



## 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. <b>Proposing Entity name</b>
Provide the RTEP Proposal Window in which this proposal is being submitted.	1.b. <b>Proposal window</b> 2018/19 RTEP Long-Term Proposal Window
Provide the Proposing Entity project proposal id. Use "A, B, C, ...", etc. to differentiate between proposals.	1.c. <b>Proposal identification</b>
PJM proposal identification	1.d. <b>PJM proposal identification</b> 201819_1-293
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. <b>General project description</b> Construct a 4 position ultimate 115kV ring bus (Meade) at Lincoln Tap Substation. Meade will include four (4) outgoing lines. Two (2) lines will go to Ortania. One (1) line will go to Hunterstown. One (1) line will go to Lincoln.
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> \$ 8,575,478
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> \$ 8,954,983
Project estimated schedule duration in months.	1.k. <b>Project schedule duration</b> 46
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



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<p>If the project provides any known additional benefits above solving the identified violations or constraints, identify those benefits (e.g. reliability, economic, resilience, etc.).</p>	<p><b>1.m.</b> Additional benefits</p>
<p>Confirm that all technical analysis files have been provided for this proposal.</p>	<p><b>1.n.</b> Technical analysis files provided <input checked="" type="checkbox"/></p>
<p>Confirm that all necessary project diagrams have been provided for this proposal.</p>	<p><b>1.o.</b> Project diagram files provided <input checked="" type="checkbox"/></p>
<p>Indicate if company evaluation and operations and maintenance information has been provided for this proposal.</p>	<p><b>1.p.</b> Company evaluation and operations and maintenance information provided <input checked="" type="checkbox"/></p>
<p><b>If the answer to the cross-border question above at 1.g. was yes, complete the questions below.</b></p>	
<p>Indicate if an evaluation for interregional cost allocation is desired.</p>	<p><b>1.q.i.</b> Interregional Cost Allocation Evaluation <input type="text" value="No"/></p>
<p>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.</p>	<p><b>1.q.ii.</b> Evaluated in interregional analysis under PJM Tariff or Operating Agreement provisions <input type="text" value="No"/></p> <p>If 'yes,' specify analysis and applicable Tariff or Operating Agreement provisions</p> <p><input type="text" value="NA"/></p>
<p>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.</p>	<p><b>1.q.iii.</b> Regional and Interregional violations and issues from the Regional and/or Interregional analyses that identified the violations and issues addressed by the proposal.</p> <p><input type="text" value="NA"/></p>









## Major Project Components

3. Major Project Components																						
Instructions																						
<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.	<table border="1"> <thead> <tr> <th style="background-color: #444; color: white;">Component description(s)</th> <th style="background-color: #444; color: white;">Component 1</th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;">Four (4) position Ring bus located near the former Lincoln Tap location</td> </tr> </tbody> </table>	Component description(s)	Component 1		Four (4) position Ring bus located near the former Lincoln Tap location																
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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.b.	<table border="1"> <thead> <tr> <th colspan="2" style="background-color: #444; color: white;">Component cost (current year)</th> </tr> </thead> <tbody> <tr><td style="background-color: #444; color: white;">Engineering and design</td><td></td></tr> <tr><td style="background-color: #444; color: white;">Permitting / routing / siting</td><td></td></tr> <tr><td style="background-color: #444; color: white;">ROW / land acquisition</td><td></td></tr> <tr><td style="background-color: #444; color: white;">Materials and equipment</td><td></td></tr> <tr><td style="background-color: #444; color: white;">Construction and commissioning</td><td></td></tr> <tr><td style="background-color: #444; color: white;">Construction management</td><td></td></tr> <tr><td style="background-color: #444; color: white;">Overheads and miscellaneous costs</td><td></td></tr> <tr><td style="background-color: #444; color: white;">Contingency</td><td></td></tr> <tr> <td style="background-color: #444; color: white;">Total component cost</td> <td style="text-align: right;">\$ 8,575,478</td> </tr> </tbody> </table>	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	\$ 8,575,478
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<p>If this proposal is being submitted as Market Efficiency project, provide an in-service year component project total cost.</p>	3.c.	<table border="1"> <tbody> <tr> <td style="background-color: #444; color: white;">Component cost (in-service year)</td> <td style="text-align: right;">\$ 8,954,983</td> </tr> </tbody> </table>	Component cost (in-service year)	\$ 8,954,983																		
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<p>Identify the entity who will be designated the component.</p>	3.d.	<table border="1"> <tbody> <tr> <td style="background-color: #444; color: white;">Construction responsibility</td> <td></td> </tr> </tbody> </table>	Construction responsibility																			
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## 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.	<b>Component number</b>	1
Provide the name for the proposed substation.	7.b.	<b>Proposed substation name</b>	Meade Substation
Provide the latitude and longitude (in decimal degrees) of the site(s) evaluated for the substation.	7.c.	<b>Evaluated location(s)</b>	Straban Township, PA
			Latitude: 39°52'26.46"N
			Longitude: 77°11'47.32"W
Provide a general description of the substation. Also, provide a single line diagram and general arrangement drawing.	7.d.	<b>Substation description</b>	Construct a 4 position ultimate 115kV ring bus (Grant) at Lincoln Tap Substation. Grant will include four (4) outgoing lines. Two (2) lines will go to Ortania. One (1) line will go to Hunterstown. One (1) line will go to Lincoln.
Describe the major substation equipment and provide the equipment ratings.	7.e.	<b>Substation equipment</b>	<ul style="list-style-type: none"> <li>•(4) 115kV circuit breakers, 40kA, SF6</li> <li>•(8) 115kV bus disconnect switches, 3000A, 120kA, 550kV BIL</li> <li>•(4) 115kV line disconnect switches with motor operator, 2000A, 100kA, 550kV BIL</li> <li>•(4) 115kV line trap, 2000A</li> <li>•(9) 115kV CCVTs with carrier accessories</li> <li>•(3) 115kV PTs</li> <li>•(2) SSVT, 115kV, 100kVA, 1 phase, 1 bushing</li> <li>•(1) Control Building, 25'x 60' and associated equipment</li> </ul>
Describe the required site size, geography and current land use for the proposed site(s).	7.f.	<b>Geography and land use</b>	This land is currently being used as farm land. Terrain in this location is steep, increased grading costs and access road improvement costs are included in the bid. We will need to purchase approximately 5 acres (some of this being for the access road that needs improvements).



# Greenfield Substation Component

## 7. Greenfield Substation Component

### Instructions

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

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

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

### Inputs - 1

7.g.

#### Environmental assessment

At this time we do not believe a formal Federal Environmental Impact Statement will be required for this project. [REDACTED] will review the project site for potential wetlands, threatened and endangered species and habitat, and cultural resource concerns and will work with the appropriate regulatory agencies to avoid, minimize, and mitigate any potential impacts and obtain any permits required for the planned construction activities. [REDACTED] will also review and comply with State and Local regulatory agency requirements regarding sediment and erosion control from the construction activities as well as any storm water design or control requirements for operation of the site after construction. [REDACTED] will review the property for potential floodplain impacts and will work with the appropriate State and Local agencies to minimize any impacts and obtain any required permits. [REDACTED] will review the property to determine if there are any drainage district or levee district assets that may be impacted by the construction of this project. [REDACTED] will consult with the appropriate USACE District office and local authorities to obtain any permits or reviews required for construction.

7.h.

#### Outreach plan

The community and landowner outreach plan will utilize tools and materials across multiple genres of communication means including direct mail, digital media, public and one-on-one landowner meetings, and hotline. By ensuring communication crosses multiple channels, this will provide the necessary information to stakeholders and enables landowners an outlet for feedback and concerns to the project team.

7.i.

#### Land acquisition plan

[REDACTED] has performed an initial review and has identified private parcels that are in very close proximity to the former Lincoln Tap and are suitable to provide the five acre footprint that is required to construct the proposed substation. If selected to construct the proposed project, [REDACTED] will quickly approach the identified landowners to acquire the identified parcels. Reference page 10 of the Company Evaluation Information document for general information regarding [REDACTED] experience in acquiring rights-of-way.

7.j.

#### Redacted information

[REDACTED]



9. Project Financial Information

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.

Project Schedule

9.a.	Capital spend start date (Mo-Yr)	Jan-19
	Construction start date (Mo-Yr)	Apr-22
	Commercial operation date (Mo-Yr)	Jun-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							
	<b>Total project capex</b>	\$ 8,189,741	\$ -	\$ 75,000	\$ 61,546	\$ 2,312,934	\$ 5,740,261	\$ -

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	\$ 385,737			\$ 3,077	\$ 115,647	\$ 267,013	





## Cost Containment Commitment

To be publically posted by PJM

Blue indicates input cells for the Proposing Entity to complete

### 10. Cost Containment Commitment

10.a.

Cost containment commitment description

Provide a description of the cost containment mechanism being proposed.

10.b.

Project scope covered by the cost containment commitment

Indicate what project scope is covered by the proposed cost containment commitment. Identify the components covered by number.

10.b.i.

Cost cap in present year dollars

Provide, in present year dollars and year of occurrence dollars, the Proposing Entity's proposed binding cap on capital expenditures.

Cost cap in in-service year dollars

10.b.ii.

Additional Information on cost cap:

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.iii.

Cost containment capital expenditure exemptions

Indicate which components of capital costs fall under the cost cap.

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

10.c.

Describe any other Cost Containment Measures not covered above:

Describe any other cost containment measures not detailed above.



## Cost Containment Commitment

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### 10. Cost Containment Commitment

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