



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. <table border="1" style="width: 100%;"><tr><td style="background-color: #4a5558; color: white;">Proposing Entity name</td><td style="background-color: black;"></td></tr></table>	Proposing Entity name	
Proposing Entity name			
Provide the RTEP Proposal Window in which this proposal is being submitted.	1.b. <table border="1" style="width: 100%;"><tr><td style="background-color: #4a5558; color: white;">Proposal window</td><td style="background-color: #c6c8ca;">2019 Proposal Window 1</td></tr></table>	Proposal window	2019 Proposal Window 1
Proposal window	2019 Proposal Window 1		
Provide the Proposing Entity project proposal id. Use "A, B, C, ...", etc. to differentiate between proposals.	1.c. <table border="1" style="width: 100%;"><tr><td style="background-color: #4a5558; color: white;">Proposal identification</td><td style="background-color: #c6c8ca;">A</td></tr></table>	Proposal identification	A
Proposal identification	A		
PJM proposal identification	1.d. <table border="1" style="width: 100%;"><tr><td style="background-color: #4a5558; color: white;">PJM proposal identification</td><td style="background-color: #ffc107;">2019_1-640</td></tr></table>	PJM proposal identification	2019_1-640
PJM proposal identification	2019_1-640		
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. <table border="1" style="width: 100%;"><tr><td style="background-color: #4a5558; color: white;">General project description</td><td style="background-color: #c6c8ca;">Proposal A increases the ampacity on Line 227 between Pleasant View Junction and Beaumeade by increasing the maximum operating temperature of the 1192.5 ACSS 45/7 conductor from 145° C to 200° C and the 1590 ACSR 45/7 conductor at Ashburn from 145° C to 150° C .</td></tr></table>	General project description	Proposal A increases the ampacity on Line 227 between Pleasant View Junction and Beaumeade by increasing the maximum operating temperature of the 1192.5 ACSS 45/7 conductor from 145° C to 200° C and the 1590 ACSR 45/7 conductor at Ashburn from 145° C to 150° C .
General project description	Proposal A increases the ampacity on Line 227 between Pleasant View Junction and Beaumeade by increasing the maximum operating temperature of the 1192.5 ACSS 45/7 conductor from 145° C to 200° C and the 1590 ACSR 45/7 conductor at Ashburn from 145° C to 150° C .		
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. <table border="1" style="width: 100%;"><tr><td style="background-color: #4a5558; color: white;">Tie line impact</td><td style="background-color: #c6c8ca;">No</td></tr></table>	Tie line impact	No
Tie line impact	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. <table border="1" style="width: 100%;"><tr><td style="background-color: #4a5558; color: white;">Interregional project</td><td style="background-color: #c6c8ca;">No</td></tr></table>	Interregional project	No
Interregional project	No		
Indicate if the Proposing Entity intends to construct, own, operate, and maintain the infrastructure built under this proposal.	1.h. <table border="1" style="width: 100%;"><tr><td style="background-color: #4a5558; color: white;">Construct, own, operate and maintain</td><td style="background-color: #c6c8ca;">Yes</td></tr></table>	Construct, own, operate and maintain	Yes
Construct, own, operate and maintain	Yes		
Total current year project cost estimate including estimates for any required Transmission Owner upgrades.	1.i. <table border="1" style="width: 100%;"><tr><td style="background-color: #4a5558; color: white;">Project cost estimate (current year)</td><td style="background-color: #c6c8ca;">\$7,010,888</td></tr></table>	Project cost estimate (current year)	\$7,010,888
Project cost estimate (current year)	\$7,010,888		
Total in-service year project cost estimate including estimates for any required Transmission Owner upgrades.	1.j. <table border="1" style="width: 100%;"><tr><td style="background-color: #4a5558; color: white;">Project cost estimate (in-service year)</td><td style="background-color: #c6c8ca;">\$8,163,444.00</td></tr></table>	Project cost estimate (in-service year)	\$8,163,444.00
Project cost estimate (in-service year)	\$8,163,444.00		
Project estimated schedule duration in months.	1.k. <table border="1" style="width: 100%;"><tr><td style="background-color: #4a5558; color: white;">Project schedule duration</td><td style="background-color: #c6c8ca;">20</td></tr></table>	Project schedule duration	20
Project schedule duration	20		
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. <table border="1" style="width: 100%;"><tr><td style="background-color: #4a5558; color: white;">Cost containment commitment</td><td style="background-color: #c6c8ca;">No</td></tr></table>	Cost containment commitment	No
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.).	1.m. <table border="1" style="width: 100%;"><tr><td style="background-color: #4a5558; color: white;">Additional benefits</td><td style="background-color: #c6c8ca;">No new ROW required. [redacted] is providing three viable alternatives (A, B, C) to resolve the violations caused by the flowgates listed under Tab 2. Proposal C, with the highest conductor capacity, meets the current [redacted] standard for 230kV construction in northern Virginia and [redacted] believes that this is the best long term solution for these violations. Proposal A, although the least expensive, provides the least amount of additional capacity on Line 227 to support the future load growth of the area.</td></tr></table>	Additional benefits	No new ROW required. [redacted] is providing three viable alternatives (A, B, C) to resolve the violations caused by the flowgates listed under Tab 2. Proposal C, with the highest conductor capacity, meets the current [redacted] standard for 230kV construction in northern Virginia and [redacted] believes that this is the best long term solution for these violations. Proposal A, although the least expensive, provides the least amount of additional capacity on Line 227 to support the future load growth of the area.
Additional benefits	No new ROW required. [redacted] is providing three viable alternatives (A, B, C) to resolve the violations caused by the flowgates listed under Tab 2. Proposal C, with the highest conductor capacity, meets the current [redacted] standard for 230kV construction in northern Virginia and [redacted] believes that this is the best long term solution for these violations. Proposal A, although the least expensive, provides the least amount of additional capacity on Line 227 to support the future load growth of the area.		
Confirm that all technical analysis files have been provided for this proposal.	1.n. <table border="1" style="width: 100%;"><tr><td style="background-color: #4a5558; color: white;">Technical analysis files provided</td><td style="background-color: #c6c8ca;"><input checked="" type="checkbox"/></td></tr></table>	Technical analysis files provided	<input checked="" type="checkbox"/>
Technical analysis files provided	<input checked="" type="checkbox"/>		



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Instructions	Inputs			
Confirm that all necessary project diagrams have been provided for this proposal.	<table border="1"> <tr> <td style="background-color: #444; color: white;">1.o.</td> <td style="background-color: #444; color: white;">Project diagram files provided</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table>	1.o.	Project diagram files provided	<input checked="" type="checkbox"/>
1.o.	Project diagram files provided	<input checked="" type="checkbox"/>		
Indicate if company evaluation and operations and maintenance information has been provided for this proposal.	<table border="1"> <tr> <td style="background-color: #444; color: white;">1.p.</td> <td style="background-color: #444; color: white;">Company evaluation and operations and maintenance information provided</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table>	1.p.	Company evaluation and operations and maintenance information provided	<input checked="" type="checkbox"/>
1.p.	Company evaluation and operations and maintenance information provided	<input checked="" type="checkbox"/>		
	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.	<table border="1"> <tr> <td style="background-color: #444; color: white;">1.q.i.</td> <td style="background-color: #444; color: white;">Interregional Cost Allocation Evaluation</td> <td style="text-align: center;">No</td> </tr> </table>	1.q.i.	Interregional Cost Allocation Evaluation	No
1.q.i.	Interregional Cost Allocation Evaluation	No		
	<table border="1"> <tr> <td style="background-color: #444; color: white;">1.q.ii.</td> <td style="background-color: #444; color: white;">Evaluated in interregional analysis under PJM Tariff or Operating Agreement provisions</td> <td style="text-align: center;">No</td> </tr> </table>	1.q.ii.	Evaluated in interregional analysis under PJM Tariff or Operating Agreement provisions	No
1.q.ii.	Evaluated in interregional analysis under PJM Tariff or Operating Agreement provisions	No		
	If 'yes,' specify analysis and applicable Tariff or Operating Agreement provisions			
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.	NA			
	1.q.iii. Regional and Interregional violations and issues from the Regional and/or Interregional analyses that identified the violations and issues addressed by the proposal.			
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.	NA			



Major Project Components

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3. Major Project Components					
Instructions			Component 1	Component 2	Component 3
	3.a.	Component description(s)			
		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.	At Beaumeade Substation, replace terminal equipment	At Ashburn Substation, replace terminal equipment	Uprate line segment from Beaumeade to Ashburn to increase capacity by replacing clamps and re-sagging conductor
	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	\$ -	\$ -	\$ -
	3.c.	Component cost (in-service year)			
		For Market Efficiency projects, provide an in-service year component project total cost.			
	3.d.	Construction responsibility	Dominion Energy Virginia	Dominion Energy Virginia	Dominion Energy Virginia
		Identify the entity who will be designated to build the component.			



Major Project Components

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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)	Uprate line segment from Ashburn to Cochran Mill DP to increase capacity by replacing clamps and re-sagging conductor (from Ashburn to Pleasant View Junction)		
	<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		\$ -	\$ -	\$ -	
<p>For Market Efficiency projects, provide an in-service year component project total cost.</p>	3.c.	Component cost (in-service year)			
	3.d.	Construction responsibility	Dominion Energy Virginia		



Substation Upgrade Component

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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">1</td> </tr> </table>	5.a. Component number	1
5.a. Component number	1		
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">Beaumeade</td> </tr> </table>	5.b. Substation	Beaumeade
5.b. Substation	Beaumeade		
Describe the scope of the upgrade work at the identified substation.	<table border="1"> <tr> <td data-bbox="1460 574 2175 715">5.c. Substation upgrade scope</td> <td data-bbox="2175 574 3052 715">Replace wave trap, line switch, and breaker disconnects.</td> </tr> </table>	5.c. Substation upgrade scope	Replace wave trap, line switch, and breaker disconnects.
5.c. Substation upgrade scope	Replace wave trap, line switch, and breaker disconnects.		
Describe any new substation equipment and provide the equipment ratings.	<table border="1"> <tr> <td data-bbox="1460 715 2175 876">5.d. New equipment description</td> <td data-bbox="2175 715 3052 876">NA</td> </tr> </table>	5.d. New equipment description	NA
5.d. New equipment description	NA		
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 876 2175 1098">5.e. Substation assumptions</td> <td data-bbox="2175 876 3052 1098">NA</td> </tr> </table>	5.e. Substation assumptions	NA
5.e. Substation assumptions	NA		
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 1219">5.f. Substation drawings</td> <td data-bbox="2175 1098 3052 1219"></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 1219 2175 1380">5.g. Real-estate plan</td> <td data-bbox="2175 1219 3052 1380">NA</td> </tr> </table>	5.g. Real-estate plan	NA
5.g. Real-estate plan	NA		
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 1380 2175 1562">5.h. Redacted information</td> <td data-bbox="2175 1380 3052 1562">5f</td> </tr> </table>	5.h. Redacted information	5f
5.h. Redacted information	5f		



Substation Upgrade Component

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5. Substation Upgrade Component		Inputs-1	
Instructions			
Provide the corresponding component number from the "Project Components" tab.	5.a.	Component number	2
Identify the name of the existing substation where the upgrade will take place.	5.b.	Substation	Ashburn
Describe the scope of the upgrade work at the identified substation.	5.c.	Substation upgrade scope	Replace line lead and line switch.
Describe any new substation equipment and provide the equipment ratings.	5.d.	New equipment description	NA
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	NA
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	NA
Describe any files or information that has been redacted from this section and provide the basis for the redaction.	5.h.	Redacted information	5f



Reconductor/Rebuild Transmission Line Component

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4. Transmission Line Reconductor/Rebuild Component

Instructions	Inputs - 1									
Provide the corresponding component number from the "Project Components" tab.	<table border="1"> <tr> <td style="background-color: #444; color: white;">4.a.</td> <td style="background-color: #444; color: white;">Component number</td> <td style="background-color: #cce5ff;">3</td> </tr> </table>	4.a.	Component number	3						
4.a.	Component number	3								
Identify the line terminal points. Add additional spaces if required.	<table border="1"> <tr> <td style="background-color: #444; color: white;">4.b.</td> <td style="background-color: #444; color: white;">Terminal points</td> <td style="background-color: #cce5ff;">Beaumeade</td> </tr> <tr> <td></td> <td></td> <td style="background-color: #cce5ff;">Ashburn</td> </tr> <tr> <td></td> <td></td> <td style="background-color: #cce5ff;"></td> </tr> </table>	4.b.	Terminal points	Beaumeade			Ashburn			
4.b.	Terminal points	Beaumeade								
		Ashburn								
Existing Line Physical Characteristics										
Provide the size and type conductor that will be removed.	<table border="1"> <tr> <td style="background-color: #444; color: white;">4.c.</td> <td style="background-color: #444; color: white;">Existing conductor size and type</td> <td style="background-color: #cce5ff;">NA</td> </tr> </table>	4.c.	Existing conductor size and type	NA						
4.c.	Existing conductor size and type	NA								
Indicate whether the existing line hardware will be reused. If so, provide the age and condition of the hardware.	<table border="1"> <tr> <td style="background-color: #444; color: white;">4.d.</td> <td style="background-color: #444; color: white;">Existing hardware plan</td> <td style="background-color: #cce5ff;">Existing conductor will remain in use. Only the conductor hardware will be replaced.</td> </tr> </table>	4.d.	Existing hardware plan	Existing conductor will remain in use. Only the conductor hardware will be replaced.						
4.d.	Existing hardware plan	Existing conductor will remain in use. Only the conductor 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 style="background-color: #444; color: white;">4.e.</td> <td style="background-color: #444; color: white;">Existing tower line characteristics</td> <td style="background-color: #cce5ff;"></td> </tr> </table>	4.e.	Existing tower line characteristics							
4.e.	Existing tower line characteristics									
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 style="background-color: #444; color: white;">4.f.</td> <td style="background-color: #444; color: white;">Terrain description</td> <td style="background-color: #cce5ff;">From Pleasant View Substation, southeast to Beaumeade Substation, the line traverses through still, relatively flat terrain with more dense scrub shrub and wooded vegetation. The surrounding area is industrial in nature as the existing line parallels a large quarry and crosses Goose Creek, a tributary to the Potomac River. After crossing Belmont Ridge Road (Route 659) the existing line is surrounded mostly by residential homes on flat terrain. This final segment crosses another unnamed tributary to the Potomac River. From Pleasant View Substation to Beaumeade Substation, the existing line also parallels a paved and flat Pedestrian/Bike Trail.</td> </tr> </table>	4.f.	Terrain description	From Pleasant View Substation, southeast to Beaumeade Substation, the line traverses through still, relatively flat terrain with more dense scrub shrub and wooded vegetation. The surrounding area is industrial in nature as the existing line parallels a large quarry and crosses Goose Creek, a tributary to the Potomac River. After crossing Belmont Ridge Road (Route 659) the existing line is surrounded mostly by residential homes on flat terrain. This final segment crosses another unnamed tributary to the Potomac River. From Pleasant View Substation to Beaumeade Substation, the existing line also parallels a paved and flat Pedestrian/Bike Trail.						
4.f.	Terrain description	From Pleasant View Substation, southeast to Beaumeade Substation, the line traverses through still, relatively flat terrain with more dense scrub shrub and wooded vegetation. The surrounding area is industrial in nature as the existing line parallels a large quarry and crosses Goose Creek, a tributary to the Potomac River. After crossing Belmont Ridge Road (Route 659) the existing line is surrounded mostly by residential homes on flat terrain. This final segment crosses another unnamed tributary to the Potomac River. From Pleasant View Substation to Beaumeade Substation, the existing line also parallels a paved and flat Pedestrian/Bike Trail.								
Reconductor/Rebuild Component Plan										
Provide the target ratings for the line.	<table border="1"> <tr> <td style="background-color: #444; color: white;">4.g.</td> <td style="background-color: #444; color: white;">Component target ratings</td> <td style="background-color: #cce5ff;">937 MVA</td> </tr> </table>	4.g.	Component target ratings	937 MVA						
4.g.	Component target ratings	937 MVA								
Provide the type and size of the conductor to be installed.	<table border="1"> <tr> <td style="background-color: #444; color: white;">4.h.</td> <td style="background-color: #444; color: white;">Proposed conductor size and type</td> <td style="background-color: #cce5ff;">NA</td> </tr> </table>	4.h.	Proposed conductor size and type	NA						
4.h.	Proposed conductor size and type	NA								
For shield wire replacements, identify the type and size to be used.	<table border="1"> <tr> <td style="background-color: #444; color: white;">4.i.</td> <td style="background-color: #444; color: white;">Proposed shield wire size and type</td> <td style="background-color: #cce5ff;">NA</td> </tr> </table>	4.i.	Proposed shield wire size and type	NA						
4.i.	Proposed shield wire size and type	NA								



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4. Transmission Line Reconductor/Rebuild Component

Instructions

Inputs - 1

Provide the corresponding component number from the "Project Components" tab.

4.a. Component number 3

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
NA

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
NA

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

4.l. Redacted information
4e



Reconductor/Rebuild Transmission Line Component

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4. Transmission Line Reconductor/Rebuild Component		Inputs - 2	
Instructions			
Provide the corresponding component number from the "Project Components" tab.	4.a.	Component number	4
Identify the line terminal points. Add additional spaces if required.	4.b.	Terminal points	Ashburn
			Cochran Mill DP
Existing Line Physical Characteristics			
Provide the size and type conductor that will be removed.	4.c.	Existing conductor size and type	NA
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 conductor will remain in use. Only the conductor hardware will be replaced.
		Existing tower line characteristics	
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.		
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	From Pleasant View Substation, southeast to Beaumeade Substation, the line traverses through still, relatively flat terrain with more dense scrub shrub and wooded vegetation. The surrounding area is industrial in nature as the existing line parallels a large quarry and crosses Goose Creek, a tributary to the Potomac River. After crossing Belmont Ridge Road (Route 659) the existing line is surrounded mostly by residential homes on flat terrain. This final segment crosses another unnamed tributary to the Potomac River. From Pleasant View Substation to Beaumeade Substation, the existing line also parallels a paved and flat Pedestrian/Bike Trail.
Reconductor/Rebuild Component Plan			
Provide the target ratings for the line.	4.g.	Component target ratings	937 MVA
Provide the type and size of the conductor to be installed.	4.h.	Proposed conductor size and type	NA
For shield wire replacements, identify the type and size to be used.	4.i.	Proposed shield wire size and type	NA



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4. Transmission Line Reconductor/Rebuild Component

Instructions

Provide the corresponding component number from the "Project Components" tab.

4.a.

Component number

Inputs - 2

4

4.j.

Rebuild portion

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.

NA

4.k.

Right of way

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.

NA

4.l.

Redacted information

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

4e



Project Financial Information

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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-21
	Construction start date (Mo-Yr)	Mar-22
	Commercial operation date (Mo-Yr)	Dec-22

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							
	Total project capex	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

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	
	9b,c,d	