



**Executive Summary**  
**To be publically posted by PJM**

Blue indicates input cells for the Proposing Entity to complete  
 Orange indicates input cells for PJM to complete

**1. Executive Summary**

Instructions	Inputs
Provide the name of the Proposing Entity. If there are multiple entities, please identify each party.	1.a. <b>Proposing Entity name</b> [Redacted]
Provide the RTEP Proposal Window in which this proposal is being submitted.	1.b. <b>Proposal window</b> 2019 RTEP Open Window
Provide the Proposing Entity project proposal id. Use "A, B, C, ...", etc. to differentiate between proposals.	1.c. <b>Proposal identification</b> [Redacted]
PJM proposal identification	1.d. <b>PJM proposal identification</b> 2019_1-673
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 accomodations for the new line.)	1.e. <b>General project description</b> Replace terminal equipment and implement reconductoring of the Silverside-Darley and Darley-Naamans lines to achieve
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. <b>Tie line impact</b> No
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. <b>Interregional project</b> No
Indicate if the Proposing Entity intends to construct, own, operate, and maintain the infrastructure built under this proposal.	1.h. <b>Construct, own, operate and maintain</b> Yes
Total current year project cost estimate including estimates for any required Transmission Owner upgrades.	1.i. <b>Project cost estimate (current year)</b> \$5,500,000.00
Total in-service year project cost estimate including estimates for any required Transmission Owner upgrades.	1.j. <b>Project cost estimate (in-service year)</b> \$6,283,292.26
Project estimated schedule duration in months.	1.k. <b>Project schedule duration</b> 48
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	1.l. <b>Cost containment commitment</b> 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.).	1.m. <b>Additional benefits</b> [Redacted]
Confirm that all technical analysis files have been provided for this proposal.	1.n. <b>Technical analysis files provided</b> <input checked="" type="checkbox"/>



**Executive Summary**  
**To be publically posted by PJM**

Blue indicates input cells for the Proposing Entity to complete  
 Orange indicates input cells for PJM to complete

**1. Executive Summary**

Instructions	Inputs
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 below.	
Indicate if an evaluation for interregional cost allocation is desired.	1.q.i. <input type="checkbox"/> Interregional Cost Allocation Evaluation <input type="text" value="No"/>
	1.q.ii. <input type="checkbox"/> Evaluated in interregional analysis under PJM Tariff or Operating Agreement provisions <input type="text" value="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.	If 'yes,' specify analysis and applicable Tariff or Operating Agreement provisions <input type="text"/>
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="checkbox"/> Regional and Interregional violations and issues from the Regional and/or Interregional analyses that identified the violations and issues addressed by the proposal. <input type="text"/>



**Overloaded Facilities**  
To be publically posted by PJM

Facilities addressed by the proposed project

Instructions: List the criteria violation(s) or system constraint(s) solved or mitigated by the proposed project.

2.a.

FG #	Analysis Type	Bus #	Facility Name	To Bus #	To Bus Name	CKT	Voltage	Area
538	2024 Summer Generation Deliverability	231215	SILVERSD	231205	DARLEY	1	69	235
539	2024 Summer Generation Deliverability	231205	DARLEY	231211	NAAMANS	1	69	235



**Major Project Components**

To be publically posted by PJM

Blue indicates input cells for the Proposing Entity to complete

3. Major Project Components					
Instructions			Component 1	Component 2	Component 3
<p>Describe the scope of work for each major project component. Provide additional detail for each component on the corresponding (yellow) component tab. For example, complete a component on the "Greenfield Sub Comp" tab for each proposed new substation.</p>	3.a.	Component description(s)	Reconductor Silverside - Darley 69 kV Line	Reconductor Darley - Naamans 69 kV line	Upgrade Terminal Equipment at Silverside
	<p>Provide a project cost breakdown by the indicated categories for each component. State costs 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	\$ 1,392,000.00	\$ 2,088,000.00	\$ 475,000.00
<p>For Market Efficiency projects, provide an in-service year component project total cost.</p>	3.c.	Component cost (in-service year)	\$ 1,590,345.39	\$ 2,385,518.08	\$ 542,682.51
<p>Identify the entity who will be designated to build the component.</p>	3.d.	Construction responsibility	Delmarva Power & Light Company	Delmarva Power & Light Company	Delmarva Power & Light Company



**Major Project Components**

To be publically posted by PJM

Blue indicates input cells for the Proposing Entity to complete

3. Major Project Components																																								
Instructions		Component 4	Component 5	Component 6																																				
<p>Describe the scope of work for each major project component. Provide additional detail for each component on the corresponding (yellow) component tab. For example, complete a component on the "Greenfield Sub Comp" tab for each proposed new substation.</p>	3.a.	Component description(s)	Upgrade Terminal Equipment at Naamans Substation	Upgrade Terminal Equipment at Darley Substation																																				
	3.b.	<p>Component cost (current year)</p> <table border="1"> <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><b>Total component cost</b></td><td>\$</td><td>595,000.00</td><td>\$ 950,000.00</td><td>\$ -</td></tr> </table>	Engineering and design				Permitting / routing / siting				ROW / land acquisition				Materials and equipment				Construction and commissioning				Construction management				Overheads and miscellaneous costs				Contingency				<b>Total component cost</b>	\$	595,000.00	\$ 950,000.00	\$ -	
Engineering and design																																								
Permitting / routing / siting																																								
ROW / land acquisition																																								
Materials and equipment																																								
Construction and commissioning																																								
Construction management																																								
Overheads and miscellaneous costs																																								
Contingency																																								
<b>Total component cost</b>	\$	595,000.00	\$ 950,000.00	\$ -																																				
<p>Provide a project cost breakdown by the indicated categories for each component. State costs in current year dollars.</p>	3.c.	Component cost (in-service year)	\$ 679,781.25	\$ 1,085,365.03																																				
<p>For Market Efficiency projects, provide an in-service year component project total cost.</p>	3.d.	Construction responsibility	Delmarva Power & Light Company	Delmarva Power & Light Company																																				
<p>Identify the entity who will be designated to build the component.</p>																																								



## Reconductor/Rebuild Transmission Line Component

To be publically posted by PJM

Blue indicates input cells for the Proposing Entity to complete

### 4. Transmission Line Reconductor/Rebuild Component

Instructions	Inputs - 1						
Provide the corresponding component number from the "Project Components" tab.	<table border="1"> <tr> <td data-bbox="1460 413 2175 493">4.a. Component number</td> <td data-bbox="2175 413 3039 493">1</td> </tr> </table>	4.a. Component number	1				
4.a. Component number	1						
Identify the line terminal points. Add additional spaces if required.	<table border="1"> <tr> <td data-bbox="1460 493 2175 534">4.b. Terminal points</td> <td data-bbox="2175 493 3039 534">Silverside Substation</td> </tr> <tr> <td></td> <td data-bbox="2175 534 3039 574">Darley Substation</td> </tr> <tr> <td></td> <td data-bbox="2175 574 3039 614"></td> </tr> </table>	4.b. Terminal points	Silverside Substation		Darley Substation		
4.b. Terminal points	Silverside Substation						
	Darley Substation						
	<table border="1"> <tr> <td colspan="2" data-bbox="1460 635 3039 705">Existing Line Physical Characteristics</td> </tr> </table>	Existing Line Physical Characteristics					
Existing Line Physical Characteristics							
Provide the size and type conductor that will be removed.	<table border="1"> <tr> <td data-bbox="1460 705 2175 776">4.c. Existing conductor size and type</td> <td data-bbox="2175 705 3039 776">954 ACSR Phoenix 42/7, 477 ACSS Hawk 26/7</td> </tr> </table>	4.c. Existing conductor size and type	954 ACSR Phoenix 42/7, 477 ACSS Hawk 26/7				
4.c. Existing conductor size and type	954 ACSR Phoenix 42/7, 477 ACSS Hawk 26/7						
Indicate whether the existing line hardware will be reused. If so, provide the age and condition of the hardware.	<table border="1"> <tr> <td data-bbox="1460 776 2175 816">4.d. Existing hardware plan</td> <td data-bbox="2175 776 3039 937">Existing hardware will be replaced.</td> </tr> </table>	4.d. Existing hardware plan	Existing hardware will be replaced.				
4.d. Existing hardware plan	Existing hardware will be replaced.						
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.	<table border="1"> <tr> <td data-bbox="1460 937 2175 977">4.e. Existing tower line characteristics</td> <td data-bbox="2175 937 3039 1139">Existing structures will be reused where possible. In these instances, lattice towers are 50+ years old, but in good operating condition. No long-term plans to replace these towers.</td> </tr> </table>	4.e. Existing tower line characteristics	Existing structures will be reused where possible. In these instances, lattice towers are 50+ years old, but in good operating condition. No long-term plans to replace these towers.				
4.e. Existing tower line characteristics	Existing structures will be reused where possible. In these instances, lattice towers are 50+ years old, but in good operating condition. No long-term plans to replace these towers.						
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.	<table border="1"> <tr> <td data-bbox="1460 1139 2175 1179">4.f. Terrain description</td> <td data-bbox="2175 1139 3039 1340">Roughly half of the line resides in private ROW through wooded areas, with the remaining half of the line located within residential areas. Generally, the area is reasonably flat and above sea-level.</td> </tr> </table>	4.f. Terrain description	Roughly half of the line resides in private ROW through wooded areas, with the remaining half of the line located within residential areas. Generally, the area is reasonably flat and above sea-level.				
4.f. Terrain description	Roughly half of the line resides in private ROW through wooded areas, with the remaining half of the line located within residential areas. Generally, the area is reasonably flat and above sea-level.						
	<table border="1"> <tr> <td colspan="2" data-bbox="1460 1340 3039 1411">Reconductor/Rebuild Component Plan</td> </tr> </table>	Reconductor/Rebuild Component Plan					
Reconductor/Rebuild Component Plan							
Provide the target ratings for the line.	<table border="1"> <tr> <td data-bbox="1460 1411 2175 1481">4.g. Component target ratings</td> <td data-bbox="2175 1411 3039 1481">263 MVA Summer Emergency / 294 MVA Winter Emergency</td> </tr> </table>	4.g. Component target ratings	263 MVA Summer Emergency / 294 MVA Winter Emergency				
4.g. Component target ratings	263 MVA Summer Emergency / 294 MVA Winter Emergency						
Provide the type and size of the conductor to be installed.	<table border="1"> <tr> <td data-bbox="1460 1481 2175 1552">4.h. Proposed conductor size and type</td> <td data-bbox="2175 1481 3039 1552">(2) 636 24/7 ACSR</td> </tr> </table>	4.h. Proposed conductor size and type	(2) 636 24/7 ACSR				
4.h. Proposed conductor size and type	(2) 636 24/7 ACSR						
For shield wire replacements, identify the type and size to be used.	<table border="1"> <tr> <td data-bbox="1460 1552 2175 1596">4.i. Proposed shield wire size and type</td> <td data-bbox="2175 1552 3039 1596"></td> </tr> </table>	4.i. Proposed shield wire size and type					
4.i. Proposed shield wire size and type							



# Reconductor/Rebuild Transmission Line Component

To be publically posted by PJM

Blue indicates input cells for the Proposing Entity to complete

## 4. Transmission Line Reconductor/Rebuild Component

Instructions	Inputs - 1
<p>Provide the corresponding component number from the "Project Components" tab.</p>	<p><b>4.a.</b> <b>Component number</b> <input type="text" value="1"/></p>
<p>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.</p>	<p><b>4.j.</b> <b>Rebuild portion</b></p> <p>Three (3) existing lattice towers would need to be replaced with steel structures.</p>
<p>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.</p>	<p><b>4.k.</b> <b>Right of way</b></p> <p>Existing right-of-way will be utilized for this construction.</p>
<p>Describe any files or information that has been redacted from this section and provide the basis for the redaction.</p>	<p><b>4.l.</b> <b>Redacted information</b></p>



## Reconductor/Rebuild Transmission Line Component

To be publically posted by PJM

Blue indicates input cells for the Proposing Entity to complete

4. Transmission Line Reconductor/Rebuild Component		Inputs - 2	
Instructions			
Provide the corresponding component number from the "Project Components" tab.	4.a.	Component number	2
Identify the line terminal points. Add additional spaces if required.	4.b.	Terminal points	Darley Substation
			Naamans Substation
<b>Existing Line Physical Characteristics</b>			
Provide the size and type conductor that will be removed.	4.c.	Existing conductor size and type	397.5 ACSR Lark 30/7, 636 ACSR Rook 24/7
Indicate whether the existing line hardware will be reused. If so, provide the age and condition of the hardware.	4.d.	Existing hardware plan	Existing hardware will be replaced.
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.	Existing tower line characteristics	Existing structures will be reused where possible. In these instances existing lattice towers are 50+ years old, but in good operating condition. No long-term plans to replace these towers.
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.	Terrain description	
<b>Reconductor/Rebuild Component Plan</b>			
Provide the target ratings for the line.	4.g.	Component target ratings	263 MVA Summer Emergency / 294 MVA Winter Emergency
Provide the type and size of the conductor to be installed.	4.h.	Proposed conductor size and type	(2) 636 24/7 ACSR
For shield wire replacements, identify the type and size to be used.	4.i.	Proposed shield wire size and type	





# Reconductor/Rebuild Transmission Line Component

To be publically posted by PJM

Blue indicates input cells for the Proposing Entity to complete

4. Transmission Line Reconductor/Rebuild Component		Inputs - 2	
Instructions			
Provide the corresponding component number from the "Project Components" tab.	4.a.	Component number	2
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.	Rebuild portion	Four (4) existing lattice towers and one (1) wood pole structure would need to be replaced with taller steel structures.
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.	Right of way	Existing right-of-way will be utilized for this construction.
Describe any files or information that has been redacted from this section and provide the basis for the redaction.	4.l.	Redacted information	



## Substation Upgrade Component

To be publically posted by PJM

Blue indicates input cells for the Proposing Entity to complete

### 5. Substation Upgrade Component

Instructions	Inputs-1		
Provide the corresponding component number from the "Project Components" tab.	<table border="1"> <tr> <td data-bbox="1460 413 2175 493">5.a. Component number</td> <td data-bbox="2175 413 3052 493">3</td> </tr> </table>	5.a. Component number	3
5.a. Component number	3		
Identify the name of the existing substation where the upgrade will take place.	<table border="1"> <tr> <td data-bbox="1460 493 2175 574">5.b. Substation</td> <td data-bbox="2175 493 3052 574">Silverside</td> </tr> </table>	5.b. Substation	Silverside
5.b. Substation	Silverside		
Describe the scope of the upgrade work at the identified substation.	<table border="1"> <tr> <td data-bbox="1460 574 2175 735">5.c. Substation upgrade scope</td> <td data-bbox="2175 574 3052 735">Replace three (3) existing 1200A disconnect switches with 2000A disconnect switches</td> </tr> </table>	5.c. Substation upgrade scope	Replace three (3) existing 1200A disconnect switches with 2000A disconnect switches
5.c. Substation upgrade scope	Replace three (3) existing 1200A disconnect switches with 2000A disconnect switches		
Describe any new substation equipment and provide the equipment ratings.	<table border="1"> <tr> <td data-bbox="1460 735 2175 897">5.d. New equipment description</td> <td data-bbox="2175 735 3052 897">Three (3) new 2000A (310 MVA SE / 351 MVA WE) disconnect switches</td> </tr> </table>	5.d. New equipment description	Three (3) new 2000A (310 MVA SE / 351 MVA WE) disconnect switches
5.d. New equipment description	Three (3) new 2000A (310 MVA SE / 351 MVA WE) disconnect switches		
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.	<table border="1"> <tr> <td data-bbox="1460 897 2175 1098">5.e. Substation assumptions</td> <td data-bbox="2175 897 3052 1098">Replacing existing equipment, no reconfiguration needed.</td> </tr> </table>	5.e. Substation assumptions	Replacing existing equipment, no reconfiguration needed.
5.e. Substation assumptions	Replacing existing equipment, no reconfiguration needed.		
Provide a single line diagram and a station general arrangement drawing for upgraded which change or expand the substation configuration. List these documents on the 'Redacted Information' tab under the appropriate project component.	<table border="1"> <tr> <td data-bbox="1460 1098 2175 1260">5.f. Substation drawings</td> <td data-bbox="2175 1098 3052 1260"></td> </tr> </table>	5.f. Substation drawings	
5.f. Substation drawings			
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.	<table border="1"> <tr> <td data-bbox="1460 1260 2175 1421">5.g. Real-estate plan</td> <td data-bbox="2175 1260 3052 1421">No changes to existing substation plot.</td> </tr> </table>	5.g. Real-estate plan	No changes to existing substation plot.
5.g. Real-estate plan	No changes to existing substation plot.		
Describe any files or information that has been redacted from this section and provide the basis for the redaction.	<table border="1"> <tr> <td data-bbox="1460 1421 2175 1576">5.h. Redacted information</td> <td data-bbox="2175 1421 3052 1576"></td> </tr> </table>	5.h. Redacted information	
5.h. Redacted information			



## Substation Upgrade Component

To be publically posted by PJM

Blue indicates input cells for the Proposing Entity to complete

5. Substation Upgrade Component		Inputs-1	
Instructions			
Provide the corresponding component number from the "Project Components" tab.	5.a.	Component number	4
Identify the name of the existing substation where the upgrade will take place.	5.b.	Substation	Naamans
Describe the scope of the upgrade work at the identified substation.	5.c.	Substation upgrade scope	Replace two (2) 1200A disconnect switches with 2000A disconnect switces. Replace existing 954 ACSR and 500 SDCU stranded bus with (2) 954 ACSR stranded bus. Reconfigure four (4) CTs from 1200A to 2000A
Describe any new substation equipment and provide the equipment ratings.	5.d.	New equipment description	Two (2) new 2000A (310 MVA SE / 351 MVA WE) disconnect switches, new (2) 954 ACSR (331 MVA SE / 369 MVA WE) stranded bus
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.	5.e.	Substation assumptions	Replacing existing equipment, no reconfiguration needed.
Provide a single line diagram and a station general arrangement drawing for upgraded which change or expand the substation configuration List these documents on the 'Redacted Information' tab under the appropriate project component.	5.f.	Substation drawings	
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.	5.g.	Real-estate plan	No changes to existing substation plot.
Describe any files or information that has been redacted from this section and provide the basis for the redaction.	5.h.	Redacted information	



## Substation Upgrade Component

To be publically posted by PJM

Blue indicates input cells for the Proposing Entity to complete

5. Substation Upgrade Component		Inputs-3	
Instructions			
Provide the corresponding component number from the "Project Components" tab.	5.a.	Component number	5
Identify the name of the existing substation where the upgrade will take place.	5.b.	Substation	Darley
Describe the scope of the upgrade work at the identified substation.	5.c.	Substation upgrade scope	Replace four (4) 1200A disconnect switches with 2000A disconnect switces. Replace existing 954 ACSR and 1272 MCM AL stranded bus with (2) 954 ACSR stranded bus. Reconfigure eight (8) CTs from 1200A to 2000A
Describe any new substation equipment and provide the equipment ratings.	5.d.	New equipment description	Four (4) new 2000A (310 MVA SE / 351 MVA WE) disconnect switches, new (2) 954 ACSR (331 MVA SE / 369 MVA WE) stranded bus
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.	5.e.	Substation assumptions	Replacing existing equipment, no reconfiguration needed.
Provide a single line diagram and a station general arrangement drawing for upgraded which change or expand the substation configuration List these documents on the 'Redacted Information' tab under the appropriate project component.	5.f.	Substation drawings	
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.	5.g.	Real-estate plan	No changes to existing substation plot.
Describe any files or information that has been redacted from this section and provide the basis for the redaction.	5.h.	Redacted information	



**Project Financial Information**

To be publically posted by PJM

Blue indicates input cells for the Proposing Entity to complete

**9. Project Financial Information**

Instructions

Inputs

**Project Schedule**

Provide the planned construction period. Include start and end dates (month and year) of capital spend as well as the start and end dates (month and year) of construction. Commercial operation typically begins in the month following the end of construction.

9.a.	Capital spend start date (Mo-Yr)	May-20
	Construction start date (Mo-Yr)	Oct-23
	Commercial operation date (Mo-Yr)	May-24

**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. Include all capital expenditure, such as 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							
	<b>Total project capex</b>	\$ 5,500,000	\$ -	\$ 66,950	\$ 300,950	\$ 954,000	\$ 3,305,900	\$ 872,200

Provide a yearly AFUDC cash flow, even if AFUDC is not going to be employed.

9.c.		Total	2019	2020	2021	2022	2023	2024
	AFUDC	\$ -						

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

9.d.	Assumptions for the capital expenditure estimate	

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

9.e.	Redacted information	