. The target date is Q4 2028.



Dominion Transmission Zone: Supplemental Stockholm 230kV Delivery - DEV

Need Number: DOM-2024-0049

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Approved project DOM-2022-0038 DNH cuts existing 230kV Line 2075 (Elmont to Chickahominy) in and out of White Oak creating Line 2075 (Elmont to White Oak) and Line 2294 (Chickahominy to White Oak).

Approved project DOM-2024-0018 will cut future 230kV Line 2294 (Chickahominy to White Oak) in and out of proposed Thicket Substation.

Proposed Stockholm Substation will tap future Line 2075 and Line 2294, and lines will terminate in a 230kV six breaker ring bus arrangement.

Proposed Stockholm Substation will have a 75 MVAR cap bank.

Estimated Project Cost: \$ 26M (Total)

Transmission Line – \$6M

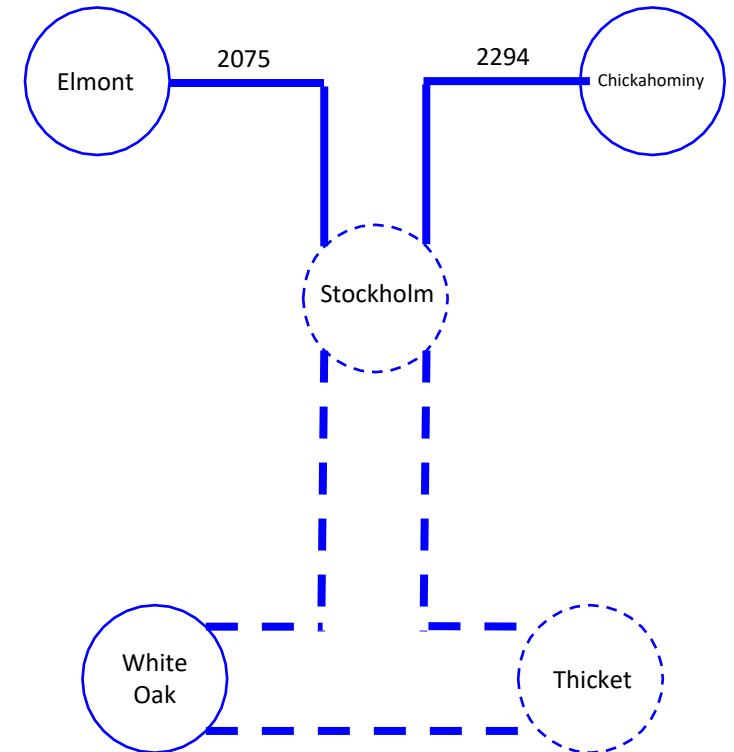
230kV Substation – \$20M

Supplemental Project ID: s3995

Projected In-service Date: Q4 2028

Project Status: Conceptual

Model: 2029 RTEP



DOM-2024-0018

Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0071

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: Need Meeting 10/08/2025; Solution Meeting 01/06/2026

Project Driver: Customer Service

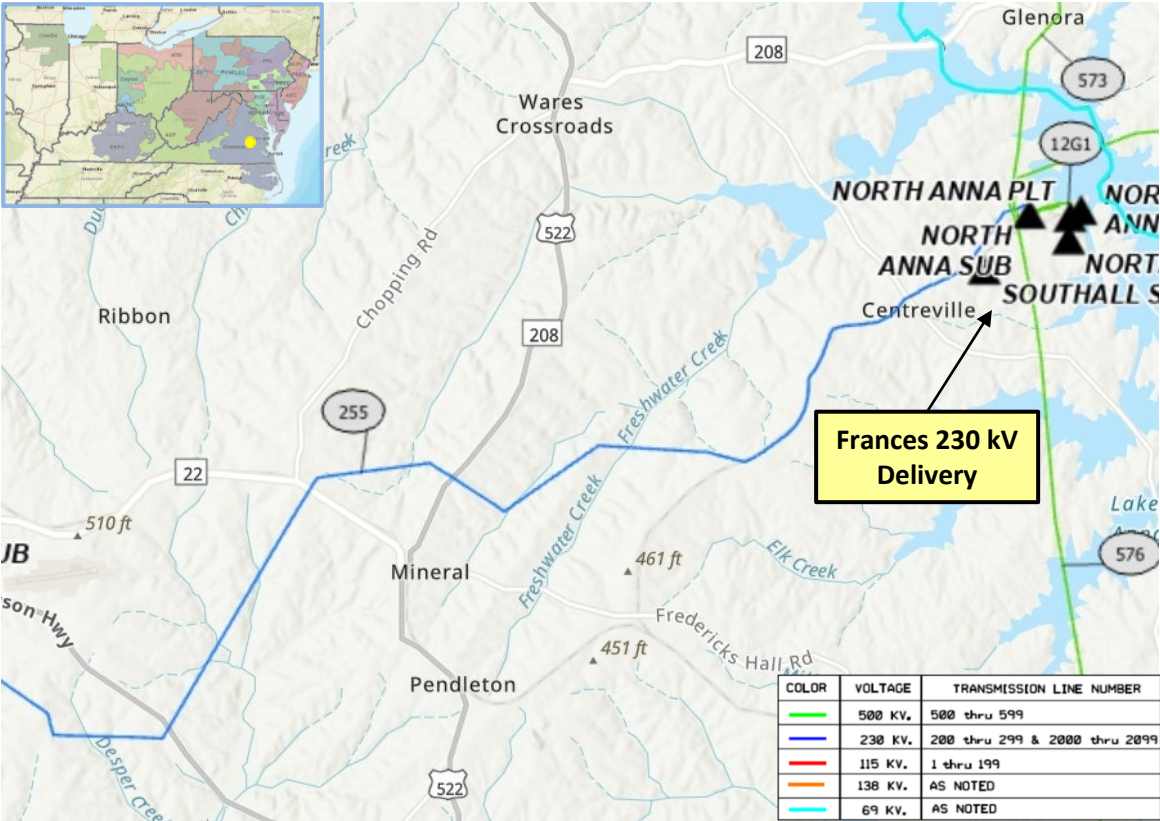
Specific Assumption References:

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

Problem Statement:

REC has submitted a DP request for a new 230 kV delivery point (Frances) to serve a data center customer in Louisa County, VA with a total expected load of 176 MW.

Expected target date is 08/01/2027.



Dominion Transmission Zone: Supplemental Frances 230kV Delivery - REC

Need Number: DOM-2025-0071

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Connect a new Frances substation by extending a new double circuit 230kV feed from Southall substation. Lines will terminate in a 230kV six-breaker ring arrangement.

Estimated Project Cost: \$21M (Total)

Transmission Line – \$1M

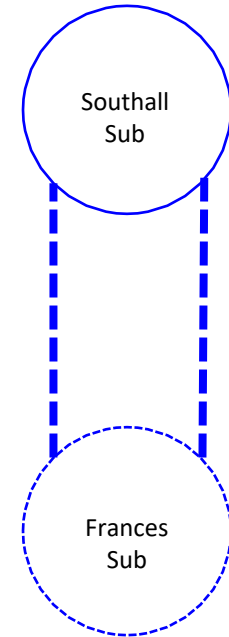
230kV Substation – \$20M

Supplemental Project ID: s3997

Projected In-service Date: 8/01/2027

Project Status: Planning

Model: 2030 RTEP



Dominion Transmission Zone: Supplemental Do No Harm Analysis

Need Number: DOM-2025-0071-DNH

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: DNH Solution Meeting 01/06/2026

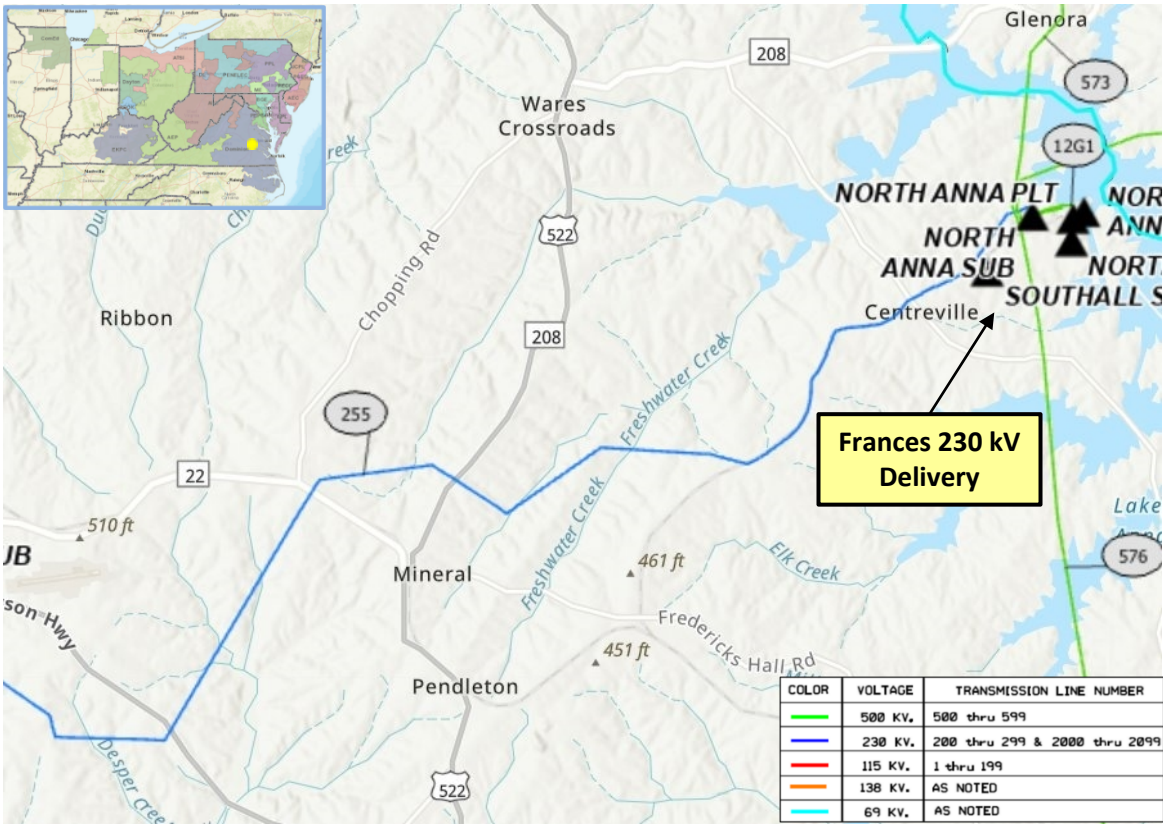
Project Driver: DNH Analysis - Frances

Specific Assumption References:

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

Problem Statement:

A new Frances delivery point has been requested in the Louisa Area near Southall substation. This new load introduces a 300MW load drop violation as identified in the RTEP 2029 DNH case for the N-1-1 loss of Lines #2304 (Foxbrook Lane-Southall) and #255 (Southall-N Anna). This is a violation of DE Planning Criteria.



Dominion Transmission Zone: Supplemental Do No Harm Analysis

Need Number: DOM-2025-0071-DNH

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

- Rebuild single-circuit 230 kV Line #255 (Southall-North Anna) approximately 1.1 miles as 230 kV double-circuit lines back to North Anna.
- Expand North Anna substation to terminate the new 230 kV line from Frances by adding a new 230kV string of breakers in a breaker-and-a-half arrangement.
- Install associated 230 kV terminal equipment at Frances and North Anna to terminate both lines (existing Line #255 and new 230 kV line), creating two Frances to North Anna lines.

Estimated Project Cost: \$12M (Total)

Transmission Line - \$10M

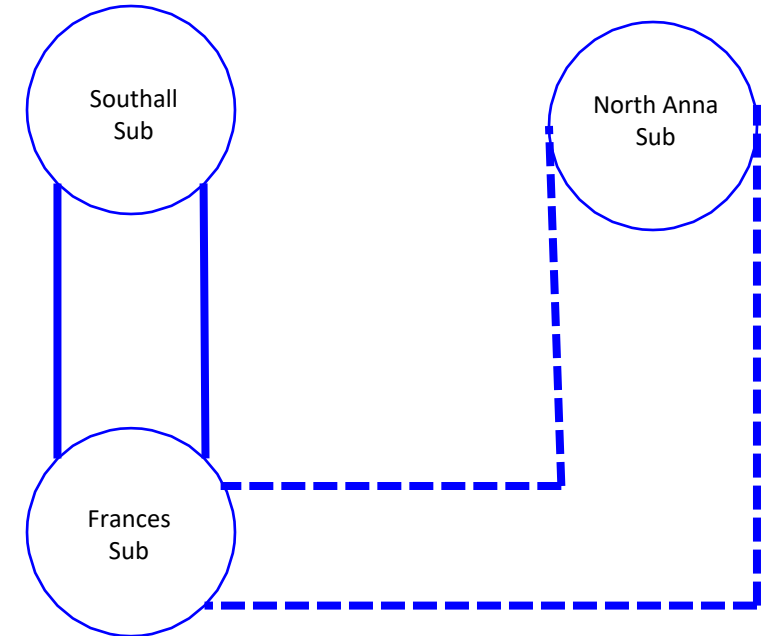
230 kV Substation - \$2M

Supplemental Project ID: s3997.3, s3997.4

Projected In-service Date: 12/30/2028

Project Status: Planning

Model: 2030 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0080

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: Need Meeting 10/16/2025; Solution Meeting 05/14/2026

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:

LS GreenLink USA is building a \$618M subsea cable manufacturing facility at the Deep Water Terminal Site in Chesapeake, VA, and requests 12 MW of load to be delivered in Q3 2027 with an ultimate buildout requiring 18 MW in 2033.

DEV Distribution has submitted a delivery point request to upgrade currently installed TX#2 (with 33.6 MVA rating) at Cradock Substation to 56 MVA and extend a new distribution circuit. The two existing TXs are not sufficient to provide the required redundancy to serve the entire load.

Requested in-service date is 04/30/2027.

Initial In-Service Load (TX#1+TX#2)	10-year Projected Load
Summer: 50.6 MW	Summer: 71.4 MW
Winter: 50.5 MW	Winter: 65.8 MW



Dominion Transmission Zone: Supplemental Cradock 115kV Delivery – DEV

Need Number: DOM-2025-0080

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

- DP Request triggers transmission project to meet current substation engineering standards for high-side protection of distribution TXs
- Replace existing 1200A high-side switch H234 to 2000A MOAB switch

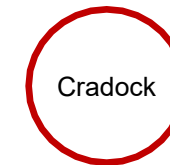
Estimated Project Cost: \$0.33M (Substation only)

Supplemental Project ID: s3998

Projected In-Service Date: 04/30/2027

Project Status: Engineering

Model: 2029 RTEP



Dominion Transmission Zone: Supplemental Operational Flexibility and Efficiency

Need Number: DOM-2024-0051

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: Need Meeting 08/06/2024; Solution Meeting 06/05/2025; Solution Meeting Update 06/02/2026

Project Driver: Operational Flexibility and Efficiency

Specific Assumption References:

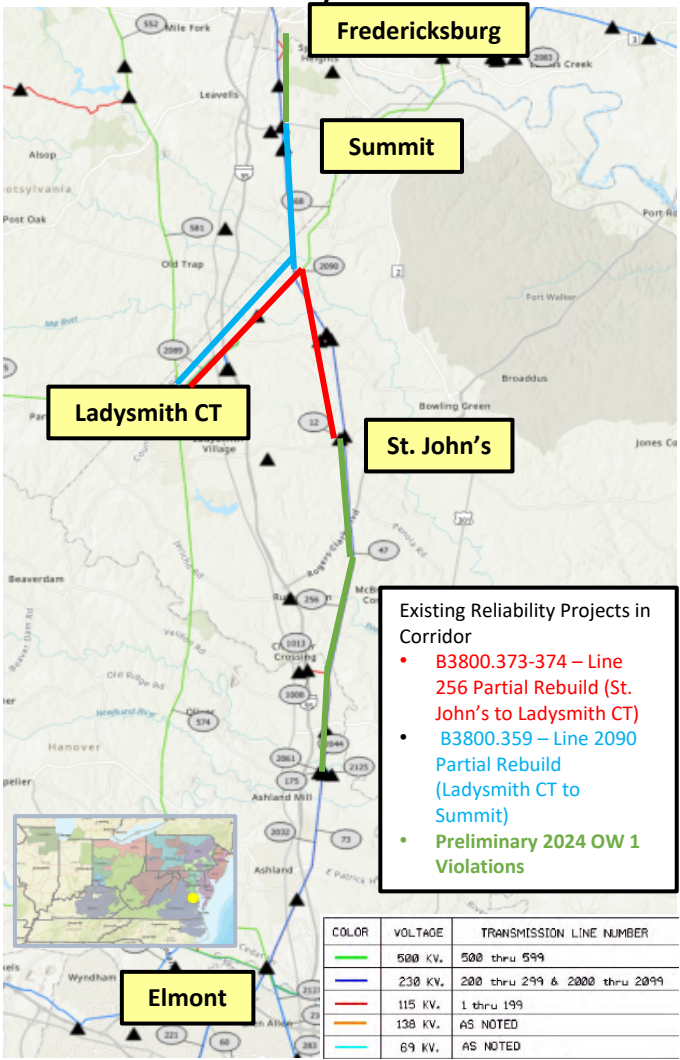
See details on Operational Flexibility and Efficiency in Dominion’s Planning Assumptions presented in December 2023.

Problem Statement (page 1 of 2):

The Elmont to Fredericksburg corridor and points north have experienced significant growth, resulting in existing projects to address reliability violations on portions of Lines #256 (Ladysmith CT-Four Rivers) and #2090 (Ladysmith CT-Fredericksburg) as shown on the map. Further, it is anticipated that near-term End-of-Life upgrade projects, coupled with future reliability upgrades will impact most of the remaining corridor.

Additionally, Delivery Point Requests for nine new substations to serve data center load in the Elmont to Fredericksburg corridor have been submitted, as well as ten new substations to serve data center load in the Elmont to Chickahominy corridor. These are in various stages of evaluation/development. Load projections for the DP’s currently indicate over 4900 MW of new load by year 2029, growing to over 6,800 MW by year 2032.

There is currently only one 230kV transmission source in the corridor from Elmont to Fredericksburg, along with one 115kV source that was recently rebuilt. Without diverse transmission sources to serve the new substations, it is anticipated that initial facility interconnections with the one 230kV transmission line will have to be reworked as additional transmission lines are required in the corridor to address new reliability violations.



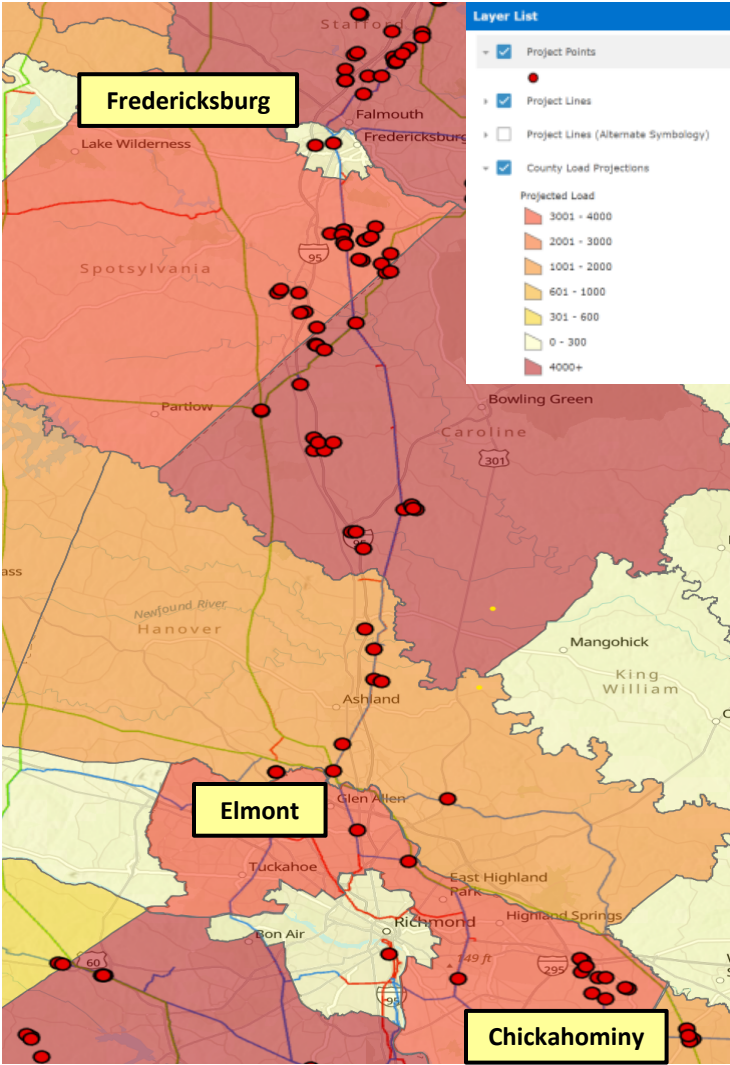
Dominion Transmission Zone: Supplemental Operational Flexibility and Efficiency

Need Number: DOM-2024-0051

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Problem Statement (page 2 of 2):

Project name	Initial Connect Date	Capacity Requested (MW)
ELMONT TO FREDERICKSBURG CORRIDOR		
Tributary (fmr River View)	4/15/2017	295
New Post Sub	12/1/2025	237
Lee's Hill (fmr Hunters Ridge)	10/1/2025	300
Slayden Creek Sub	12/1/2029	300
Orrock (fmr Matta)	11/15/2026	300
Ruther Glen Sub (fmr Ladysmith)	4/15/2027	300
Carmel Church Sub	4/15/2027	300
Falling Creek Sub	12/1/2032	300
Mudd Tavern	12/31/2030	300
Emy Sub	12/31/2030	300
		2,932
ELMONT TO CHICKAHOMINY CORRIDOR		
Thicket Sub	12/1/2030	300
Saltwood Sub	12/1/2027	300
Bunker Sub	11/1/2027	300
Letterkenny Sub	12/31/2031	300
Stockholm Sub	12/31/2028	300
Oslo	Queue	300
Lisbon	Queue	300
Sunfield (fmr Summerfield)	Queue	300
Winterfield	Queue	300
Gray Bark Sub	Queue	300
		3,000
ADDITIONAL QUEUED CAPACITY ELMONT - FREDERICKSBURG		
	37 DPs	10,536



Need Number: DOM-2024-0051

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

1 – Previously presented Do No Harm supplemental project DOM-2023-0016, 0053, 0055, 2024-0012 will wreck and rebuild 230kV line 256/2032 (Thornburg-Elmont) with double circuit structures and 115kV line #47 (Fredericksburg-Four Rivers) and line #73 (Four Rivers-Elmont) with double circuit structures. Update – 115kV Line 47/73 from Thornburg to Elmont will be constructed as 5/2 structures instead of 2/2 structures per approved 2025 Open Window project b4053.8, 9, 10. The 500kV cost will be allocated to the PJM Zone while the 230kV cost will be allocated to the DOM Zone.

2 – Install one 230kV conductor rated at 1573 MVA on the 5/2 double circuit structures from Thornburg to Elmont.

3 – Install one 230kV conductor rated at 1573 MVA on open arms of existing 230kV Line #2075 from Elmont to Chickahominy.

4 – Terminate one 230kV conductor rated at 1573 MVA at Thornburg and Chickahominy. Conductor is being installed on 500kV Line #557 5/2 structures being rebuild under 2021 Open Window End of Life project b3692.

5 – Final configuration will be one new 5/2 circuit from Thornburg to Elmont and two 230kV circuits from Elmont to Chickahominy.

6 – Install substation terminal equipment

Estimated Cost: \$185M (Transmission: \$165M; Substation: \$20M)

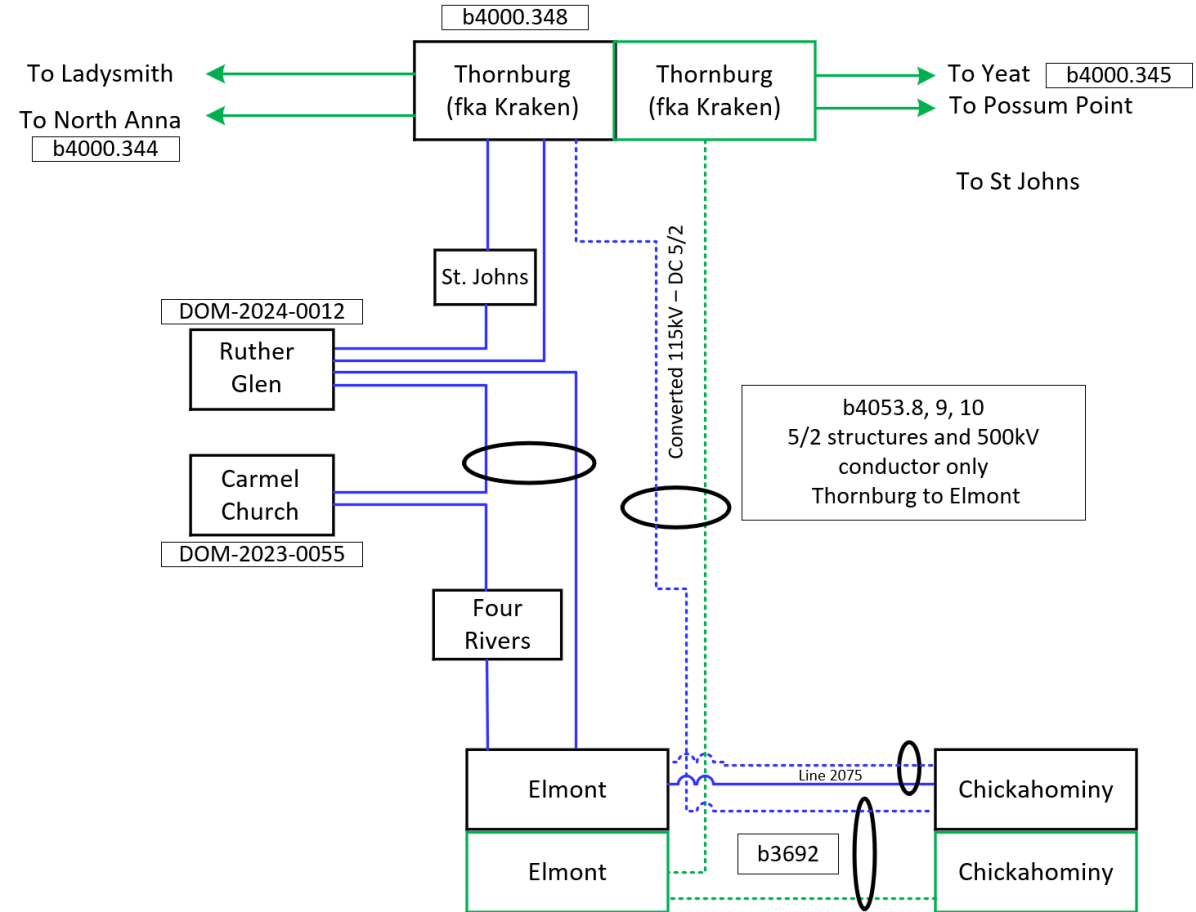
Supplemental Project ID: s3999

Projected In-Service Date: 12/31/2030

Project Status: Engineering

Model: 2029 RTEP

Dominion Transmission Zone: Supplemental Operational Flexibility and Efficiency



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0029

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously presented: Need Meeting 09/18/2025; Solution Meeting 7/16/2026

Project Driver: Customer Service

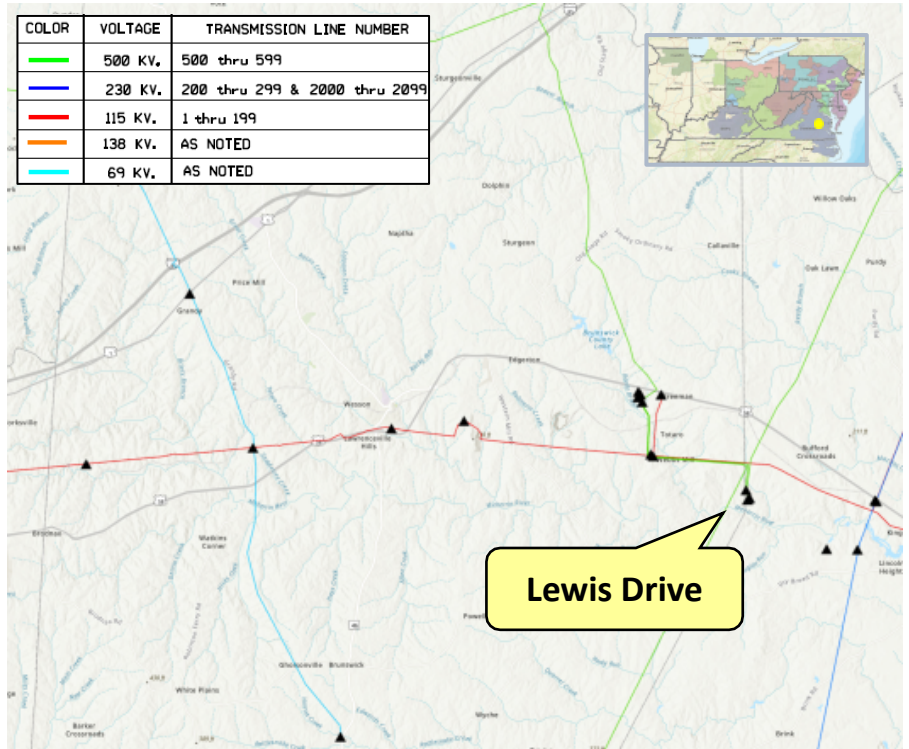
Specific Assumption References:

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

Problem Statement:

ODEC on behalf of Mecklenburg Electric Cooperative (MEC) has submitted a delivery point request for a new delivery point Lewis Drive to serve a 25 MW LNG customer in Brunswick County, VA. The site is located adjacent to Greenville power plant and Rogers Rd Sub. Requested in-service date is 10/01/2026.

Initial load will be 25MW at the requested target date and will remain the same for the next 10 years.



Dominion Transmission Zone: Supplemental Lewis Drive 115 kV Delivery - MEC

Need Number: DOM-2025-0029

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Tap Line #71 (Brodnax – Clubhouse) near structure 71/44 and extend a 115kV tap line to serve MEC’s Lewis Drive 115kV Delivery Point using 636 ACSR 24/7 conductor.

The distance from tap point to proposed delivery point is approximately 0.6 miles.

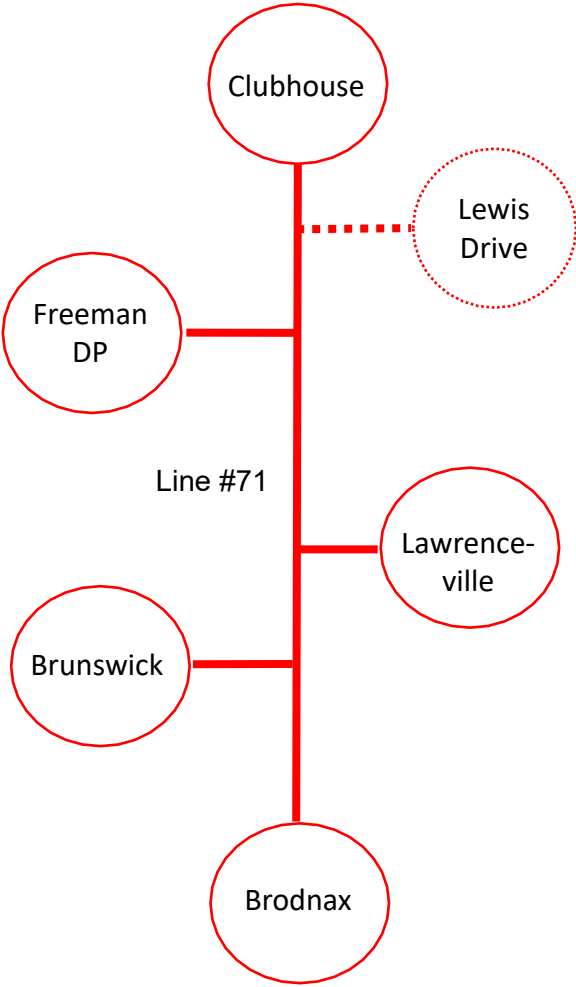
Estimated Project Cost: \$5.3M

Supplemental Project ID: s4000

Projected In-service Date: 10/01/2026

Project Status: Construction

Model: 2030 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0030

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: Need Meeting 01/06/2026; Solution Meeting 07/07/2026

Project Driver: Customer Service

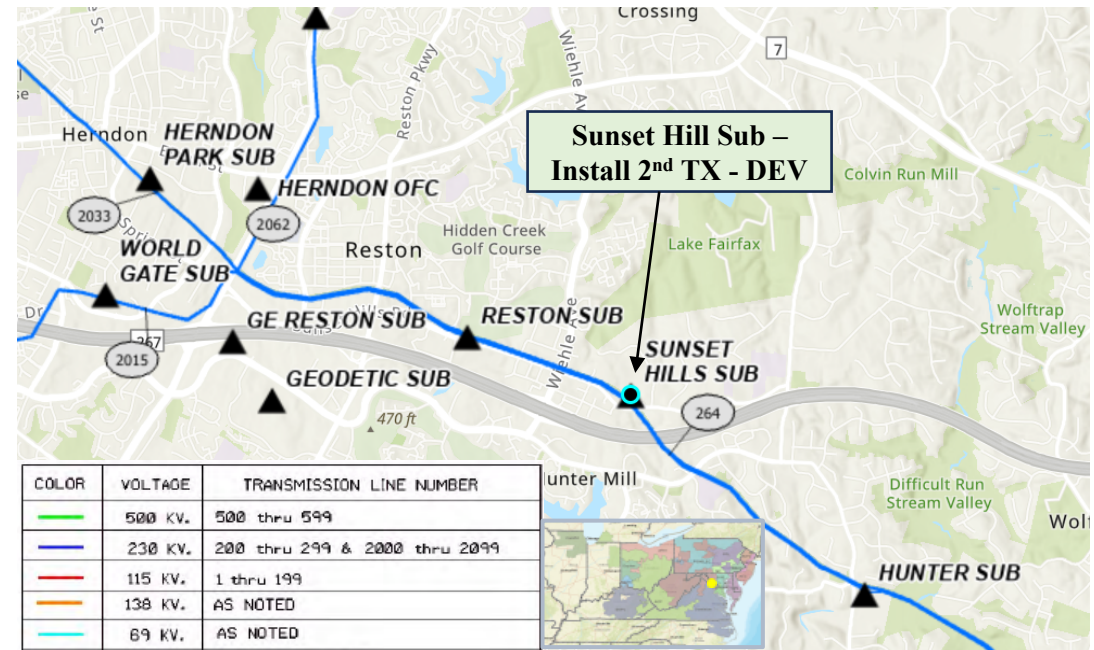
Specific Assumption References:

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 second transformer (TX#2) at Sunset Hill Substation in Herndon, VA. This upgrade is required to address non-data center load growth that is expected to exceed the capacity of the existing transformer. The substation has a total expected load of 100 MW.

Expected in-service date is December 31, 2028.



Dominion Transmission Zone: Supplemental Sunset Hill 230 kV Delivery– DEV

Need Number: DOM-2025-0030

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Install one (1) 1200 Amp, 63kAIC circuit switcher and associated equipment to facilitate installation of a second 84 MVA, 230/34.5 kV transformer.

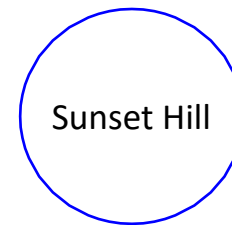
Estimated Project Cost: \$1.6M

Supplemental Project ID: s4001

Projected In-Service Date: 12/31/2028

Project Status: Engineering

Model: 2024 Series RTEP 2029



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0051

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: Need Meeting 11/04/2025; Solution Meeting 02/03/2026

Project Driver: Customer Service

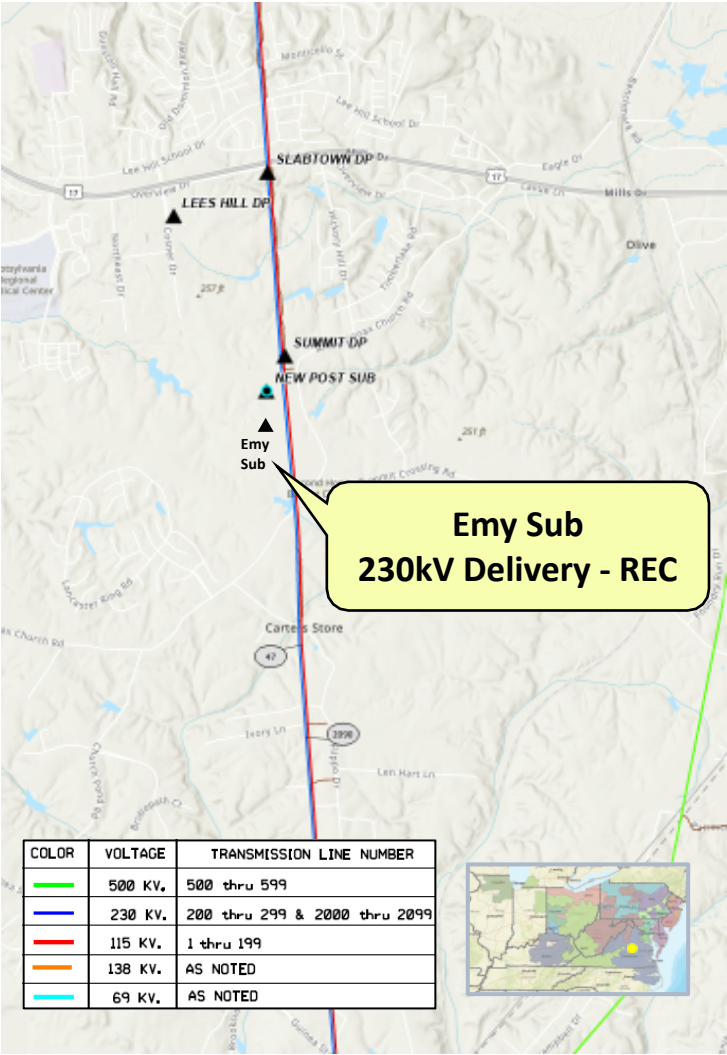
Specific Assumption References:

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 (Emy) to serve a data center in Spotsylvania County, VA with a total expected capacity of 212 MW.

The requested in-service date is 07/05/2027.



Dominion Transmission Zone: Supplemental Emy 230kV Delivery - REC

Need Number: DOM-2025-0051

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Extend two new 230 kV lines from New Post to Emy.

Add two new 230 kV breakers at New Post substation to accommodate the new lines.

Cut two 230 kV lines into Emy from the South. The lines cut will be future Lines #2404 (Tributary – New Post) and #2372 (Kraken – New Post).

Estimated Project Cost: \$26M (Total)

Transmission Line – \$6M

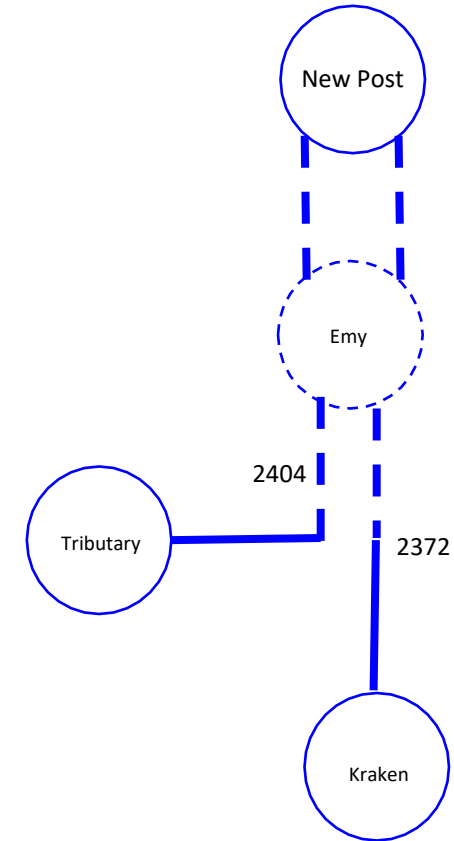
230kV Substation – \$20M

Supplemental Project ID: s4029

Projected In-service Date: 05/01/2030

Project Status: Conceptual

Model: 2030 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2023-0031

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

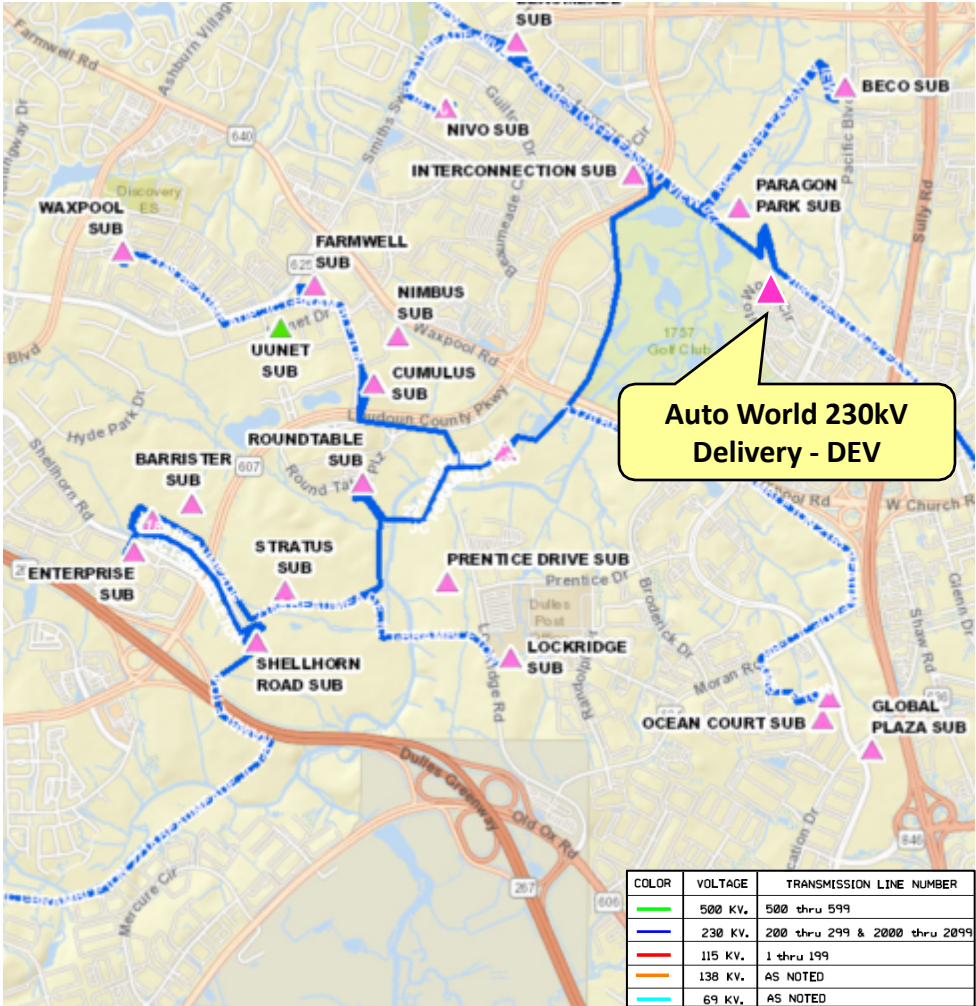
Previously Presented: Need Meeting 05/09/2023; Solution Meeting 04/07/2026

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 (Auto World) to serve a data center campus in Loudoun County with a total load in excess of 100 MW. Requested in-service date is 12/17/2027.

Initial In-Service Load	Projected 2030 Load
Summer: 26.0 MW Winter: 0.0 MW	Summer: 282.6 MW Winter: 282.6 MW



Dominion Transmission Zone: Supplemental Auto World 230kV Delivery - DEV

Need Number: DOM-2023-0031

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Interconnect the new substation by cutting and extending Lines #2081 and #2150 (Paragon Park – Golden – Sterling Park) into the proposed Auto World 230kV Substation. The lines will terminate in a 230kV GIS six-breaker ring arrangement.

Estimated Project Cost: \$31.8 M (Total)

Transmission Line: \$8.3 M

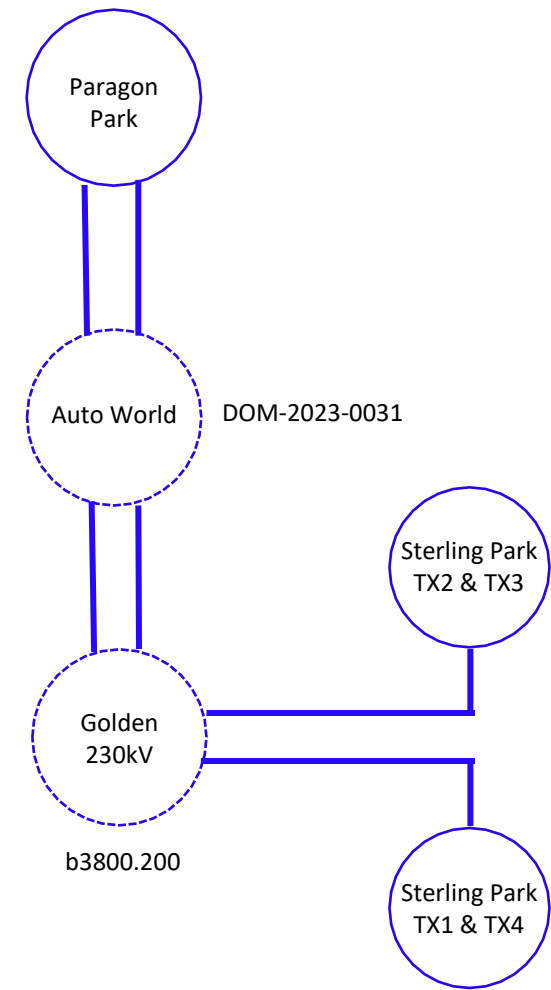
230kV Substation: \$23.5 M (Excess facilities for the GIS station will be paid by the customer)

Supplemental Project ID: s4030

Projected In-service Date: 12/17/2027

Project Status: Conceptual

Model: 2030 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2024-0016

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: Need Meeting 04/02/2024; Solution Meeting 04/07/2026

Project Driver: Customer Service

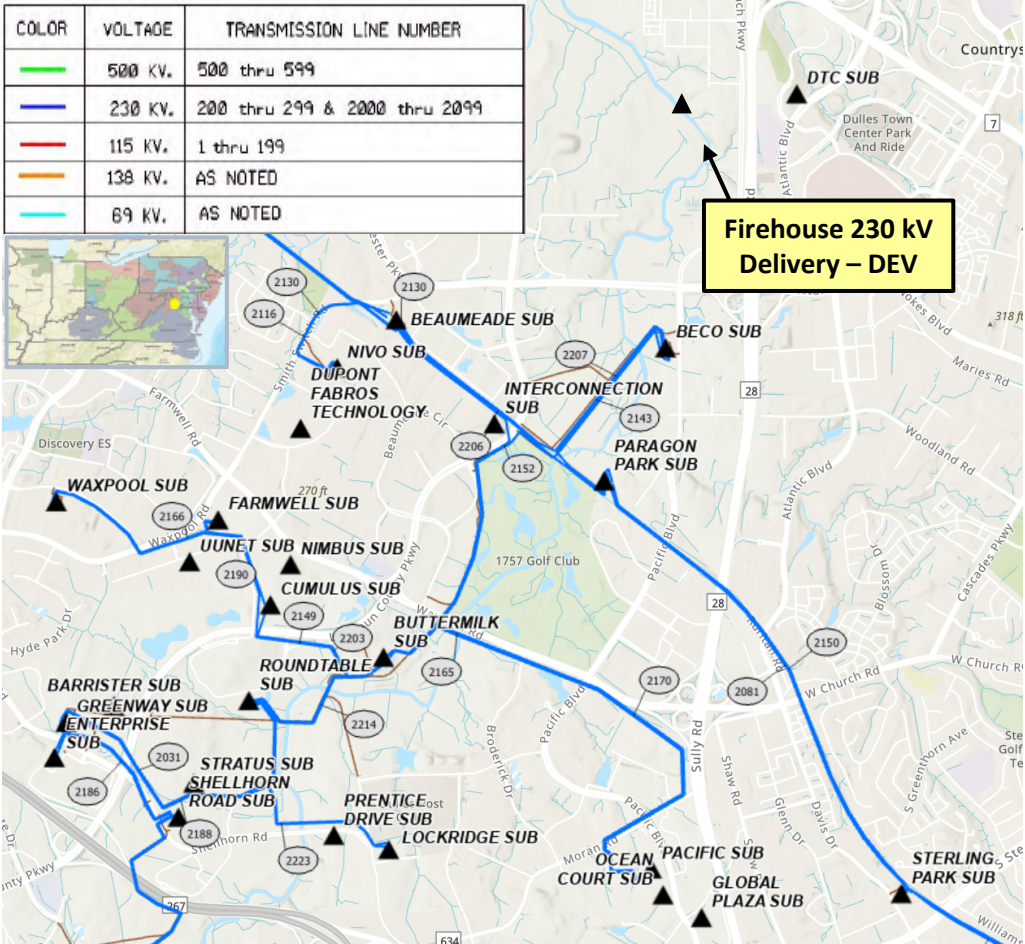
Specific Assumption References:

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 (Firehouse) to serve a data center complex in Loudoun County with a total load in excess of 100 MW. Requested in-service date is 12/31/2030.

Initial In-Service Load	Projected 2030 Load
Summer: 209 MW Winter: 160 MW	Summer: 234 MW Winter: 234 MW



Dominion Transmission Zone: Supplemental Firehouse 230kV Delivery - DEV

Need Number: DOM-2024-0016

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Construct new Firehouse Substation to accommodate a 230kV ring bus with an ultimate configuration of four (4) breakers, with all breakers initially installed.

Cut and extend existing Line #2207 (Paragon - Beco) and terminate into the new substation.

Estimated Project Cost: \$64.3 M

Transmission Line: \$23.6 M

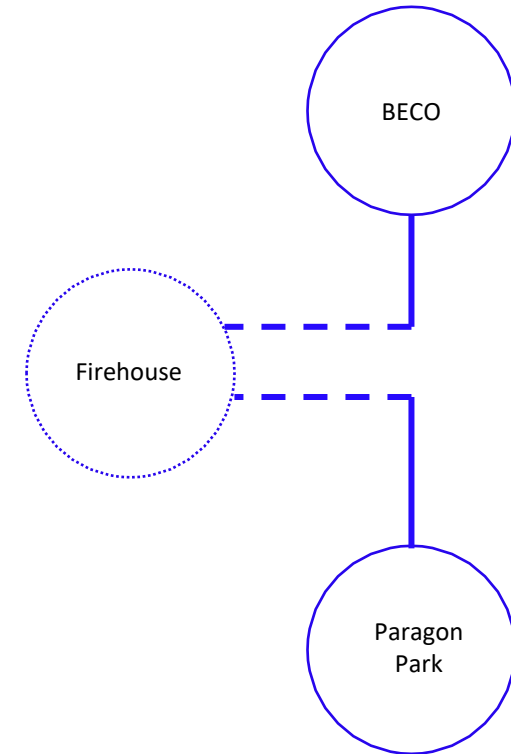
230kV Substation: \$40.7 M

Supplemental Project ID: s4031

Projected In-service Date: 12/31/2030

Project Status: Engineering

Model: 2030 RTEP



Dominion Transmission Zone: Supplemental Operational Flexibility and Efficiency

Need Number: DOM-2026-0022

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: Need Meeting 05/08/2026; Solution Meeting 06/02/2026

Project Driver: Operational Flexibility and Efficiency

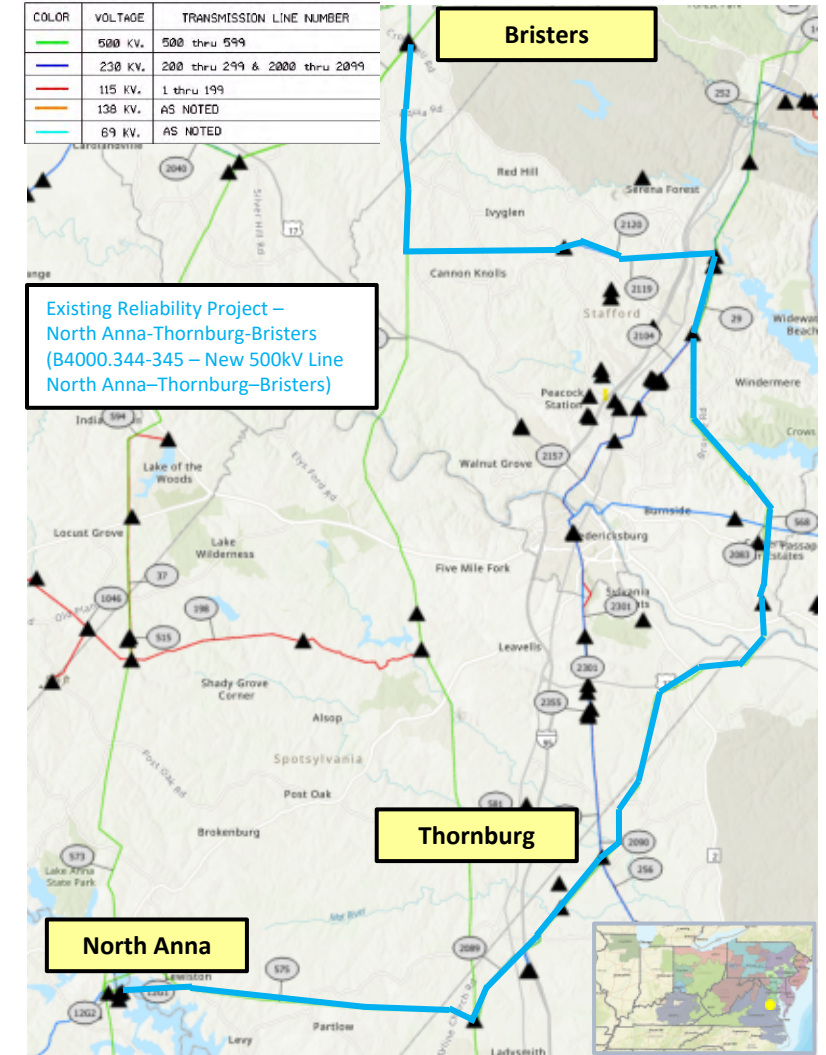
Specific Assumption References:

See details on Operational Flexibility and Efficiency in Dominion's Planning Assumptions presented in December 2025.

Problem Statement:

The North Anna to Thornburg to Bristers (formerly Kraken Loop) corridor is experiencing significant growth driven by large scale data center development. To date, at least ten new Delivery Point ("DP") requests to serve data center load in the corridor have been submitted, in addition to existing data center load in the vicinity from Elmont to Fredericksburg. These new DPs are currently in various stages of evaluation and development, with a total requested load approaching 3000 MW.

On the Dominion system, 500 kV transmission lines are reserved for bulk power transfers while 230 kV facilities (and below) are used to directly serve load. Additional facilities to accommodate load-serving needs and future reinforcements associated with the significant data center growth in the corridor will be required.



Dominion Transmission Zone: Supplemental Install 230 kV Conductor on North Anna to Bristers Structures

Need Number: DOM-2026-0022

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution

- Approved baseline projects **PJM b4000.344 and b4000.345** will build a 500kV line from North Anna - Thornburg and Thornburg - Bristers. The new 500kV line will be constructed using 5/2 monopoles.
- Install 230kV conductor rated at 1573 MVA from North Anna to Bristers, bypassing Thornburg.
- The 230 kV line will be utilized to serve approximately 3 GW of requested load in the immediate transmission corridor, and the termination points will be presented with the associated requests.

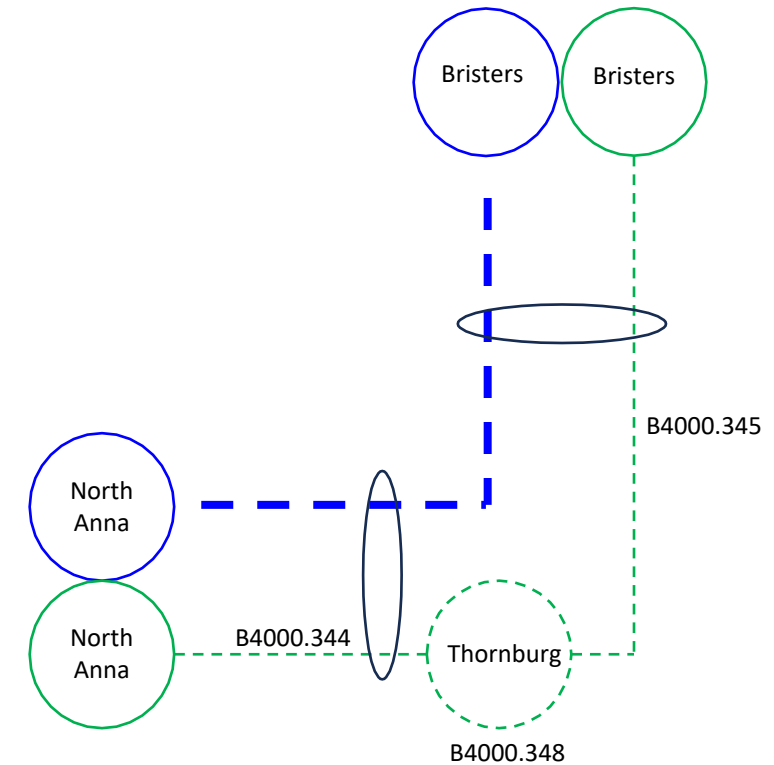
Estimated Cost: Transmission: \$33.75 M

Supplemental Project ID: s4032

Projected In-Service Date: Q4 2030

Project Status: Engineering

Model: 2029 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0031

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Process Stage: Need Meeting 01/06/2026; Solution Meeting 07/07/2026

Project Driver: Customer Service

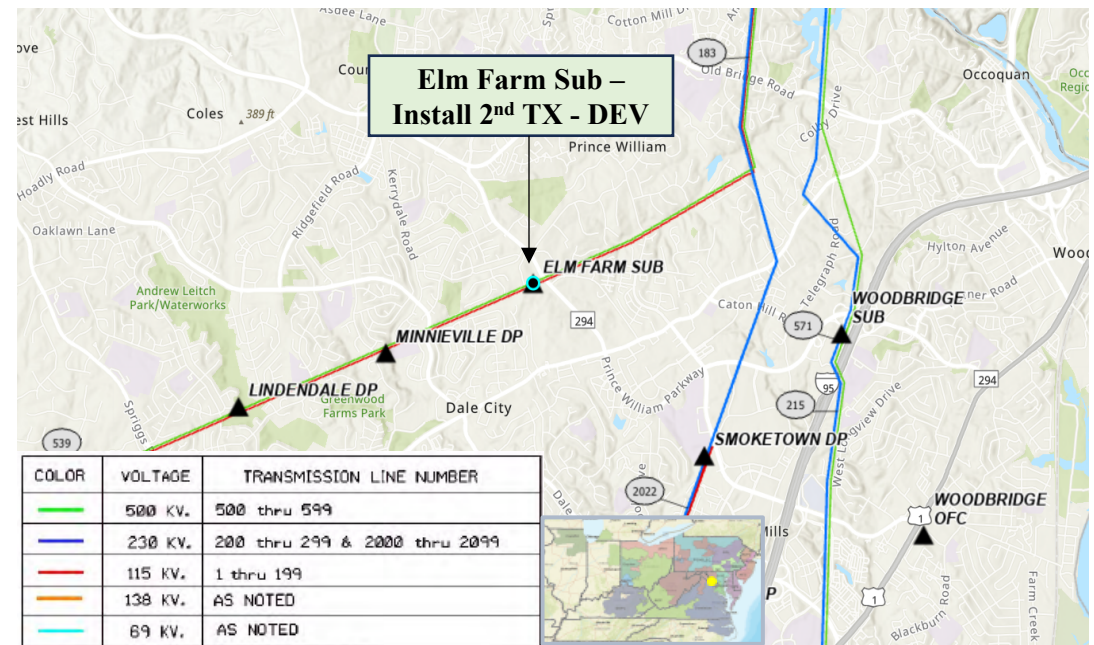
Specific Assumption References:

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 second transformer (TX#2) at Elm Farm Substation in Prince William County, VA. This upgrade is required to address non-data center load growth that is expected to exceed the capacity of the existing transformer. The substation has a total expected load of 69 MW.

Expected in-service date is December 31, 2027.



Dominion Transmission Zone: Supplemental Elm Farm 230 kV Delivery – DEV

Need Number: DOM-2025-0031

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Install one (1) 1200 Amp, 25kAIC circuit switcher and associated equipment to facilitate installation of a second 56 MVA, 115/34.5 kV transformer.

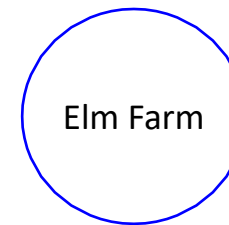
Estimated Project Cost: \$1.3M

Supplemental Project ID: s4033

Projected In-Service Date: 12/31/2027

Project Status: Engineering

Model: 2024 Series RTEP 2029



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0054

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: Need Meeting 10/8/2025; Solution Meeting 1/6/2026

Project Driver: Customer Service

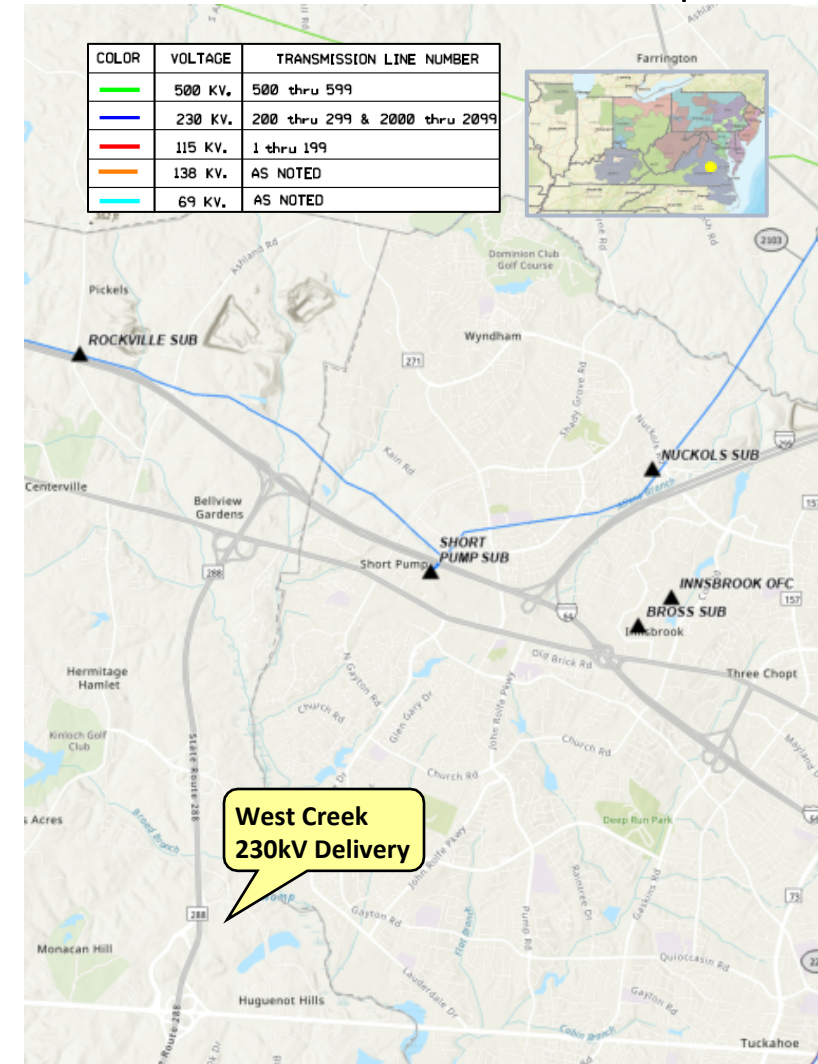
Specific Assumption References:

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

Problem Statement:

DEV has submitted a DP Request for a new substation (West Creek) to serve an industrial load in Goochland County with a total expected load of 100 MW.

The requested in-service date is 1/2/2029.



Dominion Transmission Zone: Supplemental West Creek 230kV Delivery - DEV

Need Number: DOM-2025-0054

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Cut existing 230kV Line 2009 between Short Pump and Rockville and extend a new 230kV double circuit loop in and out of West Creek Substation.

West Creek 230 kV Substation will be constructed with a four (4) 230 kV breaker ring-bus configuration.

Estimated Project Cost: \$35M (Total)

Transmission Line – \$20M

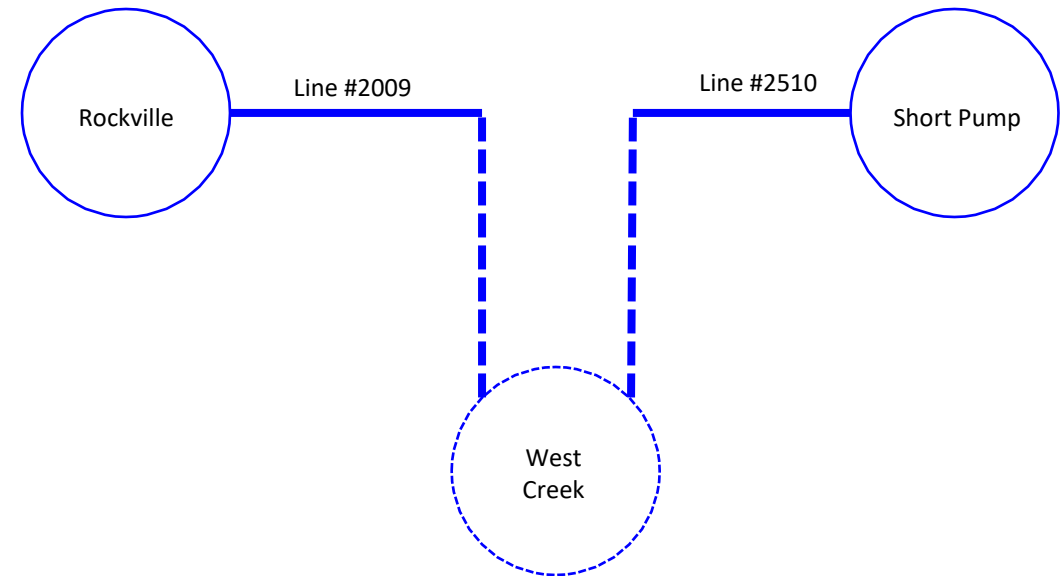
230kV Substation – \$15M

Supplemental Project ID: s3992

Projected In-service Date: 7/26/2028

Project Status: Planning

Model: 2029 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0070

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

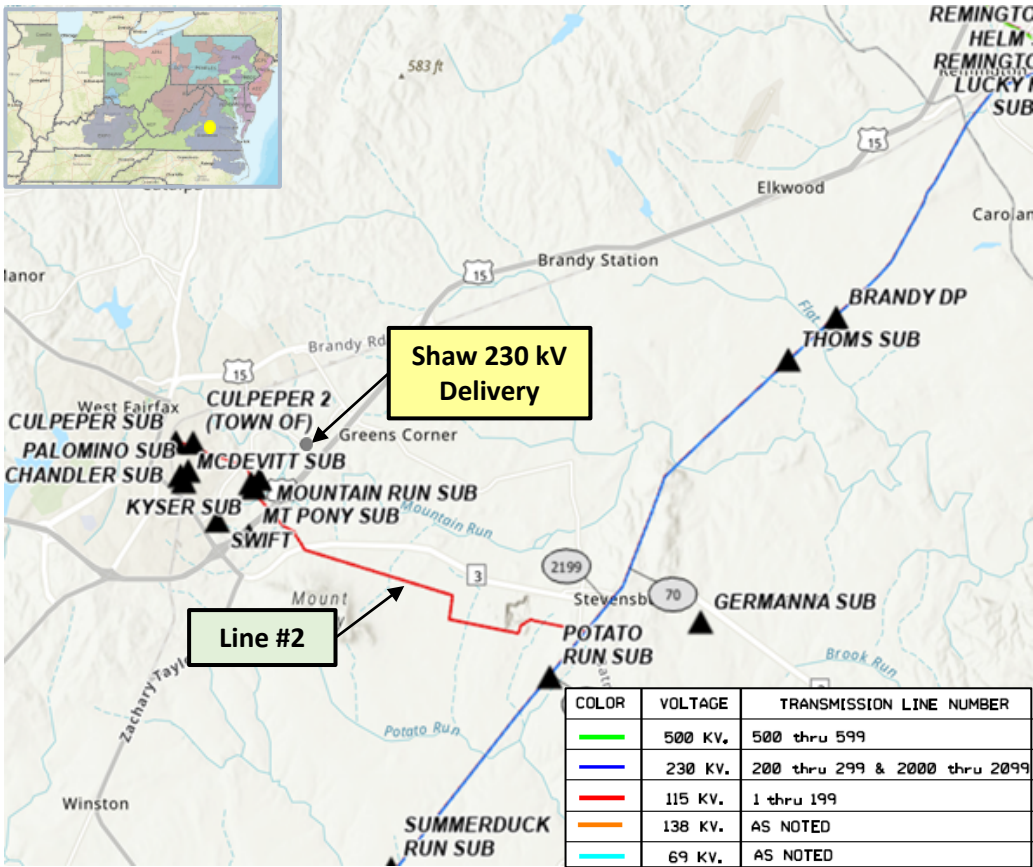
Previously Presented: Need Meeting 10/08/2025; Solution Meeting 01/06/2026

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:
REC has submitted a DP request for a new 230 kV delivery point (Shaw) to serve a data center customer in Culpeper County, VA with a total expected load of 300 MW.

Expected target date is 05/01/2028.



Dominion Transmission Zone: Supplemental Shaw 230kV Delivery - REC

Need Number: DOM-2025-0070

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Cut and extend Line #2276 (Kyser-Remington) line approximately 0.6 miles on double-circuit 230 kV structures to the new Shaw substation.

The lines will terminate in a 230 kV ring bus configured for an ultimate arrangement of six breakers, with four breakers installed initially. This will create creating a Remington-Shaw line and a Kyser-Shaw line.

Estimated Project Cost: \$32M (Total)

Transmission Line – \$9M

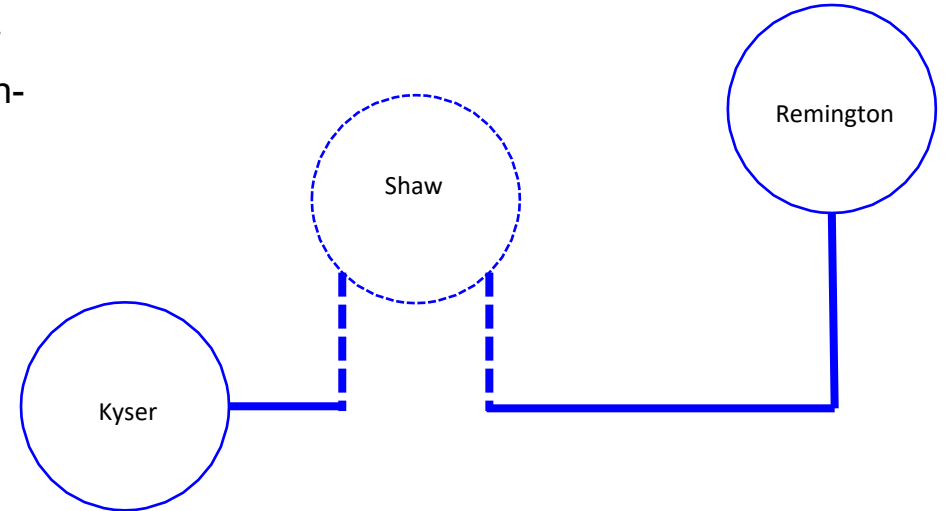
230kV Substation – \$23M

Supplemental Project ID: s3988

Projected In-service Date: 5/1/2028

Project Status: Planning

Model: 2030 RTEP



Dominion Transmission Zone: Supplemental Do No Harm Analysis

Need Number: DOM-2025-0070-DNH

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: DNH Solution Meeting 06/02/2026

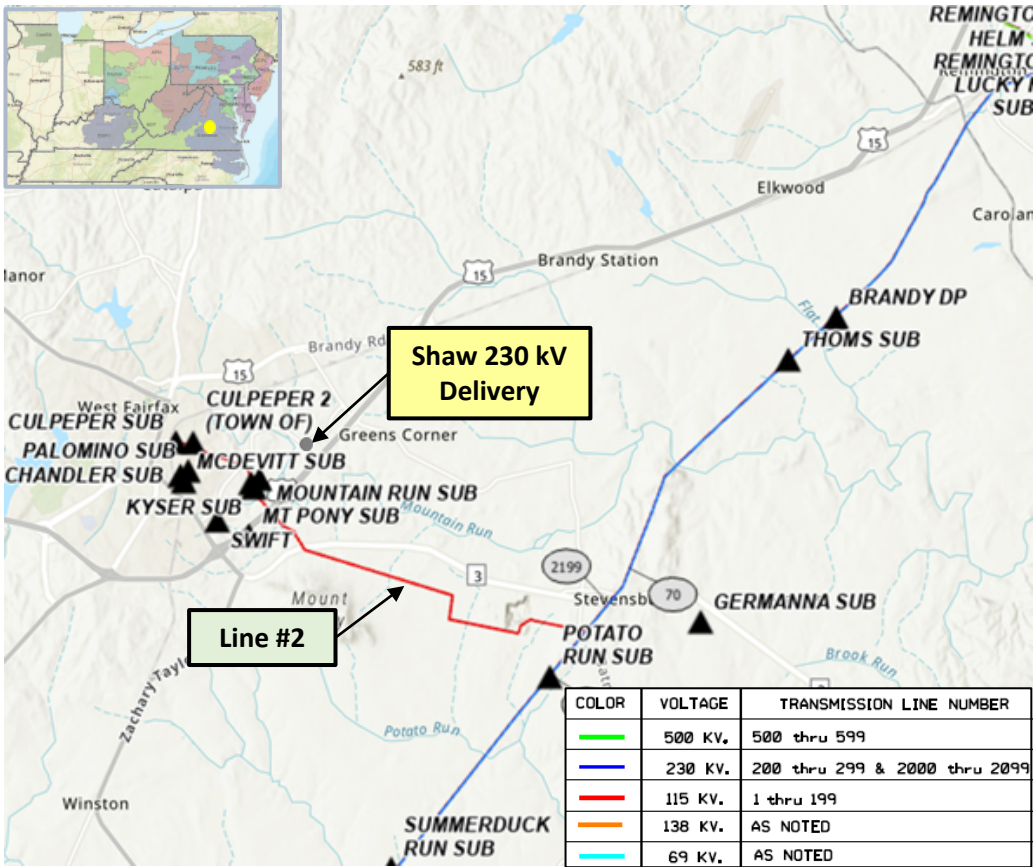
Project Driver: DNH Analysis – Shaw

Specific Assumption References:

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

Problem Statement:

Interconnecting the new Shaw delivery point in Culpeper County, presented as DOM-2025-0070 at the 01/06/2026 TEAC Meeting, introduces low voltage violations as identified in the RTEP 2029 DNH case for the N-1-1 loss of lines #2276 (Shaw - Remington) and #2439 (Remington-McDevitt). This is a violation of Dominion’s Transmission Planning Criteria.



Dominion Transmission Zone: Supplemental Do No Harm Analysis

Need Number: DOM-2025-0070-DNH

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Install a 150 MVar Capacitor Bank at Shaw substation

Estimated Project Cost: \$4M

Supplemental Project ID: s3988.3

Projected In-service Date: 5/1/2028

Project Status: Planning

Model: 2029 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0072

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: Need Meeting 10/08/2025; Solution Meeting 01/06/2026

Project Driver: Customer Service

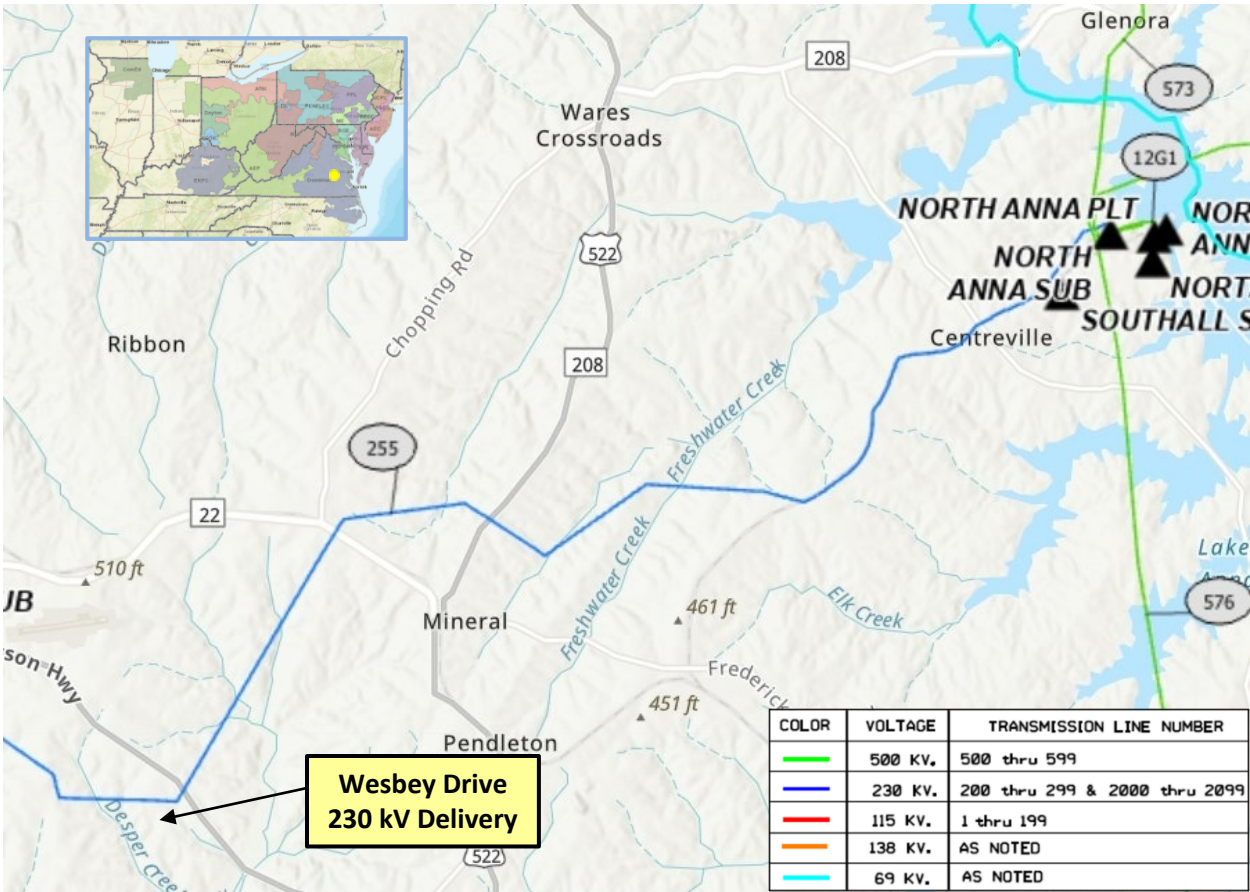
Specific Assumption References:

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

Problem Statement:

REC has submitted a DP request for a new 230 kV delivery point (Wesbey Drive) to serve a data center customer in Louisa County, VA with a total expected load of 292 MW.

Expected target date is 03/01/2029.



Dominion Transmission Zone: Supplemental Wesbey Drive 230kV Delivery - REC

Need Number: DOM-2025-0072

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Connect a new Wesbey Drive substation by extending a new double circuit 230kV feed from Foxbrook Lane substation.

Lines to terminate in a 230kV six-breaker ring arrangement.

Estimated Project Cost: \$21M (Total)

Transmission Line – \$1M

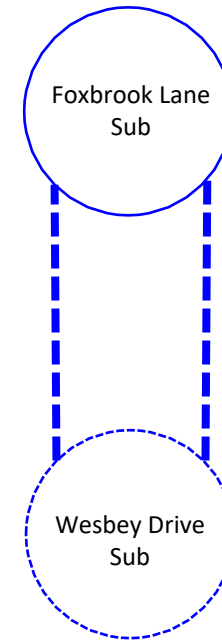
230kV Substation – \$20M

Supplemental Project ID: s3989

Projected In-service Date: 3/01/2029

Project Status: Planning

Model: 2030 RTEP



Dominion Transmission Zone: Supplemental Do No Harm Analysis

Need Number: DOM-2025-0072 DNH

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: DNH Solution Meeting 03/10/2026

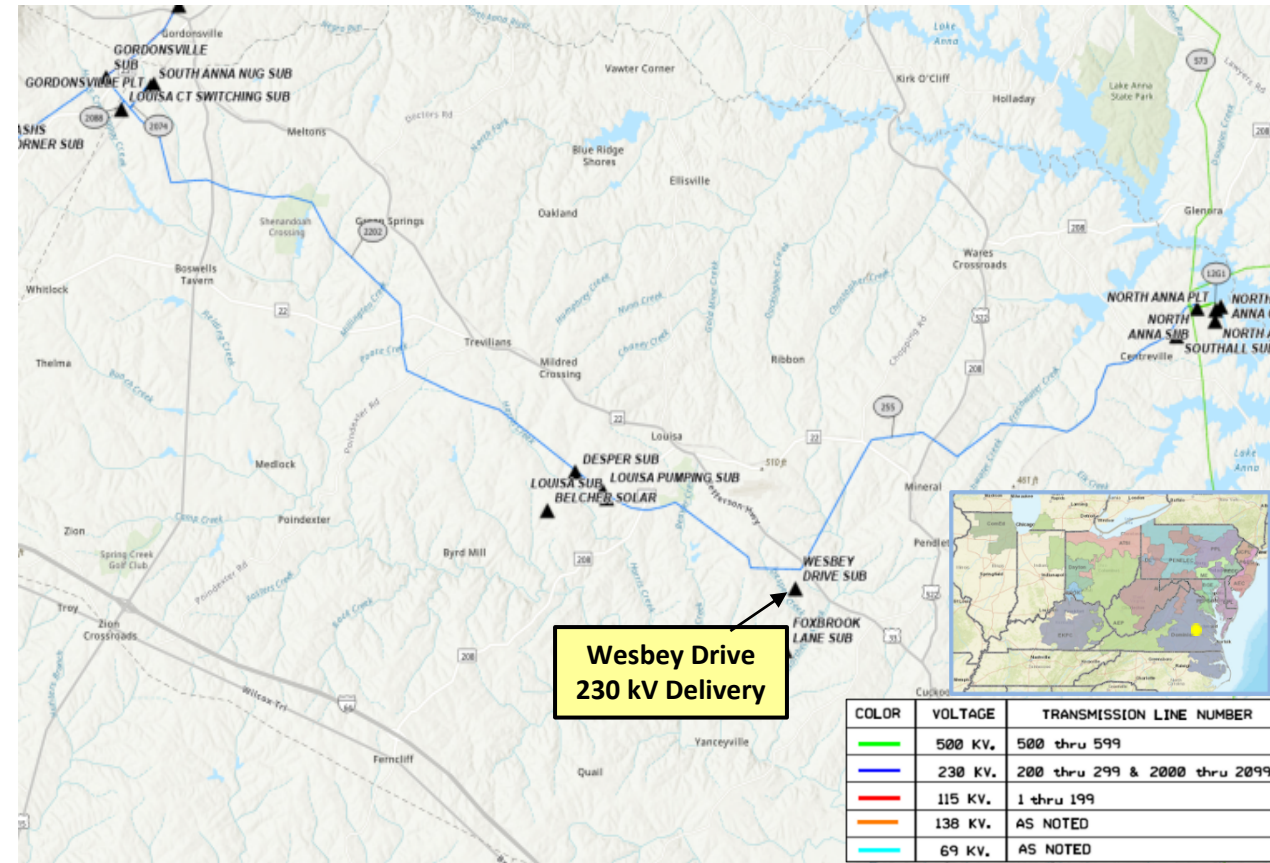
Project Driver: DNH Analysis - Wesby Drive

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 new Wesby Drive delivery point has been requested in the Louisa Area near Foxbrook Lane substation. This new load introduces a 300MW load drop violation as identified in the RTEP 2029 DNH case for the N-1-1 loss of lines #2304 (Foxbrook Lane-Southall) and #2298 (Fox-brook Lane- Desper). This is a violation of DE Planning Criteria.



Dominion Transmission Zone: Supplemental Do No Harm Analysis

Need Number: DOM-2025-0072 DNH

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Wreck and rebuild the existing transmission lines #2088 (Gordonsville - Louisa CT), #2074 (Louisa CT – South Anna), #2202 (South Anna-Desper), #2298 (Desper – Foxbrook Lane) for approximately 19 miles with a double circuit 230kV structures.

The new second circuit will be connected between Gordonsville and Wesbey Drive substations. This new line will share the double circuit structures with lines #2088, #2074, #2202, and #2298.

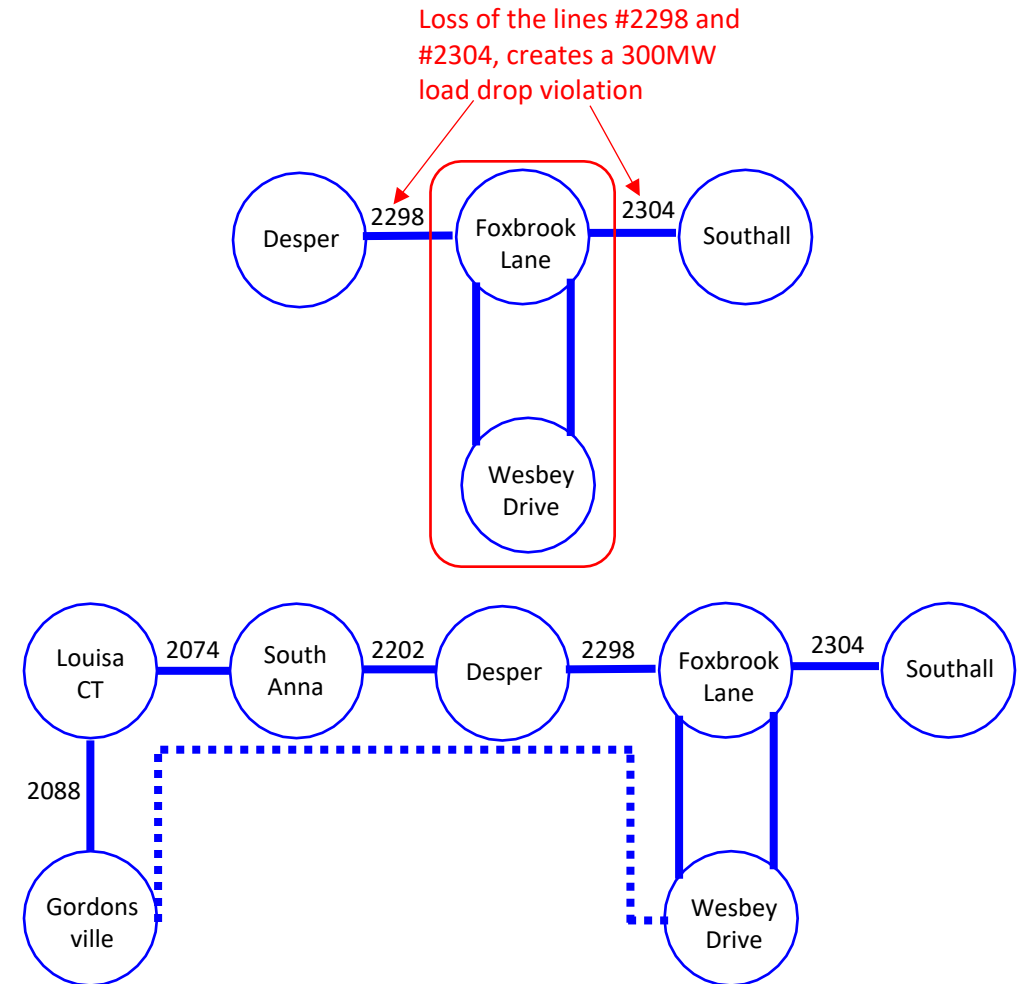
Estimated Project Cost: \$115M

Supplemental Project ID: s3989.3

Projected In-service Date: 03/01/2029

Project Status: Planning

Model: 2029 RTEP



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

Need Number: DOM-2025-0026

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: Need Meeting 05/06/2025; Solution Meeting 07/08/2025; Solution Meeting Update 09/09/2025

Project Driver: Equipment Material Condition, Performance Risk

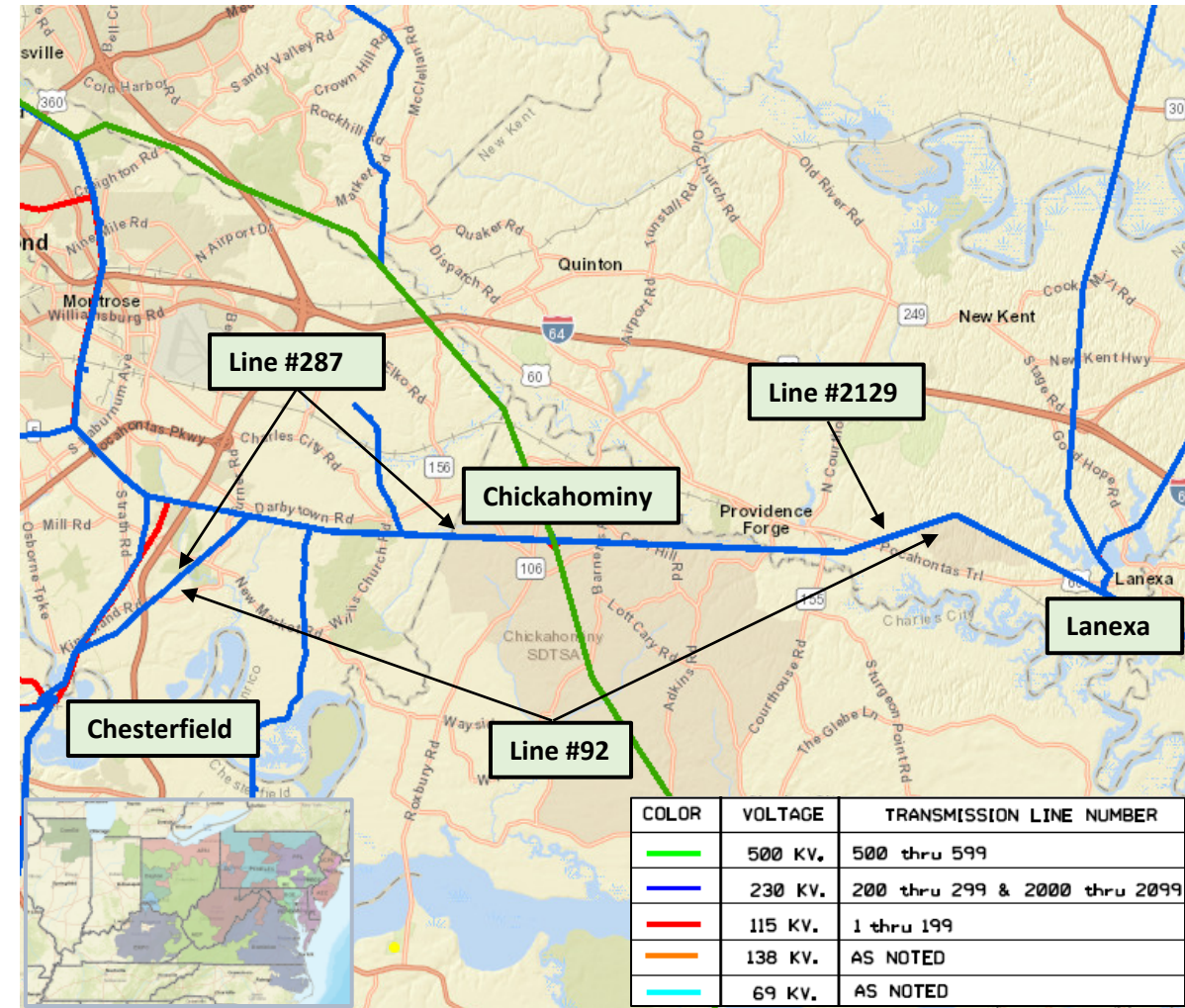
Specific Assumption References:

See details on Equipment Material Condition, Performance and Risk in Dominion's Planning Assumptions presented in December 2024.

Problem Statement:

Dominion Energy has identified a need to replace approximately Line #92 extends 30 miles from Chesterfield to Lanexa; Line #287 extends 14.6 miles from Chesterfield to Chickahominy; and Line #2129 extends 14.2 miles from Chickahominy to Lanexa to new 230kV standards based on the Company's End of Life criteria.

- Lines #92 and #287 lines are constructed on double circuit 3 pole wood H-frame structures in the years 1952 and 1966, respectively. Both lines have ACSR conductor and 3/8" steel static.
- Industry guidelines indicate equipment life for steel structures is 40-60 years, wood structures is 35-55 years, conductor and connectors are 40-60 years, and porcelain insulators are 50 years.
- Removal of line pair #92 and #287 and of line pair #92 and #2129 cause a Generator Deliverability violation on line #568 (Ladysmith to Possum Point) and loses the generation at Providence Forge Substation. Line #92 has direct connected loads at the 115kV tap at Turner substation and at the Providence Forge substation justifying the need to rebuild it. Besides, lines #92 and #287 provide outlets for the generation at Chesterfield.



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

Need Number: DOM-2025-0026

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Rebuild approximately 30 miles of Line 92 from Chesterfield to Lanexa to current 230kV standards but will operate at 115 kV. Rebuild approximately 14.6 miles Line 287 from Chesterfield to Chickahominy and 14.2 miles Line 2129 from Chickahominy to Lanexa to current 230kV standards. The minimum normal summer rating of this line will be 1573 MVA.

Reconductor approximately 1.5 miles of Line 217 from Chesterfield with minimum summer normal rating of 1573 MVA.

Rebuild approximately 0.66 miles Idle Line I-92 to 230kV standard.

Upgrade all terminal equipment to 4000 Amps for 230kV and 2000Amps for 115kV.

Estimated Project Cost: \$160M

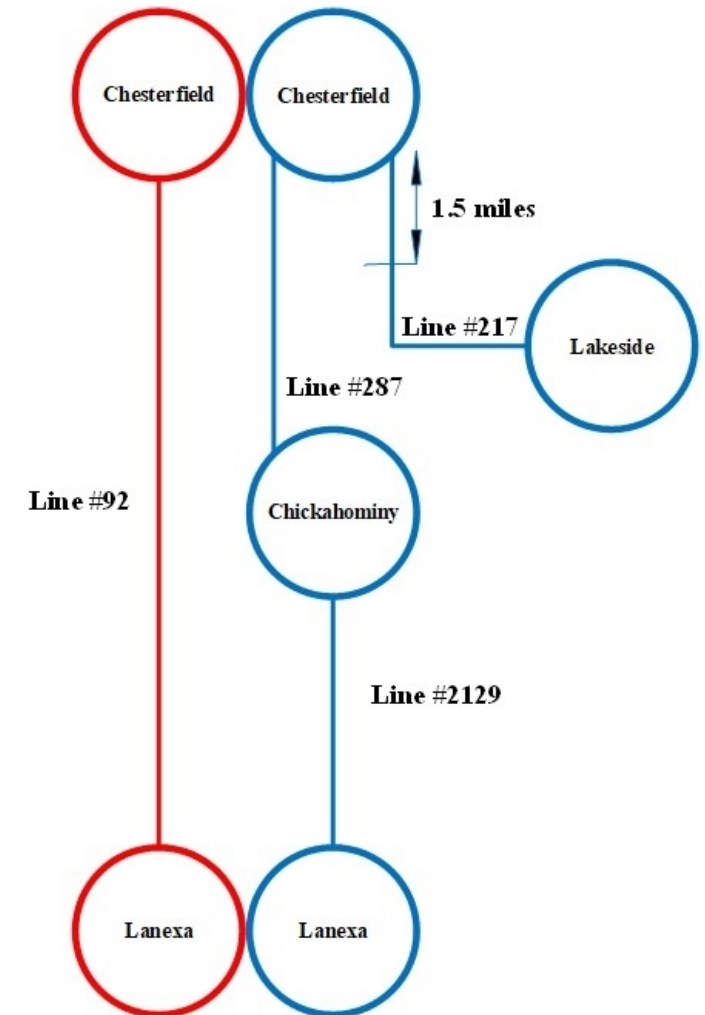
Transmission Line: \$157.3M, Substation: \$2.7M

Supplemental Project ID: s3915

Project In-service Date: 12/31/2028

Project Status: Engineering

Model: 2029 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2025-0022

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: Need Meeting 9/18/2025; Solution Meeting 05/14/2026

Project Driver: Customer Service

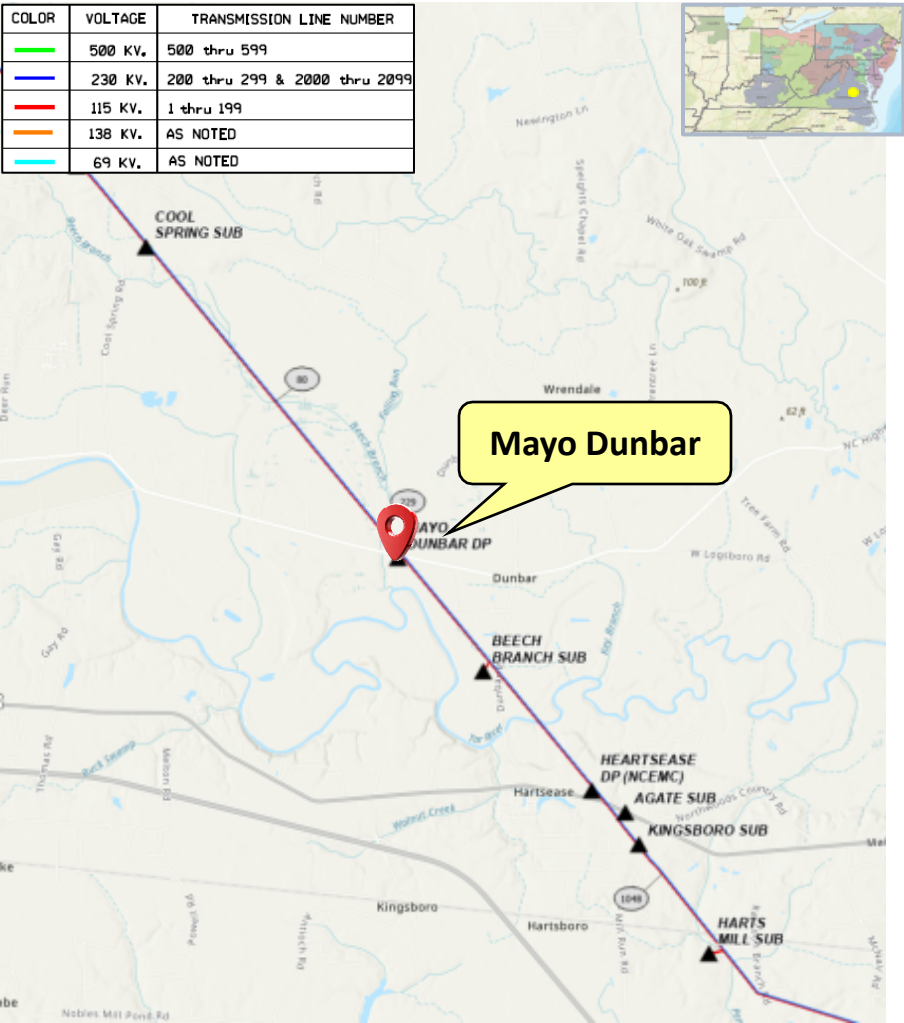
Specific Assumption References:

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

Problem Statement:

Edgecombe Martin County Electric Membership Corporation (EMC-EMC) has submitted a delivery point modification to move Mayo Dunbar DP station to the adjacent lot for flood mitigation. Mayo Dunbar DP is served by a tap on the 115kV Line #80. EMC-EMC would like to move the 115kV tap location one span over on Line #80 to alleviate interference with new station exit feeders.

Initial In-Service Load	Projected 2030 Load
Summer: 7.6 MW Winter: 7.9 MW	Summer: 8.2 MW Winter: 9.2 MW



Dominion Transmission Zone: Supplemental 115 kV Mayo Dunbar DP Modification – EMC-EMC

Need Number: DOM-2025-0022

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Build a T-tap on the 115kV Line #80 (Beech Branch – Cool Springs near structures #80/71 and #80/72. Install a switch on the Mayo Dunbar tap. The existing switches 8026 and 8029 are sufficient and remain unchanged. Customer is responsible for the cost associated with moving the tap.



Estimated Project Cost: \$1.9M

Supplemental Project ID: s3913

Project In-service Date: 5/31/2026

Project Status: Construction

Model: 2029 RTEP

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

Need Number: DOM-2025-0091

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: Need Meeting 03/18/2026; Solution Meeting 05/14/2026

Project Driver: Equipment Material Condition, Performance Risk

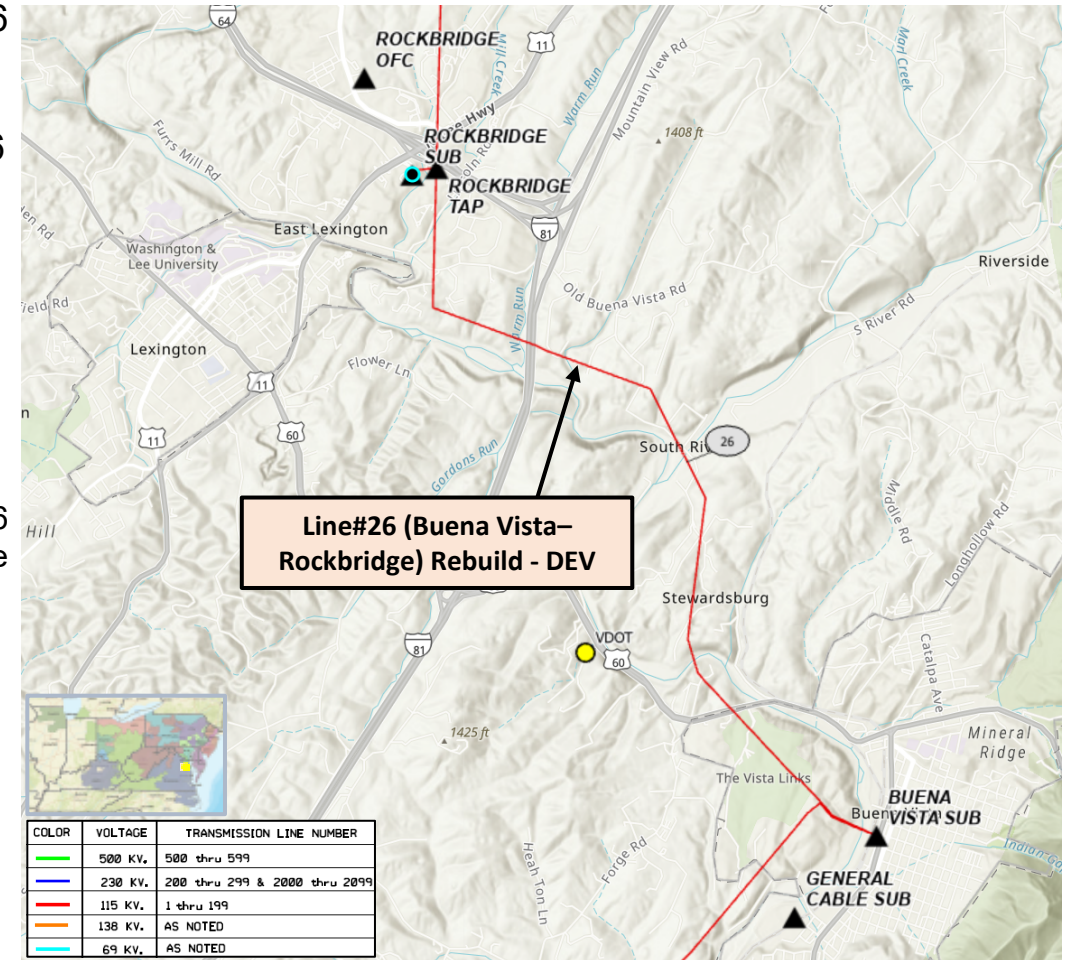
Specific Assumption References:

See details on Equipment Material Condition, Performance and Risk in Dominion's Planning Assumptions presented in December 2025.

Problem Statement:

Dominion Energy has identified a need to replace approximately 6.36 miles of 115kV Line #26 (Buena Vista to Rockbridge) to new 115kV standard based on the Company's End of Life criteria.

- Line #26 extends 21.75 miles from Lexington to Balcony Falls. The 6.36-mile single circuit segment of line #26 between Rockbridge and Buena Vista are wood H-frame structures which are approaching the end of their useful service life. Over 20% of the structures have been replaced due to woodpecker damage, rot, or other structural deficiencies.
- Industry guidelines indicate equipment life for wood structures is 35 - 55 years, conductor and connectors 40 - 60 years, and porcelain insulators 50 years. This line needs to be rebuilt to current standards based on Dominion's End of Life Criteria.



Dominion Transmission Zone: Supplemental 115 kV Line #26 (Buena Vista-Rockbridge) EOL Rebuild

Need Number: DOM-2025-0091

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Rebuild approximately 6.36 miles single circuit of line#26 between Rockbridge to Buena Vista substation to current 115kV standards with a minimum summer rating of 393 MVA. Replace the line Switch with 2000A switch and associated equipment to current 115kV standards.

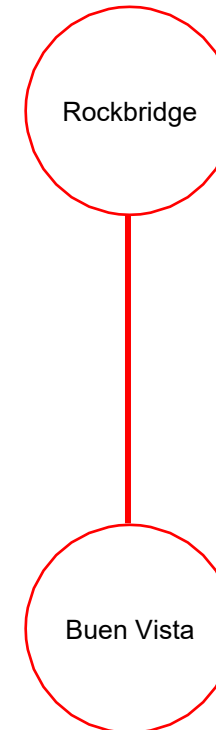
Estimated Project Cost: \$15M

Supplemental Project ID: s3911

Expected in-service date: 12/31/2027

Project Status: Engineering

Model: 2029 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2023-0023

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: Need Meeting 03/07/2023; Solution Meeting 9/9/2025

Project Driver: Customer Service

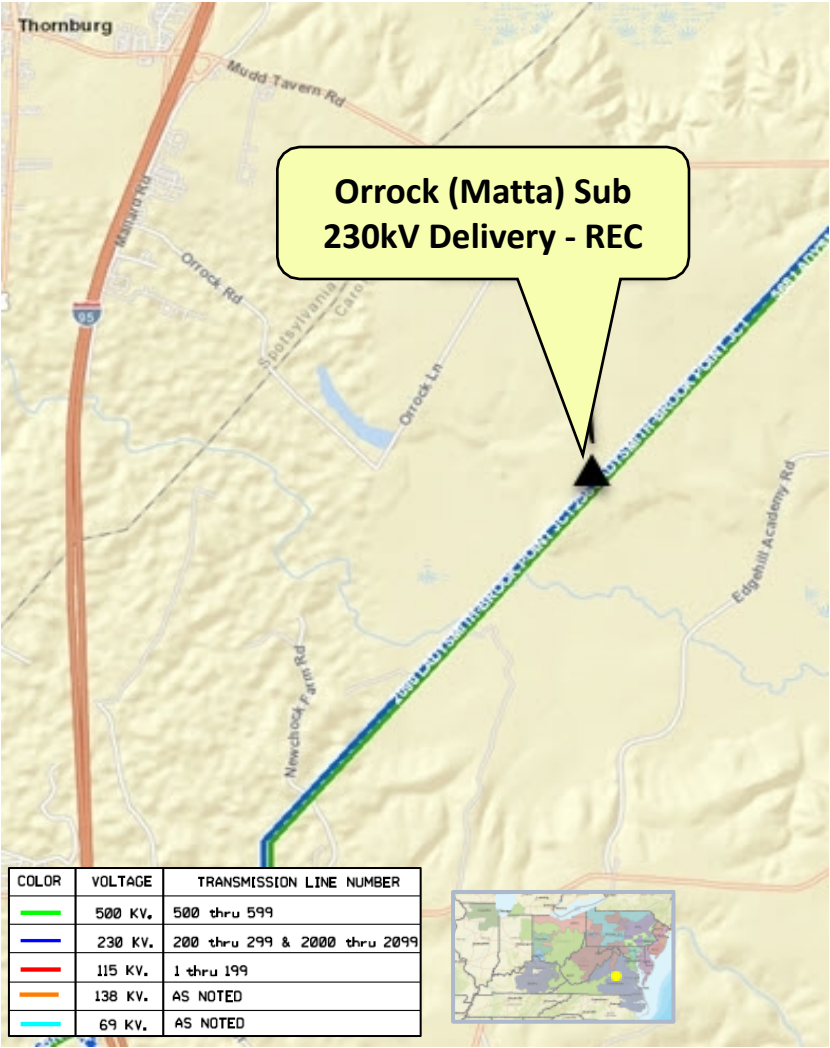
Specific Assumption References:

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 (Matta)) to serve a data center in Caroline County with a total load in excess of 100 MW. The requested in-service date is 12/01/2026.

Initial In-Service Load	Projected 2031 Load
Winter: 10.0 MW	Summer: 300 MW



Dominion Transmission Zone: Supplemental Orrock (Matta) 230kV Delivery - DEV

Need Number: DOM-2023-0023

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Tap Line #256 (Ladysmith CT – Thornburg) and Line #2090 (Ladysmith CT – Thornburg) and extend four 230kV circuits to Orrock (Matta) Sub.

Estimated Project Cost: \$25.5 M (Total)

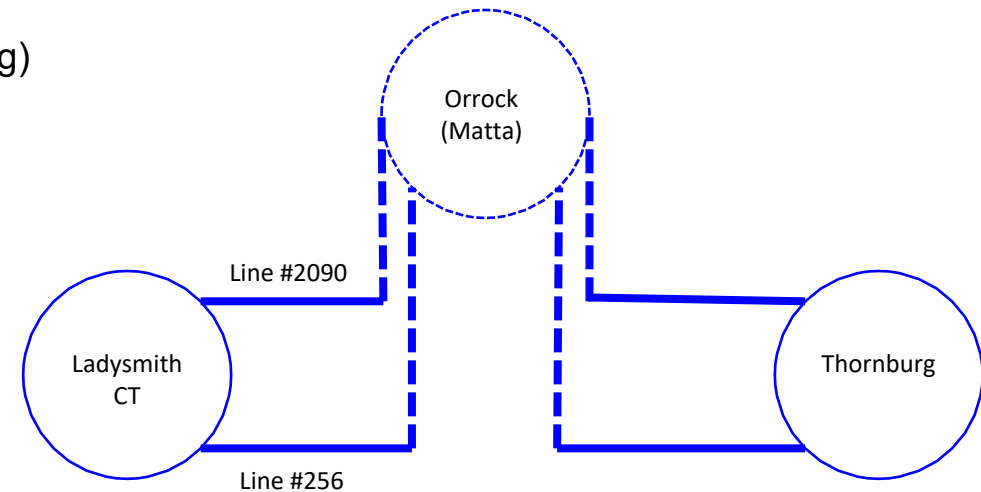
Transmission Line	\$7.4M
230kV Substation	\$18.1M

Supplemental Project ID: s3990

Projected In-service Date: 11/15/2026

Project Status: Engineering

Model: 2030 RTEP



Dominion Transmission Zone: Supplemental Do No Harm Analysis

Need Number: DOM-2023-0023 - DNH

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: DNH Solution Meeting 07/07/2026

Project Driver: DNH Analysis – Orrock (fka Matta)

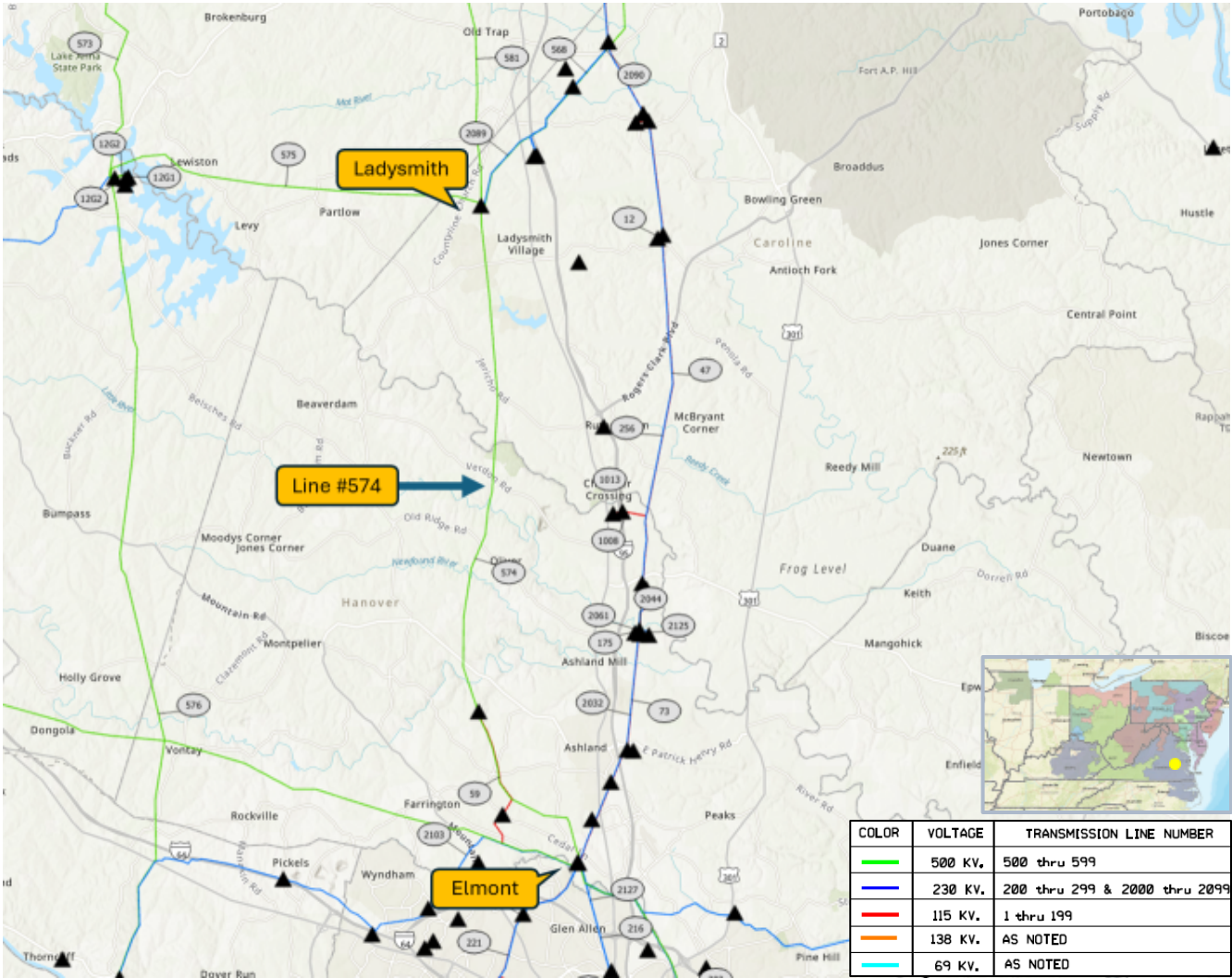
Specific Assumption References:

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

Problem Statement:

PJM has identified a thermal violation on Elmont 500/230 kV TX #2 under N-1 and Generation Deliverability study.

The violations are caused by previously presented supplemental project DOM-2023-0023 in the Dominion Zone.



Dominion Transmission Zone: Supplemental Do No Harm Analysis

Need Number: DOM-2023-0023 - DNH

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

Replace Elmont 500/230 kV TX #2 with new 1440 MVA TX and replace low-side equipment limiting TX rating.

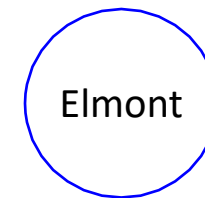
Estimated Project Cost: \$17.5M Substation

Supplemental Project ID: s3990.2

Projected In-service Date: 12/31/2031

Project Status: Conceptual

Model: 2024 Series RTEP 2029



Dominion Transmission Zone: Supplemental Do No Harm Analysis

Need Number: DOM-2023-0002-DNH

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: DNH Solution Meeting 09/09/2025

Project Driver: DNH Analysis – Reed Farm

Specific Assumption References:

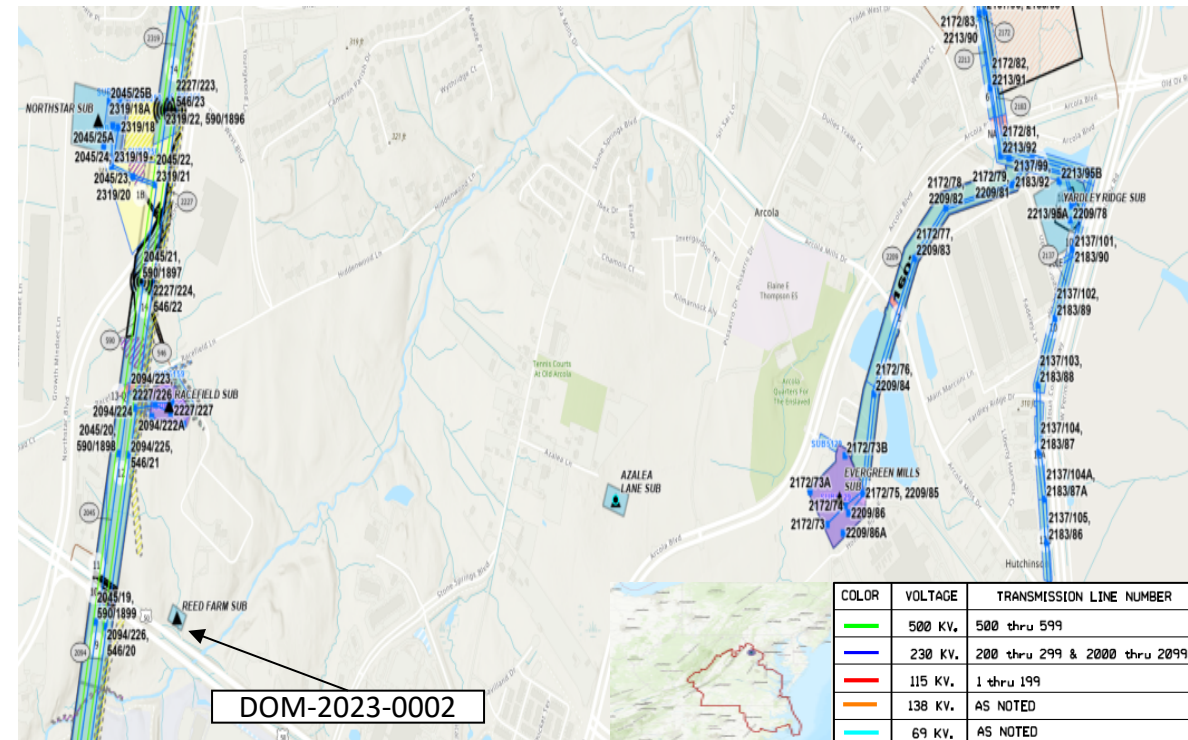
Customer load request will be evaluated per Dominion's Facility Interconnection Requirements Document and Dominion's Transmission Planning Criteria.

Problem Statement:

PJM identified a 300MW N-1-1 load drop violation as part of the 2025 Do No Harm analysis. Racefield and Reed Farm (South Fork) substations are dropped after loss of

- Line #2227 (Brambleton - Racefield)
- Line #2094 (Reed Farm - Loudoun)

The violation is caused by a previously presented Supplemental Project DOM-2023-0002 in the Dominion Zone.



Dominion Transmission Zone: Supplemental Do No Harm Analysis

Need Number: DOM-2023-0002-DNH

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

- Install a new double circuit consisting of two 230kV transmission lines. Terminate both lines between Azalea Lane and Reed Farm (South Fork) substations.
- At Azalea Lane substation, install the remaining two (2) breakers and any associated substation equipment required to build out the six-breaker ring ultimate arrangement.
- At Reed Farm (South Fork) substation, install the remaining two (2) breakers and any associated substation equipment required to build out the six-breaker ring ultimate arrangement.

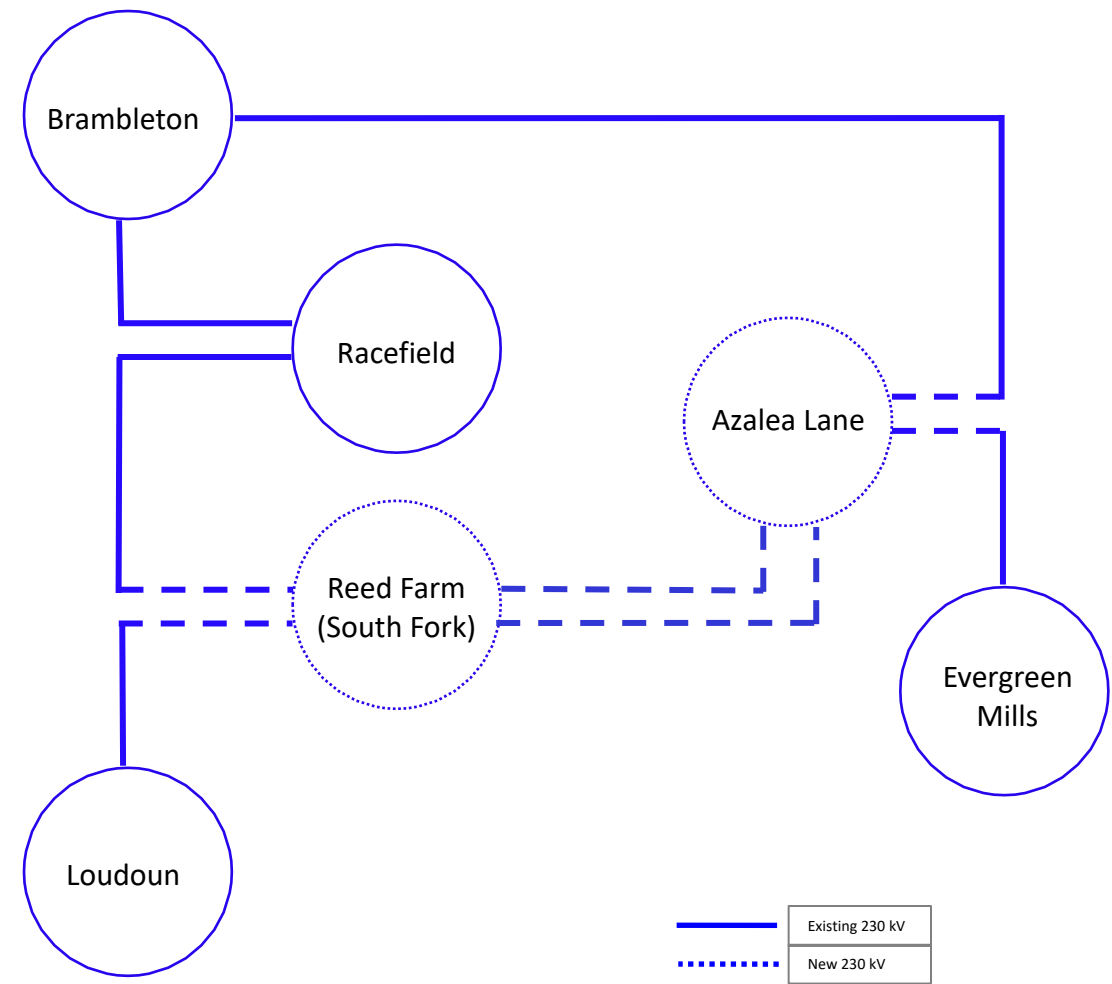
Estimated Project Cost: \$20.0 M

Supplemental Project ID: s3722.3

Projected In-service Date: 12/31/2029

Project Status: Conceptual

Model: 2029 RTEP



Dominion Transmission Zone: Supplemental Customer Load Request

Need Number: DOM-2022-0062

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: Need Meeting 11/06/2024; Solution Meeting 10/08/2025

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 has submitted a DP Request for a new substation (Tropical) to serve a data center campus in Henrico County with a total load in excess of 100MW.

Requested in-service date is Q3 2027.

Initial In-Service Load	Projected 2029 Load
Summer: 45.0 MW Winter: 45.0 MW	Summer: 210.0 MW Winter: 210.0 MW



Dominion Transmission Zone: Supplemental Tropical 230kV Delivery - DEV

Need Number: DOM-2022-0062

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Selected Solution:

- Cut existing 230kV Lines #286 and #2091 in and out of proposed Tropical substation.
- Lines to terminate in a breaker and a half scheme of twelve breakers.
- Customer has asked for redundant feeds.

Estimated Project Cost: \$33.5M

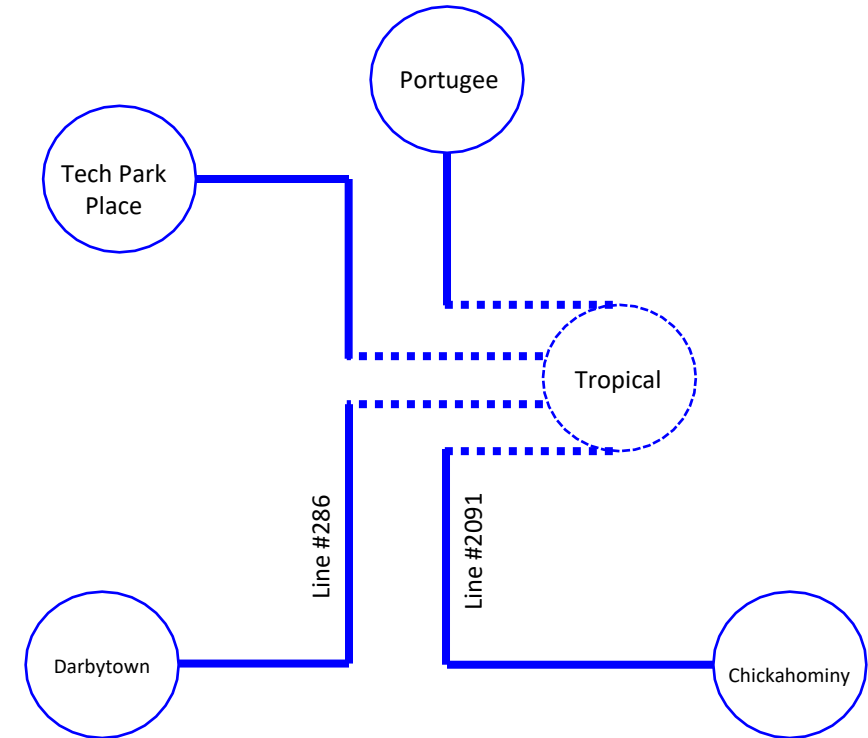
Transmission Lines: \$7.6M; Substation: \$25.9M

Supplemental Project ID: s3862

Projected In-service Date: Q3 2027

Project Status: Engineering

Model: 2030 RTEP



Dominion Transmission Zone: Supplemental Do No Harm Analysis

Need Number: DOM-2022-0062-DNH

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Previously Presented: DNH Solution Meeting 07/07/2026

Project Driver: DNH Analysis - Tropical

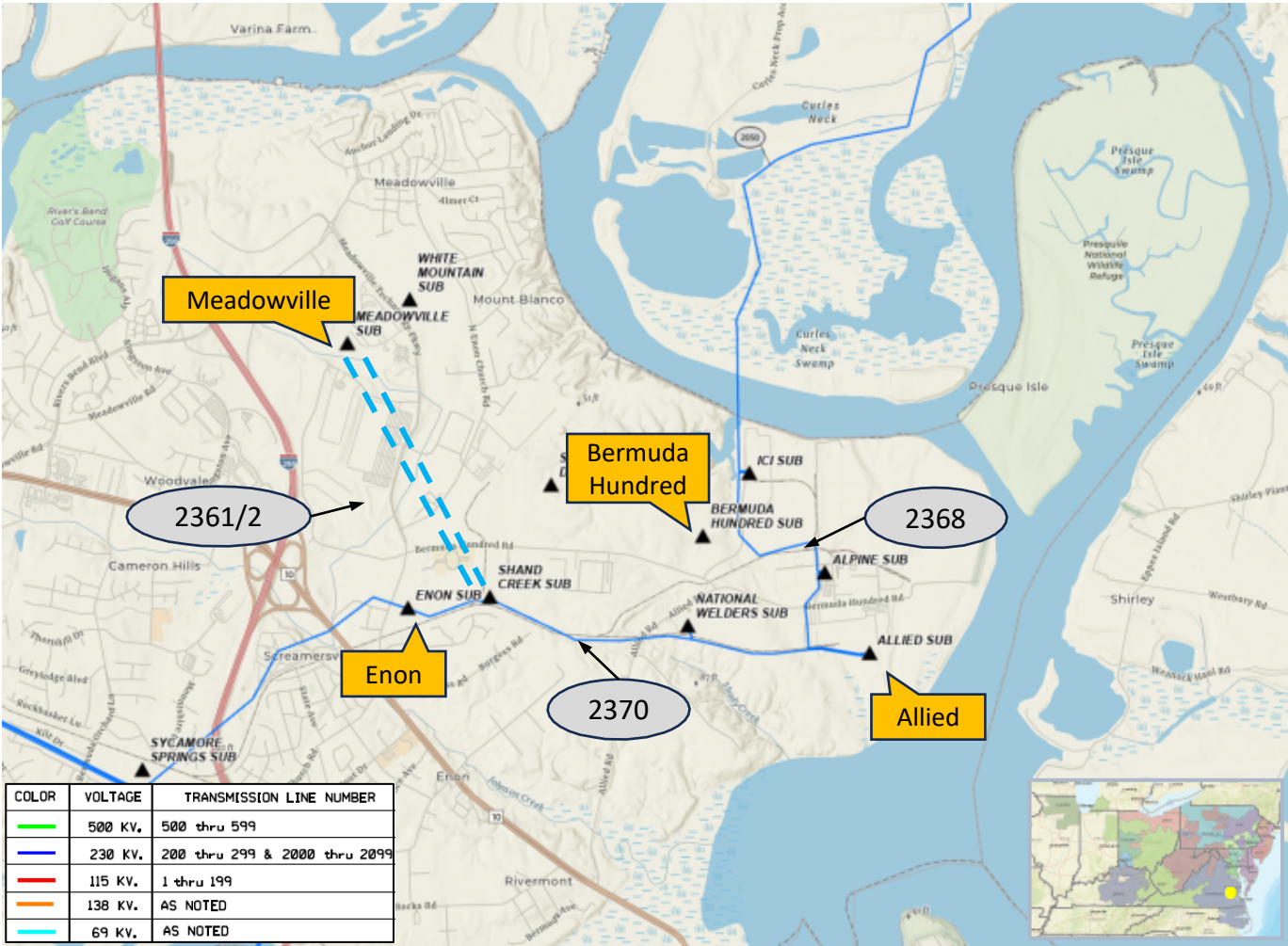
Specific Assumption References:

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

Problem Statement:

PJM has identified several violations with the addition of Tropical substation (DOM-2022-0062). Violations identified:

- Thermal violations, both violations occur under N-1 study.



Dominion Transmission Zone: Supplemental Do No Harm Analysis

Need Number: DOM-2022-0062-DNH

Process Stage: Submission of Supplemental Project for Inclusion in the 2026 Local Plan

Project Driver: Do No Harm Analysis - Tropical

Selected Solution:

- Rebuild 230 kV Line #2368 (Bermuda Hundred - Allied) to current 230 kV standards to achieve a minimum normal summer rating of 1573 MVA. Upgrade substation equipment to 4000 A.
- Rebuild 230 kV Line #2370 (Allied – Shand Creek) to current 230 kV standards to achieve a minimum normal summer rating of 1573 MVA. Upgrade substation equipment to 4000 A.

Estimated Project Cost:

Line #2368 (Allied – Bermuda Hundred) Rebuild: \$5.4M

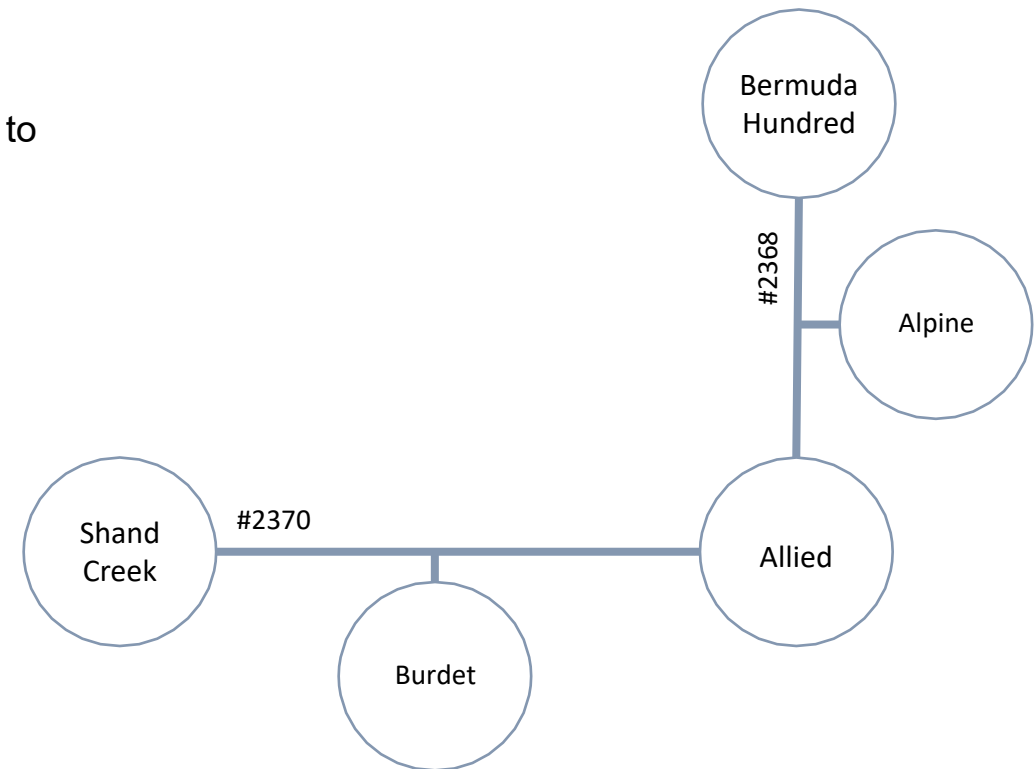
Line #2370 (Allied – Shand Creek) Rebuild: \$7M

Supplemental Project ID: s3862.2, s3862.3

Projected In-service Date: Q4 2031

Project Status: Conceptual

Model: 2024 Series RTEP 2029



Revision History

05/26/2026 – V1 – Added s3810, s3811, s3812, s3813, s3814, s3815, s3816, s3833, s3834

08/11/2026 – V2 – Added s3731, s3732, s3881, s3882

08/14/2026 – V3 – Added s1841(Update), s3036 (Update)

08/20/2026 – V4 – removed s3811, s3812

08/25/2026 – V5 – Added s3903, s3896, s3897, s3895, s3892, s3893, s3894, s3883, s3052 (Update), s2623 (Update)

09/30/2026 – V6 – Added s3911, s3913, s3915, s3988, s3989, s3990, s3991, s3992, s3993, s3994, s3995, s3997, s3998, s3999, s4000, s4001, s4029, s4030, s4031, s4032, s4033

10/01/2026 – V7 – Added s3722, s3862