

Executive Summary

Instructions		Inp	outs
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	2018/2019 Long
Provide the Proposing Entity project proposal id. Use "A, B, C, …", etc. to differentiate netween proposals.	1.c.	Proposal identification	
² JM proposal identification	1.d.	PJM proposal identification	
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 Install a new 115 kV 4-breaker ring bus at the Orrta Orrtanna – Lincoln 115 kV 963 line. Tap the TMIS – Furnace Run 500 kV line near the new Otter Creek 500/230 kV 3-breaker double-bus one 500 kV bay for one additional future 500 kV br Creek 230 kV Station with a new 500/230 kV Otter of 900/1250 MVA and a 0.65 mile 230 kV lead line A. Add two new 230 kV breakers to the existing Ot Replace Face Rock 115/69 kV T1 and T2 transforr SN/SE and 125/155 MVA WN/WE. Perform additio from the 69 kV bay the transformers terminate into Reconduct / rebuild 1.3 miles of Manor – Graceton accommodate 1590 ACSR conductor.	anna tap point of the existing PPL Otter double-breaker de eaker. Connect the Creek transformer with normal/emerg ter Creek 230 kV s mers with larger un onal work to remove at Face Rock. 230 kV line (section

Long Term Market Efficiency Window
201819_1-647

t of the METED Hunterstown –

Otter Creek Station and construct a ker design Substation. Leave space in act the new station to the existing Otter prmer with normal/emergency ratings emergency capacity of 2260 A / 3138 kV substation.

er units each capable of 110/135 MVA emove limiting substation components <.

section presently at 795 ACSR) to



Instructions		In	puts
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)	\$
Total in-service year project cost estimate including estimates for any required Transmission Owner upgrades.	1.j.	Project cost estimate (in-service year)	\$
Project estimated schedule duration in months.	1.k.	Project schedule duration	
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.I.	Cost containment commitment	No
	1.m.	Additional benefits	
		Reduced fault exposure on both source lines to O Hunterstown to Lincoln.	rrtanna. Reduced
If the project provides any known additional benefits above solving the identified violations or constraints, identify those benefits (e.g. reliability, economic, resilience, etc.).		Maintain / upkeep FARO-FIFO which is a tie line tensuring local area generator stability.	between two PJM
		Addresses residual congestion in Management Manor-Graceton 230 kV line, and the Furnace Ru	on the Face Rock n - Conastone 230

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55,124,612.44
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ced fault exposure on main line from
JM TOs. This line also plays a role in
Rock - Five Forks 115 kV line, the 230 kV line.



Executive Summary

1. Execu	Itive Summary		
	Instructions		Inputs
	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
			If the answer to the cross-border question above at 1.g. w
	Indicate if an evaluation for interregional cost allocation is desired.	1.q.i.	Interregional Cost Allocation Evaluation Choose
		1.q.ii.	Evaluated in interregional analysis under PJM 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.		If 'yes,' specify analysis and applicable Tariff or Operating Agreement provisions
	List the specific regional and interregional violations and issues from the regional and/or	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.
	interregional analyses that identified the violations and issues addressed by the proposal.		

as yes, complete the questions



res or No







2.a.

Overloaded Facilities

2. Overloaded Facilities

Facilities addr	essed by the proposed	d project						
Instructions:	Identify the criteria vi	iolation(s) or sy	vstem constraint(s) that the proposed proje	ect solves or mit	igates.			
FG #	Analysis Type	From Bus #	Facility Name	To Bus #	To Bus Name	СКТ	Voltage	ļ





2.b.

Overloaded Facilities

2. Overloaded Facilities

Unique Proposer Generated ID Analysis Type Bus # Facility Name To Bus # O Bus Name CKT Voltage Image Im	ysis pe Bus # Facility Name To Bus # To Bus Name CKT Voltage Area Image: Image	Voltage	СКТ						
Image: series of the series	Image:			To Bus Name	To Bus #	Facility Name	Bus #	Analysis Type	Unique Proposer Generated ID
Image: series of the series									
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2.c.

Overloaded Facilities

2. Overloaded Facilities

Identify the Market Efficiency flowgate(s) the proposed project mitigates. 2023 Fequency (Hours) 2023 Con (Hours) FG# Facility Name Area Type $\frac{2023}{Frequency}$ (Hours) $\frac{2023}{Con}$ (S m Hunterstown to Lincoln 115 kV METED Transmission Line Conductor - Internal Flowgate 1720 Image: Strange Stran	Market 2026 gestion Frequency	2026 Market
FG# Facility Name Area Type 2023 Frequency (Hours) 2023 Con (Hours) AE-1 Hunterstown to Lincoln 115 kV METED Transmission Line Conductor- Internal Flowgate 1720 AE-1 Hunterstown to Lincoln 115 kV METED Internal Flowgate 1720 AE-1 Internal Flowgate 1720 Internal Flowgate 1720 Image: Amount of Lincoln 115 kV Image: Amount of Lincoln 115 kV Image: Amount of Lincoln 115 kV Image: Amount of Lincoln 115 kV Image: Amount of Lincoln 115 kV Image: Amount of Lincoln 115 kV Image: Amount of Lincoln 115 kV Image: Amount of Lincoln 115 kV Image: Amount of Lincoln 115 kV Image: Amount of Lincoln 115 kV Image: Amount of Lincoln 115 kV Image: Amount of Lincoln 115 kV Image: Amount of Lincoln 115 kV Image: Amount of Lincoln 115 kV Image: Amount of Lincoln 115 kV Image: Amount of Lincoln 115 kV Image: Amount of Lincoln 115 kV Image: Amount of Lincoln 115 kV Image: Amount of Lincoln 115 kV Image: Amount of Lincoln 115 kV Image: Amount of Lincoln 115 kV Image: Amount of Lincoln 115 kV Image: Amount of Lincoln 115 kV Image: Amoun	Market 2026 gestion Frequency	2026 Market
ME-1Hunterstown to Lincoln 115 kVMETEDTransmission Line Conductor - Internal Flowgate1720ME-1METEDInternal Flowgate17201720ME-1METEDInternal Flowgate17201720ME-1ME-1ME-1ME-117	nillions) (Hours)	Congestion (\$ millions)
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Instructions			Component 1	Component
	2 -	Component description(s)	Orrtanna Tan 115 kV 4-Breaker Ring Rus	Tan Hunterstown - Ling
	J.a.	Component description(s)	Switchvard	Tap into existing Hunter
			Install a new 115 kV ring bus at the	kV 963 line at the locatio
			Orrtanna tap point of the METED	prior to METED's supple
Provide a description for each major project			Hunterstown – Orrtanna – Lincoln 115	provides two sources to
component. Each project component will require the			kV 963 line. Add four 115 kV 2000 A	Hunterstown and Lincol
completion of the tab corresponding to the category of			breakers and eight 2000 A MODs.	ring bus with two breake
the component ("Greenfield Substation Component" tab)		Protection upgrades and/or adjustments	between them.
for any proposed new substation, for example).			as necessary.	PPL to continue tap fror
				by METED in METED RO
				switchyard.
	3.b.	Component cost (current year)		
		Engineering and design		
		Permitting / routing / siting		
		ROW / land acquisition		
Provide a component project cost breakdown into the		Materials and equipment		
identified categories along with a total component cost.		Construction and commissioning		
Costs should be in current year dollars.		Construction management		
		Overheads and miscellaneous costs		
		Contingency		
		Total component cost	\$ 5,970,380.09	\$
If this proposal is being submitted as Markot Efficiency				
project, provide an in-service year component project	3.c.	Component cost (in-service year)	\$ 6,431,794.97	\$
Identify the entity who will be designated the				
component.	3.d.	Construction responsibility		





Instructions			Component 2	
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).	3.a.	Component description(s)	Tap Hunterstown - Lincoln 115 kV (963) line Tap into existing Hunterstown - Lincoln 115 kV 963 line at the location of the original tap prior to METED's supplemental project that provides two sources to Orrtanna. Bring the Hunterstown and Lincoln lines into the new ring bus with two breakers separation between them.	New Otter Cree Tap the TMIS – Station and cor double-breaker 4000 A MODs, a space in one 50 new station to 50 Otter Creek tra Component 5 (a 2260 A / 3138 A
	3.b.	Component cost (current year)		
		Engineering and design		
		Permitting / routing / siting		
		ROW / land acquisition		
Provide a component project cost breakdown into the		Materials and equipment		
identified categories along with a total component cost.		Construction and commissioning		
Costs should be in current year dollars.		Construction management		
		Overheads and miscellaneous costs		
		Contingency		
		Total component cost	\$ 375,277.73	\$
If this proposal is being submitted as Market Efficiency project, provide an in-service year component project	3.c.	Component cost (in-service year)	\$ 404,280.70	\$
identify the entity who will be designated the component.	3.d.	Construction responsibility		

Component 3

ek 500/230 kV Substation

- Furnace Run 500 kV line near the existing PPL Otter Creek instruct a new Otter Creek 500/230 kV Substation in a double-bus r design with three (3) 500 kV 4000 A breakers, eight (8) 500 kV and one (1) 230 kV 2000 A MOD in the initial construction. Leave 00 kV bay for one additional future 500 kV breaker. Connect the the existing Otter Creek 230 kV Station with a new 500/230 kV ansformer with normal/emergency ratings of 900/1250 MVA and (a 0.65 mile 230 kV lead line with normal/emergency capacity of A).

25,230,582.59

27,180,503.03



Instructions			Component 4	Component 5	Component 6
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).	3.a.	Component description(s)	Tap TMIS - Furnace Run (Peach Bottom) 500 kV line A. Tap into existing TMIS-FURU (PEBO) 500 kV line near the location of the existing Otter Creek 230 kV Switchyard. Bring the new OTCR-TMIS and OTCR- FURU (PEBO) 500 kV lines into separate bays in the new Otter Creek 500 kV station.	Otter Creek 500/230 kV Substation to Otter Creek 230 kV Switchyard lead line A. Build a 0.65 mile 230 kV lead line between the existing Otter Creek 230 kV switchyard and the new Otter Creek 500/230 kV Substation with normal/emergency capacity of 2260 A / 3138 A.	Otter Creek 230 kV Switchyard Upgrade Add two (2) new 230 kV 2000 a circuit breakers and three (3) 2 kV 2000 A MODs to the existin Otter Creek 230 kV substation accommodate the new transformer from Otter Creek 500/230 kV Substation Protection upgrades and/or adjustments as necessary.
Provide a component project cost breakdown into the identified categories along with a total component cost. Costs should be in current year dollars.	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	\$ 3,817,906.81	\$ 3,611,148.00	\$ 1,952,634
If this proposal is being submitted as Market Efficiency project, provide an in-service year component project	3.c.	Component cost (in-service year)	\$ 4,112,969.94	\$ 3,890,234.13	\$ 2,103,541
Identify the entity who will be designated the component.	3.d.	Construction responsibility			



Instructions			Component 7	Component 8	Component 8
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).	3.a.	Component description(s)	Face Rock 115/69 kV Substation Upgrade Replace Face Rock 115/69 kV T1 and T2 transformers with larger units each capable of 110/135 MVA SN/SE and 125/155 MVA WN/WE. Perform additional work to remove limiting substation components from the 69 kV bay the transformers terminate into at Face Rock. Protection upgrades and/or adjustments as necessary.	Manor - Graceton 230 kV line partial reconductor Reconduct / rebuild 1.3 miles of Manor – Graceton 230 kV line (section presently at 795 ACSR) to accommodate 1590 ACSR conductor. Protection upgrades and/or adjustments as necessary.	Manor - Graceton 230 kV line partial reconductor Reconduct / rebuild 1.3 miles of Mano Graceton 230 kV line (section presently 795 ACSR) to accommodate 1590 ACSF conductor. Protection upgrades and/or adjustments as necessary.
Provide a component project cost breakdown into the identified categories along with a total component cost. Costs should be in current year dollars.	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	\$ 3,272,306.26	\$ 42,858.05	\$ 5,088,202
If this proposal is being submitted as Market Efficiency project, provide an in-service year component project	3.c.	Component cost (in-service year)	\$ 3,525,203.19	\$ 46,170.29	\$ 5,481,438
Identify the entity who will be designated the component.	3.d.	Construction responsibility			



3.	Major Project Components			
	Instructions			Component 9
	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).	3.a.	Component description(s)	Peach Bottom 500 kV North Station Bus Upgrade Upgrade PEBO North Station buswork to accommodate full PEBO- FURU 500 kV line conductor rating. OPTIONAL COMPONENT ONLY APPLICABLE IF A PEBO-FURU 500 kV THERMAL RELIABILITY VIOLATION IS IDENTIFIED WITH PPL-B IN SERVICE.
		3.b.	Component cost (current year)	
			Engineering and design	
			Permitting / routing / siting	
			ROW / land acquisition	
	Provide a component project cost breakdown into the		Materials and equipment	
	identified categories along with a total component cost.		Construction and commissioning	
	Costs should be in current year dollars.		Construction management	
			Overheads and miscellaneous costs	
			Contingency	
			Total component cost	\$ 1,119,778.02
	If this proposal is being submitted as Market Efficiency project, provide an in-service year component project	3.c.	Component cost (in-service year)	\$ 1,206,318.95
	Identify the entity who will be designated the component.	3.d.	Construction responsibility	

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Instructions		Inpu
Provide the corresponding component number from the "Project Components" tab of the proposal template.	7.a.	Component number
Provide the name for the proposed substation.	7.b.	Proposed substation name
Provide the latitude and longitude (in decimal degrees) of the site(s) evaluated for the substation.	7.c.	Evaluated location(s)
Provide a general description of the substation. Also, provide a single line diagram and general arrangement drawing.	7.a.	Install a new 115 kV ring bus at the Orrtanna tap point of 963 line (approximately 1.85 miles from Hunterstown 11 Substation). Bring the Hunterstown - Orrtanna - Lincoln provide two dedicated source feeds to Orrtanna from the and eight 2000 A MODs. The two dedicated feeds to O upgrades and/or adjustments as necessary.
Describe the major substation equipment and provide the equipment ratings.	7.e.	 Substation equipment All 115kV switchyard conductor will be two (2) 795 AC schedule 80 aluminum bus. Install four (4) 115kV, 2000A, 40kA circuit breakers. Install eight (8) 115kV, 2000A, motor operated discontional six (6) 115kV, 100kVA power voltage transform Install six (6) 115kV, 100kVA power voltage transform Install two (2) 480V fused Square D safety switches. Install two (2) 480V-240/120V, 300kVA transformers. Install 25'x25'' "stick built" or modular control cubicle vicubicle will be installed. Break the existing First energy lines near their existing ROW. PPL to install 4 steel poles to bring





7. Gr	eenfield Substation Component		
	Instructions		Inpu
	Provide the corresponding component number from the "Project Components" tab of the proposal template.	7.a.	Component number
	Describe the required site size, geography and current land use for the proposed site(s).	7.f.	Geography and land use Fence line = 260 ft by 156 ft. 7.1 acre lot assumed. Lan
	Provide an assessment of the potential environmental impacts (i.e. environmental impact study requirements, environmental permitting, sediment, and erosion control issues).	7.g.	Environmental assessment The site was chosen based on operational and construct disturbance and environmental impacts. Upon award the permitting activities will be adhered to. It is anticipated to appropraite time will be allotted during project execution
	Community and landowner outreach plan	7.h.	Outreach plan
			is committed to open communications and develops a project-specific Community and associated with each project. To communicate clearly a strategies including, in-person meetings with local muni fact sheets, frequently asked questions, and public open developed a strategic public outrea success. The program included soliciting input from an from the onset of the project through the completion. T mailings, multiple rounds if open houses, fact sheets, pr

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nd is presently vacant and fairly flat.

ctability intent. The intent was to minimize earth hroughout development and engineering all civil and that a NPDES permit will be required and the

transparency throughout the project lifecycle. As such, d Outreach Plan based on the unique conditions and transparently utilizes a wide variety of icipalities and regulators, direct mail, project websites, on houses. For example, during the ach program that was the cornerstone of the project's and providing timely updates to external stakeholders

nd providing timely updates to external stakeholders This was achieved using face to face meetings, direct press releases and an interactive website.



Instructions		Input
Provide the corresponding component number from the "Project Components" tab of the proposal template	. 7.a.	Component number
Provide the project land acquisition plan and approach for both public and private lands.	7.i.	Land acquisition plan
		 > Ordering of title, Phase 1 environmental study and app > Various disciplines would perform a review to ensure t > Meet with the property owner(s) to deliver the 15 Day I > Ongoing property owner negotiations and presentation agreement is reached > Revision (as needed) and execution of Agreement of S > Image: to perform due diligence activities (core boring, so testing) during the due diligence period outlined in the A > Once the site has been approved by all required depart with OGC and outside counsel
Describe any files or information that has been redacted from this section and provide the basis for the redaction.	7.j.	Redacted information

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braisal he site meets standards Packet (PUC Requirement) and begin negotiations of formal written offer (Agreement of Sale) once an Sale bil resistivity testing, infiltration testing, all other site greement of Sale rtments, ROW to coordinate scheduling of closing



ansmission Line Reconductor/Rebuild Component		
Instructions		Input
Provide the corresponding component number from the "Project Components" tab of the proposal template.	4.a.	Component number
Identify the line terminal points. Add additional spaces if required.	4.b.	Terminal points
		Existing Line Physical Characteristics
Provide the size and type conductor that will be removed.	4.c.	Existing conductor size and type
	4.d.	Existing hardware plan
Indicate whether the existing line hardware will be reused. If so, provide the age and condition of the hardware.		Existing hardware is FE owned. New conductor and isula switchyard. Conductor will match or exceed current ratin
	4.e.	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.		Existing structures in FE right of way to be replaced with
	4.f.	Terrain description
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.		New switchyard and tap points located in a farm filed, rel

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Hunterstown
Lincoln
963 line
Unknown
ators will be installed between tap point and new 115kV ng.
new tap structures.
latively flat.



ansmission Line Reconductor/Rebuild Component		
Instructions		Input
Provide the corresponding component number from the "Project Components" tab of the proposal template.	4.a.	Component number
		Reconductor/Rebuild Component Plan
Provide the target ratings for the line.	4.g.	Component target ratings
Provide the type and size of the conductor to be installed.	4.h.	Proposed conductor size and type
If the shield wire is to be replaced, identify the type and size to be used.	4.i.	Proposed shield wire size and type
	4.j.	Rebuild portion
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.		Not applicable. Not a reconductor, just tapping the line.
	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.		Switchyard property to extend to exisitng FE ROW. No
	4.I.	Redacted information
Describe any files or information that has been redacted from this section and provide the basis for the redaction.		

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Match exisitng
795 ACSR 26 / 7
Would install an equivalent.
additional ROW will be required.



7. G	eenfield Substation Component		
	Instructions		Inpu
	Provide the corresponding component number from the "Project Components" tab of the proposal template.	7.a.	Component number
	Provide the name for the proposed substation.	7.b.	Proposed substation name
	Provide the latitude and longitude (in decimal degrees) of the site(s) evaluated for the substation.	7.c.	Evaluated location(s)
	Provide a general description of the substation. Also, provide a single line diagram and general arrangement drawing	7.d.	Substation description
			Tap the TMIS – Furnace Run 500 kV line near the exist Otter Creek 500/230 kV station in a double-bus double- eight (8) 500 kV 4000 A MODs, and one (1) 230 kV 200 500 kV bay for one additional future 500 kV breaker. Co kV substation with a new 500/230 kV Otter Creek trans and Component 5 (a 0.65 mile 230 kV lead line with no
	Describe the major substation equipment and provide the equipment ratings.	7.e.	Substation equipment - All 500kV substation conductor will be three (3) 1590 / schedule 80, aluminum bus. - All 230kV substation conductor will be two (2) 1590 A0 schedule 80, aluminum bus. - Install nine (9) 500kV single pole 500kV circuit breake - Install eight (8) 500kV ganged MOD switches with gro - Install three (3) 500-230-12.47kV power transformers. - Install three (3) 500-480V, 100kVA power voltage transformers. - Install one (1) 480V, 400A fused safety switch. - Install one (1) 12.47kV-240/120V, 300kVA padmount schedule (1) 230kV MOD switch. - Install one (1) 230kV MOD switch.



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7. G	eenfield Substation Component		
	Instructions		Inpu
	Provide the corresponding component number from the "Project Components" tab of the proposal template.	7.a.	Component number
	Describe the required site size, geography and current land use for the proposed site(s).	7.f.	Geography and land use Fence line = 765 ft by 465 ft. Land is presently vacant a
	Provide an assessment of the potential environmental impacts (i.e. environmental impact study requirements, environmental permitting, sediment, and erosion control issues).	7.g.	Environmental assessment The site was chosen based on operational and construct disturbance and environmental impacts. Upon award the permitting activities will be adhered to. It is anticipated appropriate time will be allotted during project execution
	Community and landowner outreach plan	7.h.	Outreach plan
			is committed to open communications and develops a project-specific Community and associated with each project. To communicate clearly a strategies including, in-person meetings with local muni fact sheets, frequently asked questions, and public open developed a strategic public outrea success. The program included soliciting input from an from the onset of the project through the completion. T mailings, multiple rounds if open houses, fact sheets, pro-

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nd fairly flat.
tability intent. The intent was to minimize earth roughout development and engineering all civil and nat a NPDES permit will be required and the
transparency throughout the project lifecycle. As such, Outreach Plan based on the unique conditions ad transparently utilizes a wide variety of cipalities and regulators, direct mail, project websites, houses. For example, during the ch program that was the cornerstone of the project's d providing timely updates to external stakeholders his was achieved using face to face meetings, direct ess releases and an interactive website.



Instructions			Input
Provide the corresponding component number from the "Project Components" tab of the proposal template	e. 7.a.	Component number	
Provide the project land acquisition plan and approach for both public and private lands.	7.i.	Land acquisition plan	
		 > Ordering of title, Phase 1 environmental stud > Various disciplines would perform a review to > Meet with the property owner(s) to deliver the > Ongoing property owner negotiations and pro- agreement is reached > Revision (as needed) and execution of Agree > Image: to perform due diligence activities (core testing) during the due diligence period outlines > Once the site has been approved by all require with OGC and outside counsel 	y and app ensure the sentation ment of S boring, so d in the Ag red depar
Describe any files or information that has been redacted from this section and provide the basis for the redaction.	7.j.	Redacted information	

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oraisal he site meets standards Packet (PUC Requirement) and begin negotiations of formal written offer (Agreement of Sale) once an Sale bil resistivity testing, infiltration testing, all other site greement of Sale rtments, ROW to coordinate scheduling of closing



Instructions			Input
Provide the corresponding component number from the "Project Components" tab of the proposal template.	4.a.	Component number	
Identify the line terminal points. Add additional spaces if required.	4.b.	Terminal points	
		Existing Line Physical Characteristics	
Provide the size and type conductor that will be removed.	4.c.	Existing conductor size and type	D
	4.d.	Existing hardware plan	
Indicate whether the existing line hardware will be reused. If so, provide the age and condition of the hardware.		Existing structures will not be modified. New construction switchyard. Conductor will match or exceed construction will match or exceed constructions.	onductor v urrent ratii
	4.e.	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.		Exisitng structures will not be touched. Two not break the exisitng line into the new substation.	ew 3-pole
	4.f.	Terrain description	
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.		New switchyard and tap points located in a far	m filed, re

s - 3
4
Three Mile Island Furnace Run (Peach Bottom)
puble Bundle 2493 ACAR / 5437
vill be installed between tap point and new 115kV ng.
structures will need to be installed in PECO ROW to
latively flat.

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ransmission Line Reconductor/Rebuild Component			
Instructions			Input
Provide the corresponding component number from the "Project Components" tab of the proposal template.	4.a.	Component number	
		Reconductor/Rebuild Component Plan	
Provide the target ratings for the line.	4.g.	Component target ratings	Not a
Provide the type and size of the conductor to be installed.	4.h.	Proposed conductor size and type	ot applic
If the shield wire is to be replaced, identify the type and size to be used.	4.i.	Proposed shield wire size and type	ot applic
	4.j.	Rebuild portion	
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.		Not applicable. Not a reconductor, just tapping th	ne line.
	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.	-	Substation property to extend to exisitng PECO	ROW. I
Describe any files or information that has been reducted from this section and provide the basis for the	4.I.	Redacted information	
redaction.			

s - 3
4
pplicable. Not a reconductor, just tapping the line.
able. Not a reconductor, just tapping the line.
able. Not a reconductor, just tapping the line.
No additional ROW will be required.



6. T	ansmission Line Component			
	Instructions			Input
	Provide the corresponding component number from the "Project Components" tab of the proposal template.	6.a.	Component Number	
	Provide the substation endpoints for the proposed transmission line component.	6.b.	Line terminal points	
	Provide the target ratings for the proposed line.	6.c.	Project ratings	
	Provide the proposed conductor type and size.	6.d.	Conductor type and size	D
		6.e.	General line description	
	Provide a general description of the line, including nominal voltage, whether the facility will be AC or DC and if the construction will be overhead, underground, submarine or some combination.		Connect the new Otter Creek 500 / 230 kV Sub- 0.65 mile overhead AC 230 kV lead line with a t	station to arget no
		6.f.	General route description	
	Provide a general description of the evaluated routes or routing study area. Provide a Google Earth .KMZ file with the evaluated routes or study plan.		Tie between the new 500-230kV substation and ROW as the existing Manor-Otter Creek 230kV	l exisiting line.
		6.g.	Terrain description	
	Describe the terrain traversed by the proposed new line.		Rolling hills.	

s - 1
5
New Otter Creek 500 / 230 kV Substation Existing Otter Creek 230 kV Switchyard
normal / emergency capacity of 2260 A / 3138 A.
puble bundle 1590 54 / 19 ACSR
o the existing Otter Creek 230 kV Switchyard with a rmal/emergency capacity of 2260 A / 3138 A.
230kV Otter Creek switchyard will be in the same



. Transmission Line Component		
Instructions		Input
Provide the corresponding component number from the "Project Components" tab of the proposal template.	6.a.	Component Number
	6.h.	Right of way plan by segment
Route description by segment that includes lengths and widths and classified by whether the segment will be new right of way, an expansion of an existing right of way or use an existing right of way. This information may be included with the Google Earth .KMZ.		Exisitng ROW will be used along the exisitng Manor-Ott
	6.i.	ROW and land acquisition plan
Provide the project right of way and land acquisition plan and approach for both public and private lands.		 Ordering of title on each property crossed and a marke Meet with the property owner(s) along the route to delive negotiations Order survey exhibits to be prepared by Survey Ongoing property owner negotiations and presentation once survey exhibits are completed Revision (as needed) and execution of Easement and A Recording of the easement with survey exhibit in the reserved of the easement with survey exhibits in the reserved of the easement with survey exhibit in the reserved of the easement with survey exhibit in the reserved of the easement with survey exhibits in the reserved of the easement with survey exhibits in the reserved of the easement with survey exhibit in the reserved of the easement with survey exhibits in the reserved of the easement with survey e
	6.j.	Transmission facility crossings
Provide the location and plan for any transmission facility crossings.		The tie line will cross underneath the Manor-Otter Creek accommodate double circuit and the crossing will be inc

s - 1
5
er Creek 230kV corridor. No additional ROW needed.
t study for the project area er the 15 Day Packet (PUC Requirement) and begin of offer (Easement and Additional Consideration Form) additional Consideration Form spective court house
220k// line This section will be rebuilt to
prporated into the design of this section.



6.	Transmission Line Component	_		
	Instructions			Input
	Provide the corresponding component number from the "Project Components" tab of the proposal template.	6.a.	Component Number	Ļ
		6.k.	Environmental impacts	
	Provide an assessment of the potential environmental impacts (i.e. environmental impact study requirements, environmental permitting, sediment, and erosion control issues).		It is anticipated that all required permits and e assumed no special permits will be required o	environmen outside of e
		6.I.	Tower characteristics	
	Proposed tower characteristics such as monopole, lattice, wood h-frame design, double or single circuit, and horizontal, vertical or delta conductor configurations. Note, preliminary drawings for proposed structure types are acceptable in place of a written description.		Monopole, double circuit.	
		6.m.	Redacted information	
	Describe any files or information that has been redacted from this section and provide the basis for the redaction.			

s - 1	
5	
tal plans will be needed during project development. arth disturbance permits.	lt



Instructions		Inpu
Provide the corresponding component number from the "Project Components" tab of the proposal template.	5.a.	Component number
Identify the name of the existing substation where the upgrade will take place.	5.b.	Substation
	5.c.	Substation upgrade scope
Describe the scope of the upgrade work at the identified substation.		Add two (2) new 230 kV 2000 A circuit breakers and thre 230 kV substation to accommodate the new transformer it from the existing 230 kV line to Manor Substation. This bays 1 and 2 at the existing 230 kV switchyard. No station upgrades and/or adjustments as necessary.

its-1
6
Otter Creek 230 kV Switchyard
ee (3) 230 kV 2000 A MODs to the existing Otter Creek
from Otter Creek 500/230 kV and electrically separate
s upgrade adds one new 230 kV breaker in each of one expansion is required. Substation Protection



Instructions			Inpu
Provide the corresponding component number from the "Project Components" tab of the proposal template	5.a.	Component number	
	5.d.	New equipment description	
Describe any new substation equipment and provide the equipment ratings.		 Install one (1) 230kV, 3000A half tandem MOD states Install one (1) 230kV, 3000A half tandem MOD states Install one (1) 230kV, 3000A three insulator vertices Install one (1) motor operator to the existing bay 2 Install two (2) 230kV circuit breaker in bay positio Bus conductor will be 4", schedule 80. Estimate 2 All 230kV substation conductor will be two (2) 155 	vitch vitch al br 2 nor ns 1 ⁻ 60' c 30 A(

its-1	
6	
in bay 1. in bay 2. eak switch in bay 1 north. th three insulator vertical break switch. Γ and 2N. f 4". CSR conductors	



Instructions			I
Provide the corresponding component number from the "Project Components" tab of the proposal template.	5.a.	Component number	
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 Not Applicable.	
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. 5.g.	Substation drawings Real-estate plan	
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.	e.g.	No expansion required.	
Describe any files or information that has been redacted from this section and provide the basis for the redaction.	5.h.	Redacted information	

ts-1			
6]		



Instructions		Input
Provide the corresponding component number from the "Project Components" tab of the proposal template.	5.a.	Component number
Identify the name of the existing substation where the upgrade will take place.	5.b.	Substation
Describe the scope of the upgrade work at the identified substation.	5.c.	Substation upgrade scope Replace Face Rock 115/69 kV T1 and T2 transformers wand 125/155 MVA WN/WE. Perform additional work as follows to remove limiting subtransformers terminate into at Face Rock: Replace limiting components in Bay 6 of the 69 kV yard a achieve minimum terminal ratings of 2000 A (normal) an side of CB 6C is to be upgraded to a 2000/5 A CT. All do 6 will need to be upgraded to either double bundle 795 K meet the standard ampacity requirement of 2000/2300 A also need to be replaced to accommodate the new cond conductor terminations from the T1 and T2 low side to the upgraded to double bundle 795 KCMIL conductors. All te accommodate the new conductors. Protection upgrades

ts-2
7
Face Rock 115 / 69 kV
with larger units each capable of 110/135 MVA SN/SE
ostation components from the 69 kV bay the
and the transformer (T1 and T2) buses in order to d 2300 A (emergency). The 1200/5 A CT on the north own-comers and leads between equipment within Bay CCMIL conductor or 3" Aluminum tubular bus that will A. Conductor termination into substation equipment will uctors or tubular bus. Down-comers, leads, and heir respective terminations into Bay 6 will also be erminations are to be upgraded accordingly to and/or adjustments as necessary.



Instructions		Inp
vide the corresponding component number from the "Project Components" tab of the proposal tem	plate. 5.a.	Component number
ribe any new substation equipment and provide the equipment ratings.	plate. 5.a. 5.d.	Component number New equipment description - Install two (2) new 115/69kV 110/135 MVA transform Substation. - Rewire the existing control and AC cables to the new the new control cabinet, install two (2) junction boxes t - Install the existing 4/0 ground connections to the new - Replace two (2) spans of 1033 KCMIL (one down-co with two (2) 795 ACSR. - Replace two (2) spans of 1033 KCMIL (one down-co with new double bundle 795 KC. - Replace all conductor terminations associated with T to accommodate the new double bundle conductor. - Install a new 2000/5A CT in place on the 1-3-5 bushi - Replace the following conductor spans within Bay 6 v (a) Two (2) spans of 1590 ACSR from the North and S (b) Six (6) leads of 1590 ACSR from each circuit breal switches. (c) Two (2) spans of 500 MCM Cu. (one down-comer an 6. (d) Two (2) spans of 500 MCM Cu. (one down-comer an 6. (e) One (1) down-comer of 350 KCMIL - Replace the following conductor spans within Bay 6 v

ıts-2
7
rs T1 and T2 at the Face Rock 115/69kV
ransformer control cabinet. If the cables will not reach terminate cables. transformers.
her to T1 and one span from the T1 structure to Bay 6D)
her to T2 and one span from the T2 structure to Bay 5D)
and T2 with new terminations utilizing bifurcation pads
gs of CB 6C th new two (2) 795 ACSR: outh high side busses into disconnect switches. er 6B, 6BT, 6C to their respective disconnect
one OH span between lattice structures) Bay
nd one OH span between lattice structures)
th tubular bus to meet the standard ampacity
onnect switches for the Transformer T1 and T2
V disconnect switches for the No. 695 SPAN
ew terminations utilizing bifurcation pads to



			It
Provide the corresponding component number from the "Project Components" tab of the proposal template.	5 .a.	Component number	
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 Not Applicable.	
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.	J.g.	No expansion required.	
Describe any files or information that has been redacted from this section and provide the basis for the redaction.	5.h.	Redacted information	

ts-2		
7		



Insmission Line Reconductor/Rebuild Component		
Instructions		Inpu
Provide the corresponding component number from the "Project Components" tab of the proposal template.	4.a.	Component number
Identify the line terminal points. Add additional spaces if required.	4.b.	Terminal points
		Existing Line Physical Characteristics
Provide the size and type conductor that will be removed.	4.c.	Existing conductor size and type
	4.d.	Existing hardware plan
Indicate whether the existing line hardware will be reused. If so, provide the age and condition of the hardware.		BG&E section of line will need to have towers and hard
	4.e.	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.		BG&E towers and hardware were designed for 795 ACS section has been rebuilt to support 1590 ACSR.
	4.f.	Terrain description
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.		Rolling hills.

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8
Manor 230 kV
Graceton 230 kV
795 ACSR 30 / 19
vare replaced.
R and now need to support 1590 ACSR. The PPL



ansmission Line Reconductor/Rebuild Component		
Instructions		Inpu
Provide the corresponding component number from the "Project Components" tab of the proposal template.	4.a.	Component number
		Reconductor/Rebuild Component Plan
Provide the target ratings for the line.	4.g.	Component target ratings SN
Provide the type and size of the conductor to be installed.	4.h.	Proposed conductor size and type
If the shield wire is to be replaced, identify the type and size to be used.	4.i.	Proposed shield wire size and type
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 Approximately 1.3 miles of the line needs to be recondu ACSR. The section of line that needs to be upgraded is assumed that the entire 1.3 mile section would have to Rebuild 1.3 miles of line to single circuit future double ci Rebuild from 39.721190° -76.384672° (Maryland border existing steel monopole. Install conductor from Maryland
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 No expansion required.
Describe any files or information that has been redacted from this section and provide the basis for the redaction.	4.I.	Redacted information

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8	
/ SE: 1626A / 2013A. WN / WE: 1873A / 2267A	
1590 ACSR 45 / 7	
OPGW .752, 48 count	
cted. The remainder of the line already has 1590 owned by BGE. For the purposes of this estimate it is be rebuilt to accommodate the larger conductor. rcuit with 1590 ACSR and dual 48 count OPGW.) to 39.702063° -76.385545° and tie new conductor in a border to PPL dead-end structure 38374S14542.	



5. Substation Upgrade Component								
Instructions		Inputs-3						
Provide the corresponding component number from the "Project Components" tab of the proposal template	e. 5.a.	Component number	9					
Identify the name of the existing substation where the upgrade will take place.	5.b.	Substation	Peach Bottom (North)					
	5.c.	Substation upgrade scope						
Describe the scope of the upgrade work at the identified substation.		Upgrade PEBO North Station buswork to acco (SN/SE of 2546 A / 3232 A and WN/WE of 31 OPTIONAL COMPONENT ONLY APPLICABL VIOLATION IS IDENTIFIED WITH	ommodate full PEBO-FURU 500 kV line conductor rating of I34 A / 3274 A). LE IF A PEBO-FURU 500 kV THERMAL RELIABILITY SERVICE.					



Instructions		Inputs-3
Provide the corresponding component number from the "Project Components" tab of the proposal template.	5.a.	Component number 9
	5.d.	New equipment description
Describe any new substation equipment and provide the equipment ratings.		3900 linear feet of rigid bus to be replaced with 5" rigid bus



bstation Upgrade Component			
Instructions			Input
Provide the corresponding component number from the "Project Components" tab of the proposal template.	5.a.	Component number	ç
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 Assumes tie lines between North and South PE accommodate the ratings noted above.	BO statio
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.	J.g.	No expansion required.	
Describe any files or information that has been redacted from this section and provide the basis for the redaction.	5.h.	Redacted information	

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9
ons and buswork at PEBO South are adequate to



9. Project Financial Information

Instructions

Provide the planned construction period, include the month and **9.a.** 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.

Provide, in present year dollars, capital expenditure estimates **9.b.** 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.

Even if AFUDC is not going to be employed, provide a yearly **9.c.** AFUDC cash flow.

Project Schedule		
		_
Capital spend start date (Mo-Yr)	Jan-19	
Construction start date (Mo-Yr)		
		-
Commercial operation date (Mo-Yr)	Jan-23	

Project Capital Expenditures							
		0.05	0.2	0.35	0.4		
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	\$ 51,169,988.68	\$1,279,249.72	\$ 2,558,499.43	\$ 6,396,248.59	\$15,350,996.60	\$ 25,584,994.34	
Work by others capex	\$ -						
Total project capex	\$ 51,169,988.68	\$1,279,249.72	\$ 2,558,499.43	\$ 6,396,248.59	\$15,350,996.60	\$ 25,584,994.34	

Inputs

	Total	2019	2020	2021	2022	2023	2024
AFUDC	\$ 1,627,780.00	\$ 40,694.50	\$ 81,389.00	\$ 203,472.50	\$ 488,334.00	\$ 813,890.00	



9. Project Financial Information

Instructions

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 access, etc.).

Describe any files or information that has been redacted from **9.e.** this section and provide the basis for the redaction.

Assumptions for the capital expenditure estimate

The estimate assumes competitive unit prices to execute the proposed scope of work. Costs assume favorable weather, schedule, environmental conditions, and outage requirements to execute at a competitive price. The cost assumes that land and land rights for the proposed substation, switchyards and right of way ("ROW") will be acquired in the general vicinity of the locations included within this proposal. Land and ROW will be acquired amicably, and condemnation will not be required. Civil land conditions are suitable for the development of the proposed substations, switchyards, and transmission lines; including but not limited to geotechnical conditions, access rights, stormwater management, and permitting requirements. Potential environmental impacts can reasonably be mitigated or avoided, and appropriate permits and approvals can be readily obtained.

Redacted information

Inputs

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10. Cos	t Containment Commitment				
	Instructions		Inputs		
		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.				
	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		
		10 b.ii.	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.iii	Cost containment capital expenditure exemptions		
			Capital cost component	Component covered by cost containment	
			Engineering and design	Choose Yes or No	
	Indicate which components of capital costs fall under the cost cap.		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	
			Overbeads and miscellaneous costs	Choose Yes or No	
				Choose Yes or No	
			AFUDC	Choose Yes or No	
			Escalation	Choose Yes or No	

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10. Cos	t Containment Commitment		
	Instructions		Inputs
		- 10.c.	Describe any other Cost Containment Measures not covered above:
	Describe any other cost containment measures not detailed 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