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	[redacted]
Provide the RTEP Proposal Window in which this proposal is being submitted.	1.b.	Proposal window	2018/19 RTEP Long-Term Window
Provide the Proposing Entity project proposal id. Use "A, B, C, …", etc. to differentiate between proposals.	1.c.	Proposal identification	[redacted]
PJM proposal identification	1.d.	PJM proposal identification	201819_1-021
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.	General project description	Rebuild the Hunterstown-Lincoln 115 kV line to a larger capacity. Create a new Peach Bottom - Graceton 230 kV circuit, with a series reactor at Graceton, by rebuilding the existing Peach Bottom Tap - Cooper - Graceton 230 line to double circuit, leaving the configuration of the existing facility relatively unchanged. Upgrade/Replace the existing Face Rock 115/69 kV transformers and related terminal equipment to achieve higher ratings on those facilities. Add circuit breakers/re-configure the Rice and Ringgold 230 kV stations to allow the presently gang operated 230 kV Rice-Ringgold Facilities to be operated independently.
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)	$46,099,887
Total in-service year project cost estimate including estimates for any required Transmission Owner upgrades.	1.j.	Project cost estimate (in-service year)	$54,740,916

1. Executive Summary

Instructions		Inputs	
Project estimated schedule duration in months.	**1.k.**	**Project schedule duration**	47
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.**	**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.**	**Additional benefits**	Resolves additional congestion on facilities which were masked by the congestion on the identified constraint
Confirm that all technical analysis files have been provided for this proposal.	**1.n.**	**Technical analysis files provided**	☑
Confirm that all necessary project diagrams have been provided for this proposal.	**1.o.**	**Project diagram files provided**	☑
Indicate if company evaluation and operations and maintenance information has been provided for this proposal.	**1.p.**	**Company evaluation and operations and maintenance information provided**	☐

1. Executive Summary

Instructions		Inputs	
		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.**	**Interregional Cost Allocation Evaluation**	*Choose Yes or No*
	1.q.ii.	**Evaluated in interregional analysis under PJM Tariff or Operating Agreement provisions**	*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.		**If 'yes,' specify analysis and applicable Tariff or Operating Agreement provisions**	
	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.			

Overloaded Facilities

2. Overloaded Facilities

Facilities addressed by the proposed project

Instructions: Identify the criteria violation(s) or system constraint(s) that the proposed project solves or mitigates.

2.a.

FG #	Analysis Type	Bus #	Facility Name	To Bus #	To Bus Name	CKT	Voltage	Area

Overloaded Facilities

2. Overloaded Facilities

Facilities not addressed/caused by the proposed project

Instructions: **Identify the criteria violation(s) or system constraint(s) that the proposed project causes or does not address.**

2.b.

Unique Proposer Generated ID	Analysis Type	Bus #	Facility Name	To Bus #	To Bus Name	CKT	Voltage	Area

Overloaded Facilities

2. Overloaded Facilities

Market Efficiency flowgate(s) addressed by the proposed project

Instructions: **Identify the Market Efficiency flowgate(s) the proposed project mitigates.**

2.c.

FG#	Facility Name	Area	Type	Frequency (Hours)	Market Congestion ($ millions)	Frequency (Hours)	Market Congestion ($ millions)
ME-1	Hunterstown to Lincoln 115 kV	METED	Line	1720	20.77	1832	29.62

3. Major Project Components

Instructions

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).

		Component 1	Component 2	Component 3
3.a.	Component description(s)	Re-build the existing Hunterstown - Lincoln 115 kV line, and any related terminal equipment to achieve ratings of at least 190 MVA Summer Normal and 260 MVA Summer Emergency	At Peach Bottom 230 kV, add a new 4000 Amp breaker and line termination position for a new line to Graceton. Also add a 2000 Amp breaker on the line termination for the Muddy Run 230 kV generator lead.	At Graceton 230 kV, add a new 4000 Amp breaker and a half string with 2 breakers to accommodate the new line termination from Peach Bottom. Also install a new 4000 Amp, ~3% impedance (16 Ohm), 230 kV series reactor for that line.
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	$ 5,200,000.00	$ 1,974,103.00	$ 4,088,382.00
3.c.	Component cost (in-service year)	$ 5,852,645.81	$ 2,221,870.32	$ 4,601,509.96
3.d.	Construction responsibility	[redacted]	[redacted]	[redacted]

Provide a component project cost breakdown into the identified categories along with a total component cost. Costs should be in current year dollars.

If this proposal is being submitted as Market Efficiency project, provide an in-service year component project

Identify the entity who will be designated the component.

3. Major Project Components

Instructions

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).

		Component 4	Component 5	Component 6
3.a.	Component description(s)	Rebuild the existing ~7.5 mile 230 kV line between Peach Bottom Tap and Graceton (via Cooper) to double circuit standards similar to those used for BGE's Graceton - Bagley 230 kV line. Install a new circuit from Peach Bottom 230 kV to Graceton with 2 bundle 1590 ACSR. The existing Peach Bottom Tap - Cooper - Graceton facility will be largely unchanged other than being on new towers.	At Face Rock 115/69, Upgrade/Replace the 115/69 kV Transformers and any associated equipment to achieve a combined total rating comparable to the expected ratings of the upgraded 115 kV line to Five Forks (210 SN/261 SE)	ITEM DELETED IN REV 1.0
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	$ 26,250,000.00	$ 3,517,890.00	$ -
3.c.	Component cost (in-service year)	$ 29,544,606.26	$ 3,959,416.19	$ -
3.d.	Construction responsibility	[redacted]	[redacted]	[redacted]

Provide a component project cost breakdown into the identified categories along with a total component cost. Costs should be in current year dollars.

If this proposal is being submitted as Market Efficiency project, provide an in-service year component project

Identify the entity who will be designated the component.

3. Major Project Components

Instructions

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).

		Component 7	Component 8	Component 9
3.a.	Component description(s)	At Rice 500/230 kV, add a new 4000 A 500 kV breaker and reconfigure the planned layout to allow the planned transformers to operate independently. Add a new 4000 A 230 kV breaker to allow the planned Rice - Ringgold 230 kV lines to operate independently.	At Ringgold 230 kV, add a new 4000 A double breaker/double bus string to the planned rebuild of the station to allow the Rice - Ringgold 230 kV lines to operate independently.	
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	$ 2,904,439.00	$ 2,165,073.00	$ -
3.c.	Component cost (in-service year)	$ 3,268,971.68	$ 2,436,808.74	
3.d.	Construction responsibility	[redacted]	[redacted]	

Provide a component project cost breakdown into the identified categories along with a total component cost. Costs should be in current year dollars.

If this proposal is being submitted as Market Efficiency project, provide an in-service year component project

Identify the entity who will be designated the component.

Reconductor/Rebuild Transmission Line Component

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	1
Identify the line terminal points. Add additional spaces if required.	4.b.	Terminal points	Hunterstown 115
			Lincoln 115
		Existing Line Physical Characteristics	
Provide the size and type conductor that will be removed.	4.c.	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.	Existing hardware plan	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.e.	Existing tower line characteristics	unknown
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	Hilly

Reconductor/Rebuild Transmission Line Component

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	1
		Reconductor/Rebuild Component Plan	
Provide the target ratings for the line.	4.g.	Component target ratings	at least 190 MVA Summer Normal and 260 MVA Summer Emergency
Provide the type and size of the conductor to be installed.	4.h.	Proposed conductor size and type	perhaps 795 ACSR
If the shield wire is to be replaced, identify the type and size to be used.	4.i.	Proposed shield wire size and type	unknown
Describe the amount of the line that is anticipated to be rebuilt versus reconductored. 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	assume all rebuilt
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	assume existing right of way is fine
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

5. Substation Upgrade Component

Instructions		Inputs-1	
Provide the corresponding component number from the "Project Components" tab of the proposal template.	**5.a.**	**Component number**	2
Identify the name of the existing substation where the upgrade will take place.	**5.b.**	**Substation**	Peach Bottom 230 kV
Describe the scope of the upgrade work at the identified substation.	**5.c.**	**Substation upgrade scope**	Add a new 4000 Amp breaker and line termination position for a new line to Graceton. Also add a 2000 Amp breaker on the line termination for the Muddy Run 230 kV generator lead.
Describe any new substation equipment and provide the equipment ratings.	**5.d.**	**New equipment description**	Add a new 4000 Amp breaker and line termination position for a new line to Graceton. Also add a 2000 Amp breaker on the line termination for the Muddy Run 230 kV generator lead.
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**	Assume the station can be expanded as necessary given PECO/BGE proprosals 1-6L, 1-7H, 1-7I, 1-7J from the 2016/2017 Long Term Window.
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.	**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**	
Describe any files or information that has been redacted from this section and provide the basis for the redaction.	**5.h.**	**Redacted information**	

5. Substation Upgrade Component

Instructions		Inputs-1	
Provide the corresponding component number from the "Project Components" tab of the proposal template.	5.a.	Component number	3
Identify the name of the existing substation where the upgrade will take place.	5.b.	Substation	Graceton 230 kV
Describe the scope of the upgrade work at the identified substation.	5.c.	Substation upgrade scope	Add a new 4000 Amp breaker and a half string with 2 breakers to accommodate the new line termination from Peach Bottom. Also install a new 4000 Amp, ~3% impedance (16 Ohm), 230 kV series reactor for that line.
Describe any new substation equipment and provide the equipment ratings.	5.d.	New equipment description	add a new 4000 Amp breaker and a half string with 2 breakers to accommodate the new line termination from Peach Bottom. Also install a new 4000 Amp, ~3% impedance (16 Ohm), 230 kV series reactor for that line.
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	Substation appears to have ample space to add these facilities
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.	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	
Describe any files or information that has been redacted from this section and provide the basis for the redaction.	5.h.	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.	Component number	4
Identify the line terminal points. Add additional spaces if required.	4.b.	Terminal points	Peach Bottom Tap 230 kV Cooper 230 kV Graceton 230 kV Peach Bottom 230 kV
		Existing Line Physical Characteristics	
Provide the size and type conductor that will be removed.	4.c.	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.	Existing hardware plan	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.e.	Existing tower line characteristics	unknown
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	Hilly

Reconductor/Rebuild Transmission Line Component

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.	Component number	4
		Reconductor/Rebuild Component Plan	
Provide the target ratings for the line.	4.g.	Component target ratings	For existing line, at least what is there today For new circuit, 1331 MVA Summer Normal and 1594 MVA Summer Emergency similar to the BGE Graceton-Bagley 230 kV line
Provide the type and size of the conductor to be installed.	4.h.	Proposed conductor size and type	For existing line, at least what is there today For new circuit 2 bundle 1590 ACSR similar to the BGE Graceton-Bagley 230 kV line
If the shield wire is to be replaced, identify the type and size to be used.	4.i.	Proposed shield wire size and type	unknown
Describe the amount of the line that is anticipated to be rebuilt versus reconductored. 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	assume all rebuilt
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	assume existing right of way is fine
Describe any files or information that has been redacted from this section and provide the basis for the redaction.	4.l.	Redacted information	

5. Substation Upgrade Component

Instructions		Inputs-3	
Provide the corresponding component number from the "Project Components" tab of the proposal template.	5.a.	Component number	5
Identify the name of the existing substation where the upgrade will take place.	5.b.	Substation	Face Rock 115/69 kV
Describe the scope of the upgrade work at the identified substation.	5.c.	Substation upgrade scope	Upgrade/Replace the 115/69 kV Transformers and any associated equipment to achieve a combined total rating comparable to the expected ratings of the upgraded 115 kV line to Five Forks (210 SN/261 SE)
Describe any new substation equipment and provide the equipment ratings.	5.d.	New equipment description	Upgrade/Replace the 115/69 kV Transformers and any associated equipment to achieve a combined total rating comparable to the expected ratings of the upgraded 115 kV line to Five Forks (210 SN/261 SE)
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	Replace existing equipment in in same locations
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.	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	
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

5. Substation Upgrade Component

Instructions		Inputs-4	
Provide the corresponding component number from the "Project Components" tab of the proposal template.	**5.a.**	**Component number**	6
Identify the name of the existing substation where the upgrade will take place.	**5.b.**	**Substation**	DELETED IN REV 1
Describe the scope of the upgrade work at the identified substation.	**5.c.**	**Substation upgrade scope**	
Describe any new substation equipment and provide the equipment ratings.	**5.d.**	**New equipment description**	
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**	
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.	**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**	
Describe any files or information that has been redacted from this section and provide the basis for the redaction.	**5.h.**	**Redacted information**	

5. Substation Upgrade Component

Instructions		Inputs-5	
Provide the corresponding component number from the "Project Components" tab of the proposal template.	**5.a.**	**Component number**	7
Identify the name of the existing substation where the upgrade will take place.	**5.b.**	**Substation**	Rice 230 kV
Describe the scope of the upgrade work at the identified substation.	**5.c.**	**Substation upgrade scope**	Add a new 4000 A 500 kV breaker and reconfigure the planned layout to allow the planned transformers to operate independantly. Add a new 4000 A 230 kV breaker to allow the planned Rice - Ringgold 230 kV lines to operate independantly.
Describe any new substation equipment and provide the equipment ratings.	**5.d.**	**New equipment description**	Add a new 4000 A 500 kV breaker and reconfigure the planned layout to allow the planned transformers to operate independantly. Add a new 4000 A 230 kV breaker to allow the planned Rice - Ringgold 230 kV lines to operate independantly.
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**	
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.	**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**	
Describe any files or information that has been redacted from this section and provide the basis for the redaction.	**5.h.**	**Redacted information**	

5. Substation Upgrade Component

Instructions		Inputs-6	
Provide the corresponding component number from the "Project Components" tab of the proposal template.	5.a.	Component number	8
Identify the name of the existing substation where the upgrade will take place.	5.b.	Substation	Ringgold 230 kV
Describe the scope of the upgrade work at the identified substation.	5.c.	Substation upgrade scope	Add a new 4000 A double breaker/double bus string to the planned rebuild of the station to allow the Rice - Ringgold 230 kV lines to operate independantly.
Describe any new substation equipment and provide the equipment ratings.	5.d.	New equipment description	add a new 4000 A double breaker/double bus string to the planned rebuild of the station to allow the Rice - Ringgold 230 kV lines to operate independantly.
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	
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.	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	
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

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-20
Construction start date (Mo-Yr)	Jan-22
Commercial operation date (Mo-Yr)	Dec-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	2020	2021	2022	2023	2024	2025
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	$ 46,099,887.00	$ 2,304,994.35	$ 2,304,994.35	$ 17,056,958.19	$ 24,432,940.11		

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

9.c.

	Total	2020	2021	2022	2023	2024	2025
AFUDC	$ 3,783,315.39	$ 70,749.65	$ 240,882.84	$ 945,956.15	$ 2,525,726.75		

9. Project Financial Information

Instructions		Inputs
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	**9.d.**	**Assumptions for the capital expenditure estimate** Work to be performed by incumbents
Describe any files or information that has been redacted from this section and provide the basis for the redaction.	**9.e.**	**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**: **No Cost Containment**
Indicate what project scope is covered by the proposed cost containment commitment. Identify the components covered by number.	10.b.	**Project scope covered by the cost containment commitment**
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** **Cost cap in in-service year dollars**
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:**
Indicate which components of capital costs fall under the cost cap.	10.b.iii.	**Cost containment capital expenditure exemptions**

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. 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**