



Executive Summary

1. Executive Summary			
Instructions		Inputs	
Provide the name of the Proposing Entity. If there are multiple entities, please identify each party.	1.a.	Proposing Entity name	
Provide the RTEP Proposal Window in which this proposal is being submitted.	1.b.	Proposal window	2018/2019 Long Term Market Efficiency Window
Provide the Proposing Entity project proposal id. Use "A, B, C, ...", etc. to differentiate between proposals.	1.c.	Proposal identification	
PJM proposal identification	1.d.	PJM proposal identification	201819_1-868
Provide a general description of the scope of this project (e.g. Project is a new line between X and Y substations utilizing AAA structures. A new bay will be created within the existing substation X footprint. Substation Y will be reconfigured to a breaker and a half with accommodations for the new line.)	1.e.	General project description	Build a new 500 kV switchyard near the Delta York E.C. Station that taps into the southern end of the PEBO-DELT 500 kV (5034) line near the point that it leaves the PEBO-CONA 500 kV (5012) line ROW. The new switchyard will be a double-bus double-breaker design with three (3) new 500 kV 4000 A circuit breakers and eight (8) 500 kV 4000 A MODs in the initial buildout. Space will be left to accommodate one additional future circuit breaker. The PEBO-DELT 500 kV (5034) line will go in and out of the new switchyard and a new 14 mile line will be built from the new Delta Tap Switchyard to the Conastone 500 kV Substation. Install a new 115 kV ring bus at the Orrtanna tap point of the METED Hunterstown – Orrtanna – Lincoln 115 kV 963 line. Add four 115 kV 2000 A breakers and eight 2000 A MODs. Protection upgrades and/or adjustments as necessary.
Identify if the proposal or a proposal component span two PJM Transmission Owner zones. I.e. The proposal topology connects equipment owned by more than one Transmission Owner. This group includes transmission that spans two or more affiliated companies (e.g. Meted and Allegheny Power).	1.f.	Tie line impact	Yes
Indicate if the project is being proposed as a solution to a cross-border (e.g. PJM to MISO, PJM to NYISO) issue. (Note: The Proposing Entity is responsible for initiating and satisfying all regional and interregional requirements.)	1.g.	Interregional project	No
Indicate if the Proposing Entity intends to construct, own, operate, and maintain the infrastructure built under this proposal.	1.h.	Construct, own, operate and maintain	Yes
Total current year project cost estimate including estimates for any required Transmission Owner upgrades.	1.i.	Project cost estimate (current year)	\$ 113,317,448.83



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Instructions	Inputs		
Total in-service year project cost estimate including estimates for any required Transmission Owner upgrades.	<table border="1"> <tr> <td>1.j. Project cost estimate (in-service year)</td> <td>\$ 122,075,074.17</td> </tr> </table>	1.j. Project cost estimate (in-service year)	\$ 122,075,074.17
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Project estimated schedule duration in months.	<table border="1"> <tr> <td>1.k. Project schedule duration</td> <td>44</td> </tr> </table>	1.k. Project schedule duration	44
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Indicate if any cost containment commitment is being proposed as part of the project. If yes, the "10. Cost Contain" tab within this project proposal template is to be completed	<table border="1"> <tr> <td>1.l. Cost containment commitment</td> <td>No</td> </tr> </table>	1.l. Cost containment commitment	No
1.l. Cost containment commitment	No		
If the project provides any known additional benefits above solving the identified violations or constraints, identify those benefits (e.g. reliability, economic, resilience, etc.).	<table border="1"> <tr> <td>1.m. Additional benefits</td> <td> <p>Reduced fault exposure on both source lines to Orrtanna. Reduced fault exposure on main line from Hunterstown to Lincoln.</p> <p>Maintain / upkeep FARO-FIFO which is a tie line between two PJM TOs. This line also plays a role in ensuring local area generator stability</p> <p>Addresses residual congestion in [REDACTED] proposal on the Face Rock - Five Forks 115 kV line, the Manor-Graceton 230 kV line, and the Furnace Run - Conastone 230 kV line.</p> <p>While [REDACTED] resolve the congestion described above in a piecemeal approach for each location, [REDACTED] resolves these issues by addressing the primary driving contingency underlying most of the congestion in the overall area, loss of the PEBO-CONA 500 kV line.</p> <p>This alternative was found to mitigate an approaching reliability concern regarding Generator Deliverability thermal loading on PEBO-FURU for loss of PEBO-CONA and vice versa. The new line provides an additional high voltage outlet path for Peach Bottom and Delta generation.</p> <p>[REDACTED]</p> </td> </tr> </table>	1.m. Additional benefits	<p>Reduced fault exposure on both source lines to Orrtanna. Reduced fault exposure on main line from Hunterstown to Lincoln.</p> <p>Maintain / upkeep FARO-FIFO which is a tie line between two PJM TOs. This line also plays a role in ensuring local area generator stability</p> <p>Addresses residual congestion in [REDACTED] proposal on the Face Rock - Five Forks 115 kV line, the Manor-Graceton 230 kV line, and the Furnace Run - Conastone 230 kV line.</p> <p>While [REDACTED] resolve the congestion described above in a piecemeal approach for each location, [REDACTED] resolves these issues by addressing the primary driving contingency underlying most of the congestion in the overall area, loss of the PEBO-CONA 500 kV line.</p> <p>This alternative was found to mitigate an approaching reliability concern regarding Generator Deliverability thermal loading on PEBO-FURU for loss of PEBO-CONA and vice versa. The new line provides an additional high voltage outlet path for Peach Bottom and Delta generation.</p> <p>[REDACTED]</p>
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Confirm that all technical analysis files have been provided for this proposal.	1.n. <input type="checkbox"/> Technical analysis files provided
Confirm that all necessary project diagrams have been provided for this proposal.	1.o. <input type="checkbox"/> Project diagram files provided
Indicate if company evaluation and operations and maintenance information has been provided for this proposal.	1.p. <input type="checkbox"/> Company evaluation and operations and maintenance information provided
If the answer to the cross-border question above at 1.g. was yes, complete the questions	
Indicate if an evaluation for interregional cost allocation is desired.	1.q.i. <input type="checkbox"/> Interregional Cost Allocation Evaluation <input type="text" value="Choose Yes or No"/>
	1.q.ii. <input type="checkbox"/> Evaluated in interregional analysis under PJM Tariff or Operating Agreement provisions <input type="text" value="Choose Yes or No"/>
Indicate if the proposal has been evaluated in a coordinated interregional analysis under the PJM Tariff or Operating Agreement provisions. Specify the analysis and applicable Tariff or Operating Agreement provisions.	<input type="text" value="If 'yes,' specify analysis and applicable Tariff or Operating Agreement provisions"/>
List the specific regional and interregional violations and issues from the regional and/or interregional analyses that identified the violations and issues addressed by the proposal.	1.q.iii. <input type="text" value="Regional and Interregional violations and issues from the Regional and/or Interregional analyses that identified the violations and issues addressed by the proposal."/>



Major Project Components

3. Major Project Components																																						
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<p>Provide a description for each major project component. Each project component will require the completion of the tab corresponding to the category of the component ("Greenfield Substation Component" tab for any proposed new substation, for example).</p>	3.a.	<p>Component description(s)</p> <p>Orrtanna Tap 115 kV 4-Breaker Ring Bus Switchyard Install a new 115 kV ring bus at the Orrtanna tap point of the METED Hunterstown – Orrtanna – Lincoln 115 kV 963 line. Add four 115 kV 2000 A breakers and eight 2000 A MODs. Protection upgrades and/or adjustments as necessary.</p>	<table border="1"> <thead> <tr> <th>Component 1</th> <th>Component 2</th> <th>Component 2</th> </tr> </thead> <tbody> <tr> <td> <p>Tap Hunterstown - Lincoln 115 kV (963) line Tap into existing Hunterstown - Lincoln 115 kV 963 line at the location of the original tap prior to METED's supplemental project that provides two sources to Orrtanna. Bring the Hunterstown and Lincoln lines into the new ring bus with two breakers separation between them.</p> </td> <td> <p>Tap Hunterstown - Lincoln 115 kV (963) line Tap into existing Hunterstown - Lincoln 115 kV 963 line at the location of the original tap prior to METED's supplemental project that provides two sources to Orrtanna. Bring the Hunterstown and Lincoln lines into the new ring bus with two breakers separation between them.</p> </td> <td></td> </tr> </tbody> </table>	Component 1	Component 2	Component 2	<p>Tap Hunterstown - Lincoln 115 kV (963) line Tap into existing Hunterstown - Lincoln 115 kV 963 line at the location of the original tap prior to METED's supplemental project that provides two sources to Orrtanna. Bring the Hunterstown and Lincoln lines into the new ring bus with two breakers separation between them.</p>	<p>Tap Hunterstown - Lincoln 115 kV (963) line Tap into existing Hunterstown - Lincoln 115 kV 963 line at the location of the original tap prior to METED's supplemental project that provides two sources to Orrtanna. Bring the Hunterstown and Lincoln lines into the new ring bus with two breakers separation between them.</p>																														
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3.b.	<p>Component cost (current year)</p> <table border="1"> <tbody> <tr><td>Engineering and design</td><td></td><td></td><td></td></tr> <tr><td>Permitting / routing / siting</td><td></td><td></td><td></td></tr> <tr><td>ROW / land acquisition</td><td></td><td></td><td></td></tr> <tr><td>Materials and equipment</td><td></td><td></td><td></td></tr> <tr><td>Construction and commissioning</td><td></td><td></td><td></td></tr> <tr><td>Construction management</td><td></td><td></td><td></td></tr> <tr><td>Overheads and miscellaneous costs</td><td></td><td></td><td></td></tr> <tr><td>Contingency</td><td></td><td></td><td></td></tr> <tr><td>Total component cost</td><td>\$ 5,970,380.09</td><td>\$ 688,914.66</td><td>\$ 375,277.73</td></tr> </tbody> </table>	Engineering and design				Permitting / routing / siting				ROW / land acquisition				Materials and equipment				Construction and commissioning				Construction management				Overheads and miscellaneous costs				Contingency				Total component cost	\$ 5,970,380.09	\$ 688,914.66	\$ 375,277.73	
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<p>Provide a component project cost breakdown into the identified categories along with a total component cost. Costs should be in current year dollars.</p>	3.c.	<p>Component cost (in-service year)</p> <table border="1"> <tbody> <tr> <td></td> <td>\$ 6,431,794.97</td> <td>\$ 742,156.74</td> <td>\$ 404,280.70</td> </tr> </tbody> </table>		\$ 6,431,794.97	\$ 742,156.74	\$ 404,280.70																																
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<p>If this proposal is being submitted as Market Efficiency project, provide an in-service year component project</p>	3.d.	<p>Construction responsibility</p>																																				
<p>Identify the entity who will be designated the component.</p>																																						



Major Project Components

3. Major Project Components						
Instructions						
		Component 4	Component 5	Component 6		
<p>Provide a description for each major project component. Each project component will require the completion of the tab corresponding to the category of the component ("Greenfield Substation Component" tab for any proposed new substation, for example).</p>	3.a.	Component description(s) Delta Tap 500 kV Switchyard Build a new 3-breaker 500 kV switchyard near the Delta York E.C. Station that taps into the southern end of the PEBO-DELT 500 kV (5034) line near the point that it leaves the PEBO-CONA 500 kV (5012) line ROW.	Tap Peach Bottom - Delta 500 kV (5034) Line Tap into existing Peach Bottom - Delta 500 kV 5034 line at the point where the line leaves the Peach Bottom - Conastone 500 kV (5012) line ROW. Bring the lines into the new Delta Tap Switchyard with two breakers separation between them.	Delta Tap - Conastone 500 kV line Build a new 14-mile Delta Tap – Conastone 500 kV line (using triple bundle 1590 ACSR 45/7 conductor).		
	<p>Provide a component project cost breakdown into the identified categories along with a total component cost. Costs should be in current year dollars.</p>	3.b.	Component cost (current year) Engineering and design Permitting / routing / siting ROW / land acquisition Materials and equipment Construction and commissioning Construction management Overheads and miscellaneous costs Contingency Total component cost	\$ 18,516,625.97	\$ 3,817,906.81	\$ 77,881,638.00
<p>If this proposal is being submitted as Market Efficiency project, provide an in-service year component project</p>		3.c.	Component cost (in-service year)	\$ 19,947,664.97	\$ 4,112,969.94	\$ 83,900,642.00
		3.d.	Construction responsibility			



Major Project Components

3. Major Project Components					
Instructions					
		Component 7	Component 8	Component 9	
<p>Provide a description for each major project component. Each project component will require the completion of the tab corresponding to the category of the component ("Greenfield Substation Component" tab for any proposed new substation, for example).</p>	3.a.	<p>Component description(s)</p> <p>Conastone 500 kV Substation Bay Line Termination Terminate the new Delta Tap 500 kV line in the open bay position north of the H breaker in the Conastone 500 kV yard. Add one (1) new 500 kV 4000 A circuit breaker and two (2) 500 kV 4000 A switches in the bay to protect the new line</p>	<p>Face Rock 115/69 kV Substation Upgrade Replace Face Rock 115/69 kV T1 and T2 transformers with larger units each capable of 110/135 MVA SN/SE and 125/155 MVA WN/WE. Perform additional work to remove limiting substation components from the 69 kV bay the transformers terminate into at Face Rock. Protection upgrades and/or adjustments as necessary.</p>		
	<p>Provide a component project cost breakdown into the identified categories along with a total component cost. Costs should be in current year dollars.</p>	3.b.	<p>Component cost (current year)</p>		
		Engineering and design			
		Permitting / routing / siting			
		ROW / land acquisition			
		Materials and equipment			
		Construction and commissioning			
		Construction management			
		Overheads and miscellaneous costs			
	Contingency				
		Total component cost	\$ 2,794,399.30	\$ 3,272,306.26	\$ -
<p>If this proposal is being submitted as Market Efficiency project, provide an in-service year component project</p>	3.c.	<p>Component cost (in-service year)</p>	\$ 3,010,361.66	\$ 3,525,203.19	
<p>Identify the entity who will be designated the component.</p>	3.d.	<p>Construction responsibility</p>			



Greenfield Substation Component

7. Greenfield Substation Component

Instructions	Inputs - 1	
Provide the corresponding component number from the "Project Components" tab of the proposal template.	7.a. Component number	1
Provide the name for the proposed substation.	7.b. Proposed substation name	Orrtanna Tap 115 kV Switchyard
Provide the latitude and longitude (in decimal degrees) of the site(s) evaluated for the substation.	7.c. Evaluated location(s)	
Provide a general description of the substation. Also, provide a single line diagram and general arrangement drawing.	7.d. Substation description	<p>Install a new 115 kV ring bus at the Orrtanna tap point of the METED Hunterstown – Orrtanna – Lincoln 115 kV 963 line (approximately 1.85 miles from Hunterstown 115 kV Station and 1.95 miles from Lincoln 115 kV Substation). Bring the Hunterstown - Orrtanna - Lincoln 115 kV line in and out of the new switchyard and provide two dedicated source feeds to Orrtanna from the new switchyard. Add four 115 kV 2000 A breakers and eight 2000 A MODs. The two dedicated feeds to Orrtanna will be separated by two breakers. Protection upgrades and/or adjustments as necessary.</p>
Describe the major substation equipment and provide the equipment ratings.	7.e. Substation equipment	<ul style="list-style-type: none"> - All 115kV switchyard conductor will be two (2) 795 ACC conductors (with spacers), per phase, or 4" schedule 80 aluminum bus. - Install four (4) 115kV, 2000A, 40kA circuit breakers. - Install eight (8) 115kV, 2000A, motor operated disconnect switches. - Install six (6) 115kV, 100kVA power voltage transformers. - Install two (2) 480V fused Square D safety switches. - Install two (2) 480V-240/120V, 300kVA transformers. - Install 25'x25" "stick built" or modular control cubicle will be erected and all electrical systems within the cubicle will be installed. - Break the existing First energy lines [REDACTED]. First Energy to install 4 wood poles in their existing ROW. [REDACTED] to install 4 steel poles to bring lines into the new switchyard.



Greenfield Substation Component

7. Greenfield Substation Component

Instructions

Provide the corresponding component number from the "Project Components" tab of the proposal template.

Describe the required site size, geography and current land use for the proposed site(s).

Provide an assessment of the potential environmental impacts (i.e. environmental impact study requirements, environmental permitting, sediment, and erosion control issues).

Community and landowner outreach plan

Inputs - 1

Component number

1

7.f.

Geography and land use

Fence line = 260 ft by 156 ft. 7.1 acre lot assumed. Land is presently vacant and fairly flat.

7.g.

Environmental assessment

The site was chosen based on operational and constructability intent. The intent was to minimize earth disturbance and environmental impacts. Upon award throughout development and engineering all civil and permitting activities will be adhered to. It is anticipated that a NPDES permit will be required and the appropriate time will be allotted during project execution.

7.h.

Outreach plan

██████████ is committed to open communications and transparency throughout the project lifecycle. As such, ██████████ develops a project-specific Community and Outreach Plan based on the unique conditions associated with each project. To communicate clearly and transparently ██████████ utilizes a wide variety of strategies including, in-person meetings with local municipalities and regulators, direct mail, project websites, fact sheets, frequently asked questions, and public open houses. For example, during the ██████████ ██████████ developed a strategic public outreach program that was the cornerstone of the project's success. The program included soliciting input from and providing timely updates to external stakeholders from the onset of the project through the completion. This was achieved using face to face meetings, direct mailings, multiple rounds of open houses, fact sheets, press releases and an interactive website.



Greenfield Substation Component

7. Greenfield Substation Component

Instructions

Provide the corresponding component number from the "Project Components" tab of the proposal template. 7.a.

Provide the project land acquisition plan and approach for both public and private lands. 7.i.

Describe any files or information that has been redacted from this section and provide the basis for the redaction. 7.j.

Inputs - 1

Component number

1

Land acquisition plan

- > Ordering of title, Phase 1 environmental study and appraisal
- > Various disciplines would perform a review to ensure the site meets standards
- > Meet with the property owner(s) to deliver the 15 Day Packet (PUC Requirement) and begin negotiations
- > Ongoing property owner negotiations and presentation of formal written offer (Agreement of Sale) once an agreement is reached
- > Revision (as needed) and execution of Agreement of Sale
- > [REDACTED] to perform due diligence activities (core boring, soil resistivity testing, infiltration testing, all other site testing) during the due diligence period outlined in the Agreement of Sale
- > Once the site has been approved by all required departments, [REDACTED] ROW to coordinate scheduling of closing with OGC and outside counsel

Redacted information



4. Transmission Line Reconductor/Rebuild Component

Instructions	Inputs - 1	
Provide the corresponding component number from the "Project Components" tab of the proposal template.	4.a. Component number	2
Identify the line terminal points. Add additional spaces if required.	4.b. Terminal points	Hunterstown Lincoln 963 line
Provide the size and type conductor that will be removed.	Existing Line Physical Characteristics	
Indicate whether the existing line hardware will be reused. If so, provide the age and condition of the hardware.	4.c. Existing conductor size and type	Unknown
Provide the condition and age of the existing structures. Describe the findings of any recent inspections or of analysis that has indicated a need for structural repair or reinforcement to re-conductor the line.	4.d. Existing hardware plan	Existing hardware is FE owned. New conductor and insulators will be installed between tap point and new 115kV switchyard. Conductor will match or exceed current rating.
Describe the terrain that the existing line traverses. Additionally, provide a Google Earth .KMZ file with the existing line path as an included document with the project proposal package.	4.e. Existing tower line characteristics	Existing structures in FE right of way to be replaced with new tap structures.
	4.f. Terrain description	New switchyard and tap points located in a farm field, relatively flat.



4. Transmission Line Reconductor/Rebuild Component

Instructions

Provide the corresponding component number from the "Project Components" tab of the proposal template.

Provide the target ratings for the line.

Provide the type and size of the conductor to be installed.

If the shield wire is to be replaced, identify the type and size to be used.

Describe the amount of the line that is anticipated to be rebuilt versus reconducted. Provide any assumptions that were used in arriving at this determination. If specific line sections have been identified for rebuild, provide route maps for (or specify in a Google Earth .KMZ file) those segments and identify the areas.

Describe the segments of the existing right-of-way that will need to be expanded or any newly required rights-of-way that will be required. If new or expanded right-of-way is required, provide route maps for (or specify in a Google Earth .KMZ file) those segments and identify the areas.

Describe any files or information that has been redacted from this section and provide the basis for the redaction.

Inputs - 1

4.a. Component number 2

Reconductor/Rebuild Component Plan

4.g. Component target ratings Match existng

4.h. Proposed conductor size and type 795 ACSR 26 / 7

4.i. Proposed shield wire size and type Would install an equivalent.

4.j. Rebuild portion Not applicable. Not a reconductor, just tapping the line.

4.k. Right of way Switchyard property to extend to FE existing ROW. No additional ROW will be required.

4.l. Redacted information



Greenfield Substation Component

7. Greenfield Substation Component

Instructions	Inputs - 2	
Provide the corresponding component number from the "Project Components" tab of the proposal template.	7.a. Component number	4
Provide the name for the proposed substation.	7.b. Proposed substation name	Delta Tap 500 kV Switchyard
Provide the latitude and longitude (in decimal degrees) of the site(s) evaluated for the substation.	7.c. Evaluated location(s)	
Provide a general description of the substation. Also, provide a single line diagram and general arrangement drawing.	7.d. Substation description	<p>Build a new 500 kV switchyard near the Delta York E.C. Station that taps into the southern end of the PEBO-DELT 500 kV (5034) line near the point that it leaves the PEBO-CONA 500 kV (5012) line ROW. The new switchyard will be a double-bus double-breaker design with three (3) new 500 kV 4000 A circuit breakers and eight (8) 500 kV 4000 A MODs in the initial buildout. Space will be left to accommodate one additional future circuit breaker. Protection upgrades and/or adjustments as necessary.</p>
Describe the major substation equipment and provide the equipment ratings.	7.e. Substation description	<p>Delta Tap Switchyard equipment:</p> <ul style="list-style-type: none"> - Two 500kV Line DE structures and foundations - 70 each 500kV single post insulator structures and foundations - 2300 lineal feet of 5" diameter bus - One 500kV Line DE structure and foundations for the feed line to the generator - Eight 500kV MOD switches, structures and foundations - Three 500 CBs and foundation - Six 500kV CCVTs – structure and foundations - 1000 lineal ft of synertech trench - Three 500/240-120 100VA PVTs structures and foundations - Need another SS source assume 3 phase 12kV in the yard w one 12470/240-120 transformer - 30'x30' stick framed or modular control house - Estimate yard size of 580'x400' - Fencing material ~ estimate 2000 lineal ft. - Three duplex panels for line relaying (six simplex) - Two SCADA panels - One fiber panel - Miscellaneous, hardware, strain bus 3-1590 for connections, safety switches and cable for wiring of devices.



Greenfield Substation Component

7. Greenfield Substation Component

Instructions	Inputs - 2			
Provide the corresponding component number from the "Project Components" tab of the proposal template.	7.a.	<table border="1"> <tr> <td>Component number</td> <td>4</td> </tr> </table>	Component number	4
Component number	4			
Describe the required site size, geography and current land use for the proposed site(s).	7.f.	<table border="1"> <tr> <td>Geography and land use</td> <td>Fence line = 580 ft by 400 ft. Land is presently vacant and fairly flat.</td> </tr> </table>	Geography and land use	Fence line = 580 ft by 400 ft. Land is presently vacant and fairly flat.
Geography and land use	Fence line = 580 ft by 400 ft. Land is presently vacant and fairly flat.			
Provide an assessment of the potential environmental impacts (i.e. environmental impact study requirements, environmental permitting, sediment, and erosion control issues).	7.g.	<table border="1"> <tr> <td>Environmental assessment</td> <td>The site was chosen based on operational and constructability intent. The intent was to minimize earth disturbance and environmental impacts. Upon award throughout development and engineering all civil and permitting activities will be adhered to. It is anticipated that a NPDES permit will be required and the appropriate time will be allotted during project execution.</td> </tr> </table>	Environmental assessment	The site was chosen based on operational and constructability intent. The intent was to minimize earth disturbance and environmental impacts. Upon award throughout development and engineering all civil and permitting activities will be adhered to. It is anticipated that a NPDES permit will be required and the appropriate time will be allotted during project execution.
Environmental assessment	The site was chosen based on operational and constructability intent. The intent was to minimize earth disturbance and environmental impacts. Upon award throughout development and engineering all civil and permitting activities will be adhered to. It is anticipated that a NPDES permit will be required and the appropriate time will be allotted during project execution.			
Community and landowner outreach plan	7.h.	<table border="1"> <tr> <td>Outreach plan</td> <td> <p>██████████ is committed to open communications and transparency throughout the project lifecycle. As such, ██████████ develops a project-specific Community and Outreach Plan based on the unique conditions associated with each project. To communicate clearly and transparently ██████████ utilizes a wide variety of strategies including, in-person meetings with local municipalities and regulators, direct mail, project websites, fact sheets, frequently asked questions, and public open houses. For example, during the ██████████ ██████████ developed a strategic public outreach program that was the cornerstone of the project's success. The program included soliciting input from and providing timely updates to external stakeholders from the onset of the project through the completion. This was achieved using face to face meetings, direct mailings, multiple rounds of open houses, fact sheets, press releases and an interactive website.</p> </td> </tr> </table>	Outreach plan	<p>██████████ is committed to open communications and transparency throughout the project lifecycle. As such, ██████████ develops a project-specific Community and Outreach Plan based on the unique conditions associated with each project. To communicate clearly and transparently ██████████ utilizes a wide variety of strategies including, in-person meetings with local municipalities and regulators, direct mail, project websites, fact sheets, frequently asked questions, and public open houses. For example, during the ██████████ ██████████ developed a strategic public outreach program that was the cornerstone of the project's success. The program included soliciting input from and providing timely updates to external stakeholders from the onset of the project through the completion. This was achieved using face to face meetings, direct mailings, multiple rounds of open houses, fact sheets, press releases and an interactive website.</p>
Outreach plan	<p>██████████ is committed to open communications and transparency throughout the project lifecycle. As such, ██████████ develops a project-specific Community and Outreach Plan based on the unique conditions associated with each project. To communicate clearly and transparently ██████████ utilizes a wide variety of strategies including, in-person meetings with local municipalities and regulators, direct mail, project websites, fact sheets, frequently asked questions, and public open houses. For example, during the ██████████ ██████████ developed a strategic public outreach program that was the cornerstone of the project's success. The program included soliciting input from and providing timely updates to external stakeholders from the onset of the project through the completion. This was achieved using face to face meetings, direct mailings, multiple rounds of open houses, fact sheets, press releases and an interactive website.</p>			



Greenfield Substation Component

7. Greenfield Substation Component

Instructions

Provide the corresponding component number from the "Project Components" tab of the proposal template. 7.a.

Provide the project land acquisition plan and approach for both public and private lands. 7.i.

Describe any files or information that has been redacted from this section and provide the basis for the redaction. 7.j.

Inputs - 2

Component number

4

Land acquisition plan

- > Ordering of title, Phase 1 environmental study and appraisal
- > Various disciplines would perform a review to ensure the site meets standards
- > Meet with the property owner(s) to deliver the 15 Day Packet (PUC Requirement) and begin negotiations
- > Ongoing property owner negotiations and presentation of formal written offer (Agreement of Sale) once an agreement is reached
- > Revision (as needed) and execution of Agreement of Sale
- > [REDACTED] to perform due diligence activities (core boring, soil resistivity testing, infiltration testing, all other site testing) during the due diligence period outlined in the Agreement of Sale
- > Once the site has been approved by all required departments, [REDACTED] ROW to coordinate scheduling of closing with OGC and outside counsel

Redacted information



4. Transmission Line Reconductor/Rebuild Component

Instructions	Inputs - 2							
Provide the corresponding component number from the "Project Components" tab of the proposal template.	4.a.	<table border="1"> <tr> <td>Component number</td> <td>5</td> </tr> </table>	Component number	5				
Component number	5							
Identify the line terminal points. Add additional spaces if required.	4.b.	<table border="1"> <tr> <td>Terminal points</td> <td>Peach Bottom</td> </tr> <tr> <td></td> <td>Delta York E.C.</td> </tr> <tr> <td></td> <td></td> </tr> </table>	Terminal points	Peach Bottom		Delta York E.C.		
Terminal points	Peach Bottom							
	Delta York E.C.							
Provide the size and type conductor that will be removed.	Existing Line Physical Characteristics							
	4.c.	<table border="1"> <tr> <td>Existing conductor size and type</td> <td>Unknown</td> </tr> </table>	Existing conductor size and type	Unknown				
Existing conductor size and type	Unknown							
Indicate whether the existing line hardware will be reused. If so, provide the age and condition of the hardware.	4.d.	<table border="1"> <tr> <td>Existing hardware plan</td> <td>Existing hardware is PECO owned. New conductor and insulators will be installed between tap point and new 500 kV switchyard. Conductor will match or exceed current rating.</td> </tr> </table>	Existing hardware plan	Existing hardware is PECO owned. New conductor and insulators will be installed between tap point and new 500 kV switchyard. Conductor will match or exceed current rating.				
Existing hardware plan	Existing hardware is PECO owned. New conductor and insulators will be installed between tap point and new 500 kV switchyard. Conductor will match or exceed current rating.							
Provide the condition and age of the existing structures. Describe the findings of any recent inspections or of analysis that has indicated a need for structural repair or reinforcement to re-conductor the line.	4.e.	<table border="1"> <tr> <td>Existing tower line characteristics</td> <td>Existing structures in PECO right of way to be replaced with new tap structures.</td> </tr> </table>	Existing tower line characteristics	Existing structures in PECO right of way to be replaced with new tap structures.				
Existing tower line characteristics	Existing structures in PECO right of way to be replaced with new tap structures.							
Describe the terrain that the existing line traverses. Additionally, provide a Google Earth .KMZ file with the existing line path as an included document with the project proposal package.	4.f.	<table border="1"> <tr> <td>Terrain description</td> <td>New switchyard and tap points located in a farm field, relatively flat.</td> </tr> </table>	Terrain description	New switchyard and tap points located in a farm field, relatively flat.				
Terrain description	New switchyard and tap points located in a farm field, relatively flat.							



4. Transmission Line Reconductor/Rebuild Component

Instructions	Inputs - 2			
Provide the corresponding component number from the "Project Components" tab of the proposal template.	4.a.	<table border="1"> <tr> <th>Component number</th> <td>5</td> </tr> </table>	Component number	5
Component number	5			
	Reconductor/Rebuild Component Plan			
Provide the target ratings for the line.	4.g.	<table border="1"> <tr> <th>Component target ratings</th> <td>Match existng</td> </tr> </table>	Component target ratings	Match existng
Component target ratings	Match existng			
Provide the type and size of the conductor to be installed.	4.h.	<table border="1"> <tr> <th>Proposed conductor size and type</th> <td>Not applicable. Not a reconductor, just tapping the line.</td> </tr> </table>	Proposed conductor size and type	Not applicable. Not a reconductor, just tapping the line.
Proposed conductor size and type	Not applicable. Not a reconductor, just tapping the line.			
If the shield wire is to be replaced, identify the type and size to be used.	4.i.	<table border="1"> <tr> <th>Proposed shield wire size and type</th> <td>Not applicable. Not a reconductor, just tapping the line.</td> </tr> </table>	Proposed shield wire size and type	Not applicable. Not a reconductor, just tapping the line.
Proposed shield wire size and type	Not applicable. Not a reconductor, just tapping the line.			
Describe the amount of the line that is anticipated to be rebuilt versus reconducted. Provide any assumptions that were used in arriving at this determination. If specific line sections have been identified for rebuild, provide route maps for (or specify in a Google Earth .KMZ file) those segments and identify the areas.	4.j.	<table border="1"> <tr> <th>Rebuild portion</th> <td>Not applicable. Not a reconductor, just tapping the line.</td> </tr> </table>	Rebuild portion	Not applicable. Not a reconductor, just tapping the line.
Rebuild portion	Not applicable. Not a reconductor, just tapping the line.			
Describe the segments of the existing right-of-way that will need to be expanded or any newly required rights-of-way that will be required. If new or expanded right-of-way is required, provide route maps for (or specify in a Google Earth .KMZ file) those segments and identify the areas.	4.k.	<table border="1"> <tr> <th>Right of way</th> <td>Switchyard property to extend to PECO existing ROW. No additional ROW will be required.</td> </tr> </table>	Right of way	Switchyard property to extend to PECO existing ROW. No additional ROW will be required.
Right of way	Switchyard property to extend to PECO existing ROW. No additional ROW will be required.			
Describe any files or information that has been redacted from this section and provide the basis for the redaction.	4.l.	<table border="1"> <tr> <th>Redacted information</th> <td></td> </tr> </table>	Redacted information	
Redacted information				



Greenfield Transmission Line Component

6. Transmission Line Component

Instructions	Inputs - 1	
Provide the corresponding component number from the "Project Components" tab of the proposal template.	6.a. Component Number	6
Provide the substation endpoints for the proposed transmission line component.	6.b. Line terminal points	Delta Tap 500 kV Switchyard Conastone 500 kV Substation
Provide the target ratings for the proposed line.	6.c. Project ratings	SN / SE: 3062 / 3525 MVA WN / WE: 3465 / 4043 MVA (Conductor capable of higher)
Provide the proposed conductor type and size.	6.d. Conductor type and size	Triple bundle 1590 ACSR 45 / 7 conductor
Provide a general description of the line, including nominal voltage, whether the facility will be AC or DC and if the construction will be overhead, underground, submarine or some combination.	6.e. General line description	Build a new AC overhead 14-mile Delta Tap – Conastone 500 kV line (using triple bundle 1590 ACSR 45/7 conductor). Protection upgrades and/or adjustments as necessary.
Provide a general description of the evaluated routes or routing study area. Provide a Google Earth .KMZ file with the evaluated routes or study plan.	6.f. General route description	The proposed route will be located within the study area shown [REDACTED]. The route will begin at the proposed new Delta Substation and proceed in a southwesterly direction to the Conastone Substation. Due to the natural and built environment within the study area, it would be premature to propose a line route until a comprehensive siting study is complete and public input is obtained. Based on the linear distance between the proposed Delta Substation and the Conastone Substation of ~13 miles, land uses and environmental conditions, it is anticipated that the proposed transmission line could be approximately 16 miles long once a route is selected.
Describe the terrain traversed by the proposed new line.	6.g. Terrain description	The terrain within the proposed study area is comprised of gently sloping hills with moderate elevation relief



6. Transmission Line Component

Instructions

Inputs - 1

Provide the corresponding component number from the "Project Components" tab of the proposal template.

6.a.

Component Number

6

Route description by segment that includes lengths and widths and classified by whether the segment will be new right of way, an expansion of an existing right of way or use an existing right of way. This information may be included with the Google Earth .KMZ.

6.h.

Right of way plan by segment

The entire proposed line will be situated in new ROW that will be obtained as part of this project. Until a complete siting study is complete, public input and a preferred alternative route is selected the specific length of the transmission line cannot be specified with certainty.

Provide the project right of way and land acquisition plan and approach for both public and private lands.

6.i.

ROW and land acquisition plan

- Ordering of title on each property crossed and a market study for the project area
- Meet with the property owner(s) along the route to deliver the 15 Day Packet (PUC Requirement) and begin negotiations
- Order survey exhibits to be prepared by PPL Survey
- Ongoing property owner negotiations and presentation of offer (Easement and Additional Consideration Form) once survey exhibits are completed
- Revision (as needed) and execution of Easement and Additional Consideration Form
- Recording of the easement with survey exhibit in the respective court house

Provide the location and plan for any transmission facility crossings.

6.j.

Transmission facility crossings

Until a comprehensive siting study is complete, public input and a preferred alternative route is selected the specific utility crossings cannot be identified. However, should the proposed route cross other transmission facilities, [redacted] will assure that the line with the higher voltage will cross above the lower voltage line and will design the crossing to meet all applicable clearances.



6. Transmission Line Component

Instructions

Inputs - 1

Provide the corresponding component number from the "Project Components" tab of the proposal template.

6.a.

Component Number

6

Provide an assessment of the potential environmental impacts (i.e. environmental impact study requirements, environmental permitting, sediment, and erosion control issues).

6.k.

Environmental impacts

Until a comprehensive siting study is complete, public input and a preferred alternative route is selected the specific environmental impacts cannot be identified. All new transmission lines have environmental impacts, however, [redacted] will mitigate environmental impacts to the extent practical while siting and constructing the line. [redacted] has a long track record of successfully siting and obtaining approval for new transmission lines. [redacted] siting process is focused on reducing impacts to the environment by identifying environmental conditions within the study area and then locating the transmission line in areas that are compatible with transmission facilities and avoiding areas that are adversely affected by transmission lines. Based on the study area, potential environmental impacts may include clearing forested land, soil disturbances from installing access roads and temporary workspaces, and stream crossings. [redacted] will mitigate these potential environmental impacts to the extent practical and will obtain all required permits needed to complete the project, including required erosion and sedimentation permits.

Proposed tower characteristics such as monopole, lattice, wood h-frame design, double or single circuit, and horizontal, vertical or delta conductor configurations. Note, preliminary drawings for proposed structure types are acceptable in place of a written description.

6.l.

Tower characteristics

Single circuit monopole. Delta configuration with dual OPGW

Describe any files or information that has been redacted from this section and provide the basis for the redaction.

6.m.

Redacted information



Substation Upgrade Component

5. Substation Upgrade Component

Instructions

Provide the corresponding component number from the "Project Components" tab of the proposal template.

Identify the name of the existing substation where the upgrade will take place.

Describe the scope of the upgrade work at the identified substation.

Inputs-1

Component number

7

Substation

Conastone 500 kV Substation

Substation upgrade scope

Terminate the new Delta Tap 500 kV line in the open bay position north of the H breaker in the Conastone 500 kV yard. Add one (1) new 500 kV 4000 A circuit breaker and three (3) 500 kV 4000 A switches to protect the new line. Protection upgrades and/or adjustments as necessary.



Substation Upgrade Component

5. Substation Upgrade Component

Instructions

Provide the corresponding component number from the "Project Components" tab of the proposal template. **5.a.**

Describe any new substation equipment and provide the equipment ratings.

Inputs-1

Component number

7

5.d.

New equipment description

Three 500 kV 4000 A MOD switches
One 500 kV 4000 A circuit breaker
One DE structure



Substation Upgrade Component

5. Substation Upgrade Component

Instructions

Provide the corresponding component number from the "Project Components" tab of the proposal template.

Describe the assumptions that were made about the substation that were used in developing the scope and cost for the upgrade. For example, the use of a bay that appears to be available, the proposed use of an open area within the substation or the relocation of existing equipment.

If the upgrade changes or expands upon the substation configuration provide a single line diagram and a station general arrangement drawing. These documents should be provided on the 'Redacted Information' tab under the appropriate project component.

If the substation fence needs to be expanded, indicate the real-estate plan for acquiring the needed land. Also, provide a Google Earth .KMZ file detailing the expansion.

Describe any files or information that has been redacted from this section and provide the basis for the redaction.

Inputs-1

5.a.

Component number

7

5.e.

Substation assumptions

Assumes that the bay position north of the H breaker is available and a line can successfully routed into the position.

5.f.

Substation drawings

5.g.

Real-estate plan

Not applicable.

5.h.

Redacted information



Substation Upgrade Component

5. Substation Upgrade Component

Instructions

Provide the corresponding component number from the "Project Components" tab of the proposal template.

Identify the name of the existing substation where the upgrade will take place.

Describe the scope of the upgrade work at the identified substation.

5.a.

5.b.

5.c.

Inputs-2

Component number

8

Substation

Face Rock 115 / 69 kV

Substation upgrade scope

Replace Face Rock 115/69 kV T1 and T2 transformers with larger units each capable of 110/135 MVA SN/SE and 125/155 MVA WN/WE.

Perform additional work as follows to remove limiting substation components from the 69 kV bay the transformers terminate into at Face Rock:

Replace limiting components in Bay 6 of the 69 kV yard and the transformer (T1 and T2) buses in order to achieve minimum terminal ratings of 2000 A (normal) and 2300 A (emergency). The 1200/5 A CT on the north side of CB 6C is to be upgraded to a 2000/5 A CT. All down-comers and leads between equipment within Bay 6 will need to be upgraded to either double bundle 795 KCMIL conductor or 3" Aluminum tubular bus that will meet the standard ampacity requirement of 2000/2300 A. Conductor termination into substation equipment will also need to be replaced to accommodate the new conductors or tubular bus. Down-comers, leads, and conductor terminations from the T1 and T2 low side to their respective terminations into Bay 6 will also be upgraded to double bundle 795 KCMIL conductors. All terminations are to be upgraded accordingly to accommodate the new conductors. Protection upgrades and/or adjustments as necessary.



Substation Upgrade Component

5. Substation Upgrade Component

Instructions

Provide the corresponding component number from the "Project Components" tab of the proposal template. **5.a.**

Describe any new substation equipment and provide the equipment ratings.

Inputs-2

Component number

8

5.d.

New equipment description

- Install two (2) new 115/69kV 110/135 MVA transformers T1 and T2 at the Face Rock 115/69kV Substation.
- Rewire the existing control and AC cables to the new transformer control cabinet. If the cables will not reach the new control cabinet, install two (2) junction boxes to terminate cables.
- Install the existing 4/0 ground connections to the new transformers.
- Replace two (2) spans of 1033 KCMIL (one down-comer to T1 and one span from the T1 structure to Bay 6D) with two (2) 795 ACSR.
- Replace two (2) spans of 1033 KCMIL (one down-comer to T2 and one span from the T2 structure to Bay 5D) with new double bundle 795 KC.
- Replace all conductor terminations associated with T1 and T2 with new terminations utilizing bifurcation pads to accommodate the new double bundle conductor.
- Install a new 2000/5A CT in place on the 1-3-5 bushings of CB 6C
- Replace the following conductor spans within Bay 6 with new two (2) 795 ACSR:
 - (a) Two (2) spans of 1590 ACSR from the North and South high side busses into disconnect switches.
 - (b) Six (6) leads of 1590 ACSR from each circuit breaker 6B, 6BT, 6C to their respective disconnect switches.
 - (c) Two (2) spans of 1590 ACSR (one down-comer and one OH span between lattice structures) Bay 6.
 - (d) Two (2) spans of 500 MCM Cu. (one down-comer and one OH span between lattice structures)
 - (e) One (1) down-comer of 350 KCMIL
- Replace the following conductor spans within Bay 6 with tubular bus to meet the standard ampacity requirements of a 69kV bus:
 - (a) One (1) span of 1590 ACSR between the 69kV disconnect switches for the Transformer T1 and T2 line circuit.
 - (b) One (1) span of 2.5" Al. tubular bus between the 69kV disconnect switches for the No. 695 SPAN HOLTWOOD line circuit.
- Replace all conductor terminations within Bay 6 with new terminations utilizing bifurcation pads to accommodate the new double bundle conductor



Substation Upgrade Component

5. Substation Upgrade Component

Instructions	Inputs-2	
<p>Provide the corresponding component number from the "Project Components" tab of the proposal template.</p>	5.a. Component number	8
<p>Describe the assumptions that were made about the substation that were used in developing the scope and cost for the upgrade. For example, the use of a bay that appears to be available, the proposed use of an open area within the substation or the relocation of existing equipment.</p>	5.e. Substation assumptions	Not Applicable
<p>If the upgrade changes or expands upon the substation configuration provide a single line diagram and a station general arrangement drawing. These documents should be provided on the 'Redacted Information' tab under the appropriate project component.</p>	5.f. Substation drawings	
<p>If the substation fence needs to be expanded, indicate the real-estate plan for acquiring the needed land. Also, provide a Google Earth .KMZ file detailing the expansion.</p>	5.g. Real-estate plan	No expansion required.
<p>Describe any files or information that has been redacted from this section and provide the basis for the redaction.</p>	5.h. Redacted information	

9. Project Financial Information

Instructions

Inputs

Project Schedule

Provide the planned construction period, include the month and year of when capital spend will begin, when construction will begin and when construction will end. The final construction month should be the month preceding the commercial operation month.

9.a.	Capital spend start date (Mo-Yr)	Jan-19
	Construction start date (Mo-Yr)	
	Commercial operation date (Mo-Yr)	Jan-23

Project Capital Expenditures

Provide, in present year dollars, capital expenditure estimates by year for the Proposing Entity, work to be completed by others (e.g. incumbent TO) and total project. Capital expenditure estimates should include all capital expenditure, including any ongoing expenditures, for which the Proposing Entity plans to seek FERC approval for recovery.

9.b.	Capital expenditure details	Total	2019	2020	2021	2022	2023	2024
	Engineering and design							
	Permitting / routing / siting							
	ROW / land acquisition							
	Materials and equipment							
	Construction and commissioning							
	Construction management							
	Overheads and miscellaneous costs							
	Contingency							
	Proposer total capex							
	Work by others capex							
	Total project capex	\$ 113,317,448.83	\$ 2,832,936.22	\$ 5,665,872.44	\$ 14,164,681.10	\$ 33,995,234.65	\$ 56,658,724.41	

Even if AFUDC is not going to be employed, provide a yearly AFUDC cash flow.

9.c.		Total	2019	2020	2021	2022	2023	2024
	AFUDC	\$ 2,832,936.22	\$ 70,823.41	\$ 141,646.81	\$ 354,117.03	\$ 849,880.87	\$ 1,416,468.11	

9. Project Financial Information

Instructions	Inputs
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Provide any assumptions for the capital expenditure estimate (e.g. design assumptions, weather, manpower needed and work schedule, number of hours per day, construction area access, etc.).

9.d. Assumptions for the capital expenditure estimate

The estimate assumes competitive unit prices to execute the proposed scope of work. Costs assume favorable weather, schedule, environmental conditions, and outage requirements to execute at a competitive price. The cost assumes that land and land rights for the proposed substation, switchyards and right of way ("ROW") will be acquired in the general vicinity of the locations included within this proposal. Land and ROW will be acquired amicably, and condemnation will not be required. Civil land conditions are suitable for the development of the proposed substations, switchyards, and transmission lines; including but not limited to geotechnical conditions, access rights, stormwater management, and permitting requirements. Potential environmental impacts can reasonably be mitigated or avoided, and appropriate permits and approvals can be readily obtained.

Describe any files or information that has been redacted from this section and provide the basis for the redaction.

9.e. Redacted information

[Redacted information]



Cost Containment Commitment

10. Cost Containment Commitment

Instructions	Inputs																					
Provide a description of the cost containment mechanism being proposed.	10.a. Cost containment commitment description <div style="background-color: #c6c8ca; height: 60px; width: 100%;"></div>																					
	10.b. Project scope covered by the cost containment commitment <div style="background-color: #c6c8ca; height: 50px; width: 100%;"></div>																					
Provide, in present year dollars and year of occurrence dollars, the Proposing Entity's proposed binding cap on capital expenditures.	10.b.i. Cost cap in present year dollars <div style="background-color: #c6c8ca; height: 20px; width: 80%;"></div>																					
	Cost cap in in-service year dollars <div style="background-color: #c6c8ca; height: 20px; width: 80%;"></div>																					
Provide any additional information related to the cap on capital expenditures, including but not limited to: if AFUDC is included in the cap, if all costs prior to commercial operation date are included in the cap, if the cap includes a variable or fixed inflation rate, etc.	10.b.ii. Additional Information on cost cap: <div style="background-color: #c6c8ca; height: 70px; width: 100%;"></div>																					
	10.b.iii. Cost containment capital expenditure exemptions <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #4a5558; color: white;">Capital cost component</th> <th style="background-color: #4a5558; color: white;">Component covered by cost containment</th> </tr> </thead> <tbody> <tr> <td>Engineering and design</td> <td>Choose Yes or No</td> </tr> <tr> <td>Permitting / routing / siting</td> <td>Choose Yes or No</td> </tr> <tr> <td>ROW / land acquisition</td> <td>Choose Yes or No</td> </tr> <tr> <td>Materials and equipment</td> <td>Choose Yes or No</td> </tr> <tr> <td>Construction and commissioning</td> <td>Choose Yes or No</td> </tr> <tr> <td>Construction management</td> <td>Choose Yes or No</td> </tr> <tr> <td>Overheads and miscellaneous costs</td> <td>Choose Yes or No</td> </tr> <tr> <td>Taxes</td> <td>Choose Yes or No</td> </tr> <tr> <td>AFUDC</td> <td>Choose Yes or No</td> </tr> <tr> <td>Escalation</td> <td>Choose Yes or No</td> </tr> </tbody> </table>	Capital cost component	Component covered by cost containment	Engineering and design	Choose Yes or No	Permitting / routing / siting	Choose Yes or No	ROW / land acquisition	Choose Yes or No	Materials and equipment	Choose Yes or No	Construction and commissioning	Choose Yes or No	Construction management	Choose Yes or No	Overheads and miscellaneous costs	Choose Yes or No	Taxes	Choose Yes or No	AFUDC	Choose Yes or No	Escalation
Capital cost component	Component covered by cost containment																					
Engineering and design	Choose Yes or No																					
Permitting / routing / siting	Choose Yes or No																					
ROW / land acquisition	Choose Yes or No																					
Materials and equipment	Choose Yes or No																					
Construction and commissioning	Choose Yes or No																					
Construction management	Choose Yes or No																					
Overheads and miscellaneous costs	Choose Yes or No																					
Taxes	Choose Yes or No																					
AFUDC	Choose Yes or No																					
Escalation	Choose Yes or No																					
Indicate which components of capital costs fall under the cost cap.																						



Cost Containment Commitment

10. Cost Containment Commitment

Instructions

Inputs

Describe any other cost containment measures not detailed above.

10.c.

Describe any other Cost Containment Measures not covered above:

Provide language to be included in the Designated Entity Agreement that expresses the legally binding commitment of the developer to the construction cost cap.

10.d.

Cost Commitment Legal Language

Explain any plans the proposing entity has in place to address the situation where project actual costs exceed the proposed cost containment commitment.

10.e.

Actuals Exceed Commitment

Describe any files or information that has been redacted from this section and provide the basis for the redaction.

10.f.

Redacted information