2030 Solution

General Information

Proposing entity name

Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project?

Company proposal ID

PJM Proposal ID

Project title

Project description

Email

Project in-service date

Tie-line impact

Interregional project

Is the proposer offering a binding cap on capital costs?

Additional benefits

Project Components

- 1. Line 259 Rebuild Basin to Chesterfield (99-3418)
- 2. Basin Substation Terminal Equipment Uprate (99-3418)
- 3. Chesterfield Substation Terminal Equipment Uprate (99-3418)
- 4. Line 2028 Rebuild Charlottesville to Fork Union (99-3189)

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

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911

2030 Solution

This proposal includes the following projects: 1. 993189 - Line 2028 Rebuild - Charlottesville - Fork Union. 2. 993418 - Line 259 Uprate - Chesterfield to Basin. 3. 993450 - Line 2193 Rebuild - Bremo to Fork Union 4. 993584 - Lines 211 & 228 Uprate - Chesterfield to Hopewell. 5. 993584 - Line 565 Rebuild - Suffolk to Yadkin

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

06/2030

No

No

No

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

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- 5. Charlottesville Substation Terminal Equipment Uprate (99-3189)6. Fork Union Substation Terminal Equipment Uprate (99-3189)7. Mt Eagle Tap Disconnect Switches Upgrade (99-3189)
- 8. Line 2193 Rebuild Fork Union to Bremo (99-3450)
- 9. Bremo Substation Terminal Equipment Upgrade (99-3450)
- 10. Fork Union Substation Terminal Equipment Upgrade (99-3450)
- 11. Lines 211/228 Rebuild Chesterfield to Hopewell (99-3585)
- 12. Chesterfield Substation Equipment Upgrade (99-3585)
- 13. Sycamore Springs Substation Relay Reset (99-3585)
- 14. Line 565 Rebuild Suffolk to Yadkin (99-3584)
- 15. Suffolk Substation Terminal Equipment Upgrade (99-3584)
- 16. Yadkin Substation Terminal Equipment Upgrade (99-3584)

Transmission Line Upgrade Component

Component title Line 259 Rebuild - Basin to Chesterfield (99-3418)

Project description The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

Impacted transmission line Line # 259

Point A Basin

Point B Chesterfield

Point C

Terrain description

The project is approximately 12.5 miles long in the Piedmont region, traversing Chesterfield County and Richmond City. The area is mostly suburban with some densely populated sections. The project proposes several crossings of I-95 as well as Routes 288 and 895. There are multiple railroad track crossings and wetland areas. There are elevation changes along the route with the highest point being approximately 122 feet and the lowest being approximately 7 feet.

Existing Line Physical Characteristics

Operating voltage 230

Conductor size and type	2500 ACAR (84/7) 90°C MOT [4.92 miles]; 1033.5 ACSS (45/7) 150°C MOT [3.82 miles]; 2-721 ACAR (18/19) 90°C MOT [1.99 miles]; 2-636 ACSR (24/7) 150°C MOT [0.34 miles]					
Hardware plan description	New hardware will be used for line rebuild.					
Tower line characteristics	Existing Structures will be removed and new structures will be used for this rebuild.					
Proposed Line Characteristics						
	Designed	Operating				
Voltage (kV)	230.000000	230.000000				
	Normal ratings	Emergency ratings				
Summer (MVA)	1573.000000	1573.000000				
Winter (MVA)	1648.000000	1648.000000				
Conductor size and type	2-768.2 ACSS/TW/HS (20/7) 250°C MOT					
Shield wire size and type	(2) DNO-11410 OPGW					
Rebuild line length	12.4 Miles					

2025-W1-911 3 Rebuild portion description

Right of way

Construction responsibility

Benefits/Comments

Component Cost Details - In Current Year \$

Engineering & design

Permitting / routing / siting

ROW / land acquisition

Materials & equipment

Construction & commissioning

PERMANENT FACILITIES TO BE INSTALLED: 1. Install forty-eight (48) 230 kV double circuit monopole steel tangent structures on foundations as follows: a. Fourteen (14) Line 259 (line 2065) Structures. b. Twenty (20) Line 259 (line 282) Structures. c. Sixteen (16) Line 259 (line 208) Structures. 2. Install six (6) 230 kV double circuit steel tangent v-string structures on foundations as follows: a. Four (4) Line 259 (line 2065) Structures. b. Two (2) Line 259 (line 282) Structures. 3.Install twenty-nine (29) 230 kV double circuit steel deadend structures on foundations as follows: a. Seven (7) Line 259 (line 2065) Structures. b. Sixteen (16) Line 259 (line 282) Structures. c. Six (6) Line 259 (line 208) Structures. 4. Install three (3) 230 kV double circuit steel delta structures custom arm and v-string phase on foundations as follows: a. Three (3) Lines 259 (lines 282) Structures. 5. Install eighteen (18) 230 kV double circuit steel 2 pole deadend structures on foundations as follows: a. Three (3) Lines 259 (lines 2065) Structures. b. One (1) Lines 2065 (line 282) Structures. c. Seven (7) Line 259 (lines 282) Structures. d. Seven (7) Line 259 (lines 208) Structures. 6. Install one (1) 230 /115kV 4C double circuit steel 3 pole DDE structures on foundations as follows: a. One (1) Line 259 (line 282) Structure 56 (116) 7. Install one (1) 230kV single circuit steel DDE structure on foundations as follows: a. One (1) Line 259 Structure 30 (SC) 8. Install approximately 24.8 miles of 3-phase 2-768.2 ACSS/TW/HS (20/7) "Maumee" conductor as follows: a. 12.4 miles from structures: 259/1A-106A [LINE 259] b. 3.07 miles from structures: 2065/172-143 [LINE 2065] c. 5.35 miles from structures:282/143-94 [LINE 282] d. 3.98 miles from structures: 208/70-96 [LINE 208] 9. Install approximately 24.8 miles of two (2) DNO-11410 OPGW as follows: a. 12.4 miles from structures: 259/1A-106A [LINE 259] b. 3.07 miles from structures: 2065/172-143 [LINE 2065] c. 5.35 miles from structures: 282/143-94 [LINE 282] d. 3.98 miles from structures: 208/70-96 [LINE 208] [Refer to 99-3418 Conceptual Scope and One Line for complete description of rebuild]

Existing Right-of-Way shall be used. The right of way width varies throughout the path of this project ranging from 0-300ft for ranges of structures based off map viewer, or right of way extents provided by Dominion.

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Construction management

Overheads & miscellaneous costs

Contingency

Total component cost

Component cost (in-service year)

Substation Upgrade Component

Component title

Project description

Substation name

Substation zone

Substation upgrade scope

Transformer Information

None

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

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\$100,305,520.00

\$107,427,212.00

Basin Substation Terminal Equipment Uprate (99-3418)

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

Basin

345

Purchase & Install Substation Material: 1. One (1), 230kV, 4000A Center Break Switches (vertically mounted) 2. One (1), 230kV, 4000A Double End Break Switches 3. One (1), 230kV, 80kAIC, 4000A, SF6 Circuit Breaker 4. Three (3), 180kV MO (S), 144kV MCOV, Surge Arresters 5. Three (3), 230kV, Coupling Capacitor Voltage Transformers, Relay Accuracy 6. Approximately 80 FT, 5 IN Sch. 40 Bus 7. Conductor, connectors, conduit, control cable, foundations, structures, and grounding material as per engineering standards. Remove Substation Material: 1. Two (2), 230kV, 2000A Center Break Switches 2. One (1), 230kV, 40kAIC, 3000A, SF6 Circuit Breaker 3. One (1), 230kV, 2000A Wave Trap 4. One (1), 230kV, Coupling Capacitor Voltage Transformers, Relay Accuracy 5. Approximately 80FT, 3 ½ IN Sch. 40 Bus 6. Conductor, connectors, conduit, control cable, foundations, structures, and grounding material as per engineering standards. Purchase & Install Relay Material: 1. One (1), 4510 – SEL-2411 Equipment Annunciator 2. One (1), 1510 – 24" Dual SEL-351 Transmission Breaker w/ Reclosing Panel 3. One (1), 4551 – Axion Breaker Condition Monitor (for 230kV 80kA Circuit Breakers) 4. One (1), 4506 – 3Ø CCVT Potential Makeup Box 5. One (1), 1340 – Dual SEL-411L CD/Fiber Line Panel 6. One (1), 4526_A – Circuit Breaker Fiber Optic Makeup Box 7. Two (2), Panel Retirement

New equipment description

Substation assumptions

Real-estate description

Construction responsibility

Benefits/Comments

Component Cost Details - In Current Year \$

Engineering & design

Permitting / routing / siting

ROW / land acquisition

Materials & equipment

Construction & commissioning

Construction management

Overheads & miscellaneous costs

Contingency

Total component cost

Component cost (in-service year)

1. One (1), 230kV, 4000A Center Break Switches (vertically mounted) 2. One (1), 230kV, 4000A Double End Break Switches 3. One (1), 230kV, 80kAlC, 4000A, SF6 Circuit Breaker 4. Three (3), 180kV MO (S), 144kV MCOV, Surge Arresters 5. Three (3), 230kV, Coupling Capacitor Voltage Transformers, Relay Accuracy 6. One (1), 4510 – SEL-2411 Equipment Annunciator 7. One (1), 1510 – 24" Dual SEL-351 Transmission Breaker w/ Reclosing Panel 8. One (1), 4551 – Axion Breaker Condition Monitor (for 230kV 80kA Circuit Breakers) 9. One (1), 4506 – 3Ø CCVT Potential Makeup Box 10. One (1), 1340 – Dual SEL-411L CD/Fiber Line Panel 11. One (1), 4526_A – Circuit Breaker Fiber Optic Makeup Box

The scope of work depicted on the drawings assumes that there is no overlap with other designs and construction activities, except if mentioned in this Project Summary. Relay Settings and P&C design will be revised as part of the SPE Scope of Work. 4-hole pad connections must be replaced with 6-hole pad connections to maintain 4000A ratings.

Substation is not being expanded.

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\$1,963,412.70

\$2,102,815.32

2025-W1-911

Substation Upgrade Component

Component title

Project description

Substation name

Substation zone

Substation upgrade scope

Transformer Information

None

New equipment description

Substation assumptions

Real-estate description

Construction responsibility

Chesterfield Substation Terminal Equipment Uprate (99-3418)

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

Chesterfield

345

Purchase & Install Substation Material: 1. Four (4), 230kV, 4000A Double End Break Switch 2. Two (2), 230kV, 80kAlC, 4000A, SF6 Circuit Breakers 3. Three (3), 180kV MO (S), 144kV MCOV, Surge Arresters 4. Approximately 270 FT. of 5 in. Sch. 40 AL tube and connectors. 5. Conductor, connectors, conduit, control cable, foundations, structures, and grounding material as per engineering standards. Remove Substation Material: 1. Four (4), 230kV, 2000A Center Break Switches 2. One (1), 230kV, 40kAlC, 2000A, SF6 Circuit Breaker 3. One (1), 230kV, 40kAlC, 3000A, SF6 Circuit Breaker 4. One (1), 230kV, 3000A Wave Trap 5. Three (3), 180kV MO (S), 144kV MCOV, Surge Arresters 6. Approximately 270 FT. of 3 ½ in. Sch. 40 AL tube and connectors. 7. Conductor, connectors, conduit, control cable, foundations, structures, and grounding material as per engineering standards. Purchase & Install Relay Material: 1. Two (2), 4510 – SEL-2411 Equipment Annunciator 2. Two (2), 4551 – Axion Breaker Condition Monitor (for 230kV 80kA Circuit Breakers) 3. One (1), 1340 – Dual SEL-411L CD/Fiber Line Panel 4. Two (2), 4526_A – Circuit Breaker Fiber Optic Makeup Box 5. One (1), Panel Retirement

1. Four (4), 230kV, 4000A Double End Break Switch 2. Two (2), 230kV, 80kAlC, 4000A, SF6 Circuit Breakers 3. Three (3), 180kV MO (S), 144kV MCOV, Surge Arresters 4. Two (2), 4510 – SEL-2411 Equipment Annunciator 5. Two (2), 4551 – Axion Breaker Condition Monitor (for 230kV 80kA Circuit Breakers) 6. One (1), 1340 – Dual SEL-411L CD/Fiber Line Panel 7. Two (2), 4526_A – Circuit Breaker Fiber Optic Makeup Box

The scope of work depicted on the drawings assumes that there is no overlap with other designs and construction activities, except if mentioned in this Project Summary. Relay Settings and P&C design will be revised as part of the SPE Scope of Work. 4-hole pad connections must be replaced with 6-hole pad connections to maintain 4000A ratings.

Substation is not being expanded.

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

Benefits/Comments

Component Cost Details - In Current Year \$

Engineering & design

Permitting / routing / siting

ROW / land acquisition

Materials & equipment

Construction & commissioning

Construction management

Overheads & miscellaneous costs

Contingency

Total component cost

Component cost (in-service year)

Transmission Line Upgrade Component

Component title

Project description

Impacted transmission line

Point A

Point B

Point C

Terrain description

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

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\$3,510,657.30

\$3,759,913.97

Line 2028 Rebuild - Charlottesville to Fork Union (99-3189)

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

Line 2028

Charlottesville

Fork Union

The project is approximately 24 miles long in the Piedmont region, traversing Albemarle, Fluvanna, and Buckingham Counties. The area is mostly rural and some suburban regions. The project crosses Interstate 64 and a Norfolk Southern Track. There are elevation changes along the route with the highest point being approximately 515 feet and the lowest being approximately 279 feet.

Existing Line Physical Characteristics

Operating voltage 230

Conductor size and type 2-636.0 ACSR (24/7) 150°C MOT

Hardware plan description New hardware will be used for line rebuild

Tower line characteristics Existing Structures will be removed and new structures will be used for this rebuild.

Proposed Line Characteristics

Designed Operating

Voltage (kV) 230.000000 230.000000

Normal ratings Emergency ratings

Summer (MVA) 1573.000000 1573.000000

Winter (MVA) 1648.000000 1648.000000

Conductor size and type 2-768.2 ACSS/TW/HS (20/7) 250°C MOT

Shield wire size and type (2) DNO-10410 shield wire

Rebuild line length 23.5

Rebuild portion description

Right of way

Construction responsibility

Benefits/Comments

Component Cost Details - In Current Year \$

Engineering & design

Permitting / routing / siting

ROW / land acquisition

Materials & equipment

Construction & commissioning

EXISTING FACILITIES TO BE REMOVED: 1. Remove (17) existing single circuit 2 pole H-frame concrete suspension strs. 2. Remove (2) existing single circuit 2 pole H-frame steel suspension strs. 3. Remove (1) existing single circuit 2 pole H-frame steel double deadend strs. 4. Remove (116) existing single circuit 2 pole H-frame wood suspension strs. 5. Remove (3) existing single circuit 2 pole H-frame wood double deadend strs. 6. Remove (9) existing single circuit wood 3 pole double deadend strs. 7. Remove (22) existing double circuit steel tower strs on foundations. 8. Remove (1)self-supporting switch str. on foundations. 9. Remove 2-636 ACSR (24/7) conductor. 10. Remove approx. 13.48 miles of 2-721 ACAR (18/19) conductor from str. 2028/74 to 2028/173. 11. Remove approx. 23.90 miles of (2) 3#6 Alumoweld shield wire from str. 2028/1A (I5/1A) to 2028/92 and from 2028/93 to 2028/176. 12. Remove approx. 0.23 miles of (1) 3#6 Alumoweld shield wire from str. 2028/22 (I5/122) to I5/23. 13. Remove approx. 0.17 miles of (2) 7#7 Alumoweld shield wire from str. 2028/92 to 2028/93. MODIFICATIONS TO EXISTING FACILITIES: 1. Replace (15) existing 230kV conductor strain insulator assemblies with (15) 230kV bundled conductor crossing strain assemblies. 2. Replace (21) existing 230kV conductor strain insulator assemblies with (21) 230kV bundled conductor strain assemblies. 3. Replace (32) existing shield wire strain insulator assemblies with (32) OPGW strain assemblies. PERMANENT FACILITIES TO BE INSTALLED: 1. Install (137) 230 kV double circuit monopole steel monopole tangent strs. 2. Install (28) 230 kV double circuit steel monopole dead end strs. on foundations as follows: a. Structures 2028/1, 3-5, 9, 11, 13, 16, 21-23, 31, 34, 48, 54, 68, 73, 86, 99-100, 102, 120, 125, 129, 137, 157, 168, 173 3. Install (4) 230 kV double circuit steel 2 pole deadend strs. on foundations as follows: a. Strs. 2028/12, 14-15, 20 4. Install (1) 230kV double circuit steel backbone DDE str. with switch attachments on foundations as follows: a. Strs. 2028/43B 5. Install approx. 23.90 miles of single circuit 3-phase 2-768.2 ACSS/TW/HS 250 MOT conductor from str. 2028/1A (I5/1A) to 2028/92 and from 2028/93 to 2028/176. 6. Install approx. 24.08 miles of(2) DNO-11410 OPGW from str. 2028/1A to 2028/176. a. Assumes 20 OPGW splices throughout the line.

Existing Right-of-Way will be used.

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Construction management

Overheads & miscellaneous costs

Contingency

Total component cost

Component cost (in-service year)

Substation Upgrade Component

Component title

Project description

Substation name

Substation zone

Substation upgrade scope

Transformer Information

None

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\$106,490,932.00

\$114,051,789.00

Charlottesville Substation Terminal Equipment Uprate (99-3189)

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

Charlottesville

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Purchase & Install Substation Material: 1. Two (2), 230kV, 80kAlC, 4000A, SF6 Circuit Breakers. 2. Two (2), 230kV, 4000A Double End Break Switches. 3. Two (2), 230kV, 4000A Center Break Switches. 4. One (1), 230kV, 4000 A Wave Trap. 5. Approximately 100 FT 5 in. Sch. 40 AL tube bus. 6. Conductor, connectors, conduit, control cable, foundations, steel structures, and grounding material as necessary per engineering standards. Remove Substation Material: 1. Two (2), 230kV, 50kAlC, 3000A, SF6 Circuit Breaker. 2. Two (2), 230kV, 3000A Center Break Switches. 3. Two (2), 230kV, 2000A Center Break Switches. 4. One (1), 230kV, 2000 A Wave Trap 5. Approximately 100 FT 3.5 in. Sch. 40 AL tube bus. Reuse and Relocate Substation Material: 1. Four (4), 230kV, Coupling Capacitor Voltage Transformers 2. Three (3), 230kV, 180kV, 144kV MCOV (S) Arresters Purchase & Install Relay Material: 1. Two (2), 1510 – 24" Dual SEL-351 Transmission Breaker w/ Reclosing Panel 2. Two (2), 4510 – SEL-2411 Equipment Annunciator 3. Two (2), 4551 – Axion Breaker Condition Monitor (for 230kV 80kA Circuit Breakers) 4. Two (2), 4526_A – Circuit Breaker or <84MVA TX Fiber Optic Makeup Box 5. Two (2), Retired Panels

New equipment description

Substation assumptions

Real-estate description

Construction responsibility

Benefits/Comments

Component Cost Details - In Current Year \$

Engineering & design

Permitting / routing / siting

ROW / land acquisition

Materials & equipment

Construction & commissioning

Construction management

Overheads & miscellaneous costs

Contingency

Total component cost

Component cost (in-service year)

Substation Upgrade Component

Component title

1. Two (2), 230kV, 80kAIC, 4000A, SF6 Circuit Breakers. 2. Two (2), 230kV, 4000A Double End Break Switches. 3. Two (2), 230kV, 4000A Center Break Switches. 4. One (1), 230kV, 4000 A Wave Trap. 5. Two (2), 1510 – 24" Dual SEL-351 Transmission Breaker w/ Reclosing Panel 6. Two (2), 4510 – SEL-2411 Equipment Annunciator 7. Two (2), 4551 – Axion Breaker Condition Monitor (for 230kV 80kA Circuit Breakers) 8. Two (2), 4526_A – Circuit Breaker or <84MVA TX Fiber Optic Makeup Box

The scope of work depicted on the drawings assumes that there is no overlap with other designs and construction activities, except if mentioned in this Project Summary. Relay Settings and protection & control design will be revised as part of the SPE scope of work.

Substation is not being expanded.

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\$3,351,321.80

\$3,589,265.86

Fork Union Substation Terminal Equipment Uprate (99-3189)

Project description

Substation name

Substation zone

Substation upgrade scope

Transformer Information

None

New equipment description

Substation assumptions

Real-estate description

Construction responsibility

Benefits/Comments

Component Cost Details - In Current Year \$

Engineering & design

Permitting / routing / siting

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

Fork Union

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Purchase & Install Substation Material: 1. Two (2), 230kV, 4000A, 80kAlC, Circuit Breaker. 2. Two (2), 230kV, 4000A, Double End Break Switch. 3. Two (2), 230kV, 4000A, Center Break Switch 4. One (1), 230kV, 4000A Wave Trap 5. Conductor, connectors, conduit, control cable, foundations, structures, and grounding material as per engineering standards Remove Substation Material: 1. Two (2), 230kV, 3000A, 63kAlC, Circuit Breaker 2. Four (4), 230kV, 3000A, Center Break Switch 3. One (1), 230kV, 3000A, Wave Trap 4. Conductor, connectors, conduit, control cable, foundations, structures, and grounding material as per engineering standards Purchase & Install Relay Material: 1. Two (2), 4551 – Axion Breaker Condition Monitor (for 230kV 80kA Circuit Breakers) Reuse Relay Material: 1. Two (2), 4510 - SEL-2411 Equipment Annunciator 2. Two (2), 1510 – 24" Single SEL-351 Transmission Breaker w/ Reclosing Panel 3. Two (2), 4526_A – Circuit Breaker Fiber Optic Makeup Box

1. Two (2), 230kV, 3000A, 63kAlC, Circuit Breaker 2. Four (4), 230kV, 3000A, Center Break Switch 3. One (1), 230kV, 3000A, Wave Trap 4. Two (2), 4510 - SEL-2411 Equipment Annunciator 5. Two (2), 1510 – 24" Single SEL-351 Transmission Breaker w/ Reclosing Panel 6. Two (2), 4526_A – Circuit Breaker Fiber Optic Makeup Box

The scope of work depicted on the drawings assumes that there is no overlap with other designs and construction activities, except if mentioned in this Project Summary. Relay Settings and P&C design will be revised as part of the SPE Scope of Work. Project 99-3450 is also occurring at Fork Union Substation.

Substation is not being expanded.

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

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ROW / land acquisition

Materials & equipment

Construction & commissioning

Construction management

Overheads & miscellaneous costs

Contingency

Total component cost

Component cost (in-service year)

Substation Upgrade Component

Component title

Project description

Substation name

Substation zone

Substation upgrade scope

Transformer Information

None

New equipment description

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The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

\$2,236,322.70

\$2,395,101.93

Mt Eagle Tap Disconnect Switches Upgrade (99-3189)

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

Mt Eagle Tap

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Purchase & Install Substation Material: 1. Two (2), 230kV, 4000A, 3-Phase Vertical Break Switches with vacuum interrupter attachment. 2. Two (2), Motor Operators, 10-20K IN-LB. 3. Conductor, connectors, conduit, control cable, foundations, steel structures, and grounding material as necessary per engineering standards. Remove Substation Material: 1. Two (2), 230kV, 3000A, 3-Phase Vertical Switch Break with vacuum interrupter attachment. 2. Connectors, foundation, steel structures, and grounding material as necessary per engineering standards. Purchase & Install Relay Material: 1. One (1), 4103 – Non-Earthing Switch MOAB AC/DC Distribution Box. 2. Two (2), 4548 – Non-Earthing Switch MOAB Control Box. 3. One (1), Relay Reset.

^{1.} Two (2), 230kV, 4000A, 3-Phase Vertical Break Switches with vacuum interrupter attachment. 2. Two (2), Motor Operators, 10-20K IN-LB. 3. One (1), 4103 – Non-Earthing Switch MOAB AC/DC Distribution Box. 4. Two (2), 4548 – Non-Earthing Switch MOAB Control Box.

Substation assumptions Real-estate description Construction responsibility Benefits/Comments Component Cost Details - In Current Year \$ Engineering & design Permitting / routing / siting ROW / land acquisition Materials & equipment Construction & commissioning Construction management Overheads & miscellaneous costs Contingency Total component cost Component cost (in-service year) **Transmission Line Upgrade Component** Component title Project description Impacted transmission line Point A Point B

1. The scope of work depicted on the drawings assumes that there is no overlap with other designs and construction activities, except if mentioned in this Project Summary. 2. Relay Settings and protection & control design will be revised as part of the SPE scope of work.

The substation will not be expanded for this project.

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

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Line 2193 Rebuild - Fork Union to Bremo (99-3450)

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

Line 2193

\$692,850.25

Fork Union

Bremo

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Terrain description

Existing Line Physical Characteristics

Operating voltage

Conductor size and type

Hardware plan description

Tower line characteristics

Proposed Line Characteristics

Voltage (kV)

Summer (MVA)

Winter (MVA)

Conductor size and type

Shield wire size and type

Rebuild line length

The project is in the Piedmont region, specifically Fluvanna County. The area is mostly rural. There are a few stream and wetland crossings as well as one minor arterial roads. There are elevation changes along the route with the highest being approximately 308 feet and the lowest being approximately 220 feet.

230

2-721ACAR (18/19) 90°C MOT [1.63 Miles], 2-636 ACSR (24/7) 150°C MOT [0.11 Miles]

New hardware will be used for line rebuild.

Existing Structures will be removed and new structures will be used for this rebuild.

Designed Operating

230.000000 230.000000

Normal ratings Emergency ratings

1573.000000 1573.000000

1648.000000 1648.000000

2-768.2 ACSS/TW/HS (20/7) 250°C MOT

(2) DNO-11410 OPGW

1.74 Miles

Rebuild portion description

Right of way

Construction responsibility

Benefits/Comments

Component Cost Details - In Current Year \$

Engineering & design

Permitting / routing / siting

ROW / land acquisition

Materials & equipment

Construction & commissioning

EXISTING FACILITIES TO BE REMOVED: 1. Remove (8) existing 230kV single circuit wood H-frame structures. 2. Remove (2) existing 230kV single circuit wood 3-pole structures. 3. Remove (1) existing 230kV single circuit steel 3-pole structure. 4. Remove (3) existing 230kV single circuit steel H-frame structures. 5. Remove (1) 230kV standard steel self-supporting switch structure. 6. Remove approx. 0.11 miles of 3-phase twin bundled (2) 636 ACSR (24/7) conductor. 7. Remove approx. 1.63 miles of 3-phase twin bundled (2) 721 ACAR (18/19) conductor. 8. Remove approx. 1.63 miles of two (2) 3#6 Alumoweld shield wire from structure. MODIFICATIONS TO EXISTING FACILITIES: 1. Replace (3) bundled conductor crossing strain insulator assemblies. 2. Replace (3) bundled conductor strain insulator assemblies. PERMANENT FACILITIES TO BE INSTALLED: 1. Install (8) 230kV custom engineered steel double circuit suspension structures on foundations as follows: a. Structures 2193/174-181 2. Install (3) 230kV custom engineered steel double circuit deadend structures on foundations as follows: a. Structures 2193/173, 182, and 186 3. Install (1) 230kV custom engineered steel double circuit deadend 2 pole structure on foundations as follows: a. Structure 2193/185 4. Install (2) 230kV custom engineered steel double circuit double deadend H-Frame structures on foundations as follows: a. Structures 2193/183 and 184A 5. Install (1) 230kV standard steel self-supporting switch structure on foundations as follows: a. Structure 2193/184 b. This includes the installation of (1) horizontally mounted, 4000-amp switch (219326) with HD interrupter bottles. 6. Install (1) set of 3-phase (2) 768.2 ACSS/TW/HS risers to connect the switch to the main line. a. This includes the installation of (1) set of 3-phase floating deadend assemblies to be installed 7. Install approx. 1.74 miles of 3-phase twin bundled (2) 768.2 ACSS/TW/HS conductor from structure 2193/171 to 2193/186A. 8. Install approx. 1.74 miles of two (2) DNO-11410 OPGW from structure 2193/172 to 2193/186. a. Assumes 6 OPGW splices throughout the line 9. Install approx. 0.11 miles of (1) 7#7 Alumoweld shield wire as follows: a. 0.07 miles from structure 2193/171 to 2193/172. b. 0.04 miles from structure 2193/186A. 10. Install approx. 0.11 miles of (1) DNO-11410 OPGW as follows: a. 0.07 miles from structure 2193/171 to 2193/172 b. 0.04 miles from structure 2193/186 to 2193/186A.

Existing Right-of-Way shall be used.

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Construction management

Overheads & miscellaneous costs

Contingency

Total component cost

Component cost (in-service year)

Substation Upgrade Component

Component title

Project description

Substation name

Substation zone

Substation upgrade scope

Transformer Information

None

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

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The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

\$10,805,267.00

\$11,572,440.96

Bremo Substation Terminal Equipment Upgrade (99-3450)

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

Bremo

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Purchase & Install Substation Material: 1. One (1), 230kV, 4000A, 80kAIC, Circuit Breaker. 2. One (1), 230kV, 4000A, Double End Break Switch. 3. One (1), 230kV, 4000A, Center Break Switch. 4. Three (3), 180kV MO (S), 144kV MCOV, Surge Arresters. 5. Approximately 70FT of 5IN SCH 40 AL Tube Bus. 6. Conductor, connectors, control cable, conduit, steel, foundation, and grounding as required per engineering standards. Remove Substation Material: 1. One (1), 230kV, 2000A, SF6 Circuit Breaker. 2. Two (2), 230kV, 2000A Center Break Switch. 3. Three (3), 180kV MO (S), 144kV MCOV, Surge Arresters. 4. Approximately 70FT of 3 ½ IN SCH 40 AL Tube Bus. 5. Conductors, connectors, control cable, conduit, steel, foundation, and grounding as required per engineering standards. Purchase & Install Relay Material: 1. One (1), 1340 – 24" Dual SEL-411L CD/Fiber Line Panel 2. One (1), 1511 – 24" Single SEL-351 Transmission Breaker w/o Reclosing Panel 3. One (1), 4526_A – Circuit Breaker Fiber Optic Makeup Box 4. One (1), 4510 - SEL-2411 Equipment Annunciator 5. One (1), 4551 – Axion Breaker Condition Monitor (for 230kV 80kA Circuit Breakers) 6. Two (2), Panel Retirements

New equipment description

Substation assumptions

Real-estate description

Construction responsibility

Benefits/Comments

Component Cost Details - In Current Year \$

Engineering & design

Permitting / routing / siting

ROW / land acquisition

Materials & equipment

Construction & commissioning

Construction management

Overheads & miscellaneous costs

Contingency

Total component cost

Component cost (in-service year)

Substation Upgrade Component

- 1. One (1), 230kV, 4000A, 80kAlC, Circuit Breaker. 2. One (1), 230kV, 4000A, Double End Break Switch. 3. One (1), 230kV, 4000A, Center Break Switch. 4. Three (3), 180kV MO (S), 144kV MCOV, Surge Arresters. 5. One (1), 1340 24" Dual SEL-411L CD/Fiber Line Panel 6. One (1), 1511 24" Single SEL-351 Transmission Breaker w/o Reclosing Panel 7. One (1), 4526_A Circuit Breaker Fiber Optic Makeup Box 8. One (1), 4510 SEL-2411 Equipment Annunciator 9. One (1), 4551 Axion Breaker Condition Monitor (for 230kV 80kA Circuit Breakers)
- 1. The scope of work depicted on the drawings assumes that there is no overlap with other designs and construction activities, except if mentioned in this Project Summary. 2. Relay Settings and P&C design will be revised as part of the SPE Scope of Work. 3. 4-hole pad connections must be replaced with 6-hole pad connections to maintain 4000A ratings. 4. Project 99-3429 is also occurring at Bremo Substation

Substation is not being expanded.

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\$1,795,906.40

\$1,923,415.33

2025-W1-911

Component title

Project description

Substation name

Substation zone

Substation upgrade scope

Transformer Information

None

New equipment description

Substation assumptions

Real-estate description

Construction responsibility

Benefits/Comments

Component Cost Details - In Current Year \$

Engineering & design

Permitting / routing / siting

Fork Union Substation Terminal Equipment Upgrade (99-3450)

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

Fork Union

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Purchase & Install Substation Material: 1. One (1), 230kV, 4000A, 80kAIC, Circuit Breaker. 2. Four (4) 230kV, 4000A, Double End Break Switch, 3. Conductor, connectors, control cable, conduit, steel, foundation, and grounding as required per engineering standards. Remove Substation Material: 1. One (1), 230kV, 3000A, 63kAIC, Circuit Breaker. 2. Four (4), 230kV, 3000A Center Break Switch. 3. Conductors, connectors, control cable, conduit, steel, foundation, and grounding as required per engineering standards. Purchase & Install Relay Material: 1. One (1), 1340 – 24" Dual SEL-411L CD/Fiber Line Panel 2. One (1), 4551 – Axion Breaker Condition Monitor (for 230kV 80kA Circuit Breakers) 3. One (1), Panel Retirements Reuse Relay Material: 1. One (1), 1510 – 24" Single SEL-351 Transmission Breaker w/ Reclosing Panel 2. One (1), 4526_A – Circuit Breaker Fiber Optic Makeup Box 3. One (1), 4510 - SEL-2411 Equipment Annunciator

- 1. One (1), 230kV, 4000A, 80kAlC, Circuit Breaker. 2. Four (4) 230kV, 4000A, Double End Break Switch, 3. One (1), 1340 24" Dual SEL-411L CD/Fiber Line Panel 4. One (1), 4551 Axion Breaker Condition Monitor (for 230kV 80kA Circuit Breakers)
- 1. The scope of work depicted on the drawings assumes that there is no overlap with other designs and construction activities, except if mentioned in this Project Summary. 2. Relay Settings and P&C design will be revised as part of the SPE Scope of Work. 3. Project 99-3189 is also occurring at Fork Union Substation.

Substation is not being expanded.

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The redacted information is proprietary to the Company; therefore, it is privileged and confidential. ROW / land acquisition The redacted information is proprietary to the Company; therefore, it is privileged and confidential. Materials & equipment The redacted information is proprietary to the Company; therefore, it is privileged and confidential. Construction & commissioning Construction management The redacted information is proprietary to the Company; therefore, it is privileged and confidential. Overheads & miscellaneous costs The redacted information is proprietary to the Company; therefore, it is privileged and confidential. Contingency The redacted information is proprietary to the Company; therefore, it is privileged and confidential. \$1,602,275.50 Total component cost Component cost (in-service year) \$1,716,036.53 **Transmission Line Upgrade Component** Component title Lines 211/228 Rebuild - Chesterfield to Hopewell (99-3585) Project description The redacted information is proprietary to the Company; therefore, it is privileged and confidential. Impacted transmission line Line 211/228 Point A Chesterfield Point B Hopewell Point C The project is approximately 3 miles long in Chesterfield County, the Piedmont region. The area is Terrain description mostly suburban with some densely populated sections. The project would not require any major road or waterway crossings. There are slight elevation changes along the route with the highest point being approximately 211 feet and the lowest being approximately 86 feet. **Existing Line Physical Characteristics** 230 Operating voltage 2-768 ACSS/TW/HS Conductor size and type

Existing hardware will be reused.

Hardware plan description

The existing line consists mainly of 230 kV double circuit weathered steel monopoles built in 2020. **Proposed Line Characteristics** Designed Operating 230.000000 230.000000 Voltage (kV) Normal ratings **Emergency ratings** Summer (MVA) 1573.000000 1573.000000 1648.000000 1648.000000 Winter (MVA) Conductor size and type 2-768.2 ACSS/TW/HS (20/7) 250°C MOT Shield wire size and type Existing Rebuild line length 2.75 Rebuild portion description Existing Facilities to be Removed 1. 2.75 miles of 2-636 ACSR "ROOK" (2 circuits). Existing Facilities to be Transferred or Modified 1. Install a total of eighty-four (84) conductor suspension assemblies as follows: a. Six (6) each on structures 211/20 (228/20) - 211/33 (228/33). b. See Figure 2 for reference drawing 32.610. 2. Install a total of twelve (12) conductor dead-end assemblies as follows: a. Six (6) each on structures 211/19 (228/19) and 211/34 (228/34). b. See Figure 3 for reference drawing 32.630. 3. Install a total of twelve (12) conductor jumper post assemblies as follows: a. Six (6) each on structures 211/20 (228/20) and 211/33 (228/33). b. See Figure 4 for reference drawing 32.720. 4. Install a total of twelve (12) conductor jumper assemblies as follows: a. Six (6) each on structures 211/20 (228/20) and 211/33 (228/33). b. See Figure 5 for reference drawing 39.227. Permanent Facilities to be Installed: 1. 2.75 miles of 2-768 ACSS/TW/HS "Maumee" Conductor (2 circuits). Right of way No new Right of Way required. The redacted information is proprietary to the Company; therefore, it is privileged and confidential. Construction responsibility Benefits/Comments The redacted information is proprietary to the Company; therefore, it is privileged and confidential. Component Cost Details - In Current Year \$ Engineering & design The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

Tower line characteristics

22 2025-W1-911

Permitting / routing / siting

ROW / land acquisition

Materials & equipment

Construction & commissioning

Construction management

Overheads & miscellaneous costs

Contingency

Total component cost

Component cost (in-service year)

Substation Upgrade Component

Component title

Project description

Substation name

Substation zone

Substation upgrade scope

Transformer Information

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

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\$6,340,260.00

\$6,790,418.00

Chesterfield Substation Equipment Upgrade (99-3585)

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

Chesterfield

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Purchase & Install Substation Material: 1. One (1), 230kV, 80kAlC, 4000A, SF6 Circuit Breakers. 2. Approximately 1200 FT 5 in. Sch. 40 AL tube bus. 3. Secondary CTs on branches 228T2326 and G6T211 (Detail engineering to verify with vendor) 4. Conductor, connectors, conduit, control cable, foundations, steel structures, and grounding material as necessary per engineering standards. Remove Substation Material: 1. One (1), 230kV, 50kAlC, 3000A, SF6 Circuit Breakers. 2. Approximately 1200 FT 3 ½ in. Sch. 40 AL tube bus. 3. Secondary CTs on branches 228T2326 and G6T211 (Detail engineering to verify with vendor) 4. Conductor, connectors, conduit, control cable, foundations, steel structures, and grounding material as necessary per engineering standards. Purchase & Install Relay Material: 1. One (1), 4551 – Axion Breaker Condition Monitor (for 230kV 80kA Circuit Breakers) 2. One (1), 4526_A – Circuit Breaker or <84MVA TX Fiber Optic Makeup Box Reuse Substation Material: 1. One (1), 1510 – 24" Dual SEL-351 Transmission Breaker w/ Reclosing Panel 2. One (1), 4510 – SEL-2411 Equipment Annunciator

None

New equipment description

Substation assumptions

Real-estate description

Construction responsibility

Benefits/Comments

Component Cost Details - In Current Year \$

Engineering & design

Permitting / routing / siting

ROW / land acquisition

Materials & equipment

Construction & commissioning

Construction management

Overheads & miscellaneous costs

Contingency

Total component cost

Component cost (in-service year)

- 1. One (1), 230kV, 80kAIC, 4000A, SF6 Circuit Breakers. 2. Approximately 1200 FT 5 in. Sch. 40 AL tube bus. 3. Secondary CTs on branches 228T2326 and G6T211 (Detail engineering to verify with vendor) 4. One (1), 4551 Axion Breaker Condition Monitor (for 230kV 80kA Circuit Breakers) 5. One (1), 4526_A Circuit Breaker or <84MVA TX Fiber Optic Makeup Box
- 1. The scope of work depicted on the drawings assumes that there is no overlap with other designs and construction activities, except if mentioned in this Project Summary. 2. 4-hole pad connections must be replaced with 6-hole pad connections to maintain 4000A ratings. 3. Relay Settings and P&C design will be revised as part of the SPE Scope of Work. 4. This project coordinates with projects 99-3565, rebuilds lines 211/228 from Sycamore Springs to Hopewell, and 99-2651. Rebuilds lines 211/228 from Chesterfield Plant to structures 211/19 and 228/19. 5. It was determined that the GA would not need any additional equipment relocation thus it has been omitted from the submittal.

Substation is not being expanded

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\$1,496,808.20

\$1,603,081.37

Substation Upgrade Component

Component title

Project description

Substation name

Substation zone

Substation upgrade scope

Transformer Information

None

New equipment description

Substation assumptions

Real-estate description

Construction responsibility

Benefits/Comments

Component Cost Details - In Current Year \$

Engineering & design

Permitting / routing / siting

ROW / land acquisition

Materials & equipment

Construction & commissioning

Sycamore Springs Substation Relay Reset (99-3585)

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

Sycamore Springs

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Relay Resets Only

N/A

1. The scope of work depicted on the drawings assumes that there is no overlap with other designs and construction activities, except if mentioned in this Project Summary. 2. 4-hole pad connections must be replaced with 6-hole pad connections to maintain 4000A ratings. 3. Relay Settings and P&C design will be revised as part of the SPE Scope of Work. 4. This project coordinates with projects 99-3565, rebuilds lines 211/228 from Sycamore Springs to Hopewell, and 99-2651. Rebuilds lines 211/228 from Chesterfield Plant to structures 211/19 and 228/19.

Substation is not being expanded

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The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

Construction management The redacted information is proprietary to the Company; therefore, it is privileged and confidential. The redacted information is proprietary to the Company; therefore, it is privileged and confidential. Overheads & miscellaneous costs Contingency The redacted information is proprietary to the Company; therefore, it is privileged and confidential. Total component cost \$40,216.40 Component cost (in-service year) \$43,071.34 Transmission Line Upgrade Component Component title Line 565 Rebuild - Suffolk to Yadkin (99-3584) Project description The redacted information is proprietary to the Company; therefore, it is privileged and confidential. Line 565 Impacted transmission line Point A Suffolk Point B Yadkin Point C Terrain description The project is approximately 13.2 miles long traversing Suffolk County and Chesapeake City in the Coastal Plains region. The area is mostly suburban with some densely populated sections. The project would not require any major road crossings, but a large portion of the line does go through The Dismal Swamp. There are slight elevation changes along the route with the highest point being approximately 101 feet and the lowest being approximately 6 feet. **Existing Line Physical Characteristics** Operating voltage 500 2-2500 ACAR (84/7) Conductor [13.28 miles], 3-1351.5 ACSR (45/7) Conductor [0.15 miles] Conductor size and type Hardware plan description New hardware will be used for line rebuild. Tower line characteristics Existing Structures will be removed and new structures will be used for this rebuild. **Proposed Line Characteristics** Operating Designed

Voltage (kV)	500.000000	500.000000
	Normal ratings	Emergency ratings
Summer (MVA)	4357.000000	4357.000000
Winter (MVA)	5155.000000	5155.000000
Conductor size and type	3-1351 ACSS/TW/HS285 145°C MOT	
Shield wire size and type	DNO-10410 shield wire	
Rebuild line length	13.43 miles	
Rebuild portion description	SC 500 kV Suspension Aluminum Towers 3. (3 SC 500kV Running Angle Weathering Steel Towers 5.00kV Running Angle Weathering Steel Towers 6. 0.15 miles of 3-1351.5 ACSR (45/(57) 500kV Type 5-2KT Towers 2. (4) 5-2 3-Pol 70-90° 4. 13.43 miles of 3-1351 ACSS/TW/HS2 Facilities to be Transferred or Modified 1. Instal assemblies as follows: a. Three (3) assemblies assemblies each on structures 565/253 and 569 jumper idler assemblies as follows: a. Three (3) assemblies on structure 565/254. 3. Install a tot follows: a. Three (3) assemblies each on structure	7) Conductor Permanent Facilities to be Installed 1. e Dead-end 0-70° 3. (1) 5-2 3-Pole Dead-end 85 5. 26.56 miles of DNO-10100 OPGW Existing a total of eighteen (18) 500kV conductor dead-end each on structures 565/190 and 565/255. b. Six (6) 5/254. 2. Install a total of nine (9) 500kV conductor
Right of way	Existing Right-of-Way shall be used.	
Construction responsibility	The redacted information is proprietary to the C	ompany; therefore, it is privileged and confidential.
Benefits/Comments	The redacted information is proprietary to the C	ompany; therefore, it is privileged and confidential.
Component Cost Details - In Current Year \$		
Engineering & design	The redacted information is proprietary to the C	ompany; therefore, it is privileged and confidential.
Permitting / routing / siting	The redacted information is proprietary to the C	ompany; therefore, it is privileged and confidential.
ROW / land acquisition	The redacted information is proprietary to the C	ompany; therefore, it is privileged and confidential.

Materials & equipment

Construction & commissioning

Construction management

Overheads & miscellaneous costs

Contingency

Total component cost

Component cost (in-service year)

Substation Upgrade Component

Component title

Project description

Substation name

Substation zone

Substation upgrade scope

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

\$68,861,360.00

\$73,750,517.00

Suffolk Substation Terminal Equipment Upgrade (99-3584)

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

Suffolk

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Purchase & Install Substation Material: 1. Two (2), 500 kV, 63kAIC, 5000A, SF6 Circuit Breakers. 2. Four (4), 500 kV, 5000A, Double end break switches. 3. Three (3), 396 kV, 318 kV MCOV Station Class Surge Arresters. 4. Three (3), 500 kV, Coupling Capacitor Voltage Transformers. 5. Approximately 250 FT of 6 IN. Sch. 80 AL tube Bus. 6. Conductor, connectors, conduit, control cable, foundations, steel structures, and grounding material as necessary per engineering standards. Remove Substation Material: 1. One (1), 500 kV, 40kAlC, 3000A, SF6 Circuit Breaker. 2. One (1), 500 kV, 50kAlC, 4000A, SF6 Circuit Breaker. 3. Four (4), 500 kV, 3000A, Double End Break Switches. 4. One (1), 500kV, 3000A, Wave Trap. 5. Three (3), 500 kV, Coupling Capacitor Voltage Transformers. 6. Approximately 250 FT 5 in. Sch. 40 AL tube bus. 7. Conductor, connectors, conduit, control cable, foundations, steel structures, and grounding material as necessary per engineering standards. Purchase & Install Relay Material: 1. Two (2), 4510 -SEL-2411 Equipment Annunciator 2. One (1), 1510 – 24" Dual SEL-351 Transmission Breaker w/ Reclosing Panel 3. One (1),1515 – 24" Dual 500KV SEL-351 Transmission Breaker w/ Reclosing Panel 4. One (1), 1511 - SEL-351 Transmission Breaker w/o Reclosing Panel 5. One (1), 1516 -SEL-351 500kV Transmission Breaker w/o Reclosing Panel 6. Two (2), 4535 or 4536 - 500kV Circuit Breaker Condition Monitor 7. One (1), 1340 - Dual SEL-411L DCB/Fiber, CD/Fiber Line Panel (500kV w/ 2 Fiber Cables) 8. Two (2), 4526_D - C.B. w/ BCM Fiber Optic Makeup Box 9. One (1), 4506 – 3Ø CCVT Potential Makeup Box 10. Three (3), Panel Retirements

Transformer Information

None

New equipment description

Substation assumptions

Real-estate description

Construction responsibility

Benefits/Comments

Component Cost Details - In Current Year \$

Engineering & design

Permitting / routing / siting

ROW / land acquisition

Materials & equipment

Construction & commissioning

Construction management

Overheads & miscellaneous costs

Contingency

- 1. Two (2), 500 kV, 63kAlC, 5000A, SF6 Circuit Breakers. 2. Four (4), 500 kV, 5000A, Double end break switches. 3. Three (3), 396 kV, 318 kV MCOV Station Class Surge Arresters. 4. Three (3), 500 kV, Coupling Capacitor Voltage Transformers. 5. Two (2), 4510 SEL-2411 Equipment Annunciator 6. One (1), 1510 24" Dual SEL-351 Transmission Breaker w/ Reclosing Panel 7. One (1),1515 24" Dual 500KV SEL-351 Transmission Breaker w/ Reclosing Panel 8. One (1), 1511 SEL-351 Transmission Breaker w/o Reclosing Panel 9. One (1), 1516 SEL-351 500kV Transmission Breaker w/o Reclosing Panel 10. Two (2), 4535 or 4536 500kV Circuit Breaker Condition Monitor 11. One (1), 1340 Dual SEL-411L DCB/Fiber, CD/Fiber Line Panel (500kV w/ 2 Fiber Cables) 12. Two (2), 4526_D C.B. w/ BCM Fiber Optic Makeup Box 13. One (1), 4506 3Ø CCVT Potential Makeup Box
- 1. The scope of work depicted on the drawings assumes that there is no overlap with other designs and construction activities, except if mentioned in this Project Summary. 2. 4-hole pad connections must be replaced with 6-hole and 8-hole connections to maintain 5000A ratings. 3. Relay Settings and P&C design will be revised as part of the SPE Scope of Work.

Substation is not being expanded.

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

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Total component cost \$5,225,236,40 Component cost (in-service year) \$5,596,227.76 Substation Upgrade Component Yadkin Substation Terminal Equipment Upgrade (99-3584) Component title Project description The redacted information is proprietary to the Company; therefore, it is privileged and confidential. Yadkin Substation name Substation zone 345 Substation upgrade scope Purchase & Install Substation Material: 1. Conductor and connectors as necessary per engineering standards. Remove Substation Material: 1. One (1), 500kV, 5000A, Wave Trap. 2. Conductors, connectors, steel, foundation, and grounding as required per engineering standards. Purchase & Install Relay Material: 1. One (1), 1340 - Dual SEL 411L DCB/Fiber, CD/Fiber Line Panel. 2. One (1), Panel Retirement. Transformer Information None New equipment description 1. One (1), 1340 – Dual SEL 411L DCB/Fiber, CD/Fiber Line Panel. 1. The scope of work depicted on the drawings assumes that there is no overlap with other designs Substation assumptions and construction activities, except if mentioned in this Project Summary. 2. 4-hole pad connections must be replaced with 6-hole and 8-hole connections to maintain 5000A ratings. 3. Relay Settings and P&C design will be revised as part of the SPE Scope of Work. Substation is not being expanded Real-estate description The redacted information is proprietary to the Company; therefore, it is privileged and confidential. Construction responsibility Benefits/Comments The redacted information is proprietary to the Company; therefore, it is privileged and confidential. Component Cost Details - In Current Year \$ The redacted information is proprietary to the Company; therefore, it is privileged and confidential. Engineering & design Permitting / routing / siting The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

ROW / land acquisition

Materials & equipment

Construction & commissioning

Construction management

Overheads & miscellaneous costs

Contingency

Total component cost

Component cost (in-service year)

Congestion Drivers

None

Existing Flowgates

The redacted information is proprietary to the Company; therefore, it is privileged and confidential. The redacted information is proprietary to the Company; therefore, it is privileged and confidential. The redacted information is proprietary to the Company; therefore, it is privileged and confidential. The redacted information is proprietary to the Company; therefore, it is privileged and confidential. The redacted information is proprietary to the Company; therefore, it is privileged and confidential. The redacted information is proprietary to the Company; therefore, it is privileged and confidential. \$236,920.00

FG#	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-GD-LL15	314287	6CHESTF B	314276	6BASIN	1	230	345	Generation Deliverability	Included
2025W1-GD-LL16	314287	6CHESTF B	314276	6BASIN	1	230	345	Generation Deliverability	Included
2025W1-GD-LL13	314747	6BREMO	313867	6BREMODIST	1	230	345	Generation Deliverability	Included
2025W1-GD-LL14	313867	6BREMODIST	313707	6FORK UNION	1	230	345	Generation Deliverability	Included
2025W1-GD-S19	314287	6CHESTF B	314276	6BASIN	1	230	345	Generation Deliverability	Included
2025W1-GD-LL22	314303	6HOPEWLL	314286	6CHESTF A	1	230	345	Generation Deliverability	Included
2025W1-GD-LL24	314303	6HOPEWLL	314286	6CHESTF A	1	230	345	Generation Deliverability	Included
2025W1-GD-LL25	313373	6GRAPEVINE	314765	6MTEAGLE	1	230	345	Generation Deliverability	Included
2025W1-N1-ST7	314287	6CHESTF B	314276	6BASIN	1	230/230	345/345	N-1 Thermal	Included
2025W1-GD-S132	314287	6CHESTF B	314276	6BASIN	1	230	345	Generation Deliverability	Included
2025W1-GD-S40	314303	6HOPEWLL	314286	6CHESTF A	1	230	345	Generation Deliverability	Included
2025W1-GD-S2	314287	6CHESTF B	314276	6BASIN	1	230	345	Generation Deliverability	Included

\$253,741.32

FG#	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2025W1-N1-ST13	314287	6CHESTF B	314276	6BASIN	1	230/230	345/345	N-1 Thermal	Included
2025W1-N1-ST12	314287	6CHESTF B	314276	6BASIN	1	230/230	345/345	N-1 Thermal	Included
2025W1-N1-ST11	314287	6CHESTF B	314276	6BASIN	1	230/230	345/345	N-1 Thermal	Included
2025W1-GD-LL27	314303	6HOPEWLL	314286	6CHESTF A	1	230	345	Generation Deliverability	Included
2025W1-GD-S219	314303	6HOPEWLL	314286	6CHESTF A	1	230	345	Generation Deliverability	Included
2025W1-GD-S127	314287	6CHESTF B	314276	6BASIN	1	230	345	Generation Deliverability	Included
2025W1-N1-LLT3	314287	6CHESTF B	314276	6BASIN	1	230/230	345/345	N-1 Thermal	Included
2025W1-N1-LLT4	314287	6CHESTF B	314276	6BASIN	1	230/230	345/345	N-1 Thermal	Included
2025W1-N1-LLT5	314287	6CHESTF B	314276	6BASIN	1	230/230	345/345	N-1 Thermal	Included
2025W1-IPD-LL42	313867	6BREMODIST	314747	6BREMO	1	230	345	Individual Plant Deliverability	Included
2025W1-IPD-LL43	313707	6FORK UNION	313867	6BREMODIST	1	230	345	Individual Plant Deliverability	Included
2025W1-N1-LLT2	314287	6CHESTF B	314276	6BASIN	1	230/230	345/345	N-1 Thermal	Included
2025W1-N1-LLT40	314287	6CHESTF B	314276	6BASIN	1	230/230	345/345	N-1 Thermal	Included
2025W1-N1-LLT8	314287	6CHESTF B	314276	6BASIN	1	230/230	345/345	N-1 Thermal	Included
2025W1-N1-LLT9	314287	6CHESTF B	314276	6BASIN	1	230/230	345/345	N-1 Thermal	Included
2025W1-N1-ST110	314287	6CHESTF B	314276	6BASIN	1	230/230	345/345	N-1 Thermal	Included
2025W1-GD-LL112	314287	6CHESTF B	314276	6BASIN	1	230	345	Generation Deliverability	Included
2025W1-GD-W21	314287	6CHESTF B	314276	6BASIN	1	230	345	Generation Deliverability	Included
2025W1-GD-W18	314287	6CHESTF B	314276	6BASIN	1	230	345	Generation Deliverability	Included
2025W1-GD-S11	314287	6CHESTF B	314276	6BASIN	1	230	345	Generation Deliverability	Included
2025W1-N1-ST115	314287	6CHESTF B	314276	6BASIN	1	230/230	345/345	N-1 Thermal	Included
2025W1-GD-LL11	314287	6CHESTF B	314276	6BASIN	1	230	345	Generation Deliverability	Included
2025W1-N1-LLT11	314287	6CHESTF B	314276	6BASIN	1	230/230	345/345	N-1 Thermal	Included
2025W1-GD-LL111	314287	6CHESTF B	314276	6BASIN	1	230	345	Generation Deliverability	Included
2025W1-N1-LLT13	314287	6CHESTF B	314276	6BASIN	1	230/230	345/345	N-1 Thermal	Included
2025W1-DOM-EOL1	N/A	N/A	N/A	N/A	N/A	500	345	End of Life	Included
2025W1-IPD-S22	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-IPD-LL13	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included

FG#	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2025W1-IPD-LL14	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-IPD-LL15	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-IPD-LL16	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-IPD-S31	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-N1-LLT29	314287	6CHESTF B	314276	6BASIN	1	230/230	345/345	N-1 Thermal	Included
2025W1-IPD-S26	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-IPD-S25	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-IPD-S24	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-GD-S1	314287	6CHESTF B	314276	6BASIN	1	230	345	Generation Deliverability	Included
2025W1-IPD-S23	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-IPD-S28	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-IPD-S27	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-IPD-S33	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-IPD-S32	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-N1-ST97	314287	6CHESTF B	314276	6BASIN	1	230/230	345/345	N-1 Thermal	Included
2025W1-IPD-S36	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-N1-LLT34	314287	6CHESTF B	314276	6BASIN	1	230/230	345/345	N-1 Thermal	Included
2025W1-IPD-S35	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-IPD-S34	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-N1-LLT30	314287	6CHESTF B	314276	6BASIN	1	230/230	345/345	N-1 Thermal	Included
2025W1-GD-LL9	314287	6CHESTF B	314276	6BASIN	1	230	345	Generation Deliverability	Included
2025W1-N1-LLVM2NEW	289545	05YEAT230	289545	05YEAT230	1	230	345	N-1 Voltage Magnitude	Included
2025W1-N1-LLVM1NEW	289545	05YEAT230	289545	05YEAT230	1	230	345	N-1 Voltage Magnitude	Included
2025W1-IPD-LL2	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-GD-LL1NEW	313707	6FORK UNION	313373	6GRAPEVINE	1	230	345	Generation Deliverability	Included
2025W1-GD-LL33	314765	6MTEAGLE	314749	6CHARLVL	1	230	345	Generation Deliverability	Included
2025W1-GD-W68	314287	6CHESTF B	314276	6BASIN	1	230	345	Generation Deliverability	Included
2025W1-GD-LL8	314287	6CHESTF B	314276	6BASIN	1	230	345	Generation Deliverability	Included

FG#	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-GD-LL31	314303	6HOPEWLL	314286	6CHESTF A	1	230	345	Generation Deliverability	Included
2025W1-IPD-S11	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-IPD-S10	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-IPD-S9	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-GD-S3	314287	6CHESTF B	314276	6BASIN	1	230	345	Generation Deliverability	Included
2025W1-GD-S136	314287	6CHESTF B	314276	6BASIN	1	230	345	Generation Deliverability	Included
2025W1-N1-ST30	314287	6CHESTF B	314276	6BASIN	1	230/230	345/345	N-1 Thermal	Included
2025W1-GD-S135	314287	6CHESTF B	314276	6BASIN	1	230	345	Generation Deliverability	Included
2025W1-N1-ST29	314287	6CHESTF B	314276	6BASIN	1	230/230	345/345	N-1 Thermal	Included
2025W1-N1-ST33	314287	6CHESTF B	314276	6BASIN	1	230/230	345/345	N-1 Thermal	Included
2025W1-IPD-LL10	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-IPD-LL11	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-IPD-LL12	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-GD-LL105	314287	6CHESTF B	314276	6BASIN	1	230	345	Generation Deliverability	Included
2025W1-IPD-LL6	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-IPD-LL7	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-IPD-LL8	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-IPD-LL9	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-N1-ST34	314287	6CHESTF B	314276	6BASIN	1	230/230	345/345	N-1 Thermal	Included
2025W1-IPD-LL3	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-IPD-LL4	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-IPD-LL5	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-IPD-S21	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-IPD-S20	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-IPD-S15	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-IPD-S14	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-GD-S142	314287	6CHESTF B	314276	6BASIN	1	230	345	Generation Deliverability	Included
2025W1-IPD-S13	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included

FG#	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2025W1-IPD-S12	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-IPD-S19	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included
2025W1-GD-LL106	314287	6CHESTF B	314276	6BASIN	1	230	345	Generation Deliverability	Included
2025W1-GD-LL108	314287	6CHESTF B	314276	6BASIN	1	230	345	Generation Deliverability	Included
2025W1-IPD-S16	314276	6BASIN	314287	6CHESTF B	1	230	345	Individual Plant Deliverability	Included

New Flowgates

The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

Financial Information

Capital spend start date 01/2026

Construction start date 06/2028

Project Duration (In Months) 53

Additional Comments

None