

COMMONWEALTH OF VIRGINIA
STATE CORPORATION COMMISSION
AT RICHMOND, AUGUST 19, 2024

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APPLICATION OF

VIRGINIA ELECTRIC AND POWER COMPANY

CASE NO. PUR-2024-00131

For approval and certification of electric transmission facilities: 230 kV Rebuild, Reconductoring, and New Line Projects to Network Takeoff Substation

ORDER FOR NOTICE AND HEARING

On July 17, 2024, Virginia Electric and Power Company ("Dominion" or "Company") filed with the State Corporation Commission ("Commission") an application ("Application") for approval and certification of electric transmission facilities in the Counties of Fairfax and Loudoun, Virginia.¹ Dominion filed its Application pursuant to Code § 56-46.1 and the Utility Facilities Act, Code §§ 56-265.1 *et seq.*

Through its Application, the Company proposes to complete the following (collectively, "Project"):²

- (1) Construct two new overhead double circuit 230 kilovolt ("kV") transmission lines by cutting the Company's existing 230 kV Lincoln Park-Loudoun Line

¹ Application at 2.

² *Id.* at 2-5.

#2008³ and existing 230 kV Bull Run-Sully Line #265,⁴ which are collocated within an existing variable 100- to 120-foot-wide right-of-way. As proposed, existing Lincoln Park-Loudoun Line #2008 will be cut at a location between Structures #2008/66 and #2008/67, and existing Bull Run-Sully Line #265 will be cut at a location between Structures #265/88 and #265/89. The Company represents that the two new double circuit lines will extend approximately 0.3 mile from the respective cut-in locations before terminating at a new proposed 230-34.5 kV substation located in Fairfax County, Virginia ("Takeoff Substation") on property to be owned by the Company ("Takeoff Loop"). Dominion states that the cut-ins ultimately will result in (i) 230 kV Loudoun-Takeoff Line #2008, (ii) 230 kV Lincoln Park-Takeoff Line #2356, (iii) 230 kV Bear Run-Takeoff Line #2285, and (iv) 230 kV Sully-Takeoff Line # 2357.⁵ Dominion further represents that, at the cut-in between Structures #2008/66 and #2008/67, the Company will install two new monopole structures to provide a network connection to the Takeoff Substation. Similarly, Dominion states, at the cut-in between Structures #265/88 and #265/89, the Company will install two new monopole structures to provide a network connection to the Takeoff Substation. According to the Company, these network connections will allow the Takeoff Substation to connect to other existing substations for increased reliability. Dominion states

³ Dominion represents that the existing approximately 11.8-mile 230 kV overhead Line #2008 begins at the Company's existing Loudoun Substation and terminates at the Company's existing Lincoln Park Substation and, therefore, is currently Lincoln Park-Loudoun Line #2008. See Application Appendix, Attachment I.A.2. Dominion further represents that, upon completion of the Project, Line #2008 will terminate at the proposed Takeoff Substation between the existing Loudoun and Lincoln Park Substations. See Application Appendix, Attachment I.A.5. According to the Company, at that time, the portion of the line between the existing Loudoun Substation and the proposed Takeoff Substation will be Loudoun-Takeoff Line #2008, and the portion of the line between the existing Lincoln Park Substation and the proposed Takeoff Substation will be Lincoln Park-Takeoff Line #2356. The Company states that this filing refers to the *existing* Line #2008 as the existing Lincoln Park-Loudoun Line #2008, and that any reference to the *proposed* Line #2008 will be to the proposed Loudoun-Takeoff Line #2008 (or simply proposed Line #2008). Application at 2 n.1.

⁴ According to Dominion, the existing Line #265 begins at the Company's existing Bull Run Substation and terminates at the Company's existing Sully Substation and, therefore, is currently Bull Run-Sully Line #265. See Application Appendix, Attachment I.A.2. By September 2026, the Company anticipates cutting in the new Bear Run Substation, resulting at that time in Line #265 terminating at Bear Run (Bera Run-Bull Line #265), and a new 230 kV Bear Run-Sully Line #2285. See Application Appendix, Attachment I.A.4. Dominion represents that, upon completion of the Project, Line #2285 will terminate at the proposed Takeoff Substation, between Bear Run and Sully Substations. See Application Appendix, Attachment I.A.5. Accordingly, the Company states, at that time, the portion of the line between Bear Run Substation and the proposed Takeoff Substation will be Bear Run-Takeoff Line #2285, and the portion of the line between the existing Sully Substation and the proposed Takeoff Substation will be Sully-Takeoff Line #2357. Dominion explains that the Application describes cutting the *existing* Bull Run-Sully Line #265 (or simply existing Line #265). Application at 2 n.2

⁵ Dominion states that, as defined in the Application, the proposed Takeoff Loop only includes the approximately 0.3 mile of new right-of-way between the proposed Takeoff Substation and the proposed cut-in locations on the existing Lincoln Park-Loudoun Line #2008 and existing Bull Run-Sully Line #265. See Application at 3 n.3; Application Appendix, Attachment I.A.1.

that while the structures installed at the proposed cut-in locations are within the existing right-of-way, the proposed 0.3-mile Takeoff Loop will be constructed in a new 160-foot-wide right-of-way supported primarily by double circuit weathering steel 2-pole structures and utilizing three-phase twin-bundled 768.2 thousand circular mils ("kcmil") 20/7 Aluminum Conductor Steel Supported/Trapezoidal Wire/High Strength ("ACSS/TW/HS") type conductor with a summer transfer capability of 1,573 MVA,⁶ with one new Design Number ("DNO")-11410 shield wire over each circuit. Dominion refers to this proposed work is referred to collectively as the "Takeoff Loop and Substation."

- (2) Partially reconductor and rebuild Sully-Takeoff Line #2357 entirely within existing right-of-way in Fairfax County, Virginia ("Sully-Takeoff Partial Reconductor/Rebuild").⁷ As discussed above, Dominion states that Sully-Takeoff Line #2357 will result from cutting existing Bull Run-Sully Line #265 between Structures #265/88 and #265/89 ("Sully-Takeoff Cut-in") and extending 0.3 mile of new double circuit lines to the proposed Takeoff Substation. The Company represents that the resulting approximately 2.2-mile Sully-Takeoff Line #2357 will consist of the new 0.3-mile segment from the Takeoff Substation to the Sully-Takeoff Cut-in, and the existing 1.9-mile segment from the Sully-Takeoff Cut-in to the Sully Substation. Hence, according to Dominion, only a "partial" reconductor and rebuild of Sully-Takeoff Line #2357 – namely, within the 1.9-mile existing segment – is required, as follows:
- a. Sully-Takeoff Partial Reconductor: reconductor the existing 1.9-mile segment of Sully-Takeoff Line #2357 between the Sully-Takeoff Cut-in and the existing Sully Substation by uprating the existing conductors from three-phase 1590 kcmil 45/7 Aluminum Conductor Steel Reinforced type conductor and 1534 Aluminum Conductor Alloy Reinforced 42 EC/19 type conductor to three-phase twin-bundled

⁶ Dominion states that apparent power, measured in megavolt amperes ("MVA"), is made up of real power (megawatt or "MW") and reactive power (megavolt ampere reactive). Application at 3 n.4.

⁷ According to the Company, the Sully-Takeoff Partial Reconductor/Rebuild will be undertaken as a component of this Project only if the Takeoff Loop Proposed Route (Takeoff Loop Route 1) is selected by the Commission, as space constraints due to existing buildings and roadways on Takeoff Loop Alternative Route 2 do not allow for the cut-in of existing Bull Run-Sully Line #265. *Id.* at 3 n.5. As a result, Dominion represents, if the Commission were to select Takeoff Loop Alternative Route 2 instead of the Takeoff Loop Proposed Route (Route 1) as described below, the Company would cut only existing Lincoln Park-Loudoun Line #2008 for the proposed Takeoff Loop, resulting in one new double circuit line (230 kV Loudoun-Takeoff Line #2008 and 230 kV Lincoln Park-Takeoff Line #2356) in a new 100-foot-wide right-of-way. *Id.* As such, Dominion states, the Company would not pursue the Sully-Takeoff Partial Reconductor/Rebuild as a component of the Project, meaning a second 300 MW N-1-1 load drop violation identified by the Company's Transmission Planning group would be left unresolved at this time. *Id.*; Application Appendix at 3-4.

768.2 kcmil 20/7 ACSS/TW/HS with a summer transfer capability of 1,573 MVA.

- b. Sully-Takeoff Partial Rebuild: rebuild five of the existing painted steel double circuit monopole structures supporting Line #2357 (*i.e.*, supporting the existing Bull Run-Sully Line #265) and existing Discovery-Sully Line #2107 (existing Structures #265/98 / #2107/72, #265/99 / #2107/71, #265/102 / 2107/68, #265/104 / #2107/66, and #265/107 / #2107/63) in order to maintain proper clearances.⁸ According to the Company, the five structures proposed for rebuild are located within an existing 0.9-mile segment between existing Structure #265/98 / #2107/72 and Sully Substation. Dominion states that the five removed structures will be replaced with five double circuit dulled galvanized steel monopole structures.

- (3) Construct a new overhead double circuit 230 kV transmission line beginning at the Company's future Aviator Substation⁹ located in Loudoun County, Virginia, and extending approximately 3.2 miles to terminate at the Company's new proposed Takeoff Substation located in Fairfax County, Virginia, resulting in (i) 230 kV Aviator-Takeoff Line #2358, and (ii) 230 kV Aviator-Takeoff Line #2359 ("Aviator-Takeoff Lines"). The Company states that while the proposed Aviator-Takeoff Lines will commence and terminate on Company-owned or to-be-owned property (from Structure #2358/25 /

⁸ Dominion states that four of the structures (Structures #265/99 / #2107/71, #265/102 / #2107/68, #265/104 / #2107/66, and #265/107 / 2107/63) are being rebuilt in order to maintain proper clearances for the reconducted 1.9-mile segment of Line #2357, as described herein. Application at 4 n.6. Dominion further states that one of the structures (Structure #265/98 / #2107/72) is being rebuilt in order to maintain proper clearances for Line #107, which the Company plans to uprate as a separate project after the Sully-Takeoff Partial Reconductor/Rebuild is completed. *Id.* According to Dominion, while in the same transmission corridor and taking an outage to complete the Sully-Takeout Partial Rebuild, the Company determined that it would be reasonable, prudent, and consistent with sound engineering judgment to rebuild this one structure supporting Line #2107 (Structure #265/98 / #2107/72) for proper clearance purposes for the future update of Line #2107. *Id.* While a component of the proposed Project, the Company states that it considers the rebuild of this one structure supporting Line #2107, which is entirely within existing right-of-way, to qualify as an "ordinary extension[] or improvement[] in the usual course of business" (*i.e.*, "ordinary course") pursuant to Code § 56-265.2 A 1 and, therefore, does not require approval pursuant to Code § 56-46.1 B or a certificate of public convenience and necessity ("CPCN") from the Commission. *Id.* Dominion states that, as a component of the proposed Project, the costs associated with the rebuild of one structure supporting Line #2107 (Structure #265/98 / #2107/72) have been included in the total transmission-related conceptual costs. *Id.* Dominion further states that should the Commission determine that a CPCN is required for the rebuild of Structure #265/98 / #2107/72 as described herein, the Company requests that the Commission grant such CPCN as part of its final order in this proceeding. *Id.* The Company states that it plans to transfer the existing Line #2107 conductor to the five rebuilt structures until such time as it is uprated. *Id.*

⁹ The Aviator Substation was approved by Final Order of the Commission on November 22, 2022, in Case No. PUR-2022-00012, with an projected in-service date of September 30, 2024. *See Application of Virginia Electric and Power Company for approval and certification of electric transmission facilities: Aviator 230 kV Line Loop and Aviator Substation*, Case No. PUR-2022-00012, 2022 S.C.C. Ann. Rept. 470, 475, Final Order (Nov. 28, 2022) at Ordering Paragraph (6); *see also* Application Appendix, Attachment I.A.3.

#2359/25 at Aviator Substation to Structure #2358/1 / #2359/1 at Takeoff Substation), the proposed Aviator-Takeoff Lines will be constructed in new 100-foot-wide right-of-way supported primarily by double circuit dulled galvanized steel monopole structures and will utilize three-phase twin-bundled 768.2 kcmil 20/7 ACSS/TW/HS type conductors with a summer transfer capability of 1,573 MVA, with one new DNO-11410 shield wire over each new circuit.

- (4) Perform minor substation-related work at the Company's future Aviator Substation.

According to the Application, Dominion asserts the proposed Project is necessary to relieve identified violations of mandatory North American Electric Reliability Corporation Reliability Standards, to provide service requested by a data center customer of Dominion, and to maintain the structural integrity and reliability of its transmission system.¹⁰

Dominion states that for the Takeoff Loop, the Company identified one 0.3-mile overhead proposed route in an approximately 160-foot-wide right-of-way ("Takeoff Loop Proposed Route" or "Takeoff Loop Route 1"), as well as an approximately 0.3-mile overhead alternative route in an approximately 100-foot-wide right-of-way ("Takeoff Loop Alternative Route 2").¹¹

Dominion states that for the Sully-Takeoff Partial Reconductor/Rebuild, the total length of the existing right-of-way, which is currently maintained at variable 100 to 120 feet in width, is approximately 1.9 miles.¹² Dominion further states that no new right-of-way would be required because the existing right-of-way and Company-owned property are adequate for the Sully-Takeoff Partial Reconductor/Rebuild.¹³ The Company asserts that it did not consider any

¹⁰ Application at 2.

¹¹ *Id.* at 6-7.

¹² *Id.* at 7 & n.10.

¹³ *Id.* at 7.

alternative routes requiring new right-of-way for the Sully-Takeoff Partial Reconductor/Rebuild, given the availability of existing right-of-way and the statutory preference given to the use of existing right-of-way, and because additional costs and environmental impacts would be associated with the acquisition of and construction of new right of way.¹⁴

Dominion states that for the Aviator-Takeoff Lines, the Company identified one approximately 3.2-mile overhead proposed route ("Aviator-Takeoff Proposed Route") and two overhead alternative routes that are either 3.3 or 3.1 miles long (respectively, "Aviator-Takeoff Alternative Route 2" and "Aviator-Takeoff Alternative Route 3").¹⁵

Dominion states that the Takeoff Substation will be constructed with three 112 MVA 230-34.5 kV transformers, two 84 MVA 230-34.5 kV transformers, and nine 230 kV breakers arranged in a breaker-and-a-half configuration.¹⁶ Dominion states that the total area of the Takeoff Substation is approximately 4.3 acres.¹⁷

The Company states the desired in-service date for the proposed Project is August 1, 2027.¹⁸ The Company represents that the total estimated conceptual cost of the proposed Project is approximately \$168.3 million, which includes approximately \$93.1 million

¹⁴ *Id.*

¹⁵ *Id.* at 7-8.

¹⁶ *Id.* at 8.

¹⁷ *Id.*

¹⁸ *Id.* Dominion requests that the Commission enter a final order by February 17, 2025. *Id.* at 9. The Company states that, should the Commission issue a final order by February 17, 2025, the Company estimates that construction should begin in January 2026 and be completed by August 1, 2027. *Id.*

for transmission-related work and approximately \$75.2 million for substation-related work (in 2024 dollars).¹⁹

As provided by Code § 62.1-44.15:21 D 2, the Commission and the State Water Control Board ("Board") consult on wetland impacts prior to the siting of electric utility facilities that require a CPCN. Acting on behalf of the Board, the Department of Environmental Quality ("DEQ") must prepare a Wetland Impacts Consultation on this Application, as required by the Code and Sections 2 and 3 of the Department of Environmental Quality - State Corporation Commission Memorandum of Agreement Regarding Consultation on Wetland Impacts (July 2003).²⁰ The Staff of the Commission ("Staff") has requested the Office of Wetlands & Stream Protection at DEQ to provide the Wetland Impacts Consultation for the Project.²¹

As provided by Code §§ 10.1-1186.2:1 B and 56-46.1 A, the Commission and DEQ coordinate reviews of the environmental impact of electric generating plants and associated facilities. Pursuant to the Code and consistent with the Department of Environmental Quality - State Corporation Commission Memorandum of Agreement Regarding Coordination of Reviews of the Environmental Impacts of Proposed Electric Generating Plants and Associated Facilities (August 2002),²² the Commission receives and considers reports on the proposed facilities from state environmental agencies. Staff has requested the DEQ to coordinate an

¹⁹ *Id.* at 10.

²⁰ *In re Receiving comments on a draft memorandum of agreement between the State Water Control Board and the State Corporation Commission*, Case No. PUE-2003-00114, 2003 S.C.C. Ann. Rept. 474, Order Distributing Memorandum of Agreement (July 30, 2003).

²¹ Letter from Clay F. Kulesza, State Corporation Commission, dated July 29, 2024, to David L. Davis, Department of Environmental Quality, filed in Case No. PUR-2024-00131.

²² *In re Receiving comments on a draft memorandum of agreement between the Department of Environmental Quality and the State Corporation Commission*, Case No. PUE-2002-00315, 2002 S.C.C. Ann. Rept. 559, Order Distributing Memorandum of Agreement (Aug. 14, 2002).

environmental review of this Application by the appropriate agencies and to provide a report on the review.²³

NOW THE COMMISSION, upon consideration of the Application and applicable statutes, finds that: this matter should be docketed; Dominion should give notice of its Application to interested persons and the public; public hearings should be scheduled for the purpose of receiving testimony and evidence on the Application as well as public witness testimony; interested persons should have an opportunity to file comments on the Application or participate as a respondent in this proceeding; and Staff should be directed to investigate the Application and file testimony and exhibits containing its findings and recommendations thereon. Finally, we find this matter should be assigned a Hearing Examiner to conduct all further proceedings in this matter on behalf of the Commission, including filing a final report containing the Hearing Examiner's findings and recommendations.

To promote administrative efficiency and timely service of filings upon participants, the Commission will, among other things, direct the electronic filing of testimony and pleadings unless they contain confidential information, and require electronic service on parties to this proceeding.

Accordingly, IT IS ORDERED THAT:

- (1) This matter is docketed and assigned Case No. PUR-2024-00131.
- (2) All pleadings, briefs, or other documents required to be served in this matter shall be submitted electronically to the extent authorized by Rule 5 VAC 5-20-150, *Copies and format*, of

²³ Letter from Clay F. Kulesza, State Corporation Commission, dated July 29, 2024, to Bettina Rayfield, Department of Environmental Quality, filed in Case No. PUR-2024-00131.

the Commission's Rules of Practice and Procedure ("Rules of Practice").²⁴ Confidential and Extraordinarily Sensitive Information shall not be submitted electronically and should comply with 5 VAC 5-20-170, *Confidential information*, of the Rules of Practice. Any person seeking to hand deliver and physically file or submit any pleading or other document shall contact the Clerk's Office Document Control Center at (804) 371-9838 to arrange the delivery.

(3) Pursuant to 5 VAC 5-20-140, *Filing and service*, of the Rules of Practice, the Commission directs that service on parties and Staff in this matter shall be accomplished by electronic means. Concerning Confidential or Extraordinarily Sensitive Information, all parties and Staff are instructed to work together to agree upon the manner in which documents containing such information shall be served upon one another, to the extent practicable, in an electronically protected manner, even if such information is unable to be filed in the Office of the Clerk, so that no party or Staff is impeded from preparing its case.

(4) As provided by § 12.1-31 of the Code and Rule 5 VAC 5-20-120, *Procedure before hearing examiners*, of the Rules of Practice, a Hearing Examiner is appointed to conduct all further proceedings in this matter on behalf of the Commission, including ruling on the Motion *Pro Hac Vice* that was filed simultaneously with the Application, and filing a final report containing the Hearing Examiner's findings and recommendations. A copy of each filing made with the Commission's Clerk's office in this matter shall also be sent electronically to the Office of the Hearing Examiners.²⁵

(5) The Commission hereby schedules a telephonic portion of the hearing for the receipt of testimony from public witnesses on the Application, as follows:

²⁴ 5 VAC 5-20-10 *et seq.*

²⁵ Such electronic copies shall be sent to: OHEparalegals@scc.virginia.gov.

- (a) The portion of the hearing for the receipt of testimony from public witnesses on the Application shall be convened telephonically at 10 a.m., on December 17, 2024.
- (b) To promote fairness for all public witnesses, each witness will be allotted five minutes to provide testimony.
- (c) On or before December 10, 2024, any person desiring to offer testimony as a public witness shall provide to the Commission (a) your name, and (b) the telephone number that you wish the Commission to call during the hearing to receive your testimony. This information may be provided to the Commission in three ways: (i) by filling out a form on the Commission's website at scc.virginia.gov/pages/Webcasting; (ii) by completing and emailing the PDF version of this form to SCCInfo@scc.virginia.gov; or (iii) by calling (804) 371-9141.
- (d) Beginning at 10 a.m., on December 17, 2024, the Hearing Examiner appointed to this case will telephone sequentially each person who has signed up to testify, if any, as provided above.
- (e) This public witness hearing will be webcast at scc.virginia.gov/pages/Webcasting.

(6) The evidentiary portion of the hearing shall be convened at 10 a.m., on December 17, 2024, or at the conclusion of the public witness portion of the hearing, whichever is later, in the Commission's second floor courtroom located in the Tyler Building, 1300 East Main Street, Richmond, Virginia 23219, to receive the testimony and evidence of the Company, any respondents, and Staff.

(7) An electronic copy of the Company's Application may be obtained by submitting a written request to counsel for the Company: Vishwa B. Link, Esquire, McGuireWoods LLP, 800 East Canal Street, Richmond, Virginia 23219, or vlink@mcguirewoods.com. Interested persons also may download unofficial copies from the Commission's website: scc.virginia.gov/pages/Case-Information.

(8) On or before September 11, 2024, the Company shall cause to be sent by first class mail a copy of the notice and sketch map prescribed in Ordering Paragraph (9) to all owners of

property within the route of each of the proposed routes as of the date of this Order and as indicated on the map or sketch of the routes filed with the Commission, which requirement shall be satisfied by mailing to such persons at such addresses as are indicated in the land books maintained by the commissioner of revenue, director of finance, treasurer, or other officer of the county or municipality designated as provided by Code § 58.1-3100 *et seq.*

(9) On or before September 11, 2024, the Company shall cause the following notice and sketch map of each of the proposed routes as shown in Attachment V.A on page 289 of the Appendix to the Application, to be published as display advertising (not classified) on one (1) occasion in newspapers of general circulation in the Counties of Fairfax and Loudoun, Virginia:

NOTICE TO THE PUBLIC OF AN APPLICATION BY
VIRGINIA ELECTRIC AND POWER COMPANY
FOR APPROVAL AND CERTIFICATION OF ELECTRIC
TRANSMISSION FACILITIES: 230 KV REBUILD,
RECONDUCTORING, AND NEW LINE PROJECTS TO
NETWORK TAKEOFF SUBSTATION
CASE NO. PUR-2024-00131

On July 17, 2024, Virginia Electric and Power Company ("Dominion" or "Company") filed with the State Corporation Commission ("Commission") an application ("Application") for approval and certification of electric transmission facilities in the Counties of Fairfax and Loudoun, Virginia. Dominion filed its Application pursuant to § 56-46.1 of the Code of Virginia ("Code"), and the Utility Facilities Act, Code §§ 56-265.1 *et seq.*

Through its Application, the Company proposes to complete the following (collectively, "Project"):

- (1) Construct two new overhead double circuit 230 kilovolt ("kV") transmission lines by cutting the Company's existing 230 kV Lincoln Park-Loudoun Line #2008 and existing 230 kV Bull Run-Sully Line #265, which are collocated within an existing variable 100- to 120-foot-wide right-of-way. As proposed, existing Lincoln Park-Loudoun Line #2008 will be cut at a location between Structures #2008/66 and #2008/67, and existing Bull Run-Sully Line #265 will be cut at a location between Structures #265/88 and #265/89. The Company

represents that the two new double circuit lines will extend approximately 0.3 mile from the respective cut-in locations before terminating at a new proposed 230-34.5 kV substation located in Fairfax County, Virginia ("Takeoff Substation") on property to be owned by the Company ("Takeoff Loop"). Dominion states that the cut-ins ultimately will result in (i) 230 kV Loudoun-Takeoff Line #2008, (ii) 230 kV Lincoln Park-Takeoff Line #2356, (iii) 230 kV Bear Run-Takeoff Line #2285 and (iv) 230 kV Sully-Takeoff Line # 2357. Dominion further represents that at the cut-in between Structures #2008/66 and #2008/67, the Company will install two new monopole structures to provide a network connection to the Takeoff Substation. Similarly, Dominion states, at the cut-in between Structures #265/88 and #265/89, the Company will install two new monopole structures to provide a network connection to the Takeoff Substation. According to the Company, these network connections will allow the Takeoff Substation to connect to other existing substations for increased reliability. Dominion states that while the structures installed at the proposed cut-in locations are within the existing right-of-way, the proposed 0.3-mile Takeoff Loop will be constructed in a new 160-foot-wide right-of-way supported primarily by double circuit weathering steel 2-pole structures and utilizing three-phase twin-bundled 768.2 thousand circular mils ("kcmil") 20/7 Aluminum Conductor Steel Supported/Trapezoidal Wire/High Strength ("ACSS/TW/HS") type conductor with a summer transfer capability of 1,573 MVA, with one new Design Number ("DNO")-11410 shield wire over each circuit. Dominion refers to this proposed work is referred to collectively as the "Takeoff Loop and Substation."

- (2) Partially reconductor and rebuild Sully-Takeoff Line #2357 entirely within existing right-of-way in Fairfax County, Virginia ("Sully-Takeoff Partial Reconductor/Rebuild"). As discussed above, Dominion states that Sully-Takeoff Line #2357 will result from cutting existing Bull Run-Sully Line #265 between Structures #265/88 and #265/89 ("Sully-Takeoff Cut-in") and extending 0.3 mile of new double circuit lines to the proposed Takeoff Substation. The Company represents that the resulting approximately 2.2-mile Sully-Takeoff Line #2357 will consist of the new 0.3-mile segment from the Takeoff Substation to the Sully-Takeoff Cut-in, and the existing 1.9-mile segment from the Sully Takeoff Cut-in to the Sully Substation. Hence, according to Dominion, only a "partial" reconductor and rebuild of Sully-Takeoff Line #2357

– namely, within the 1.9-mile existing segment – is required, as follows:

- a. Sully-Takeoff Partial Reconductor: reconductor the existing 1.9-mile segment of Sully-Takeoff Line #2357 between the Sully-Takeoff Cut-in and the existing Sully Substation by uprating the existing conductors from three-phase 1590 kcmil 45/7 Aluminum Conductor Steel Reinforced type conductor and 1534 Aluminum Conductor Alloy Reinforced 42 EC/19 type conductor to three-phase twin-bundled 768.2 kcmil 20/7 ACSS/TW/HS with a summer transfer capability of 1,573 MVA.
 - b. Sully-Takeoff Partial Rebuild: rebuild five of the existing painted steel double circuit monopole structures supporting Line #2357 (*i.e.*, supporting the existing Bull Run-Sully Line #265) and existing Discovery-Sully Line #2107 (existing Structures #265/98 / #2107/72, #265/99 / #2107/71, #265/102 / 2107/68, #265/104 / #2107/66, and #265/107 / #2107/63) in order to maintain proper clearances. According to the Company, the five structures proposed for rebuild are located within an existing 0.9-mile segment between existing Structure #265/98 / #2107/72 and Sully Substation. Dominion states that the five removed structures will be replaced with five double circuit dulled galvanized steel monopole structures.
- (3) Construct a new overhead double circuit 230 kV transmission line beginning at the Company's future Aviator Substation located in Loudoun County, Virginia, and extending approximately 3.2 miles to terminate at the Company's new proposed Takeoff Substation located in Fairfax County, Virginia, resulting in (i) 230 kV Aviator-Takeoff Line #2358, and (ii) 230 kV Aviator-Takeoff Line #2359 ("Aviator-Takeoff Lines"). The Company states that while the proposed Aviator-Takeoff Lines will commence and terminate on Company-owned or to-be-owned property (from Structure #2358/25 / #2359/25 at Aviator Substation to Structure #2358/1 / #2359/1 at Takeoff Substation), the proposed Aviator-Takeoff Lines will be constructed in new 100-foot-wide right-of-way supported primarily by double circuit dulled galvanized steel monopole structures and will utilize three-phase twin-bundled 768.2 kcmil 20/7

ACSS/TW/HS type conductors with a summer transfer capability of 1,573 MVA, with one new DNO-11410 shield wire over each new circuit.

- (4) Perform minor substation-related work at the Company's future Aviator Substation.

According to the Application, Dominion asserts the proposed Project is necessary to relieve identified violations of mandatory North American Electric Reliability Corporation Reliability Standards, to provide service requested by a data center customer of Dominion, and to maintain the structural integrity and reliability of its transmission system.

Dominion states that for the Takeoff Loop, the Company identified one 0.3-mile overhead proposed route in an approximately 160-foot-wide right-of-way ("Takeoff Loop Proposed Route" or "Takeoff Loop Route 1"), as well as an approximately 0.3-mile overhead alternative route in an approximately 100-foot-wide right-of-way ("Takeoff Loop Alternative Route 2").

Dominion states that for the Sully-Takeoff Partial Reconductor/Rebuild, the total length of the existing right-of-way, which is currently maintained at variable 100 to 120 feet in width, is approximately 1.9 miles. Dominion further states that no new right-of-way would be required because the existing right-of-way and Company-owned property are adequate for the Sully-Takeoff Partial Reconductor/Rebuild. The Company asserts that it did not consider any alternative routes requiring new right-of-way for the Sully-Takeoff Partial Reconductor/Rebuild, given the availability of existing right-of-way and the statutory preference given to the use of existing right-of-way, and because additional costs and environmental impacts would be associated with the acquisition of and construction of new right of way.

Dominion states that for the Aviator-Takeoff Lines, the Company identified one 3.2-mile overhead proposed route ("Aviator-Takeoff Proposed Route") and two overhead alternative routes that are either 3.3 or 3.1 miles long (respectively, "Aviator-Takeoff Alternative Route 2" and "Aviator-Takeoff Alternative Route 3").

Dominion states that the Takeoff Substation will be constructed with three 112 MVA 230-34.5 kV transformers, two 84 MVA 230-34.5 kV transformers, and nine 230 kV breakers arranged in a

breaker-and-a-half configuration. Dominion states that the total area of the Takeoff Substation is approximately 4.3 acres.

The Company states the desired in-service date for the proposed Project is August 1, 2027. The Company represents that the total estimated conceptual cost of the proposed Project is approximately \$168.3 million, which includes approximately \$93.1 million for transmission-related work and approximately \$75.2 million for substation-related work (in 2024 dollars).

Description of Routes for the Proposed Project

TAKEOFF LOOP

Takeoff Loop Proposed Route/Route 1

The Takeoff Loop Proposed Route is approximately 0.3 mile in length. The Takeoff Loop Proposed Route originates at cut-in locations on the Company's existing Lincoln Park-Loudoun Line #2008 and Bull Run-Sully Line #265 between Structures #2008/66 / #265/88 and #2008/67 / #265/89, north of Route 50 and east of Airplane Road. From the cut-in locations, the Proposed Route heads west collocated along Route 50, crosses Airplane Road, then turns north and terminates at the proposed Takeoff Substation, which is located north of Route 50 and east of Avion Parkway in Fairfax County.

The Takeoff Loop Proposed Route proposes construction of two new double circuit 230 kV overhead transmission lines, which primarily will be supported by double circuit weathering steel 2-pole structures. For the Takeoff Loop Proposed Route, the minimum structure height is 100 feet, the maximum structure height is 110 feet, and the average structure height is 103 feet, based on preliminary conceptual design, not including foundation reveal and subject to change based on final engineering design.

Takeoff Loop Alternative Route 2

Takeoff Loop Alternative Route 2 is approximately 0.3 mile in length. Takeoff Loop Alternative Route 2 originates at a cut-in location on the Company's existing Lincoln Park-Loudoun Line #2008 between Structures #2008/65 and #2008/66, south of Route 50 and east of Lee Road. From the cut-in location, the route heads northwest collocated along the south side of Route 50 and crosses Lee Road, then turns north, crosses Route 50, and terminates at the proposed Takeoff Substation, which is located north of Route 50 and east of Avion Parkway in Fairfax County.

Takeoff Loop Alternative Route 2 proposed construction of one new double circuit 230 kV overhead transmission line, which primarily will be supported by double circuit weathering steel monopoles and 2-pole angle structures. For Takeoff Loop Alternative Route 2, the minimum structure height is 95 feet, the maximum structure height is 125 feet, and the average structure height is 106 feet, based on preliminary conceptual design, not including foundation reveal and subject to change based on final engineering design.

SULLY-TAKEOFF PARTIAL RECONDUCTOR/REBUILD

Reconductor/Rebuild Proposed Route

The Reconductor/Rebuild is approximately 1.9 miles long, including approximately 1.0 mile of reconductor only and 0.9 mile of reconductor and partial rebuild, which will entail replacement of five existing structures. The Reconductor/Rebuild Proposed Route begins at the existing Sully Substation located in Chantilly, Virginia, east of Lees Corner Road and north of Fatlick Branch and heads northeast along an existing transmission line right-of-way, crossing Centreville Road, then continues along the Washington Dulles International Airport ("Dulles Airport") property, crosses Route 28, and terminates at the cut-in location between Structures #2008/66 / #265/88 and #2008/67 / 265/89, north of Route 50 and east of Airplane Road.

The Reconductor/Rebuild Proposed Route will replace approximately five exiting double circuit painted monopole structures with five double circuit dulled galvanized steel monopole structures within an approximately 0.9-mile segment of existing right-of-way. For the 0.9-mile segment of the Reconductor/Rebuild Proposed Route, the minimum structure height is 90 feet, the maximum structure height is 130 feet, and the average structure height is 108 feet, based on preliminary conceptual design, not including foundation reveal and subject to change based on final engineering design.

AVIATOR-TAKEOFF LINES

Aviator-Takeoff Proposed Route (Route 1).

The Aviator-Takeoff Proposed Route is approximately 3.2 miles in length. The Proposed Route originates at the future Aviator Substation, south of the intersection of South Perimeter

Road and Willard Road. From there, the Proposed Route briefly heads north and enters Dulles Airport property, then turns southeast and follows South Perimeter Road, exits Loudoun County and enters Fairfax County, then crosses Stonecroft Boulevard. Still on Dulles Airport property, the route continues southeast, then turns south along Lower Perimeter Road until it terminates at the proposed Takeoff Substation, north of Route 50 and east of Avion Parkway.

The Aviator-Takeoff Proposed Route primarily will be supported by double circuit dulled galvanized steel monopole structures. For the Proposed Route, the minimum structure height is 95 feet, the maximum structure height is 140 feet, and the average structure height is 114 feet, based on preliminary conceptual design, not including foundation reveal and subject to change based on final engineering design.

Aviator-Takeoff Alternative Route 2

Aviator-Takeoff Alternative Route 2 is approximately 3.3 miles in length. Aviator-Takeoff Alternative Route 2 originates at the future Aviator Substation, south of the intersection of South Perimeter Road and Willard Road. From there, the route briefly heads north before turning southeast within a parcel cleared for a future data center. The route heads east and then southeast through a mix of industrial parcels and scattered forest. The route then exits Loudoun County and enters Fairfax County and the Cub Run Resource Protection Area ("RPA"). Alternative Route 2 turns south along developed areas west of Cub Run and then heads southeast as it collocates with Route 50 and an existing buried utility line, crosses Cub Run, and continues to collocate with Route 50. Aviator-Takeoff Alternative Route 2 continues east and crosses Avion Park Court and Stonecroft Boulevard, then follows Virginia Mallory Drive and crosses Avion Parkway. Aviator-Takeoff Alternative Route 2 then turns south and terminates at the proposed Takeoff Substation, north of Route 50 and east of Avion Parkway.

Aviator-Takeoff Alternative Route 2 primarily will be supported by double circuit dulled galvanized steel monopole structures. For Alternative Route 2, the minimum structure height is 100 feet, the maximum structure height is 135 feet, and the average structure height is 115 feet, based on preliminary conceptual design, not including foundation reveal and subject to change based on final engineering design.

Aviator-Takeoff Alternative Route 3

Aviator-Takeoff Alternative Route 3 is approximately 3.1 miles in length. Aviator-Takeoff Alternative Route 3 originates at the future Aviator Substation, south of the intersection of South Perimeter Road and Willard Road. From there, Aviator-Takeoff Alternative Route 3 briefly heads north before turning southeast within a parcel cleared for a future data center. The route heads southeast along Sand Branch, crosses Pleasant Valley Road, and continues southeast before exiting Loudoun County and entering Fairfax County and the Cub Run RPA. Aviator-Takeoff Alternative Route 3 turns south briefly along the western boundary of the Cub Run RPA and then bisects the Cub Run RPA as it heads southeast and collocates with an existing buried utility easement, crosses Cub Run, and then continues to collocate within a private road and water utility easement. Continuing east, Aviator-Takeoff Alternative Route 3 crosses Avion Park Court and Stonecroft Boulevard, then follows Virginia Mallory Drive and crosses Avion Parkway. Aviator-Takeoff Alternative Route 3 then turns south and terminates at the proposed Takeoff Substation, north of Route 50 and east of Avion Parkway.

Aviator-Takeoff Alternative Route 3 primarily will be supported by double circuit dulled galvanized steel monopole structures. For Alternative Route 3, the minimum structure height is 100 feet, the maximum structure height is 140 feet, and the average structure height is 114 feet, based on preliminary conceptual design, not including foundation reveal and subject to change based on final engineering design.

All distances, heights, and directions are approximate. A sketch map of the proposal accompanies this notice. A more detailed map may be viewed on the Commission's website: scc.virginia.gov/pages/Transmission-Line-Projects. A more complete description of the Project also may be found in the Company's Application.

The Commission may consider a route not significantly different from the route described in this notice without additional notice to the public.

The Commission entered an Order for Notice and Hearing in this proceeding that, among other things, scheduled a public hearing on Dominion's Application. On December 17, 2024, at 10 a.m., the Hearing Examiner assigned will hold the telephonic portion of the hearing for the purpose of receiving the testimony of

public witnesses. On or before December 10, 2024, any person desiring to offer testimony as a public witness shall provide to the Commission (a) your name, and (b) the telephone number that you wish the Commission to call during the hearing to receive your testimony. This information may be provided to the Commission in three ways: (i) by filling out a form on the Commission's website at scc.virginia.gov/pages/Webcasting; (ii) by completing and emailing the PDF version of this form to SCCInfo@scc.virginia.gov; or (iii) by calling (804) 371-9141. This public witness hearing will be webcast at scc.virginia.gov/pages/Webcasting.

On December 17, 2024, at 10 a.m. or at the conclusion of the public witness portion of the hearing, whichever is later, in the Commission's second floor second floor courtroom located in the Tyler Building, 1300 East Main Street, Richmond, Virginia 23219, the Hearing Examiner will convene a hearing to receive testimony and evidence related to the Application from the Company, any respondents, and the Commission's Staff.

To promote administrative efficiency and timely service of filings upon participants, the Commission has directed the electronic filing of testimony and pleadings, unless they contain confidential information, and has required electronic service on parties to this proceeding.

Electronic copies of the Application and other supporting materials may be inspected at: <https://www.dominionenergy.com/NOVA>. An electronic copy of the Company's Application also may be obtained by submitting a written request to counsel for the Company: Vishwa B. Link, Esquire, McGuire Woods LLP, Gateway Plaza, 800 East Canal Street, Richmond, Virginia 23219, or vlink@mcguirewoods.com. Interested persons also may download unofficial copies of the Application and other documents filed in this case from the Commission's website: scc.virginia.gov/pages/Case-Information.

On or before December 10, 2024, any interested person may submit comments on the Application by following the instructions found on the Commission's website: scc.virginia.gov/casecomments/Submit-Public-Comments. Those unable, as a practical matter, to submit comments electronically may file such comments with the Clerk of the State Corporation Commission c/o Document Control Center, P.O. Box 2118,

Richmond, Virginia 23218-2118. All such comments shall refer to Case No. PUR-2024-00131.

On or before October 15, 2024, any person or entity wishing to participate as a respondent in this proceeding may do so by filing a notice of participation at scc.virginia.gov/clk/efiling. Those unable, as a practical matter, to file a notice of participation electronically may file such notice by U.S. mail to the Clerk of the Commission at the address listed above. Such notice of participation shall include the email addresses of such parties or their counsel. The respondent simultaneously shall serve a copy of the notice of participation on counsel to the Company. Pursuant to 5 VAC 5-20-80 B, *Participation as a respondent*, of the Commission's Rules of Practice and Procedure ("Rules of Practice"), any notice of participation shall set forth: (i) a precise statement of the interest of the respondent; (ii) a statement of the specific action sought to the extent then known; and (iii) the factual and legal basis for the action. Any organization, corporation, or government body participating as a respondent must be represented by counsel as required by 5 VAC 5-20-30, *Counsel*, of the Rules of Practice. All filings shall refer to Case No. PUR-2024-00131.

On or before November 6, 2024, each respondent may file with the Clerk of the Commission, at scc.virginia.gov/clk/efiling, any testimony and exhibits by which the respondent expects to establish its case. Any respondent unable, as a practical matter, to file testimony and exhibits electronically may file such by U.S. mail to the Clerk of the Commission at the address listed above. Each witness's testimony shall include a summary not to exceed one page. All testimony and exhibits shall be served on the Commission's Staff, the Company, and all other respondents simultaneous with its filing. In all filings, respondents shall comply with the Commission's Rules of Practice, as modified herein, including, but not limited to: 5 VAC 5-20-140, *Filing and service*, and 5 VAC 5-20-240, *Prepared testimony and exhibits*. All filings shall refer to Case No. PUR-2024-00131.

Any documents filed in paper form with the Office of the Clerk of the Commission in this docket may use both sides of the paper. In all other respects, except as modified by the Commission's Order for Notice and Hearing, all filings shall comply fully with

the requirements of 5 VAC 5-20-150, *Copies and format*, of the Commission's Rules of Practice.

The Company's Application and other documents filed in this case, the Commission's Rules of Practice, and the Commission's Order for Notice and Hearing may be viewed on the Commission's website at: scc.virginia.gov/pages/Case-Information.

VIRGINIA ELECTRIC AND POWER COMPANY

(10) On or before September 11, 2024, the Company shall serve a copy of this Order for Notice and Hearing on the following local officials, to the extent the position exists, in each county, city, and town through which the Project is proposed to be built: the chairman of the board of supervisors of each county; the mayor or manager (or equivalent official) of every city and town; and the county, city, or town attorney. Service shall be made electronically where possible; if electronic service is not possible, service shall be made by either personal delivery or first-class mail to the customary place of business or residence of the person served.

(11) On or before September 25, 2024, the Company shall file proof of the notice and service required by Ordering Paragraphs (9) and (10), including the name, title, address, and electronic mail address (if applicable) of each official served, with the Clerk of the State Corporation Commission at scc.virginia.gov/clk/efiling.

(12) On or before September 25, 2024, the Company shall file with the Clerk of the Commission a certificate of the mailing of notice to owners of property prescribed by Ordering Paragraph (8). The certificate shall not include the names and addresses of the owners of property served, but the Company shall maintain a record of such information.

(13) On or before December 10, 2024, any interested person may file comments on the Application by following the instructions found on the Commission's website: scc.virginia.gov/casecomments/Submit-Public-Comments. Those unable, as a practical matter,

to file comments electronically may file such comments by U.S. mail to the Clerk of the State Corporation Commission, c/o Document Control Center, P.O. Box 2118, Richmond, Virginia 23218-2118. All comments shall refer to Case No. PUR-2024-00131.

(14) On or before October 15, 2024, any person or entity wishing to participate as a respondent in this proceeding may do so by filing a notice of participation at scc.virginia.gov/clk/efiling. Those unable, as a practical matter, to file a notice of participation electronically may file such notice by U.S. mail to the Clerk of the Commission at the address listed in Ordering Paragraph (13). Such notice of participation shall include the email addresses of such parties or their counsel. The respondent simultaneously shall serve a copy of the notice of participation on counsel to the Company. Pursuant to 5 VAC 5-20-80 B, *Participation as a respondent*, of the Commission's Rules of Practice, any notice of participation shall set forth: (i) a precise statement of the interest of the respondent; (ii) a statement of the specific action sought to the extent then known; and (iii) the factual and legal basis for the action. Any organization, corporation, or government body participating as a respondent must be represented by counsel as required by 5 VAC 5-20-30, *Counsel*, of the Rules of Practice. All filings shall refer to Case No. PUR-2024-00131.

(15) Within five (5) business days of receipt of a notice of participation as a respondent, the Company shall serve a copy of the Application on the respondent, unless these materials already have been provided to the respondent.

(16) On or before November 6, 2024, each respondent may file with the Clerk of the Commission at scc.virginia.gov/clk/efiling any testimony and exhibits by which the respondent expects to establish its case. Any respondent unable, as a practical matter, to file testimony and exhibits electronically may file such by U.S. mail to the Clerk of the Commission at the address

listed in Ordering Paragraph (13). Each witness's testimony shall include a summary not to exceed one page. All testimony and exhibits shall be served on the Staff, the Company, and all other respondents simultaneous with its filing. In all filings, respondents shall comply with the Commission's Rules of Practice, as modified herein, including, but not limited to:

5 VAC 5-20-140, *Filing and service*, and 5 VAC 5-20-240, *Prepared testimony and exhibits*.

All filings shall refer to Case No. PUR-2024-00131.

(17) The Staff shall investigate the Application. On or before November 19, 2024, the Staff shall investigate the Application and file with the Clerk of the Commission its testimony and exhibits concerning the Application, and each Staff witness's testimony shall include a summary not to exceed one page. A copy thereof shall be served on counsel to the Company and all respondents.

(18) On or before December 3, 2024, Dominion shall file with the Clerk of the Commission any rebuttal testimony and exhibits that it expects to offer, and each rebuttal witness's testimony shall include a summary not to exceed one page. The Company shall serve a copy of its rebuttal testimony and exhibits on the Staff, all respondents, and DEQ.

(19) Any documents filed in paper form with the Office of the Clerk of the Commission in this docket may use both sides of the paper. In all other respects, except as modified herein, all filings shall comply fully with the requirements of 5 VAC 5-20-150, *Copies and format*, of the Commission's Rules of Practice.

(20) The Commission's Rule of Practice 5 VAC 5-20-260, *Interrogatories or requests for production of documents and things*, shall be modified for this proceeding as follows: responses and objections to written interrogatories and requests for production of documents shall be served within seven (7) calendar days after receipt of the same. In addition to the

service requirements of 5 VAC 5-20-260 of the Rules of Practice, on the day that copies are filed with the Clerk of the Commission, a copy of the interrogatory or request for production shall be served electronically on the party to whom the interrogatory or request for production is directed or the assigned Staff attorney, if the interrogatory or request for production is directed to the Staff.²⁶ Except as modified herein, discovery shall be in accordance with Part IV of the Commission's Rules of Practice, 5 VAC 5-20-240 *et seq.*

(21) This matter is continued.

A COPY hereof shall be sent electronically by the Clerk of the Commission to all persons on the official Service List in this matter. The Service List is available from the Clerk of the Commission.

²⁶ The assigned Staff attorney is identified on the Commission's website, scc.virginia.gov/pages/Case-Information, by clicking "Docket Search," then clicking "Search by Case Information," and entering the case number, PUR-2024-00131 in the appropriate box.