



## Executive Summary

1. Executive Summary			
Instructions		Inputs	
Provide the name of the Proposing Entity. If there are multiple entities, please identify each party.	1.a.	Proposing Entity name	
Provide the RTEP Proposal Window in which this proposal is being submitted.	1.b.	Proposal window	2018/19 RTEP Long-Term Proposal Window
Provide the Proposing Entity project proposal id. Use "A, B, C, ...", etc. to differentiate between proposals.	1.c.	Proposal identification	
PJM proposal identification	1.d.	PJM proposal identification	201819_1-481
Provide a general description of the scope of this project (e.g. Project is a new line between X and Y substations utilizing AAA structures. A new bay will be created within the existing substation X footprint. Substation Y will be reconfigured to a breaker and a half with accommodations for the new line.)	1.e.	General project description	Reconductor Michigan City to Trail Creek to Bosserman 138 kV (6.7 mile and 4.0 mile) circuits. Reconductor Maple – LNG 138 kV (7.8 mile) circuit.
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	Yes
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)	\$ 12,800,000
Total in-service year project cost estimate including estimates for any required Transmission Owner upgrades.	1.j.	Project cost estimate (in-service year)	\$14,100,000



## Executive Summary

### 1. Executive Summary

#### Instructions

#### Inputs

Project estimated schedule duration in months.

1.k.

Project schedule duration

30 months

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

1.m.

Additional benefits

If the project provides any known additional benefits above solving the identified violations or constraints, identify those benefits (e.g. reliability, economic, resilience, etc.).

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





# Executive Summary

## 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

Yes

1.q.ii.

Evaluated in interregional analysis under PJM Tariff or Operating Agreement provisions

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.

Bosserman (AEP)-Trail Creek (NIPS) 138 kV line congestion









## Major Project Components

3. Major Project Components				
Instructions		Component 1	Component 2	Component 3
<p>3.a.</p> <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>	<b>Component description(s)</b>	Reconductor Bosserman - Trail Creek 138 kV line	Michigan City Substation Upgrades	Trail Creek Substation Upgrades
	<p>3.b.</p> <p>Provide a component project cost breakdown into the identified categories along with a total component cost. Costs should be in current year dollars.</p>	<b>Component cost (current year)</b>		
	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>	2,526,480	114,840	574,200
<p>3.c.</p> <p>If this proposal is being submitted as Market Efficiency project, provide an in-service year component project</p>	<b>Component cost (in-service year)</b>	2,788,761	126,762	633,809
<p>3.d.</p> <p>Identify the entity who will be designated the component.</p>	<b>Construction responsibility</b>	NIPSCO	NIPSCO	NIPSCO



## Major Project Components

3. Major Project Components					
Instructions					
		Component 4	Component 5	Component 6	
<p>Provide a description for each major project component. Each project component will require the completion of the tab corresponding to the category of the component ("Greenfield Substation Component" tab for any proposed new substation, for example).</p>	3.a.	Component description(s)	Reconductor Michigan City - Trail Creek 138 kV line	Reconductor Maple-LNG	Maple Substation Upgrades
	<p>Provide a component project cost breakdown into the identified categories along with a total component cost. Costs should be in current year dollars.</p>	3.b.	Component cost (current year)		
Engineering and design					
Permitting / routing / siting					
ROW / land acquisition					
Materials and equipment					
Construction and commissioning					
Construction management					
Overheads and miscellaneous costs					
Contingency					
		Total component cost	4,338,400	4,976,400	114,840
<p>If this proposal is being submitted as Market Efficiency project, provide an in-service year component project</p>	3.c.	Component cost (in-service year)	4,788,782	5,493,014	126,762
<p>Identify the entity who will be designated the component.</p>	3.d.	Construction responsibility	NIPSCO	NIPSCO	NIPSCO



**Major Project Components**

3. Major Project Components					
Instructions		Component 7	Component 8	Component 9	
<p>Provide a description for each major project component. Each project component will require the completion of the tab corresponding to the category of the component ("Greenfield Substation Component" tab for any proposed new substation, for example).</p>	3.a.	Component description(s)	LNG Substation Upgrades		
	<p>Provide a component project cost breakdown into the identified categories along with a total component cost. Costs should be in current year dollars.</p>	3.b.	Component cost (current year)		
Engineering and design					
Permitting / routing / siting					
ROW / land acquisition					
Materials and equipment					
Construction and commissioning					
Construction management					
Overheads and miscellaneous costs					
Contingency					
		Total component cost	114,840	\$ -	\$ -
<p>If this proposal is being submitted as Market Efficiency project, provide an in-service year component project</p>	3.c.	Component cost (in-service year)	126,762		
<p>Identify the entity who will be designated the component.</p>	3.d.	Construction responsibility	NIPSCO		



**4. Transmission Line Reconductor/Rebuild Component**

**Instructions**

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

Identify the line terminal points. Add additional spaces if required.

Provide the size and type conductor that will be removed.

Indicate whether the existing line hardware will be reused. If so, provide the age and condition of the hardware.

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.

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.

**Inputs - 1**

<b>4.a.</b>	<b>Component number</b>	1
<b>4.b.</b>	<b>Terminal points</b>	Bosserman Trail Creek

**Existing Line Physical Characteristics**

<b>4.c.</b>	<b>Existing conductor size and type</b>	397 ACSR
<b>4.d.</b>	<b>Existing hardware plan</b>	Reconductor 4.0 miles
<b>4.e.</b>	<b>Existing tower line characteristics</b>	Double circuit steel lattice
<b>4.f.</b>	<b>Terrain description</b>	Half the line is in a relatively urban area near a national park. The other half is more rural with wetlands.



4. Transmission Line Reconductor/Rebuild Component

Instructions

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

Provide the target ratings for the line.

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

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

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

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

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

Inputs - 1

4.a. Component number 1

Reconductor/Rebuild Component Plan

4.g. Component target ratings at least 2000 Amps

4.h. Proposed conductor size and type 1590 ACSR

4.i. Proposed shield wire size and type OPGW

4.j. Rebuild portion

4.k. Right of way Use existing ROW

4.l. Redacted information Existing structures are 80 years old and will be rebuilt as part of a different NIPSCO project. This project has not been made public yet.



## Substation Upgrade Component

### 5. Substation Upgrade Component

Instructions	Inputs-1		
Provide the corresponding component number from the "Project Components" tab of the proposal template.	<table border="1"> <tr> <td data-bbox="1482 445 2147 546">5.a. Component number</td> <td data-bbox="2147 445 2980 546">2</td> </tr> </table>	5.a. Component number	2
5.a. Component number	2		
Identify the name of the existing substation where the upgrade will take place.	<table border="1"> <tr> <td data-bbox="1482 546 2147 647">5.b. Substation</td> <td data-bbox="2147 546 2980 647">Michigan City</td> </tr> </table>	5.b. Substation	Michigan City
5.b. Substation	Michigan City		
Describe the scope of the upgrade work at the identified substation.	<table border="1"> <tr> <td data-bbox="1482 647 2147 828">5.c. Substation upgrade scope</td> <td data-bbox="2147 647 2980 828">Upgrade Michigan City to Trail Creek terminal at Michigan City to 2000 Amps capable</td> </tr> </table>	5.c. Substation upgrade scope	Upgrade Michigan City to Trail Creek terminal at Michigan City to 2000 Amps capable
5.c. Substation upgrade scope	Upgrade Michigan City to Trail Creek terminal at Michigan City to 2000 Amps capable		
Describe any new substation equipment and provide the equipment ratings.	<table border="1"> <tr> <td data-bbox="1482 828 2147 1030">5.d. New equipment description</td> <td data-bbox="2147 828 2980 1030">Replace drops and leads with 1590 ACSR</td> </tr> </table>	5.d. New equipment description	Replace drops and leads with 1590 ACSR
5.d. New equipment description	Replace drops and leads with 1590 ACSR		
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="1482 1030 2147 1251">5.e. Substation assumptions</td> <td data-bbox="2147 1030 2980 1251"></td> </tr> </table>	5.e. Substation assumptions	
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.	<table border="1"> <tr> <td data-bbox="1482 1251 2147 1413">5.f. Substation drawings</td> <td data-bbox="2147 1251 2980 1413"></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="1482 1413 2147 1614">5.g. Real-estate plan</td> <td data-bbox="2147 1413 2980 1614"></td> </tr> </table>	5.g. Real-estate plan	
5.g. Real-estate plan			
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="1482 1614 2147 1838">5.h. Redacted information</td> <td data-bbox="2147 1614 2980 1838">Straight bus will be converted to double bus double breaker as part of a different NIPSCO project. This project has not been made public yet.</td> </tr> </table>	5.h. Redacted information	Straight bus will be converted to double bus double breaker as part of a different NIPSCO project. This project has not been made public yet.
5.h. Redacted information	Straight bus will be converted to double bus double breaker as part of a different NIPSCO project. This project has not been made public yet.		



## Substation Upgrade Component

### 5. Substation Upgrade Component

Instructions	Inputs-2	
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	Trail Creek
Describe the scope of the upgrade work at the identified substation.	5.c. Substation upgrade scope	Upgrade Michigan City to Trail Creek terminal at Trail Creek to 2000 Amps capable Upgrade Trail Creek to Bosserman terminal at Trail Creek to 2000 Amps capable
Describe any new substation equipment and provide the equipment ratings.	5.d. New equipment description	Replace drops and leads with 1590 ACSR
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	Retain straight bus configuration
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

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

Identify the line terminal points. Add additional spaces if required.

Provide the size and type conductor that will be removed.

Indicate whether the existing line hardware will be reused. If so, provide the age and condition of the hardware.

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.

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.

Inputs - 2

4.a. Component number 4

4.b. Terminal points Michigan City Trail Creek

Existing Line Physical Characteristics

4.c. Existing conductor size and type 397 ACSR

4.d. Existing hardware plan Reconductor 6.7 miles

4.e. Existing tower line characteristics Double circuit steel lattice

4.f. Terrain description Relatively urban near national park.



**4. Transmission Line Reconductor/Rebuild Component**

Instructions	Inputs - 2
Provide the corresponding component number from the "Project Components" tab of the proposal template.	<p><b>4.a.</b> <b>Component number</b> <input type="text" value="4"/></p>
	<p><b>Reconductor/Rebuild Component Plan</b></p>
Provide the target ratings for the line.	<p><b>4.g.</b> <b>Component target ratings</b> <input type="text" value="at least 2000 Amps"/></p>
Provide the type and size of the conductor to be installed.	<p><b>4.h.</b> <b>Proposed conductor size and type</b> <input type="text" value="1590 ACSR"/></p>
If the shield wire is to be replaced, identify the type and size to be used.	<p><b>4.i.</b> <b>Proposed shield wire size and type</b> <input type="text" value="OPGW"/></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><b>4.j.</b> <b>Rebuild portion</b> <input type="text"/></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><b>4.k.</b> <b>Right of way</b> <input type="text" value="Use existing NIPSCO ROW"/></p>
Describe any files or information that has been redacted from this section and provide the basis for the redaction.	<p><b>4.l.</b> <b>Redacted information</b> <input type="text" value="Existing structures are 80 years old and will be rebuilt as part of a different NIPSCO project. This project has not been made public yet."/></p>



**4. Transmission Line Reconductor/Rebuild Component**

**Instructions**

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

Identify the line terminal points. Add additional spaces if required.

Provide the size and type conductor that will be removed.

Indicate whether the existing line hardware will be reused. If so, provide the age and condition of the hardware.

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.

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.

**Inputs - 3**

**4.a. Component number** 5

**4.b. Terminal points** Maple  
LNG

**Existing Line Physical Characteristics**

**4.c. Existing conductor size and type** 336 ACSR

**4.d. Existing hardware plan**  
Reconductor 7.8 miles

**4.e. Existing tower line characteristics**  
Double circuit steel lattice

**4.f. Terrain description**  
Rural/wetlands



4. Transmission Line Reconductor/Rebuild Component

Instructions

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

Provide the target ratings for the line.

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

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

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

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

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

Inputs - 3

4.a. Component number 5

Reconductor/Rebuild Component Plan

4.g. Component target ratings at least 2000 Amps

4.h. Proposed conductor size and type 1590 ACSR

4.i. Proposed shield wire size and type OPGW

4.j. Rebuild portion

4.k. Right of way Reuse existing.

4.l. Redacted information Existing structures are 80 years old and will be rebuilt as part of a different NIPSCO project. This project has not been made public yet.



## Substation Upgrade Component

### 5. Substation Upgrade Component

Instructions	Inputs-3		
Provide the corresponding component number from the "Project Components" tab of the proposal template.	<table border="1"> <tr> <td data-bbox="1485 445 2147 546">5.a. Component number</td> <td data-bbox="2147 445 3014 546">6</td> </tr> </table>	5.a. Component number	6
5.a. Component number	6		
Identify the name of the existing substation where the upgrade will take place.	<table border="1"> <tr> <td data-bbox="1485 546 2147 647">5.b. Substation</td> <td data-bbox="2147 546 3014 647">Maple</td> </tr> </table>	5.b. Substation	Maple
5.b. Substation	Maple		
Describe the scope of the upgrade work at the identified substation.	<table border="1"> <tr> <td data-bbox="1485 647 2147 828">5.c. Substation upgrade scope</td> <td data-bbox="2147 647 3014 828">Upgrade Maple terminal to 2000 Amps capable</td> </tr> </table>	5.c. Substation upgrade scope	Upgrade Maple terminal to 2000 Amps capable
5.c. Substation upgrade scope	Upgrade Maple terminal to 2000 Amps capable		
Describe any new substation equipment and provide the equipment ratings.	<table border="1"> <tr> <td data-bbox="1485 828 2147 1030">5.d. New equipment description</td> <td data-bbox="2147 828 3014 1030">Replace drops and leads with 1590 ACSR</td> </tr> </table>	5.d. New equipment description	Replace drops and leads with 1590 ACSR
5.d. New equipment description	Replace drops and leads with 1590 ACSR		
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="1485 1030 2147 1251">5.e. Substation assumptions</td> <td data-bbox="2147 1030 3014 1251">Retain Straight Bus</td> </tr> </table>	5.e. Substation assumptions	Retain Straight Bus
5.e. Substation assumptions	Retain Straight Bus		
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.	<table border="1"> <tr> <td data-bbox="1485 1251 2147 1413">5.f. Substation drawings</td> <td data-bbox="2147 1251 3014 1413"></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="1485 1413 2147 1614">5.g. Real-estate plan</td> <td data-bbox="2147 1413 3014 1614"></td> </tr> </table>	5.g. Real-estate plan	
5.g. Real-estate plan			
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="1485 1614 2147 1840">5.h. Redacted information</td> <td data-bbox="2147 1614 3014 1840"></td> </tr> </table>	5.h. Redacted information	
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	7
Identify the name of the existing substation where the upgrade will take place.	5.b. Substation	LNG
Describe the scope of the upgrade work at the identified substation.	5.c. Substation upgrade scope	Upgrade LNG terminal to 2000 Amps capable
Describe any new substation equipment and provide the equipment ratings.	5.d. New equipment description	Replace drops and leads with 1590 ACSR
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	Retain Straight Bus
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	

**9. Project Financial Information**

Instructions	Inputs
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**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.

<b>9.a.</b>	<b>Capital spend start date (Mo-Yr)</b>	Jan-19
	<b>Construction start date (Mo-Yr)</b>	Jan-20
	<b>Commercial operation date (Mo-Yr)</b>	Jan-23

**Project Capital Expenditures**

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

<b>9.b.</b>	<b>Capital expenditure details</b>	<b>Total</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>
	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>	\$ 12,760,000.00		\$ 1,754,500.00	\$ 8,932,000.00	\$ 2,073,500.00		

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

<b>9.c.</b>	<b>Total</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>
	<b>AFUDC</b>	\$ 660,000.00		\$ 90,750.00	\$ 462,000.00	\$ 107,250.00	

**9. Project Financial Information**

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

**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**



## Cost Containment Commitment

### 10. Cost Containment Commitment

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



## Cost Containment Commitment

### 10. Cost Containment Commitment

#### Instructions

#### Inputs

Describe any other cost containment measures not detailed above.

10.c.

Describe any other Cost Containment Measures not covered above:

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

10.d.

Cost Commitment Legal Language

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

10.e.

Actuals Exceed Commitment

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

10.f.

Redacted information