

Line 2008 Uprate - Cub Run to Walney

General Information

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| Proposing entity name | See section A.5. of the attached Right-of-Way and Permitting Plan for a description of the Civil Infrastructure / major waterway facility crossing pla |
| Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project? | See section A.5. of the attached Right-of-Way and Permitting Plan for a description of the Civil Infrastructure / major waterway facility crossing pla |
| Company proposal ID | See section A.5. of the attached Right-of-Way and Permitting Plan for a description of the Civil Infrastructure / major waterway facility crossing pla |
| PJM Proposal ID | 600 |
| Project title | Line 2008 Uprate - Cub Run to Walney |
| Project description | This proposal increases the ampacity of Line 2008 between Cub Run and Walney to a summer rating of 1574 MVA by reconductoring the line. System Protection Engineering Coordination Study and System Protection Technician relay resets (CONFIRM). This project overlaps with Supplemental project s2507.1 (DOM-2021-0002-DNH) presented during the 06/08/2021 TEAC meeting and was included in the Dominion 2021 Local Plan on 07/01/2021. |
| Email | See section A.5. of the attached Right-of-Way and Permitting Plan for a description of the Civil Infrastructure / major waterway facility crossing pla |
| Project in-service date | 06/2026 |
| Tie-line impact | No |
| Interregional project | No |
| Is the proposer offering a binding cap on capital costs? | No |
| Additional benefits | See section A.5. of the attached Right-of-Way and Permitting Plan for a description of the Civil Infrastructure / major waterway facility crossing pla |

Project Components

1. Uprate Line #2008 segment from Cub Run to Walney

Transmission Line Upgrade Component

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| Component title | Uprate Line #2008 segment from Cub Run to Walney |
| Project description | See section A.5. of the attached Right-of-Way and Permitting Plan for a description of the Civil Infrastructure / major waterway facility crossing pla |
| Impacted transmission line | Line #2008 - Cub Run to Walney |
| Point A | Cub Run |
| Point B | Walney |
| Point C | |
| Terrain description | Starting at Cub Run Substation located in Chantilly, the existing right-of-way (ROW) traverses part of Cub Run Stream Valley Park, a floodplain, and is generally considered open space. As the ROW heads north towards Walney Substation, it traverses heavily industrial areas. |

Existing Line Physical Characteristics

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| Operating voltage | 230 kV |
| Conductor size and type | 1590 ACSR (45/7) MOT 125 Deg C |
| Hardware plan description | Existing line hardware will not be reused. |
| Tower line characteristics | The DC weathering steel monopoles were installed in 1990. There are no concerns with their condition. |

Proposed Line Characteristics

| | Designed | Operating |
|--------------|----------------|-------------------|
| Voltage (kV) | 230.000000 | 230.000000 |
| | Normal ratings | Emergency ratings |
| Summer (MVA) | 1574.000000 | 1574.000000 |
| Winter (MVA) | 1650.000000 | 1650.000000 |

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| Conductor size and type | 2-278.2 ACSS/TW 250 deg C MOT |
| Shield wire size and type | Shield wire unchanged |
| Rebuild line length | 1.07 miles (reconductor) |
| Rebuild portion description | 1. Remove approximately 1.07 miles of three-phase 1-1590 ACSR (45/7) conductor and conductor hardware from Line 2008 circuit between structure 2008/45 (265/66) outside Cub Run DP, and structure 2008/55A inside Walney Substation including the removal of the risers at switch structure 2008/45 (265/66). 2. Remove one (1) existing 230kV 2000A switch from DC H-frame structure 2008/45 (265/66) (existing switch 200826). 3. Install one (1) 230kV self-supporting switch structure with foundations (proposed structure 2008/45A) and one (1) 230kV, 4000A, vertical break switch including the installation of three-phase floating dead-end assemblies. 4. Install approximately 1.07 miles of three-phase 2-768.2 ACSS/TW/HS (20/7) "Maumee" conductor on the Line 2008 circuit from structure 2008/45 (265/66) outside Cub Run DP, to structure 2008/55A inside Walney Substation including the installation of dampers, spacers, and the installation of risers at proposed self-supporting switch structure 2008/45A and riser connectors at existing backbone structure 2008/55A. 5. Modify existing structure 2008/50 (265/71) by adding guy cable braces to the conductor arms on the side of the Line 2008 circuit (three braces total). |
| Right of way | No new or additional right of way is required to complete this project. |
| Construction responsibility | See section A.5. of the attached Right-of-Way and Permitting Plan for a description of the Civil Infrastructure / major waterway facility crossing pla |
| Benefits/Comments | See section A.5. of the attached Right-of-Way and Permitting Plan for a description of the Civil Infrastructure / major waterway facility crossing pla |
| Component Cost Details - In Current Year \$ | |
| Engineering & design | See section A.5. of the attached Right-of-Way and Permitting Plan for a description of the Civil Infrastructure / major waterway facility crossing pla |
| Permitting / routing / siting | See section A.5. of the attached Right-of-Way and Permitting Plan for a description of the Civil Infrastructure / major waterway facility crossing pla |
| ROW / land acquisition | See section A.5. of the attached Right-of-Way and Permitting Plan for a description of the Civil Infrastructure / major waterway facility crossing pla |
| Materials & equipment | See section A.5. of the attached Right-of-Way and Permitting Plan for a description of the Civil Infrastructure / major waterway facility crossing pla |

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| Construction & commissioning | See section A.5. of the attached Right-of-Way and Permitting Plan for a description of the Civil Infrastructure / major waterway facility crossing pla |
| Construction management | See section A.5. of the attached Right-of-Way and Permitting Plan for a description of the Civil Infrastructure / major waterway facility crossing pla |
| Overheads & miscellaneous costs | See section A.5. of the attached Right-of-Way and Permitting Plan for a description of the Civil Infrastructure / major waterway facility crossing pla |
| Contingency | See section A.5. of the attached Right-of-Way and Permitting Plan for a description of the Civil Infrastructure / major waterway facility crossing pla |
| Total component cost | \$1,934,340.00 |
| Component cost (in-service year) | \$2,071,678.00 |

Congestion Drivers

None

Existing Flowgates

| FG # | From Bus No. | From Bus Name | To Bus No. | To Bus Name | CKT | Voltage | TO Zone | Analysis type | Status |
|---------|--------------|---------------|------------|-------------|-----|---------|---------|--------------------|----------|
| N1-ST33 | 314109 | 6CUBRUN | 314092 | 6WALNEY | 1 | 230 | 345 | Summer N-1 Thermal | Included |

New Flowgates

See section A.5. of the attached Right-of-Way and Permitting Plan for a description of the Civil Infrastructure / major waterway facility crossing pla

Financial Information

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| Capital spend start date | 06/2025 |
| Construction start date | 03/2026 |
| Project Duration (In Months) | 12 |

Additional Comments

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