Combination of PEBO 220 + WOP 1F + SOP 8E

General Information

| Proposing entity name | Proprietary business information. |
|---|---|
| Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project? | Yes |
| Company proposal ID | Proprietary business information. |
| PJM Proposal ID | 598 |
| Project title | Combination of PEBO 220 + WOP 1F + SOP 8E |
| Project description | This proposal is a combination of multiple other solutions to deliver an overall complete solution. Combination of: PEBO 220 (2022-W3-385) WOP 1F (2022-W3-853) SOP 8E (2022-W3-663) Various brownfield components required to meet reliability needs |
| Email | Proprietary business information. |
| Project in-service date | 06/2028 |
| Tie-line impact | No |
| Interregional project | No |
| Is the proposer offering a binding cap on capital costs? | Yes |
| Additional benefits | |
| Project Components | |

1. Combination of PEBO 220 + WOP 1F + SOP 8E

2. 50d - Add 2nd Transformer and SVC & Cap Bank to future Mars Substation

3. 50e - Upgrade Transformer 1 and add new Transformer 2 at existing Pleasant View substation

4. 50g - Add 2nd Transformer at existing Goose Creek substation

5. 50P - Red Lion to Hope Creek 500 kV Upgrade

6. 50i - Lady Smith CT to St. John's 230kV Upgrade
7. 50j - Lady Smith CT to Summit 230 kV Upgrade
8. 50k - Cashs's Corner to Hollymeade 230kV upgrade
9. 50l - Cashs's Corner to Gordonsville 230kV upgrade
10. 50m - Charlottesville to Proffit DP 230kV upgrade
11. 50n - Remington CT to Remington 230kV upgrade
12. 50n - Remington CT to GIM Run 230kV upgrade

Greenfield Substation Component

| Component title | Combination of PEBO 220 + WOP 1F + SOP 8E | E |
|-----------------------------|---|------------------------|
| Project description | Proprietary business information. | |
| Substation name | Various | |
| Substation description | Includes all components of proposals PEBO 220 |), WOP 1F, and SOP 8E. |
| Nominal voltage | AC | |
| Nominal voltage | 500/230 | |
| Transformer Information | | |
| None | | |
| Major equipment description | Includes all components of proposals PEBO 220 |), WOP 1F, and SOP 8E. |
| | Normal ratings | Emergency ratings |
| | | |
| Summer (MVA) | 0.000000 | 0.000000 |

Outreach plan

Environmental constraints identified are manageable through implementation of an environmental avoidance, minimization, and mitigation strategy incorporated at the beginning of the routing/siting process. Co-location with existing utilities and other infrastructure was prioritized to the greatest extent practicable to minimize the environmental impact on the landscape. The proposed site crosses no mapped national wetland inventory (NWI) waterbodies and no NWI mapped wetlands. Fatal flaws have not been identified for proposed site. A cultural resource professional assisted with the siting process to identify and minimize impacts to known areas with historic sensitivities. An investigation to further identify and evaluate historic properties will be conducted to determine the presence of archaeologically or historically significant resources. Federally listed species have been identified with potential to occur in the area including listed bats and listed mussels, but no critical habitat was identified in the area of the substation site. If suitable habitat is identified or regulations change, agency coordination and species-specific surveys will occur. The project intends to adhere to tree removal seasonal restriction windows to avoid and minimize impacts to protected birds and bats, such as the Indiana bat, northern long-eared bat, bald eagle, and other common raptors. Erosion control best management practices and setbacks will be engineered and utilized to prevent sedimentation from leaving the site for the protection of aquatic species and to avoid water quality impacts. There are no unique or sensitive environmental concerns or impacts with the proposed substation site that cannot be addressed.

The Company is committed to working with all interested stakeholders through a robust public outreach program to address/respond to community concerns and inform the public about the project to the greatest extent practicable. The Company believes a well-designed public outreach program can have numerous benefits, including fostering a cooperative relationship with landowners and other stakeholders, expediting the regulatory permitting process, and assisting with project development. In general, the purpose of the community outreach plan is to gain community support for the project. In the affected communities, the Company's public outreach plan will educate the public and relevant stakeholders on specific project details to enable timely regulatory approvals and construction activities. Elements of the public outreach plan will include the following: 1) Identify potential issues at an early stage by engagement with key community stakeholders at the outset; 2) Broaden the community engagement process to identify potential and relevant community benefits that can facilitate community support for the proposed project; 3) Develop a broad base of community support for the proposed project before the regulatory agencies; and 4) Develop a comprehensive administrative record documenting the community outreach process that can be presented to the regulatory agency or, in the event of a legal challenge, to the appropriate court. The outreach plan proposes to dedicate considerable time and resources in engaging the community, and specifically the affected community during the planning process to identify highly sensitive areas that have the least amount of cultural, environmental, and social impacts on the community. The plans will reflect avoidance of impacts rather than mitigation. However, in some cases, if avoidance is not possible, then the Company will involve the community in providing appropriate and practical mitigation measures. The Company will commence its public outreach activities following project award.

See Attachment 9 for Land Acquisition Plan.

| | Name | Capacity (MVA) |
|---|--|---|
| Transformer Information | | |
| Substation upgrade scope | Add 2nd transformer (1440 MVA) and SVC(-300 substation | to 500) & Cap Bank (293.8) to existing Mars |
| Substation zone | Dominion | |
| Substation name | Mars | |
| Project description | Proprietary business information. | |
| Component title | 50d - Add 2nd Transformer and SVC & Cap Ban | k to future Mars Substation |
| Substation Upgrade Component | | |
| Component cost (in-service year) | \$2,242,619,017.00 | |
| Total component cost | \$1,992,537,950.00 | |
| Contingency | Proprietary business information. | |
| Overheads & miscellaneous costs | Proprietary business information. | |
| Construction management | Proprietary business information. | |
| Construction & commissioning | Proprietary business information. | |
| Materials & equipment | Proprietary business information. | |
| ROW / land acquisition | Proprietary business information. | |
| Permitting / routing / siting | Proprietary business information. | |
| Engineering & design | Proprietary business information. | |
| Component Cost Details - In Current Year \$ | | |
| Benefits/Comments | Resolves reliability and market efficiency issues | identified per PJM's Gen. Delivery process. |
| Construction responsibility | Proprietary business information. | |
| | | |

| Transformer | transformer 2 | 1440/14 | 440 |
|---|---|----------------------------|--------------------------------------|
| | High Side | Low Side | Tertiary |
| Voltage (kV) | 500 | 230 | |
| New equipment description | Add 2nd transformer (1440 MV substation | A) and SVC(-300 to 500) 8 | & Cap Bank (293.8) to existing Mars |
| Substation assumptions | Substation has not been built yon needed. | et. Assumed that substatio | n can accommodate new equipment as |
| Real-estate description | No expansion of substation fen | ce anticipated. | |
| Construction responsibility | Proprietary business informatio | n. | |
| Benefits/Comments | Resolves reliability issues ident | ified per PJM's Gen. Deliv | . Process |
| Component Cost Details - In Current Year \$ | | | |
| Engineering & design | Proprietary business informatio | n. | |
| Permitting / routing / siting | Proprietary business informatio | n. | |
| ROW / land acquisition | Proprietary business informatio | n. | |
| Materials & equipment | Proprietary business informatio | n. | |
| Construction & commissioning | Proprietary business informatio | n. | |
| Construction management | Proprietary business informatio | n. | |
| Overheads & miscellaneous costs | Proprietary business informatio | n. | |
| Contingency | Proprietary business informatio | n. | |
| Total component cost | \$5,000,000.00 | | |
| Component cost (in-service year) | \$5,519,064.00 | | |
| Substation Upgrade Component | | | |
| Component title | 50e - Upgrade Transformer 1 a | nd add new Transformer 2 | at existing Pleasant View substation |

| Project description | Proprietary business informati | ion. | |
|---|--|------------------------|------------------|
| Substation name | Pleasant View | | |
| Substation zone | Dominion | Dominion | |
| Substation upgrade scope | Upgrade Pleasant View Transformer 1 (500/230kV) with 1440 MVA transformer to remove violation and add Transformer 2 (500/230kV) with 1440 MVA at existing Pleasant View substation | | |
| Transformer Information | | | |
| | Name | c | Capacity (MVA) |
| Transformer | transformer 1 | 1 | 440/1440 |
| | High Side | Low Side | Tertiary |
| Voltage (kV) | 500 | 230 | |
| New equipment description | Upgrade Pleasant View Transformer 1 (500/230kV) with 1440 MVA transformer to remove violation and add Transformer 2 (500/230kV) with 1440 MVA at existing Pleasant View substation | | |
| Substation assumptions | Space within the substation fe | ence appears is availa | ble. |
| Real-estate description | No expansion of substation fe | nce anticipated. | |
| Construction responsibility | Proprietary business informati | ion. | |
| Benefits/Comments | Resolves reliability issues ide | ntified per PJM's Gen | . Deliv. Process |
| Component Cost Details - In Current Year \$ | | | |
| Engineering & design | Proprietary business informati | ion. | |
| Permitting / routing / siting | Proprietary business information. | | |
| ROW / land acquisition | Proprietary business informati | ion. | |
| Materials & equipment | Proprietary business informati | ion. | |
| Construction & commissioning | Proprietary business informati | ion. | |

| Construction management | Proprietary business informati | on. | |
|----------------------------------|---|---|--------------------------------------|
| Overheads & miscellaneous costs | Proprietary business informati | on. | |
| Contingency | Proprietary business informati | on. | |
| Total component cost | \$5,000,000.00 | | |
| Component cost (in-service year) | \$5,519,064.00 | | |
| Substation Upgrade Component | | | |
| Component title | 50g - Add 2nd Transformer at | existing Goose Creek s | ubstation |
| Project description | Proprietary business informati | on. | |
| Substation name | Goose Creek | | |
| Substation zone | Dominion | | |
| Substation upgrade scope | Add 2nd Transformer (1440 N | IVA) at existing Goose (| Creek substation to remove violation |
| Transformer Information | | | |
| | Name | Cap | oacity (MVA) |
| Transformer | transformer 2 | 144 | 0/1440 |
| | High Side | Low Side | Tertiary |
| Voltage (kV) | 500 | 230 | |
| New equipment description | Add 2nd Transformer (1440 MVA) at existing Goose Creek substation to remove violation | | |
| Substation assumptions | Space within the substation fence appears is available. | | |
| Real-estate description | No expansion of substation fe | No expansion of substation fence anticipated. | |
| Construction responsibility | Proprietary business informati | on. | |
| Benefits/Comments | Resolves reliability issues ider | ntified per PJM's Gen. D | eliv. Process |
| | | | |

Component Cost Details - In Current Year \$

| Engineering & design | Proprietary business information. |
|--|---|
| Permitting / routing / siting | Proprietary business information. |
| ROW / land acquisition | Proprietary business information. |
| Materials & equipment | Proprietary business information. |
| Construction & commissioning | Proprietary business information. |
| Construction management | Proprietary business information. |
| Overheads & miscellaneous costs | Proprietary business information. |
| Contingency | Proprietary business information. |
| Total component cost | \$5,000,000.00 |
| Component cost (in-service year) | \$5,519,064.00 |
| Transmission Line Upgrade Component | |
| Component title | 50P - Red Lion to Hope Creek 500 kV Upgrade |
| Project description | Proprietary business information. |
| Impacted transmission line | Red Lion - Hope Creek |
| Point A | Red Lion |
| Point B | Hope Creek |
| Point C | |
| Terrain description | Work required is within existing ROW. |
| Existing Line Physical Characteristics | |
| Operating voltage | 500 |
| | |
| Conductor size and type | Incumbent / Current Transmission owner specific |

| Hardware plan description Util | Utilize existing line hardware to extent possible. | |
|---|---|--------------------|
| Tower line characteristics Util | Utilize existing towers to extent practicable. | |
| Proposed Line Characteristics | | |
| De | esigned | Operating |
| Voltage (kV) 500 | 0.00000 | 500.000000 |
| Νο | ormal ratings | Emergency ratings |
| Summer (MVA) 429 | 95.000000 | 4357.000000 |
| Winter (MVA) 506 | 66.000000 | 5196.000000 |
| Conductor size and type Inc | Incumbent / Transmission Owner to select conductor to achieve the required ratings. | |
| Shield wire size and type Util | ilize existing shield wire to extent practicable. | |
| Rebuild line length 23. | 23.7 | |
| Rebuild portion description Pro | oposing to upgrade limiting elements to achieve | e specific rating. |
| Right of way Use | se of existing ROW to extent practicable. | |
| Construction responsibility Pro | oprietary business information. | |
| Benefits/Comments Res | esolves reliability issues identified per PJM's Ge | n. Deliv. Process |
| Component Cost Details - In Current Year \$ | | |
| Engineering & design Pro | oprietary business information. | |
| Permitting / routing / siting Pro | oprietary business information. | |
| ROW / land acquisition Pro | oprietary business information. | |
| Materials & equipment Pro | oprietary business information. | |
| Construction & commissioning Pro | oprietary business information. | |

| Construction management | Proprietary business information. | |
|--|--|------------|
| Overheads & miscellaneous costs | Proprietary business information. | |
| Contingency | Proprietary business information. | |
| Total component cost | \$5,000,000.00 | |
| Component cost (in-service year) | \$5,519,064.00 | |
| Transmission Line Upgrade Component | | |
| Component title | 50i - Lady Smith CT to St. John's 230kV Upgrad | le |
| Project description | Proprietary business information. | |
| Impacted transmission line | Lady Smith CT - St. John's 230kV | |
| Point A | Lady Smith | |
| Point B | St John's | |
| Point C | | |
| Terrain description | Work required is within existing ROW. | |
| Existing Line Physical Characteristics | | |
| Operating voltage | 230 | |
| Conductor size and type | Incumbent / Current Transmission owner specif | С |
| Hardware plan description | Utilize existing line hardware to extent possible. | |
| Tower line characteristics | Utilize existing towers to extent practicable. | |
| Proposed Line Characteristics | | |
| | Designed | Operating |
| Voltage (kV) | 230.000000 | 230.000000 |

| | Normal ratings | Emergency ratings |
|---|---|---|
| Summer (MVA) | 1573.000000 | 1809.000000 |
| Winter (MVA) | 1648.000000 | 1896.000000 |
| Conductor size and type | Incumbent / Transmission Owner to select cond | ductor to achieve the required ratings. |
| Shield wire size and type | Utilize existing shield wire to extent practicable. | |
| Rebuild line length | 12.5 | |
| Rebuild portion description | Proposing to upgrade limiting elements to achie | eve specific rating. |
| Right of way | Use of existing ROW to extent practicable. | |
| Construction responsibility | Proprietary business information. | |
| Benefits/Comments | Resolves reliability issues identified per PJM's | Gen. Deliv. Process |
| Component Cost Details - In Current Year \$ | | |
| Engineering & design | Proprietary business information. | |
| Permitting / routing / siting | Proprietary business information. | |
| ROW / land acquisition | Proprietary business information. | |
| Materials & equipment | Proprietary business information. | |
| Construction & commissioning | Proprietary business information. | |
| Construction management | Proprietary business information. | |
| Overheads & miscellaneous costs | Proprietary business information. | |
| Contingency | Proprietary business information. | |
| Total component cost | \$5,000,000.00 | |
| Component cost (in-service year) | \$5,519,064.00 | |

Transmission Line Upgrade Component

| Component title | 50i Lody Smith CT to Summit 220 kV/ Upgrad | |
|--|---|---|
| Component title | 50j - Lady Smith CT to Summit 230 kV Upgrade | 3 |
| Project description | Proprietary business information. | |
| Impacted transmission line | Lady Smith CT - Summit 230kV | |
| Point A | Lady Smith | |
| Point B | Summit | |
| Point C | | |
| Terrain description | Work required is within existing ROW. | |
| Existing Line Physical Characteristics | | |
| Operating voltage | 230 | |
| Conductor size and type | Incumbent / Current Transmission owner specific | |
| Hardware plan description | Utilize existing line hardware to extent possible. | |
| Tower line characteristics | Utilize existing towers to extent practicable. | |
| Proposed Line Characteristics | | |
| | Designed | Operating |
| Voltage (kV) | 230.000000 | 230.000000 |
| | Normal ratings | Emergency ratings |
| Summer (MVA) | 1573.000000 | 1809.000000 |
| Winter (MVA) | 1648.000000 | 1896.000000 |
| Conductor size and type | Incumbent / Transmission Owner to select cond | luctor to achieve the required ratings. |
| Shield wire size and type | Utilize existing shield wire to extent practicable. | |
| | | |

| Rebuild line length | 10.8 |
|---|--|
| Rebuild portion description | Proposing to upgrade limiting elements to achieve specific rating. |
| Right of way | Use of existing ROW to extent practicable. |
| Construction responsibility | Proprietary business information. |
| Benefits/Comments | Resolves reliability issues identified per PJM's Gen. Deliv. Process |
| Component Cost Details - In Current Year \$ | |
| Engineering & design | Proprietary business information. |
| Permitting / routing / siting | Proprietary business information. |
| ROW / land acquisition | Proprietary business information. |
| Materials & equipment | Proprietary business information. |
| Construction & commissioning | Proprietary business information. |
| Construction management | Proprietary business information. |
| Overheads & miscellaneous costs | Proprietary business information. |
| Contingency | Proprietary business information. |
| Total component cost | \$5,000,000.00 |
| Component cost (in-service year) | \$5,519,064.00 |
| Transmission Line Upgrade Component | |
| Component title | 50k - Cashs's Corner to Hollymeade 230kV upgrade |
| Project description | Proprietary business information. |
| Impacted transmission line | Cashs's Corner - Hollymeade 230kV |
| Point A | Cashs's Corner |
| Point B | Hollymeade |
| | |

Point C

| Terrain description | Work required is within existing ROW. | |
|---|---|-------------------|
| Existing Line Physical Characteristics | | |
| Operating voltage | 230 | |
| Conductor size and type | Incumbent / Current Transmission owner specific | |
| Hardware plan description | Utilize existing line hardware to extent possible. | |
| Tower line characteristics | Utilize existing towers to extent practicable. | |
| Proposed Line Characteristics | | |
| | Designed | Operating |
| Voltage (kV) | 230.000000 | 230.000000 |
| | Normal ratings | Emergency ratings |
| Summer (MVA) | 1573.000000 | 1809.000000 |
| Winter (MVA) | 1648.000000 | 1896.000000 |
| Conductor size and type | Incumbent / Transmission Owner to select conductor to achieve the required ratings. | |
| Shield wire size and type | Utilize existing shield wire to extent practicable. | |
| Rebuild line length | 12.66 | |
| Rebuild portion description | Proposing to upgrade limiting elements to achieve specific rating. | |
| Right of way | Use of existing ROW to extent practicable. | |
| Construction responsibility | Proprietary business information. | |
| Benefits/Comments | Resolves reliability issues identified per PJM's Gen. Deliv. Process | |
| Component Cost Details - In Current Year \$ | | |
| Engineering & design | Proprietary business information. | |

| Permitting / routing / siting | Proprietary business information. |
|--|--|
| ROW / land acquisition | Proprietary business information. |
| Materials & equipment | Proprietary business information. |
| Construction & commissioning | Proprietary business information. |
| Construction management | Proprietary business information. |
| Overheads & miscellaneous costs | Proprietary business information. |
| Contingency | Proprietary business information. |
| Total component cost | \$5,000,000.00 |
| Component cost (in-service year) | \$5,519,064.00 |
| Transmission Line Upgrade Component | |
| Component title | 50I - Cashs's Corner to Gordonsville 230kV upgrade |
| Project description | Proprietary business information. |
| Impacted transmission line | Cashs's Corner - Gordonsville 230kV |
| Point A | Cashs's Corner |
| Point B | Gordonsville |
| Point C | |
| Terrain description | Work required is within existing ROW. |
| Existing Line Physical Characteristics | |
| Operating voltage | 230 |
| Conductor size and type | Incumbent / Current Transmission owner specific |
| Hardware plan description | Utilize existing line hardware to extent possible. |
| Tower line characteristics | Utilize existing towers to extent practicable. |
| | |

Proposed Line Characteristics

| | Designed | Operating |
|---|---|-------------------|
| Voltage (kV) | 230.000000 | 230.000000 |
| | Normal ratings | Emergency ratings |
| Summer (MVA) | 1573.000000 | 1809.000000 |
| Winter (MVA) | 1648.000000 | 1896.000000 |
| Conductor size and type | Incumbent / Transmission Owner to select conductor to achieve the required ratings. | |
| Shield wire size and type | Utilize existing shield wire to extent practicable. | |
| Rebuild line length | 2.8 | |
| Rebuild portion description | Proposing to upgrade limiting elements to achieve specific rating. | |
| Right of way | Use of existing ROW to extent practicable. | |
| Construction responsibility | Proprietary business information. | |
| Benefits/Comments | Resolves reliability issues identified per PJM's Gen. Deliv. Process | |
| Component Cost Details - In Current Year \$ | | |
| Engineering & design | Proprietary business information. | |
| Permitting / routing / siting | Proprietary business information. | |
| ROW / land acquisition | Proprietary business information. | |
| Materials & equipment | Proprietary business information. | |
| Construction & commissioning | Proprietary business information. | |
| Construction management | Proprietary business information. | |
| Overheads & miscellaneous costs | Proprietary business information. | |

| Contingonau | Dranzistary business information | |
|--|--|-------------------|
| Contingency | Proprietary business information. | |
| Total component cost | \$1,400,000.00 | |
| Component cost (in-service year) | \$1,545,338.00 | |
| Transmission Line Upgrade Component | | |
| Component title | 50m - Charlottesville to Proffit DP 230kV upgra | de |
| Project description | Proprietary business information. | |
| Impacted transmission line | Charlottesville to Proffit DP 230kV | |
| Point A | Charlotesville | |
| Point B | Proffit DP | |
| Point C | | |
| Terrain description | Work required is within existing ROW. | |
| Existing Line Physical Characteristics | | |
| Operating voltage | 230 | |
| Conductor size and type | Incumbent / Current Transmission owner specific | |
| Hardware plan description | Utilize existing line hardware to extent possible. | |
| Tower line characteristics | Utilize existing towers to extent practicable. | |
| Proposed Line Characteristics | | |
| | Designed | Operating |
| Voltage (kV) | 230.000000 | 230.000000 |
| | Normal ratings | Emergency ratings |
| Summer (MVA) | 1573.000000 | 1809.000000 |

| Winter (MVA) | 1648.000000 | 1896.000000 |
|---|---|---|
| Conductor size and type | Incumbent / Transmission Owner to select cond | ductor to achieve the required ratings. |
| Shield wire size and type | Utilize existing shield wire to extent practicable. | |
| Rebuild line length | 15.8 | |
| Rebuild portion description | Proposing to upgrade limiting elements to achie | eve specific rating. |
| Right of way | Use of existing ROW to extent practicable. | |
| Construction responsibility | Proprietary business information. | |
| Benefits/Comments | Resolves reliability issues identified per PJM's | Gen. Deliv. Process |
| Component Cost Details - In Current Year \$ | | |
| Engineering & design | Proprietary business information. | |
| Permitting / routing / siting | Proprietary business information. | |
| ROW / land acquisition | Proprietary business information. | |
| Materials & equipment | Proprietary business information. | |
| Construction & commissioning | Proprietary business information. | |
| Construction management | Proprietary business information. | |
| Overheads & miscellaneous costs | Proprietary business information. | |
| Contingency | Proprietary business information. | |
| Total component cost | \$5,000,000.00 | |
| Component cost (in-service year) | \$5,519,064.00 | |
| Transmission Line Upgrade Component | | |
| Component title | 50n - Remington CT to Remington 230kV upgr | ade |
| Project description | Proprietary business information. | |
| | | |

| Impacted transmission line | Remington CT to Remington 230kV | |
|--|--|--|
| Point A | Remington CT | |
| Point B | Remington | |
| Point C | | |
| Terrain description | Work required is within existing ROW. | |
| Existing Line Physical Characteristics | | |
| Operating voltage | 230 | |
| Conductor size and type | Incumbent / Current Transmission owner specific | |
| Hardware plan description | Utilize existing line hardware to extent possible. | |
| Tower line characteristics | Utilize existing towers to extent practicable. | |
| Proposed Line Characteristics | | |
| | | |
| | Designed | Operating |
| Voltage (kV) | Designed 230.000000 | Operating 230.000000 |
| | - | |
| | 230.000000 | 230.000000 |
| Voltage (kV) | 230.000000 Normal ratings | 230.000000 Emergency ratings |
| Voltage (kV) Summer (MVA) | 230.000000 Normal ratings 1573.000000 | 230.000000 Emergency ratings 1809.000000 1896.000000 |
| Voltage (kV) Summer (MVA) Winter (MVA) | 230.000000 Normal ratings 1573.000000 1648.000000 | 230.000000 Emergency ratings 1809.000000 1896.000000 ductor to achieve the required ratings. |
| Voltage (kV) Summer (MVA) Winter (MVA) Conductor size and type | 230.000000 Normal ratings 1573.000000 1648.000000 Incumbent / Transmission Owner to select cond | 230.000000 Emergency ratings 1809.000000 1896.000000 ductor to achieve the required ratings. |
| Voltage (kV) Summer (MVA) Winter (MVA) Conductor size and type Shield wire size and type | 230.000000 Normal ratings 1573.000000 1648.000000 Incumbent / Transmission Owner to select cond Utilize existing shield wire to extent practicable. | 230.000000 Emergency ratings 1809.000000 1896.000000 ductor to achieve the required ratings. |

| Construction responsibility | Proprietary business information. |
|---|--|
| Benefits/Comments | Resolves reliability issues identified per PJM's Gen. Deliv. Process |
| Component Cost Details - In Current Year \$ | |
| Engineering & design | Proprietary business information. |
| Permitting / routing / siting | Proprietary business information. |
| ROW / land acquisition | Proprietary business information. |
| Materials & equipment | Proprietary business information. |
| Construction & commissioning | Proprietary business information. |
| Construction management | Proprietary business information. |
| Overheads & miscellaneous costs | Proprietary business information. |
| Contingency | Proprietary business information. |
| Total component cost | \$1,134,000.00 |
| Component cost (in-service year) | \$1,251,724.00 |
| Transmission Line Upgrade Component | |
| Component title | 50n - Remington CT to GIM Run 230kV upgrade |
| Project description | Proprietary business information. |
| Impacted transmission line | Remington CT to GIM Run 230kV |
| Point A | Remington CT |
| Point B | GIM Run |
| Point C | |
| Terrain description | Work required is within existing ROW. |
| | |

Existing Line Physical Characteristics

| Operating voltage | 230 | |
|---|---|-------------------|
| Conductor size and type | Incumbent / Current Transmission owner specific | |
| Hardware plan description | Utilize existing line hardware to extent possible. | |
| Tower line characteristics | Utilize existing towers to extent practicable. | |
| Proposed Line Characteristics | | |
| | Designed | Operating |
| Voltage (kV) | 230.000000 | 230.000000 |
| | Normal ratings | Emergency ratings |
| Summer (MVA) | 1573.000000 | 1809.000000 |
| Winter (MVA) | 1648.000000 | 1896.000000 |
| Conductor size and type | Incumbent / Transmission Owner to select conductor to achieve the required ratings. | |
| Shield wire size and type | Utilize existing shield wire to extent practicable. | |
| Rebuild line length | 1.7 | |
| Rebuild portion description | Proposing to upgrade limiting elements to achieve specific rating. | |
| Right of way | Use of existing ROW to extent practicable. | |
| Construction responsibility | Proprietary business information. | |
| Benefits/Comments | Resolves reliability issues identified per PJM's Gen. Deliv. Process | |
| Component Cost Details - In Current Year \$ | | |
| Engineering & design | Proprietary business information. | |
| Permitting / routing / siting | Proprietary business information. | |
| ROW / land acquisition | Proprietary business information. | |
| | | |

| Materials & equipment | Proprietary business information. |
|----------------------------------|-----------------------------------|
| Construction & commissioning | Proprietary business information. |
| Construction management | Proprietary business information. |
| Overheads & miscellaneous costs | Proprietary business information. |
| Contingency | Proprietary business information. |
| Total component cost | \$1,400,000.00 |
| Component cost (in-service year) | \$1,545,338.00 |
| Congestion Drivers | |
| None | |

Existing Flowgates

None

New Flowgates

Proprietary Company Information

Financial Information

| Capital spend start date | 09/2023 |
|------------------------------|---------|
| Construction start date | 07/2025 |
| Project Duration (In Months) | 57 |

Cost Containment Commitment

Cost cap (in current year)

Proprietary business information.

Cost cap (in-service year)

Components covered by cost containment

1. Combination of PEBO 220 + WOP 1F + SOP 8E - NEETMA

Cost elements covered by cost containment

| Engineering & design | Yes |
|---|-----------------------------------|
| Permitting / routing / siting | Yes |
| ROW / land acquisition | Yes |
| Materials & equipment | Yes |
| Construction & commissioning | Yes |
| Construction management | Yes |
| Overheads & miscellaneous costs | Yes |
| Taxes | Yes |
| AFUDC | No |
| Escalation | No |
| Additional Information | Proprietary business information. |
| Is the proposer offering a binding cap on ROE? | Yes |
| Would this ROE cap apply to the determination of AFUDC? | Yes |
| Would the proposer seek to increase the proposed ROE if FERC finds that a higher ROE would not be unreasonable? | No |
| Is the proposer offering a Debt to Equity Ratio cap? | Proprietary business information. |
| Additional cost containment measures not covered above | Proprietary business information. |
| | |

Additional Comments

None