

Dominion 2031 Solution

General Information

Proposing entity name	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project?	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
Company proposal ID	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
PJM Proposal ID	978
Project title	Dominion 2031 Solution
Project description	The following projects make up DEV's solution the 2026 PJM Reliability Open Window violations: 1. 993913 - Line 531 EOL Rebuild - Suffolk - Surry 2. 993914 - Line 578 EOL Rebuild - Septa - Surry 3. 993919 - Overdutied Breaker Replacements - Stratus 4. 993933 - Line 2320 Normally Open Operation Change 5. 993918 - Brambleton Bypass 6. 993955 - Loudoun 230kV Bus Split 7. 993934_1 - New STATCOM at Farmville 8. 993934_2 - New Cap Bank at Farmville 9. 993961 - Breaker Replacements At Evergreen Mills, Sycolin Creek and Twin Creek
Email	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
Project in-service date	06/2031
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	Yes
Additional benefits	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

Project Components

1. Line 531 Rebuild - Suffolk to Surry (993913)
2. Line 578 Rebuild - Septa to Surry (993914)
3. Suffolk Substation Line Terminal Upgrade (993913)

4. Surry Substation Line Terminal Upgrade (993913)
5. Septa Substation Line Terminal Upgrade (993914)
6. Surry Substation Line Terminal Upgrade (993914)
7. Stratus Substation Breaker Replacement (993919)
8. Operate Line 2320 as Normally Open (993933)
9. Twin Creek Breaker Upgrade (993933)
10. Brambleton Bypass (993918)
11. Loudoun Bus Split (993955)
12. Loudoun Bus Split Substation Scope (993955)
13. Farmville Substation STATCOM Installation (993934)_Option 1
14. Farmville Substation Capacitor Bank Installation (993934)_Option 2
15. Evergreen Mills Substation Breaker Replacement (993961)_Alternative to 993918 and 993955
16. Sycolin Creek Substation Breaker Replacement (993961)_Alternative to 993933
17. Twin Creeks Substation Breaker Replacement (993961)_Alternative to 993933

Transmission Line Upgrade Component

Component title	Line 531 Rebuild - Suffolk to Surry (993913)
Project description	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
Impacted transmission line	Line 531
Point A	Suffolk
Point B	Surry
Point C	
Terrain description	The project is in the Coastal Plains region, specifically in Surry, Isle of Wight, and Suffolk counties. The area is mostly rural but enters more populated areas as it approaches Suffolk substation. The project crosses numerous wetlands, swamps, and environmentally sensitive resources. There are elevation changes along the route with the highest being approximately 91 feet and the lowest being approximately 20 feet.

Existing Line Physical Characteristics

Operating voltage	500
Conductor size and type	2-2500 ACAR (84/7) 90°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)	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 (VAR.STR.) 145°C MOT	
Shield wire size and type	(2) DNO-10110 shield wire	
Rebuild line length	37.7	
Rebuild portion description	Existing Facilities to be Removed: 1. Remove (172) Weathering Steel SC TOWER - Suspensions. 2. Remove (11) Weathering Steel SC TOWER - Running Angles. 3. Remove (6) Weathering Steel SC TOWER - DDEs. 4. Remove 37.27 miles of (1) 2-2500 ACAR (84/7) 90°C MOT . 5. Remove 37.27 miles of (2) 7#7AW. 6. Backbones are not included in removal Existing Facilities to be Transferred or Modified 1. Replace (3) 500kV conductor DE assemblies on backbone structure 531/1A 2. Replace (6) 500kV conductor DE assemblies on backbone structure 531/189 3. Replace (3) 500kV conductor DE assemblies on backbone structure 531/190 4. Replace (2) shieldwire deadend assemblies with OPGW deadend assemblies on backbone structure 578/1A 5. Replace (6) shieldwire deadend assemblies with OPGW deadend assemblies on backbone structure 578/189 6. Replace (2) shieldwire deadend assemblies with OPGW deadend assemblies on backbone structure 578/190 Permanent Facilities to be Installed: 1. Install (167) 500kV SC Steel SUSP Monopoles. 2. Install (14) 500kV SC Steel DDE Monopoles. 3. Install (8) 500kV SC Steel DDE Monopoles w/H-Pile. 4. Install 37.27 miles of (1)3-1351.5 kcmil ACSS "Martin". 5. Install 37.27 miles of (2) DNO-10100 OPGW.	

Right of way	No new right-of-way will be required for this project.
Construction responsibility	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
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.
Permitting / routing / siting	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	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.
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.
Total component cost	\$219,726,243.00
Component cost (in-service year)	\$249,802,534.00
Transmission Line Upgrade Component	
Component title	Line 578 Rebuild - Septa to Surry (993914)
Project description	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
Impacted transmission line	Line 578
Point A	Septa
Point B	Surry
Point C	

Terrain description	This project runs through the Isle of Wight in Surry and Suffolk Counties. The project area is mostly rural farmland. It crosses a couple of creeks and crosses through the Hog Island Wildlife Management Area in Surry County. There are elevation changes along the route with the highest being 180 feet.	
Existing Line Physical Characteristics		
Operating voltage	500	
Conductor size and type	2-2500 ACAR (84/7) 90°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)	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 (VAR.STR.) 145°C MOT	
Shield wire size and type	(2) DNO-10110 shield wire	
Rebuild line length	11.46	

Rebuild portion description	Existing Facilities to be Removed: 1. Remove (1) CONCRETE-SC 2 POLE HFRAME-SUSPENSION. 2. Remove (1) GALV STEEL-SC 3 POLE-DOUBLE DEAD END. 3. Remove (5) WEATHERING STEEL-SC TOWER-DOUBLE DEAD ENDS. 4. Remove (3) WEATHERING STEEL-SC TOWER-RUNNING ANGLES. 5. Remove (52) WEATHERING STEEL-SC TOWER-SUSPENSIONS. 6. Remove 11.46 miles of (1) 2-2500 ACAR (84/7) 90°C MOT . 7. Remove 11.46 miles of (2) 7#7AW. Existing Facilities to be Transferred or Modified 1. Replace (3) 500kV conductor dead end assemblies on backbone structure 578/1A 2. Replace (2) shield wire dead end assemblies with OPGW dead end assemblies on backbone structure 578/1A Permanent Facilities to be Installed: 1. Install (52) 500kV SC Steel SUSP Monopoles. 2. Install (3) 500kV SC Steel DDE Monopoles. 3. Install (6) 500kV SC Steel DDE Monopoles w/H-Pile. 4. Install 11.46 miles of 3-1351.5 kcmil ACSS "Martin". 5. Install 11.46 miles of 2-DNO-10100 OPGW.
Right of way	No new right-of-way will be required for this project.
Construction responsibility	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
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.
Permitting / routing / siting	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	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.
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.
Total component cost	\$75,777,251.00
Component cost (in-service year)	\$86,149,697.00
Substation Upgrade Component	
Component title	Suffolk Substation Line Terminal Upgrade (993913)

Project description	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
Substation name	Suffolk
Substation zone	345
Substation upgrade scope	Purchase & Install Substation Material: 1. Four (4), 500kV, 5000A, Double End break switches 2. Three (3), 396kV, 318kV MCOV Station Class Surge Arresters 3. Approximately 120 FT of 6 IN Sch. 80 Tubular Bus and Connectors 4. Conductor, connectors, conduit, control cable, foundations, steel structures, and grounding material as necessary per engineering standards Remove Substation Material: 1. Four (4), 500kV, 3000A, Double End break disconnect switches 2. One (1), 500kV, 4000A, 90-200kHz, Wave Trap 3. Approximately 120 FT of 5 IN Sch. 40 Tubular Bus and Connectors 4. Conductor, connectors, conduit, control cable, foundations, steel structures, and grounding material as necessary per engineering standards Purchase & Install Relay Material: 1. One (1), 1340 - Dual SEL-411L DCB/Fiber, CD/Fiber Line Panel (500kV w/ 2 Fiber Cables).
Transformer Information	
None	
New equipment description	1. Four (4), 500kV, 5000A, Double End break switches 2. Three (3), 396kV, 318kV MCOV Station Class Surge Arresters 3. Approximately 120 FT of 6 IN Sch. 80 Tubular Bus and Connectors 4. Conductor, connectors, conduit, control cable, foundations, steel structures, and grounding material as necessary per engineering standards 5. One (1), 1340 - Dual SEL-411L DCB/Fiber, CD/Fiber Line Panel (500kV w/ 2 Fiber Cables).
Substation assumptions	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 5000A ratings. 3. Relay Settings and P&C design will be revised as part of the SPE Scope of Work.
Real-estate description	Substation is not being expanded.
Construction responsibility	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
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.
Permitting / routing / siting	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	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.
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.
Total component cost	\$2,547,214.00
Component cost (in-service year)	\$2,895,879.00
Substation Upgrade Component	
Component title	Surry Substation Line Terminal Upgrade (993913)
Project description	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
Substation name	Surry
Substation zone	345
Substation upgrade scope	Purchase & Install Substation Material: 1. Three (3), 500kV, 5000A, Double End break switches 2. Three (3), 500 kV, Coupling Capacitor Voltage Transformers, Relay Accuracy 3. Three (3), 396kV, 318kV MCOV Station Class Surge Arresters 4. Approximately 105 FT of 6 IN Sch. 80 Tubular Bus and Connectors 5. Conductor, connectors, conduit, control cable, foundations, steel structures, and grounding material as necessary per engineering standards Remove Substation Material: 1. Three (3), 500kV, 3000A, Double End break disconnect switches 2. Three (3), 500 kV, Coupling Capacitor Voltage Transformers, Relay Accuracy 3. One (1), 500kV, 3000A, 90-200kHz, Wave Trap 4. Approximately 105 FT of tubular bus, including 5 IN Sch. 40, 6 IN Sch. 40, and connectors. 5. Conductor, connectors, conduit, control cable, foundations, steel structures, and grounding material as necessary per engineering standards Purchase & Install Relay Material: 1. One (1), 1340 - Dual SEL-411L DCB/Fiber, CD/Fiber Line Panel (500kV w/ 2 Fiber Cables). 2. One (1), 4506 - 3Ø CCVT Potential Makeup Box.
Transformer Information	
None	

New equipment description	1. Three (3), 500kV, 5000A, Double End break switches 2. Three (3), 500 kV, Coupling Capacitor Voltage Transformers, Relay Accuracy 3. Three (3), 396kV, 318kV MCOV Station Class Surge Arresters 4. Approximately 105 FT of 6 IN Sch. 80 Tubular Bus and Connectors 5. Conductor, connectors, conduit, control cable, foundations, steel structures, and grounding material as necessary per engineering standards 6. One (1), 1340 - Dual SEL-411L DCB/Fiber, CD/Fiber Line Panel (500kV w/ 2 Fiber Cables). 7. One (1), 4506 - 3Ø CCVT Potential Makeup Box.
Substation assumptions	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 5000A ratings. 3. Relay Settings and P&C design will be revised as part of the SPE Scope of Work.
Real-estate description	Substation is not being expanded.
Construction responsibility	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
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.
Permitting / routing / siting	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	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.
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.
Total component cost	\$2,707,317.00
Component cost (in-service year)	\$3,077,897.00
Substation Upgrade Component	
Component title	Septa Substation Line Terminal Upgrade (993914)

Project description	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
Substation name	Septa
Substation zone	345
Substation upgrade scope	Purchase & Install Substation Material: 1. Two (2), 500kV, 5000A, Double End break switches 2. Three (3), 500 kV, Coupling Capacitor Voltage Transformers, Relay Accuracy 3. Approximately 920 FT of 6 IN Sch. 80 Tubular Bus and Connectors 4. Conductor, connectors, conduit, control cable, foundations, steel structures, and grounding material as necessary per engineering standards Remove Substation Material: 1. Two (2), 500kV, 3000A, Double End break disconnect switches 2. Three (3), 500 kV, Coupling Capacitor Voltage Transformers, Relay Accuracy 3. One (1), 500kV, 3000A, 90-200kHz, Wave Trap 4. Approximately 920 FT of 5 IN Sch. 40 Tubular Bus and Connectors 5. Conductor, connectors, conduit, control cable, foundations, steel structures, and grounding material as necessary per engineering standards Purchase & Install Relay Material: 1. One (1), 1340 - Dual SEL-411L DCB/Fiber, CD/Fiber Line Panel (500kV w/ 2 Fiber Cables). 2. One (1), 4506 - 3Ø CCVT Potential Makeup Box.
Transformer Information	
None	
New equipment description	1. Two (2), 500kV, 5000A, Double End break switches 2. Three (3), 500 kV, Coupling Capacitor Voltage Transformers, Relay Accuracy 3. Approximately 920 FT of 6 IN Sch. 80 Tubular Bus and Connectors 4. Conductor, connectors, conduit, control cable, foundations, steel structures, and grounding material as necessary per engineering standards 5. One (1), 1340 - Dual SEL-411L DCB/Fiber, CD/Fiber Line Panel (500kV w/ 2 Fiber Cables). 6. One (1), 4506 - 3Ø CCVT Potential Makeup Box.
Substation assumptions	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 5000A ratings. 3. Relay Settings and P&C design will be revised as part of the SPE Scope of Work.
Real-estate description	Substation is not being expanded.
Construction responsibility	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
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.

Permitting / routing / siting	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	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.
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.
Total component cost	\$2,745,161.00
Component cost (in-service year)	\$3,120,921.00
Substation Upgrade Component	
Component title	Surry Substation Line Terminal Upgrade (993914)
Project description	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
Substation name	Surry
Substation zone	345
Substation upgrade scope	Purchase & Install Substation Material: 1. Five (5), 500kV, 5000A, Double End break switches 2. Three (3), 500 kV, Coupling Capacitor Voltage Transformers, Relay Accuracy 3. Three (3), 396kV, 318kV MCOV Station Class Surge Arresters 4. Approximately 315 FT of 6 IN Sch. 80 Tubular Bus and Connectors 5. Conductor, connectors, conduit, control cable, foundations, steel structures, and grounding material as necessary per engineering standards Remove Substation Material: 1. Five (5), 500kV, 3000A, Double End break disconnect switches 2. Three (3), 500 kV, Coupling Capacitor Voltage Transformers, Relay Accuracy 3. One (1), 500kV, 3000A, 90-200kHz, Wave Trap 4. Approximately 315 FT of tubular bus, including 3-1/2 IN Sch. 40, 5 IN Sch. 40, 6 IN Sch. 40, and connectors 5. Conductor, connectors, conduit, control cable, foundations, steel structures, and grounding material as necessary per engineering standards Purchase & Install Relay Material: 1. One (1), 1340 - Dual SEL-411L DCB/Fiber, CD/Fiber Line Panel (500kV w/ 2 Fiber Cables). 2. One (1), 4506 - 3Ø CCVT Potential Makeup Box.

Transformer Information

None	
New equipment description	1. Five (5), 500kV, 5000A, Double End break switches 2. Three (3), 500 kV, Coupling Capacitor Voltage Transformers, Relay Accuracy 3. Three (3), 396kV, 318kV MCOV Station Class Surge Arresters 4. Approximately 315 FT of 6 IN Sch. 80 Tubular Bus and Connectors 5. Conductor, connectors, conduit, control cable, foundations, steel structures, and grounding material as necessary per engineering standards 6. One (1), 1340 - Dual SEL-411L DCB/Fiber, CD/Fiber Line Panel (500kV w/ 2 Fiber Cables). 7. One (1), 4506 - 3Ø CCVT Potential Makeup Box.
Substation assumptions	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 5000A ratings. 3. Relay Settings and P&C design will be revised as part of the SPE Scope of Work.
Real-estate description	Substation is not being expanded.
Construction responsibility	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
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.
Permitting / routing / siting	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	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.
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.
Total component cost	\$3,975,606.00
Component cost (in-service year)	\$4,519,790.00
Substation Upgrade Component	

Component title	Stratus Substation Breaker Replacement (993919)
Project description	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
Substation name	Stratus Substation
Substation zone	345
Substation upgrade scope	Purchase & Install Substation Material: 1. Six (6), 230kV, 4000A, 80kA, SF6 Circuit Breakers. 2. Approximately 2,000 FT of 5 IN Sch. 40 Tubular Bus 3. Seventeen (17), Three Phase Bus Supports 4. One (1), Dual Insulator Three Phase Bus Support 5. Eighty (80), Single Phase Bus Supports 6. Two (2), Dual Insulator Single Phase Bus Supports 7. Twenty-four (24), Dual Insulator A-Frame Supports 8. Four (4), 230kV Coupling Capacitor Voltage Transformers, Relay Accuracy 9. Conductors, connectors, control cables, foundations, steel, grounding connections as per engineering standards Removal Substation Material: 1. Two (2), 4507 - Single Phase CCVT MU Box (4507) 2. Six (6), 230kV, 4000A, 63kA, SF6 Circuit Breakers. 3. Twelve (12), Three Phase Bus Supports 4. Thirty-Seven (37), Single Phase Bus Supports 5. Twenty-Four (24), A-Frame Supports 6. Approximately 1,840 FT of 5 IN Sch. 40 Tubular Bus 7. Conductors, connectors, control cables, foundations, steel, and grounding connections as per engineering standards Reuse Relay Material: 1. Six (6), 1510 - Dual SEL-351 Transmission Breaker w/ Reclosing Breaker Purchase & Install Relay Material: 1. Six (6), 4510 - SEL-2411 Breaker Annunciator 2. Six (6), 4526_D - C.B. w/ BCM Fiber Optic Makeup Box 3. Six (6), 4551_A - 230kV Axion Breaker Condition Monitor (For 230kV 80kA CB) 4. Two (2), 4506 - 3Ø CCVT Potential Makeup Box
Transformer Information	
None	
New equipment description	1. Six (6), 230kV, 4000A, 80kA, SF6 Circuit Breakers. 2. Approximately 2,000 FT of 5 IN Sch. 40 Tubular Bus 3. Seventeen (17), Three Phase Bus Supports 4. One (1), Dual Insulator Three Phase Bus Support 5. Eighty (80), Single Phase Bus Supports 6. Two (2), Dual Insulator Single Phase Bus Supports 7. Twenty-four (24), Dual Insulator A-Frame Supports 8. Four (4), 230kV Coupling Capacitor Voltage Transformers, Relay Accuracy 9. Six (6), 4510 - SEL-2411 Breaker Annunciator 10. Six (6), 4526_D - C.B. w/ BCM Fiber Optic Makeup Box 11. Six (6), 4551_A - 230kV Axion Breaker Condition Monitor (For 230kV 80kA CB) 12. Two (2), 4506 - 3Ø CCVT Potential Makeup Box
Substation assumptions	The project also includes the installation of grounding conductors and associated grounding equipment, as required, to support the substation's upgrade from a 63kA to an 80kA interrupting rating. The conceptual design provides for a full ground grid overlay to achieve the 80kA interrupting rating.
Real-estate description	Substation is not being expanded.

Construction responsibility	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
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.
Permitting / routing / siting	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	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.
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.
Total component cost	\$11,460,486.00
Component cost (in-service year)	\$13,029,206.00
Transmission Line Upgrade Component	
Component title	Operate Line 2320 as Normally Open (993933)
Project description	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
Impacted transmission line	Line 2320
Point A	Twin Creeks
Point B	Pleasant View
Point C	
Terrain description	Not applicable for this scope of work.

Existing Line Physical Characteristics

Operating voltage	230
Conductor size and type	(2)-1033.5 ACSR (45/7) "ORTOLAN"
Hardware plan description	Conductor dead-end assemblies will be reused. Existing hardware to be reused are expected to be in good condition.
Tower line characteristics	Existing structures to be reused are expected to be in good condition.

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 (20/7) 250°C MOT	
Shield wire size and type	Static Wire	
Rebuild line length	0.065	
Rebuild portion description	EXISTING FACILITIES TO BE REMOVED 1. (1) CONCRETE SC 230KV DDE 3-POLE 2. 0.065 miles of (2)-1033.5 ACSR (45/7) "ORTOLAN" 3. 0.065 miles of STATIC WIRE MODIFICATIONS TO EXISTING FACILITIES 1. Replace (3) 230kV conductor dead-end assemblies on backbone structure 2320/1C 2. Replace (3) 230kV conductor dead-end assemblies on monopole structure 2320/1A 3. Cut and Transfer Conductor and OPGW to New Backbone at Twin Creeks PERMANENT FACILITIES TO BE INSTALLED 1. (1) SC 230kV H-FRAME SWITCH STRUCTURE 2. (1) SC 230kV HEAVY DUTY BACKBONE W/ SWITCHES 3. 0.065 miles of (2)-768.2 ACSS/TW "MAUMEE" (including dampers and splices) 4. 0.065 miles of STATIC WIRE (including dampers and splices) 5. 0.05 miles of Fiber (including dampers and splices)	
Right of way	Existing Right Of Way will be used.	
Construction responsibility	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.	

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.
Permitting / routing / siting	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	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.
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.
Total component cost	\$3,480,914.00
Component cost (in-service year)	\$3,957,384.00
Substation Upgrade Component	
Component title	Twin Creek Breaker Upgrade (993933)
Project description	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
Substation name	Twin Creek
Substation zone	345
Substation upgrade scope	Purchase & Install Substation Material: 1. One (1), 230kV, 63kAIC, 4000A, SF6 Circuit Breaker 2. Two (2), 230kV, 4000A, Vertical Break Switches 3. One (1), 230kV, Coupling Capacitor Voltage Transformers, Relay Accuracy 4. Conductor, connectors, conduit, control cable, foundations, steel structures, and grounding material as necessary per engineering standards Purchase & Install Relay Material: 1. One (1), 4510 - SEL-2411 Equipment Annunciator 2. One (1), 1517 - SEL-351 Dummy Breaker Panel 3. One (1), 4507 - 1Ø CCVT Potential Makeup Box 4. One (1), 4526_A - Circuit Breaker or <84MVA TX Fiber Optic Makeup Box

Transformer Information

None

New equipment description

1. One (1), 230kV, 63kAIC, 4000A, SF6 Circuit Breaker 2. Two (2), 230kV, 4000A, Vertical Break Switches 3. One (1), 230kV, Coupling Capacitor Voltage Transformers, Relay Accuracy

Substation assumptions

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.

Real-estate description

Substation is not being expanded.

Construction responsibility

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

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.

Permitting / routing / siting

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

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.

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.

Total component cost

\$1,031,126.00

Component cost (in-service year)

\$1,172,267.00

Substation Upgrade Component

Component title

Brambleton Bypass (993918)

Project description	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
Substation name	Brambleton
Substation zone	345
Substation upgrade scope	Purchase & Install Substation Material: 1. Twelve (12), Surge Arresters 180 kV MO, 144 kV MCOV 2. Conductor, connectors, conduit, control cables, foundations, steel structures, and grounding material as necessary per engineering standards
Transformer Information	
None	
New equipment description	1. Twelve (12), Surge Arresters 180 kV MO, 144 kV MCOV
Substation assumptions	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.
Real-estate description	The substation will not be expanded for this project.
Construction responsibility	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
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.
Permitting / routing / siting	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	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.
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.
Total component cost	\$519,403.00

Component cost (in-service year)	\$590,499.00	
Transmission Line Upgrade Component		
Component title	Loudoun Bus Split (993955)	
Project description	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.	
Impacted transmission line	Lines 2030 & 2140	
Point A	Loudoun	
Point B	Gainesville	
Point C	Youngs Branch	
Terrain description	Not Applicable	
Existing Line Physical Characteristics		
Operating voltage	230	
Conductor size and type	2-636.0 ACSR (24/7) 150°C MOT & 2-768.2 ACC (37/0) 90°C MOT	
Hardware plan description	Conductor dead-end assemblies will be reused. Existing hardware to be reused are expected to be in good condition.	
Tower line characteristics	Existing hardware to be reused are expected to be in good condition.	
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	N/A - Reuse existing
Rebuild line length	0.15
Rebuild portion description	Existing Facilities to be Removed: 1. (1) SC 230KV DDE 3-POLE - Structure 2030/1 2. 0.05 miles of (2)-636 ACSR (24/7) "ROOK" 3. 0.1 miles of (2)-795 AAC (37/0) Permanent Facilities to be Installed: 1. (2) SC 230KV DDE 3-POLE 2. 0.05 miles of (2)-768.2 ACSS/TW "MAUMEE" - Str. 2140/5 to 2140/3A 3. 0.1 miles of (2)-768.2 ACSS/TW "MAUMEE" - Str. 2030/1 to 2030/1B Existing Facilities to be Transferred or Modified 1. Replace (3) 230kV conductor dead-end assemblies on 3-pole structure 2140/3A 2. Replace (3) 230kV conductor dead-end assemblies on Lattice A-Frame structure 2030/1B 3. Cut and Transfer Conductor and Static to new 3-pole Structure 2030/1
Right of way	No new ROW shall be required for this scope.
Construction responsibility	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
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.
Permitting / routing / siting	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	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.
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.
Total component cost	\$3,084,202.00
Component cost (in-service year)	\$3,506,370.00
Substation Upgrade Component	
Component title	Loudoun Bus Split Substation Scope (993955)

Project description	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
Substation name	Loudoun
Substation zone	358
Substation upgrade scope	1. Remove a section of 230kV bus between the 2nd and 3rd rows of 230kV breakers. This will create two additional buses numbered bus 5 and bus 6. 2. Purchase and install six (6) 230kV CCVT's for installation on buses #3 and #4. Note the existing bus CCVT's will physically be connected to new buses #5 and #6. 3. Line termination for lines 2030 and 2140 will swap. Renumber switches, breakers and CCVTs as appropriate. 4. Purchase and install one (1) 230kV capacitor bank. Assume 178.2kVAR. 5. Purchase and install one (1) 230kV, 4000A, 80kA Sync Close breaker for capacitor bank. 6. Purchase and install one (1) 230kV, 3000A center break switch. 7. Purchase and install nine (9) 180kV MOV, 144kV MCOV lightning arresters for each end of underground cable and at the capacitor bank. 8. Purchase and install 230kV Cable and Potheads as required to connect the 230kV Cap bank to 230kV bus number 2. 9. Purchase and install one (1) 230kV, 4000A, 80kA breaker to be used as new Transformer #2 low-side breaker. 10. Purchase and install one (1) 230kV, 4000A switch to be used as bus tie breaker disconnect switch. 11. Modify Line relaying as required for lines 2030 and 2140. 12. Modify relaying for the additional bus panels as required, including the installation of two new bus panels for new buses 5 and 6. 13. Purchase and install relay panels as required for new bus tie breaker 14. Purchase and install relay panels as required for new capacitor bank. Relay Material: 1. Two (2), 1110 - Dual SEL-587Z/351A Transmission Bus Panel 2. Two (2), 4506 - 3Ø CCVT Potential Makeup Box 3. Two (2), 4200 - Bus Differential C.T. Makeup Box 4. Two (2), 4510 - SEL-2411 Equipment Annunciator 5. One (1), 4521 - Synchronous Breaker Monitor. 6. One (1), 4526_B - Sync. Breaker Fiber Makeup Box. 7. One (1), 1518 - SEL-351 Cap. Bank Breaker w/ Sync. Close Panel. 8. One (1), 1558 - SEL-487V Transmission Cap. Bank Panel. 9. One (1), 4518 - Cap. Bank Mid-Point Potential Makeup Box 10. One (1), 1511 - SEL-351 Transmission Breaker w/o Reclosing Panel 11. One (1), 4526_A - Circuit Breaker Fiber Optic Makeup Box 12. One (1), 4551 - Axion Breaker Condition Monitor (for 230kV 80kA Circuit Breakers) 13. See Standards Recommendations for Station Service
Transformer Information	
None	

New equipment description	1. Purchase and install six (6) 230kV CCVT's for installation on buses #3 and #4. Note the existing bus CCVT's will physically be connected to new buses #5 and #6. 2. Purchase and install one (1) 230kV capacitor bank. Assume 178.2kVAR. 3. Purchase and install one (1) 230kV, 4000A, 80kA Sync Close breaker for capacitor bank. 4. Purchase and install one (1) 230kV, 3000A center break switch. 5. Purchase and install nine (9) 180kV MOV, 144kV MCOV lightning arresters for each end of underground cable and at the capacitor bank. 6. Purchase and install 230kV Cable and Potheads as required to connect the 230kV Cap bank to 230kV bus number 2. 7. Purchase and install one (1) 230kV, 4000A, 80kA breaker to be used as new Transformer #2 low-side breaker. 8. Purchase and install one (1) 230kV, 4000A switch to be used as bus tie breaker disconnect switch. 9. Purchase and install relay panels as required for new bus tie breaker 10. Purchase and install relay panels as required for new capacitor bank. 11. Two (2), 1110 - Dual SEL-587Z/351A Transmission Bus Panel 12. Two (2), 4506 - 3Ø CCVT Potential Makeup Box 13. Two (2), 4200 - Bus Differential C.T. Makeup Box 14. Two (2), 4510 - SEL-2411 Equipment Annunciator 15. One (1), 4521 - Synchronous Breaker Monitor. 16. One (1), 4526_B - Sync. Breaker Fiber Makeup Box. 17. One (1), 1518 - SEL-351 Cap. Bank Breaker w/ Sync. Close Panel. 18. One (1), 1558 - SEL-487V Transmission Cap. Bank Panel. 19. One (1), 4518 - Cap. Bank Mid-Point Potential Makeup Box 20. One (1), 1511 - SEL-351 Transmission Breaker w/o Reclosing Panel 21. One (1), 4526_A - Circuit Breaker Fiber Optic Makeup Box 22. One (1), 4551 - Axion Breaker Condition Monitor (for 230kV 80kA Circuit Breakers)
Substation assumptions	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.
Real-estate description	Substation is not being expanded
Construction responsibility	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
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.
Permitting / routing / siting	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	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.
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.
Total component cost	\$8,011,310.00
Component cost (in-service year)	\$9,107,904.00
Substation Upgrade Component	
Component title	Farmville Substation STATCOM Installation (993934)_Option 1
Project description	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
Substation name	Farmville
Substation zone	358
Substation upgrade scope	Purchase & Install Substation Material: 1. Site preparation and grading as required for installation of the STATCOM Station 2. One (1), 50 MVAR STATCOM 3. Three (3), Surge Arresters 180 kV MO, 144 kV MCOV 4. Three (3), 230kV CCVT's 5. Two (2), 230kV, 3000A, 63kAIC, SF6, Circuit Breakers 6. Three (3), 230kV, 3000A, Center Break Switches 7. One (1), 230kV, 3000A, Motor Operated Center Break Switch 8. Approximately 1250 linear FT of chain link fence 9. Approximately 200 FT of Cable Trough, along with one road crossing section 10. Approximately 185 FT of 5 IN SCH 40 AL Tube Bus 11. Foundations and steel structures as required per current engineering standards 12. Conductors, connectors, conduit, control cable, and grounding materials as per current engineering standards Remove Substation Material: 1. Approximately 505 linear FT of chain link fence 2. Approximately 135 FT of 3 ½ IN SCH 40 AL Tube Bus 3. Conductors, connectors, conduit, control cable, and grounding materials as per current engineering standards Purchase & Install Relay Material: 1. One (1), 1510 - Dual SEL-351 Transmission Breaker w/ Reclosing Panel 2. One (1), 1511 - Dual SEL-351 Transmission Breaker wo/ Reclosing Panel 3. One (1), 1110 - Dual SEL-587Z/351A Transmission Bus Panel 4. One (1), 4506 - 3Ø CCVT Potential Makeup Box 5. One (1), 4200 - Bus Differential C.T. Makeup Box 6. One (1), 4548 - Non-Earthing Switch MOAB Control Box 7. One (1), 4103 - Local Control MOAB AC/DC Distribution Box 8. One (1), 4551 - 230kV Axion Breaker Condition Monitor 9. Two (2), 4510 - SEL-2411 Equipment Annunciator 10. Two (2), 4526_A - Circuit Breaker or <84MVA TX Fiber Optic Makeup Box 11. One (1), 4541 - Control Cable M.U. Box
Transformer Information	

None

New equipment description

1. Site preparation and grading as required for installation of the STATCOM Station 2. One (1), 50 MVAR STATCOM 3. Three (3), Surge Arresters 180 kV MO, 144 kV MCOV 4. Three (3), 230kV CCVT's 5. Two (2), 230kV, 3000A, 63kAIC, SF6, Circuit Breakers 6. Three (3), 230kV, 3000A, Center Break Switches 7. One (1), 230kV, 3000A, Motor Operated Center Break Switch 8. Approximately 1250 linear FT of chain link fence 9. Approximately 200 FT of Cable Trough, along with one road crossing section 10. Approximately 185 FT of 5 IN SCH 40 AL Tube Bus 11. Conductors, connectors, conduit, control cable, and grounding materials as per current engineering standards 12. One (1), 1510 - Dual SEL-351 Transmission Breaker w/ Reclosing Panel 13. One (1), 1511 - Dual SEL-351 Transmission Breaker wo/ Reclosing Panel 14. One (1), 1110 - Dual SEL-587Z/351A Transmission Bus Panel 15. One (1), 4506 - 3Ø CCVT Potential Makeup Box 16. One (1), 4200 - Bus Differential C.T. Makeup Box 17. One (1), 4548 - Non-Earthling Switch MOAB Control Box 18. One (1), 4103 - Local Control MOAB AC/DC Distribution Box 19. One (1), 4551 - 230kV Axion Breaker Condition Monitor 20. Two (2), 4510 - SEL-2411 Equipment Annunciator 21. Two (2), 4526_A - Circuit Breaker or <84MVA TX Fiber Optic Makeup Box 22. One (1), 4541 - Control Cable M.U. Box

Substation assumptions

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. STATCOM equipment at Northern Neck station - Converter Trailer, Main Power Transformer, Heat Exchanger Cooling System will be relocated and reused at Farmville station

Real-estate description

Substation is not being expanded.

Construction responsibility

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

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.

Permitting / routing / siting

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

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.

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.
Total component cost	\$20,779,077.00
Component cost (in-service year)	\$23,623,332.00
Substation Upgrade Component	
Component title	Farmville Substation Capacitor Bank Installation (993934)_Option 2
Project description	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
Substation name	Farmville
Substation zone	358
Substation upgrade scope	Purchase & Install Substation Material: 1. Site preparation and grading as required for installation of the Capacitor Bank 2. One (1), 48 MVAR Capacitor Bank 3. Three (3), Surge Arresters 180 kV MO, 144 kV MCOV 4. Three (3), 230kV CCVT's 5. One (1), 230kV, 3000A, 63kAIC, SF6, Circuit Breaker 6. One (1), 230kV, 3000A, 50kAIC, SF6, Sync Close Circuit Breaker 7. Three (3), 230kV, 3000A, Center Break Switches 8. Approximately 435 linear FT of chain link fence 9. Approximately 200 FT of Cable Trough, along with one road crossing section 10. Approximately 200 FT of 3½ IN SCH 40 AL Tube Bus 11. Foundations and steel structures as required per current engineering standards 12. Conductors, connectors, conduit, control cable, and grounding materials as per current engineering standards Remove Substation Material: 1. Approximately 230 linear FT of chain link fence 2. Approximately 135 FT of 3½ IN SCH 40 AL Tube Bus 3. Conductors, connectors, conduit, control cable, and grounding materials as per current engineering standards Purchase & Install Relay Material: 1. One (1), 1510 - Dual SEL-351 Transmission Breaker w/ Reclosing Panel 2. One (1), 1110 - Dual SEL-587Z/351A Transmission Bus Panel 3. One (1), 4506 - 3Ø CCVT Potential Makeup Box 4. One (1), 4200 - Bus Differential C.T. Makeup Box 5. Two (2), 4510 - SEL-2411 Equipment Annunciator 6. One (1), 4526_A - Circuit Breaker or <84MVA TX Fiber Optic Makeup Box 7. One (1), 1518 - SEL-351 Cap. Bank Breaker w/ Sync. Close Panel 8. One (1), 1558 - SEL-487V Transmission Cap. Bank Panel 9. One (1), 4518 - Cap. Bank Mid-Point Potential Makeup Box 10. One (1), 4521 - Synchronous Breaker Monitor 11. One (1), 4526_B - Sync. Breaker Fiber Makeup Box Reuse Relay Material: 1. One (1), Dual SEL-421-5 DCB/PLC Line Panel (Reconfiguration of Existing Line Panel Only)
Transformer Information	
None	

New equipment description	1. One (1), 48 MVAR Capacitor Bank 2. Three (3), Surge Arresters 180 kV MO, 144 kV MCOV 3. Three (3), 230kV CCVT's 4. One (1), 230kV, 3000A, 63kAIC, SF6, Circuit Breaker 5. One (1), 230kV, 3000A, 50kAIC, SF6, Sync Close Circuit Breaker 6. Three (3), 230kV, 3000A, Center Break Switches 7. Approximately 435 linear FT of chain link fence 8. Approximately 200 FT of Cable Trough, along with one road crossing section 9. Approximately 200 FT of 3½ IN SCH 40 AL Tube Bus 10. One (1), 1510 - Dual SEL-351 Transmission Breaker w/ Reclosing Panel 11. One (1), 1110 - Dual SEL-587Z/351A Transmission Bus Panel 12. One (1), 4506 - 3Ø CCVT Potential Makeup Box 13. One (1), 4200 - Bus Differential C.T. Makeup Box 14. Two (2), 4510 - SEL-2411 Equipment Annunciator 15. One (1), 4526_A - Circuit Breaker or <84MVA TX Fiber Optic Makeup Box 16. One (1), 1518 - SEL-351 Cap. Bank Breaker w/ Sync. Close Panel 17. One (1), 1558 - SEL-487V Transmission Cap. Bank Panel 18. One (1), 4518 - Cap. Bank Mid-Point Potential Makeup Box 19. One (1), 4521 - Synchronous Breaker Monitor 20. One (1), 4526_B - Sync. Breaker Fiber Makeup Box
Substation assumptions	1. Approximately 230 linear FT of chain link fence 2. Approximately 135 FT of 3½ IN SCH 40 AL Tube Bus 3. Conductors, connectors, conduit, control cable, and grounding materials as per current engineering standards
Real-estate description	Substation is not being expanded.
Construction responsibility	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
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.
Permitting / routing / siting	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	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.
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.
Total component cost	\$5,658,331.00

Component cost (in-service year)	\$6,432,848.00
Substation Upgrade Component	
Component title	Evergreen Mills Substation Breaker Replacement (993961)_Alternative to 993918 and 993955
Project description	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
Substation name	Evergreen Mills Substation
Substation zone	345
Substation upgrade scope	Purchase & Install Substation Material: 1. Seven (7), 230kV, 4000A, 80kA, SF6 Circuit Breakers. 2. Approximately 2,000 FT of 5 IN Sch. 40 Tubular Bus 3. Seventeen (17), Three Phase Bus Supports 4. One (1), Dual Insulator Three Phase Bus Support 5. Eighty (80), Single Phase Bus Supports 6. Two (2), Dual Insulator Single Phase Bus Supports 7. Twenty-four (24), Dual Insulator A-Frame Supports 8. Four (4), 230kV Coupling Capacitor Voltage Transformers, Relay Accuracy 9. Conductors, connectors, control cables, foundations, steel, grounding connections as per engineering standards Removal Substation Material: 1. Two (2), 4507 - Single Phase CCVT MU Box (4507) 2. Seven (7), 230kV, 4000A, 63kA, SF6 Circuit Breakers. 3. Fourteen (14), Three Phase Bus Supports 4. Thirty-Seven (37), Single Phase Bus Supports 5. Twenty-Eight (28), A-Frame Supports 6. Approximately 1,840 FT of 5 IN Sch. 40 Tubular Bus 7. Conductors, connectors, control cables, foundations, steel, and grounding connections as per engineering standards Reuse Relay Material: 1. Six (6), 1510 - Dual SEL-351 Transmission Breaker w/ Reclosing Breaker Purchase & Install Relay Material: 1. Seven (7), 4510 - SEL-2411 Breaker Annunciator 2. Seven (7), 4526_D - C.B. w/ BCM Fiber Optic Makeup Box 3. Seven (7), 4551_A - 230kV Axion Breaker Condition Monitor (For 230kV 80kA CB) 4. Two (2), 4506 - 3Ø CCVT Potential Makeup Box
Transformer Information	
None	
New equipment description	1. Seven (7), 230kV, 4000A, 80kA, SF6 Circuit Breakers. 2. Approximately 2,000 FT of 5 IN Sch. 40 Tubular Bus 3. Seventeen (17), Three Phase Bus Supports 4. One (1), Dual Insulator Three Phase Bus Support 5. Eighty (80), Single Phase Bus Supports 6. Two (2), Dual Insulator Single Phase Bus Supports 7. Twenty-Eight (28), Dual Insulator A-Frame Supports 8. Four (4), 230kV Coupling Capacitor Voltage Transformers, Relay Accuracy 9. Seven (7), 4510 - SEL-2411 Breaker Annunciator 10. Seven (7), 4526_D - C.B. w/ BCM Fiber Optic Makeup Box 11. Seven (7), 4551_A - 230kV Axion Breaker Condition Monitor (For 230kV 80kA CB) 12. Two (2), 4506 - 3Ø CCVT Potential Makeup Box

Substation assumptions	The project also includes the installation of grounding conductors and associated grounding equipment, as required, to support the substation's upgrade from a 63kA to an 80kA interrupting rating. The conceptual design provides for a full ground grid overlay to achieve the 80kA interrupting rating.
Real-estate description	Substation is not being expanded.
Construction responsibility	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
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.
Permitting / routing / siting	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	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.
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.
Total component cost	\$13,370,567.00
Component cost (in-service year)	\$15,200,740.00
Substation Upgrade Component	
Component title	Sycolin Creek Substation Breaker Replacement (993961)_Alternative to 993933
Project description	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
Substation name	Sycolin Creek Substation
Substation zone	345

Substation upgrade scope	Purchase & Install Substation Material: 1. Six (6), 230kV, 4000A, 80kA, SF6 Circuit Breakers. 2. Approximately 2,000 FT of 5 IN Sch. 40 Tubular Bus 3. Seventeen (17), Three Phase Bus Supports 4. One (1), Dual Insulator Three Phase Bus Support 5. Eighty (80), Single Phase Bus Supports 6. Two (2), Dual Insulator Single Phase Bus Supports 7. Twenty-four (24), Dual Insulator A-Frame Supports 8. Four (4), 230kV Coupling Capacitor Voltage Transformers, Relay Accuracy 9. Conductors, connectors, control cables, foundations, steel, grounding connections as per engineering standards Removal Substation Material: 1. Two (2), 4507 - Single Phase CCVT MU Box (4507) 2. Six (6), 230kV, 4000A, 63kA, SF6 Circuit Breakers. 3. Twelve (12), Three Phase Bus Supports 4. Thirty-Seven (37), Single Phase Bus Supports 5. Twenty-Four (24), A-Frame Supports 6. Approximately 1,840 FT of 5 IN Sch. 40 Tubular Bus 7. Conductors, connectors, control cables, foundations, steel, and grounding connections as per engineering standards Reuse Relay Material: 1. Six (6), 1510 - Dual SEL-351 Transmission Breaker w/ Reclosing Breaker Purchase & Install Relay Material: 1. Six (6), 4510 - SEL-2411 Breaker Annunciator 2. Six (6), 4526_D - C.B. w/ BCM Fiber Optic Makeup Box 3. Six (6), 4551_A - 230kV Axion Breaker Condition Monitor (For 230kV 80kA CB) 4. Two (2), 4506 - 3Ø CCVT Potential Makeup Box
Transformer Information	
None	
New equipment description	1. Six (6), 230kV, 4000A, 80kA, SF6 Circuit Breakers. 2. Approximately 2,000 FT of 5 IN Sch. 40 Tubular Bus 3. Seventeen (17), Three Phase Bus Supports 4. One (1), Dual Insulator Three Phase Bus Support 5. Eighty (80), Single Phase Bus Supports 6. Two (2), Dual Insulator Single Phase Bus Supports 7. Twenty-four (24), Dual Insulator A-Frame Supports 8. Four (4), 230kV Coupling Capacitor Voltage Transformers, Relay Accuracy 9. Six (6), 4510 - SEL-2411 Breaker Annunciator 10. Six (6), 4526_D - C.B. w/ BCM Fiber Optic Makeup Box 11. Six (6), 4551_A - 230kV Axion Breaker Condition Monitor (For 230kV 80kA CB) 12. Two (2), 4506 - 3Ø CCVT Potential Makeup Box
Substation assumptions	The project also includes the installation of grounding conductors and associated grounding equipment, as required, to support the substation's upgrade from a 63kA to an 80kA interrupting rating. The conceptual design provides for a full ground grid overlay to achieve the 80kA interrupting rating.
Real-estate description	Substation is not being expanded.
Construction responsibility	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
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.

Permitting / routing / siting	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	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.
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.
Total component cost	\$11,460,486.00
Component cost (in-service year)	\$13,029,206.00
Substation Upgrade Component	
Component title	Twin Creeks Substation Breaker Replacement (993961)_Alternative to 993933
Project description	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
Substation name	Twin Creek Substation
Substation zone	345
Substation upgrade scope	Purchase & Install Substation Material: 1. Six (6), 230kV, 4000A, 80kA, SF6 Circuit Breakers. 2. Approximately 2,000 FT of 5 IN Sch. 40 Tubular Bus 3. Seventeen (17), Three Phase Bus Supports 4. One (1), Dual Insulator Three Phase Bus Support 5. Eighty (80), Single Phase Bus Supports 6. Two (2), Dual Insulator Single Phase Bus Supports 7. Twenty-four (24), Dual Insulator A-Frame Supports 8. Four (4), 230kV Coupling Capacitor Voltage Transformers, Relay Accuracy 9. Conductors, connectors, control cables, foundations, steel, grounding connections as per engineering standards Removal Substation Material: 1. Two (2), 4507 - Single Phase CCVT MU Box (4507) 2. Six (6), 230kV, 4000A, 63kA, SF6 Circuit Breakers. 3. Twelve (12), Three Phase Bus Supports 4. Thirty-Seven (37), Single Phase Bus Supports 5. Twenty-Four (24), A-Frame Supports 6. Approximately 1,840 FT of 5 IN Sch. 40 Tubular Bus 7. Conductors, connectors, control cables, foundations, steel, and grounding connections as per engineering standards Reuse Relay Material: 1. Six (6), 1510 - Dual SEL-351 Transmission Breaker w/ Reclosing Breaker Purchase & Install Relay Material: 1. Six (6), 4510 - SEL-2411 Breaker Annunciator 2. Six (6), 4526_D - C.B. w/ BCM Fiber Optic Makeup Box 3. Six (6), 4551_A - 230kV Axion Breaker Condition Monitor (For 230kV 80kA CB) 4. Two (2), 4506 - 3Ø CCVT Potential Makeup Box

Transformer Information

None

New equipment description

1. Six (6), 230kV, 4000A, 80kA, SF6 Circuit Breakers. 2. Approximately 2,000 FT of 5 IN Sch. 40 Tubular Bus 3. Seventeen (17), Three Phase Bus Supports 4. One (1), Dual Insulator Three Phase Bus Support 5. Eighty (80), Single Phase Bus Supports 6. Two (2), Dual Insulator Single Phase Bus Supports 7. Twenty-four (24), Dual Insulator A-Frame Supports 8. Four (4), 230kV Coupling Capacitor Voltage Transformers, Relay Accuracy 9. Six (6), 4510 - SEL-2411 Breaker Annunciator 10. Six (6), 4526_D - C.B. w/ BCM Fiber Optic Makeup Box 11. Six (6), 4551_A - 230kV Axion Breaker Condition Monitor (For 230kV 80kA CB) 12. Two (2), 4506 - 3Ø CCVT Potential Makeup Box

Substation assumptions

The project also includes the installation of grounding conductors and associated grounding equipment, as required, to support the substation's upgrade from a 63kA to an 80kA interrupting rating. The conceptual design provides for a full ground grid overlay to achieve the 80kA interrupting rating.

Real-estate description

Substation is not being expanded.

Construction responsibility

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

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.

Permitting / routing / siting

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

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.

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.

Total component cost

\$11,460,486.00

Component cost (in-service year)

\$13,029,206.00

Congestion Drivers

None

Existing Flowgates

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2026W1-N11-WVM646	314677	6BUCKING	314677	6BUCKING	1	230	345	Winter N-1-1	Included
2026W1-N11-WVM647	316322	AB2-045	316322	AB2-045	1	230	345	Winter N-1-1	Included
2026W1-N11-WVM648	971844	AH1-439_POI	971844	AH1-439_POI	1	230	345	Winter N-1-1	Included
2026W1-N11-WVM649	82745	AH1-439_MAIN	82745	AH1-439_MAIN	1	230	345	Winter N-1-1	Included
2026W1-N11-WVM650	314692	6FARMVIL	314692	6FARMVIL	1	230	345	Winter N-1-1	Included
2026W1-N11-WVM651	972002	AH1-546_POI	972002	AH1-546_POI	1	230	345	Winter N-1-1	Included
2026W1-N11-WVM652	82920	AH1-546_MAIN	82920	AH1-546_MAIN	1	230	345	Winter N-1-1	Included
2026W1-N11-WVM653	314691	3FARMVIL	314691	3FARMVIL	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM654	314719	3S CREEK	314719	3S CREEK	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM655	313127	3CURDSVILLE	313127	3CURDSVILLE	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM656	314726	3WILLIS	314726	3WILLIS	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM657	315822	AE2-259_MAIN	315822	AE2-259_MAIN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM658	314664	3REDH DP	314664	3REDH DP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM659	314663	3REDH TP	314663	3REDH TP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM660	314707	3MORAN	314707	3MORAN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM661	314521	3PAMPL_1	314521	3PAMPL_1	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM662	314713	3PAMPLIN	314713	3PAMPLIN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM663	314426	3FT PKET	314426	3FT PKET	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM664	313156	3FT PIC DT T	313156	3FT PIC DT T	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM665	313755	3FLAT CREEK	313755	3FLAT CREEK	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM666	314429	3JTRSVLE	314429	3JTRSVLE	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM667	314428	3HOOPERS	314428	3HOOPERS	1	115	345	Winter N-1-1	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2026W1-N11-WVM668	314701	3LONEPN	314701	3LONEPN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM669	314687	3CREWE	314687	3CREWE	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM670	314715	3MADSONV	314715	3MADSONV	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM671	314519	3LONEPINE_1	314519	3LONEPINE_1	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM672	313853	3PONTONDP	313853	3PONTONDP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM673	313462	3AF1-294	313462	3AF1-294	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM674	319063	AF1-294_MAIN	319063	AF1-294_MAIN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM675	314432	3MARTIN DP	314432	3MARTIN DP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM676	314706	3MARTIN TAP	314706	3MARTIN TAP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM677	970681	AG2-440_POI	970681	AG2-440_POI	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM678	81065	AG2-440_MAIN	81065	AG2-440_MAIN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM679	81080	AG2-442_MAIN	81080	AG2-442_MAIN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM680	313281	3VICTORIA DP	313281	3VICTORIA DP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM681	314725	3VICTORIA TP	314725	3VICTORIA TP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM682	314723	3VICTRIA	314723	3VICTRIA	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM683	314719	3S CREEK	314719	3S CREEK	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM684	313460	3BIRDSBRANCH	313460	3BIRDSBRANCH	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM685	319088	AF2-222_MAIN	319088	AF2-222_MAIN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD32	314677	6BUCKING	314677	6BUCKING	1	230	345	Winter N-1-1	Included
2026W1-N11-WVD33	316322	AB2-045	316322	AB2-045	1	230	345	Winter N-1-1	Included
2026W1-N11-WVD34	971844	AH1-439_POI	971844	AH1-439_POI	1	230	345	Winter N-1-1	Included
2026W1-N11-WVD35	82745	AH1-439_MAIN	82745	AH1-439_MAIN	1	230	345	Winter N-1-1	Included
2026W1-N11-WVD36	314692	6FARMVIL	314692	6FARMVIL	1	230	345	Winter N-1-1	Included
2026W1-N11-WVD37	972002	AH1-546_POI	972002	AH1-546_POI	1	230	345	Winter N-1-1	Included
2026W1-N11-WVD38	82920	AH1-546_MAIN	82920	AH1-546_MAIN	1	230	345	Winter N-1-1	Included
2026W1-N11-WVD39	314691	3FARMVIL	314691	3FARMVIL	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD40	314719	3S CREEK	314719	3S CREEK	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD41	313127	3CURDSVILLE	313127	3CURDSVILLE	1	115	345	Winter N-1-1	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2026W1-N11-WVD42	314726	3WILLIS	314726	3WILLIS	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD43	315822	AE2-259_MAIN	315822	AE2-259_MAIN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD44	314664	3REDH DP	314664	3REDH DP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD45	314663	3REDH TP	314663	3REDH TP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD46	314707	3MORAN	314707	3MORAN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD47	314521	3PAMPL_1	314521	3PAMPL_1	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD48	314713	3PAMPLIN	314713	3PAMPLIN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD49	314426	3FT PKET	314426	3FT PKET	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD50	313156	3FT PIC DT T	313156	3FT PIC DT T	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD51	313755	3FLAT CREEK	313755	3FLAT CREEK	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD52	314429	3JTRSVLE	314429	3JTRSVLE	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD53	314428	3HOOPERS	314428	3HOOPERS	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD54	314701	3LONEPN	314701	3LONEPN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD55	314687	3CREWE	314687	3CREWE	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD63	970681	AG2-440_POI	970681	AG2-440_POI	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD64	81065	AG2-440_MAIN	81065	AG2-440_MAIN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD65	81080	AG2-442_MAIN	81080	AG2-442_MAIN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD66	313281	3VICTORIA DP	313281	3VICTORIA DP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD67	314725	3VICTORIA TP	314725	3VICTORIA TP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD68	314723	3VICTRIA	314723	3VICTRIA	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD69	314677	6BUCKING	314677	6BUCKING	1	230	345	Winter N-1-1	Included
2026W1-N11-WVD70	316322	AB2-045	316322	AB2-045	1	230	345	Winter N-1-1	Included
2026W1-N11-WVD71	971844	AH1-439_POI	971844	AH1-439_POI	1	230	345	Winter N-1-1	Included
2026W1-N11-WVD72	82745	AH1-439_MAIN	82745	AH1-439_MAIN	1	230	345	Winter N-1-1	Included
2026W1-N11-WVD73	314692	6FARMVIL	314692	6FARMVIL	1	230	345	Winter N-1-1	Included
2026W1-N11-WVD74	972002	AH1-546_POI	972002	AH1-546_POI	1	230	345	Winter N-1-1	Included
2026W1-N11-WVD75	82920	AH1-546_MAIN	82920	AH1-546_MAIN	1	230	345	Winter N-1-1	Included
2026W1-N11-WVD76	314691	3FARMVIL	314691	3FARMVIL	1	115	345	Winter N-1-1	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2026W1-N11-WVD77	314719	3S CREEK	314719	3S CREEK	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD78	313127	3CURDSVILLE	313127	3CURDSVILLE	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD79	314726	3WILLIS	314726	3WILLIS	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD80	315822	AE2-259_MAIN	315822	AE2-259_MAIN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD81	314664	3REDH DP	314664	3REDH DP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD82	314663	3REDH TP	314663	3REDH TP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD83	314707	3MORAN	314707	3MORAN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD84	314521	3PAMPL_1	314521	3PAMPL_1	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD85	314713	3PAMPLIN	314713	3PAMPLIN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD86	314426	3FT PKET	314426	3FT PKET	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD87	313156	3FT PIC DT T	313156	3FT PIC DT T	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD88	313755	3FLAT CREEK	313755	3FLAT CREEK	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD89	314429	3JTRSVLE	314429	3JTRSVLE	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD90	314428	3HOOPERS	314428	3HOOPERS	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD91	314701	3LONEPN	314701	3LONEPN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD92	314687	3CREWE	314687	3CREWE	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD93	314519	3LONEPINE_1	314519	3LONEPINE_1	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD94	314715	3MADSONV	314715	3MADSONV	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD95	313853	3PONTONDP	313853	3PONTONDP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD96	313462	3AF1-294	313462	3AF1-294	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD97	319063	AF1-294_MAIN	319063	AF1-294_MAIN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD98	314432	3MARTIN DP	314432	3MARTIN DP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD99	314706	3MARTIN TAP	314706	3MARTIN TAP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD100	970681	AG2-440_POI	970681	AG2-440_POI	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD101	81065	AG2-440_MAIN	81065	AG2-440_MAIN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD102	81080	AG2-442_MAIN	81080	AG2-442_MAIN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD103	313281	3VICTORIA DP	313281	3VICTORIA DP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD104	314725	3VICTORIA TP	314725	3VICTORIA TP	1	115	345	Winter N-1-1	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2026W1-N11-WVD105	314723	3VICTRIA	314723	3VICTRIA	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD106	313460	3BIRDSBRANCH	313460	3BIRDSBRANCH	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD56	314519	3LONEPINE_1	314519	3LONEPINE_1	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD57	314715	3MADSONV	314715	3MADSONV	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD58	313853	3PONTONDP	313853	3PONTONDP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD59	313462	3AF1-294	313462	3AF1-294	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD60	319063	AF1-294_MAIN	319063	AF1-294_MAIN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD61	314432	3MARTIN DP	314432	3MARTIN DP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD62	314706	3MARTIN TAP	314706	3MARTIN TAP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM686	314710	3NUTBUSH	314710	3NUTBUSH	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM687	314695	3GARY DP	314695	3GARY DP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM688	971775	AH1-396 GEN	971775	AH1-396 GEN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM689	314430	3KENBRDG	314430	3KENBRDG	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM690	970322	AG2-213_POI	970322	AG2-213_POI	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM691	314431	3KENB TP	314431	3KENB TP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM692	970256	AG2-171_POI	970256	AG2-171_POI	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM693	80369	AG2-171_MAIN	80369	AG2-171_MAIN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM694	80472	AG2-213_MAIN	80472	AG2-213_MAIN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM695	314427	3LUNENBURG	314427	3LUNENBURG	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM696	314677	6BUCKING	314677	6BUCKING	1	230	345	Winter N-1-1	Included
2026W1-N11-WVM697	316322	AB2-045	316322	AB2-045	1	230	345	Winter N-1-1	Included
2026W1-DOM-EOL1	N/A	N/A	N/A	N/A	N/A	N/A	345	End of Life	Included
2026W1-DOM-EOL2	N/A	N/A	N/A	N/A	N/A	N/A	345	End of Life	Included
2026W1-SC-63	313827	EVRGRN MILLS 230.kV	313827	EVRGRN MILLS 230.kV	N/A	N/A	345	Short Circuit	Included
2026W1-SC-64	313827	EVRGRN MILLS 230.kV	313827	EVRGRN MILLS 230.kV	N/A	N/A	345	Short Circuit	Included
2026W1-SC-65	313827	EVRGRN MILLS 230.kV	313827	EVRGRN MILLS 230.kV	N/A	N/A	345	Short Circuit	Included
2026W1-SC-66	313827	EVRGRN MILLS 230.kV	313827	EVRGRN MILLS 230.kV	N/A	N/A	345	Short Circuit	Included
2026W1-SC-67	313827	EVRGRN MILLS 230.kV	313827	EVRGRN MILLS 230.kV	N/A	N/A	345	Short Circuit	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2026W1-SC-68	313827	EVRGRN MILLS 230.kV	313827	EVRGRN MILLS 230.kV	N/A	N/A	345	Short Circuit	Included
2026W1-SC-69	313827	EVRGRN MILLS 230.kV	313827	EVRGRN MILLS 230.kV	N/A	N/A	345	Short Circuit	Included
2026W1-SC-77	313815	SPRINGHILL 230.kV	313815	SPRINGHILL 230.kV	N/A	N/A	345	Short Circuit	Included
2026W1-SC-78	313815	SPRINGHILL 230.kV	313815	SPRINGHILL 230.kV	N/A	N/A	345	Short Circuit	Included
2026W1-SC-79	313815	SPRINGHILL 230.kV	313815	SPRINGHILL 230.kV	N/A	N/A	345	Short Circuit	Included
2026W1-SC-80	313815	SPRINGHILL 230.kV	313815	SPRINGHILL 230.kV	N/A	N/A	345	Short Circuit	Included
2026W1-SC-81	313396	SYCOLIN 230.kV	313396	SYCOLIN 230.kV	N/A	N/A	345	Short Circuit	Included
2026W1-SC-82	313396	SYCOLIN 230.kV	313396	SYCOLIN 230.kV	N/A	N/A	345	Short Circuit	Included
2026W1-SC-83	313396	SYCOLIN 230.kV	313396	SYCOLIN 230.kV	N/A	N/A	345	Short Circuit	Included
2026W1-SC-84	313396	SYCOLIN 230.kV	313396	SYCOLIN 230.kV	N/A	N/A	345	Short Circuit	Included
2026W1-SC-85	313396	SYCOLIN 230.kV	313396	SYCOLIN 230.kV	N/A	N/A	345	Short Circuit	Included
2026W1-SC-86	313396	SYCOLIN 230.kV	313396	SYCOLIN 230.kV	N/A	N/A	345	Short Circuit	Included
2026W1-SC-87	313911	TWINCREEK 230.kV	313911	TWINCREEK 230.kV	N/A	N/A	345	Short Circuit	Included
2026W1-SC-88	313911	TWINCREEK 230.kV	313911	TWINCREEK 230.kV	N/A	N/A	345	Short Circuit	Included
2026W1-SC-89	313911	TWINCREEK 230.kV	313911	TWINCREEK 230.kV	N/A	N/A	345	Short Circuit	Included
2026W1-SC-90	313911	TWINCREEK 230.kV	313911	TWINCREEK 230.kV	N/A	N/A	345	Short Circuit	Included
2026W1-SC-91	313911	TWINCREEK 230.kV	313911	TWINCREEK 230.kV	N/A	N/A	345	Short Circuit	Included
2026W1-SC-92	313911	TWINCREEK 230.kV	313911	TWINCREEK 230.kV	N/A	N/A	345	Short Circuit	Included
2026W1-SC-93	313751	STRATUS 230.kV	313751	STRATUS 230.kV	N/A	N/A	345	Short Circuit	Included
2026W1-SC-94	313751	STRATUS 230.kV	313751	STRATUS 230.kV	N/A	N/A	345	Short Circuit	Included
2026W1-SC-95	313751	STRATUS 230.kV	313751	STRATUS 230.kV	N/A	N/A	345	Short Circuit	Included
2026W1-SC-96	313751	STRATUS 230.kV	313751	STRATUS 230.kV	N/A	N/A	345	Short Circuit	Included
2026W1-SC-97	313751	STRATUS 230.kV	313751	STRATUS 230.kV	N/A	N/A	345	Short Circuit	Included
2026W1-SC-98	313751	STRATUS 230.kV	313751	STRATUS 230.kV	N/A	N/A	345	Short Circuit	Included
2026W1-N11-WVM698	971844	AH1-439_POI	971844	AH1-439_POI	1	230	345	Winter N-1-1	Included
2026W1-N11-WVM699	82745	AH1-439_MAIN	82745	AH1-439_MAIN	1	230	345	Winter N-1-1	Included
2026W1-N11-WVM700	314692	6FARMVIL	314692	6FARMVIL	1	230	345	Winter N-1-1	Included
2026W1-N11-WVM701	972002	AH1-546_POI	972002	AH1-546_POI	1	230	345	Winter N-1-1	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2026W1-N11-WVM702	82920	AH1-546_MAIN	82920	AH1-546_MAIN	1	230	345	Winter N-1-1	Included
2026W1-N11-WVM703	314691	3FARMVIL	314691	3FARMVIL	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM704	314719	3S CREEK	314719	3S CREEK	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM705	313127	3CURDSVILLE	313127	3CURDSVILLE	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM706	314726	3WILLIS	314726	3WILLIS	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM707	315822	AE2-259_MAIN	315822	AE2-259_MAIN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM708	314664	3REDH DP	314664	3REDH DP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM709	314663	3REDH TP	314663	3REDH TP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM710	314707	3MORAN	314707	3MORAN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM711	314521	3PAMPL_1	314521	3PAMPL_1	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM712	314713	3PAMPLIN	314713	3PAMPLIN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM713	314426	3FT PKET	314426	3FT PKET	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM714	313156	3FT PIC DT T	313156	3FT PIC DT T	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM715	313755	3FLAT CREEK	313755	3FLAT CREEK	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM716	314429	3JTRSVLE	314429	3JTRSVLE	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM717	314428	3HOOPERS	314428	3HOOPERS	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM718	314701	3LONEPN	314701	3LONEPN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM719	314687	3CREWE	314687	3CREWE	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM720	314715	3MADSONV	314715	3MADSONV	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM721	314519	3LONEPINE_1	314519	3LONEPINE_1	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM722	313853	3PONTONDP	313853	3PONTONDP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM723	313462	3AF1-294	313462	3AF1-294	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM724	319063	AF1-294_MAIN	319063	AF1-294_MAIN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM725	314432	3MARTIN DP	314432	3MARTIN DP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM726	314706	3MARTIN TAP	314706	3MARTIN TAP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM727	970681	AG2-440_POI	970681	AG2-440_POI	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM728	81065	AG2-440_MAIN	81065	AG2-440_MAIN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM729	81080	AG2-442_MAIN	81080	AG2-442_MAIN	1	115	345	Winter N-1-1	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2026W1-N11-WVM730	313281	3VICTORIA DP	313281	3VICTORIA DP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM731	314725	3VICTORIA TP	314725	3VICTORIA TP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM732	314723	3VICTRIA	314723	3VICTRIA	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM733	313460	3BIRDSBRANCH	313460	3BIRDSBRANCH	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM734	319088	AF2-222_MAIN	319088	AF2-222_MAIN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM735	314710	3NUTBUSH	314710	3NUTBUSH	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM736	314695	3GARY DP	314695	3GARY DP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM737	971775	AH1-396 GEN	971775	AH1-396 GEN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM738	314430	3KENBRDG	314430	3KENBRDG	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM739	970322	AG2-213_POI	970322	AG2-213_POI	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM740	314431	3KENB TP	314431	3KENB TP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM741	970256	AG2-171_POI	970256	AG2-171_POI	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM742	80369	AG2-171_MAIN	80369	AG2-171_MAIN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM743	80472	AG2-213_MAIN	80472	AG2-213_MAIN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVM744	314427	3LUNENBURG	314427	3LUNENBURG	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD107	319088	AF2-222_MAIN	319088	AF2-222_MAIN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD108	314710	3NUTBUSH	314710	3NUTBUSH	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD109	314695	3GARY DP	314695	3GARY DP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD110	971775	AH1-396 GEN	971775	AH1-396 GEN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD111	314430	3KENBRDG	314430	3KENBRDG	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD112	970322	AG2-213_POI	970322	AG2-213_POI	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD113	314431	3KENB TP	314431	3KENB TP	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD114	970256	AG2-171_POI	970256	AG2-171_POI	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD115	80369	AG2-171_MAIN	80369	AG2-171_MAIN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD116	80472	AG2-213_MAIN	80472	AG2-213_MAIN	1	115	345	Winter N-1-1	Included
2026W1-N11-WVD117	314427	3LUNENBURG	314427	3LUNENBURG	1	115	345	Winter N-1-1	Included

New Flowgates

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

Financial Information

Capital spend start date 04/2027

Construction start date 01/2028

Project Duration (In Months) 50

Cost Containment Commitment

Cost cap (in current year) The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

Cost cap (in-service year) The redacted information is proprietary to the Company; therefore, it is privileged and confidential.

Components covered by cost containment

1. Line 531 Rebuild - Suffolk to Surry (993913) - PROPOSER
2. Line 578 Rebuild - Septa to Surry (993914) - PROPOSER
3. Suffolk Substation Line Terminal Upgrade (993913) - PROPOSER
4. Surry Substation Line Terminal Upgrade (993913) - PROPOSER
5. Septa Substation Line Terminal Upgrade (993914) - PROPOSER
6. Surry Substation Line Terminal Upgrade (993914) - PROPOSER
7. Stratus Substation Breaker Replacement (993919) - PROPOSER
8. Operate Line 2320 as Normally Open (993933) - PROPOSER
9. Twin Creek Breaker Upgrade (993933) - PROPOSER
10. Brambleton Bypass (993918) - PROPOSER
11. Loudoun Bus Split (993955) - PROPOSER
12. Loudoun Bus Split Substation Scope (993955) - PROPOSER
13. Farmville Substation STATCOM Installation (993934)_Option 1 - PROPOSER
14. Farmville Substation Capacitor Bank Installation (993934)_Option 2 - PROPOSER
15. Evergreen Mills Substation Breaker Replacement (993961)_Alternative to 993918 and 993955 - PROPOSER

16. Sycolin Creek Substation Breaker Replacement (993961)_Alternative to 993933 - PROPOSER

17. Twin Creeks Substation Breaker Replacement (993961)_Alternative to 993933 - PROPOSER

Cost elements covered by cost containment

Engineering & design	Yes
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Permitting / routing / siting	No
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ROW / land acquisition	No
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Materials & equipment	No
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Construction & commissioning	No
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Construction management	No
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Overheads & miscellaneous costs	No
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Taxes	No
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AFUDC	No
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Escalation	No
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Additional Information	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
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Is the proposer offering a binding cap on ROE?	No
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Is the proposer offering a Debt to Equity Ratio cap?	The redacted information is proprietary to the Company; therefore, it is privileged and confidential.
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Additional cost containment measures not covered above

Additional Comments

None