East Spring 345kV Transmission Project

General Information

Proposing entity name	CONFIDENTIAL INFORMATION
Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project?	CONFIDENTIAL INFORMATION
Company proposal ID	CONFIDENTIAL INFORMATION
PJM Proposal ID	442
Project title	East Spring 345kV Transmission Project
Project description	The East Spring 345kV Transmission Project will include interconnecting the Katydid Road - Goodings Grove Blue and AB1-122 - Mole Creek 345kV circuits at the new East Spring 345kV substation. The new substation will utilize a four position breaker and a half arrangement.
Email	CONFIDENTIAL INFORMATION
Project in-service date	05/2025
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	Yes
Additional benefits	CONFIDENTIAL INFORMATION

Project Components

1. East Spring 345kV Substation
2. AB1-122 - Mole Creek
3. Katydid Road - Goodings Grove Blue

Greenfield Substation Component

Component title	East Spring 345kV Substation
Project description	CONFIDENTIAL INFORMATION
Substation name	East Spring Substation
Substation description	The East Spring Substation will include a four (4) position breaker and a half arrangement configuration 345kV yard that interconnects the Katydid Road - Goodings Grove Blue and AB1-122 - Mole Creek 345kV transmission lines.
Nominal voltage	AC
Nominal voltage	345

Transformer Information

None

Major equipment description	345kV circuit breakers (6) will have a continuous current rating of 4000A, a 2390 MVA rating, and a short circuit current rating of 63kA. 345kV terminal equipment will be rated at 4000A.

	Normal ratings	**Emergency ratings**
Summer (MVA)	2390.000000	2390.000000
Winter (MVA)	2390.000000	2390.000000

Environmental assessment	The proposed Project was sited to avoid and minimize impacts to wetlands or other areas of environmental concern based on GIS data. It is possible that the Project cannot avoid impacts to a limited number of wetlands and waterways. If so, Proposer expects the Project will be subject to regulation under certain permitting programs, namely Section 404 of the Clean Water Act, Section 10 of the Rivers and Harbors Act, and Section 401 of the Clean Water Act. Proposer will engage a qualified consultant to conduct a wetlands delineation of the selected site/route in order to establish the extent of proposed impacts and the need for specific permits from the state or U.S. Army Corps of Engineers. In addition to the permits described above, Proposer has identified other permits which may be required for the construction of the Project. Proposer considers these permits to be minor due to the more limited effort to prepare applications and the less intensive permitting processes which follow. These include permits related to airspace clearance, stormwater/erosion and sedimentation control, road crossings, and utility and railroad crossings.

Outreach plan	Proposer will identify and engage stakeholders, such as community officials and landowners within the Project area, early in the process and maintain an active dialogue throughout. Public meetings may be held to offer a venue for landowners and other interested community members to learn about the Project and for Proposer to learn more about specific landowner and community preferences. Proposer plans to make information available on its website and provide notification of public meetings to landowners within the Project area as required in the siting approval process.
Land acquisition plan	The Project will be located primarily on new right-of-way to be purchased by Proposer. In addition, Proposer will procure any necessary easements required to access the site. Proposer will assign a Right-of-Way Manager to oversee all real estate related activities for the Project including appraisals, title work, surveying, land acquisition and restoration. A right-of-way agent will contact the property owner(s) in person to explain the Project and, as necessary, secure permission to conduct surveys, archaeological studies, etc. The right-of-way agent will be the primary point of contact to negotiate with the property owner to acquire the substation site and any required easements on a mutually agreeable basis. To the extent that negotiations reach an impasse, Proposer will be able to pursue eminent domain. The right-of-way agents will continue to act as a liaison with the property owners during construction and through the restoration process.
Construction responsibility	CONFIDENTIAL INFORMATION
Benefits/Comments	CONFIDENTIAL INFORMATION
Component Cost Details - In Current Year $	
Engineering & design	CONFIDENTIAL INFORMATION
Permitting / routing / siting	CONFIDENTIAL INFORMATION
ROW / land acquisition	CONFIDENTIAL INFORMATION
Materials & equipment	CONFIDENTIAL INFORMATION
Construction & commissioning	CONFIDENTIAL INFORMATION
Construction management	CONFIDENTIAL INFORMATION
Overheads & miscellaneous costs	CONFIDENTIAL INFORMATION
Contingency	CONFIDENTIAL INFORMATION
Total component cost	$8,174,291.00
Component cost (in-service year)	$9,251,109.10

Transmission Line Upgrade Component

Component title	AB1-122 - Mole Creek
Project description	CONFIDENTIAL INFORMATION
Impacted transmission line	AB1-122 - Mole Creek
Point A	AB1-122
Point B	Mole Creek
Point C	
Terrain description	Flat farmland.

Existing Line Physical Characteristics

Operating voltage	345
Conductor size and type	N/A
Hardware plan description	N/A
Tower line characteristics	N/A

Proposed Line Characteristics

	Designed	**Operating**
Voltage (kV)	345.000000	345.000000
	Normal ratings	**Emergency ratings**
Summer (MVA)	1201.000000	1479.000000
Winter (MVA)	1201.000000	1479.000000
Conductor size and type	N/A	
Shield wire size and type	N/A	

Rebuild line length	<0.25 miles
Rebuild portion description	The existing line will be broken and new deadend towers installed to facilitate looping into the new East Spring 345kV Substation.
Right of way	The existing right-of-way will be reused to facilitate the transmission interconnection facilities necessary to loop the lines into the new substation.
Construction responsibility	CONFIDENTIAL INFORMATION
Benefits/Comments	CONFIDENTIAL INFORMATION
Component Cost Details - In Current Year $	
Engineering & design	CONFIDENTIAL INFORMATION
Permitting / routing / siting	CONFIDENTIAL INFORMATION
ROW / land acquisition	CONFIDENTIAL INFORMATION
Materials & equipment	CONFIDENTIAL INFORMATION
Construction & commissioning	CONFIDENTIAL INFORMATION
Construction management	CONFIDENTIAL INFORMATION
Overheads & miscellaneous costs	CONFIDENTIAL INFORMATION
Contingency	CONFIDENTIAL INFORMATION
Total component cost	$1,150,000.00
Component cost (in-service year)	$1,309,784.00

Transmission Line Upgrade Component

Component title	Katydid Road - Goodings Grove Blue
Project description	CONFIDENTIAL INFORMATION
Impacted transmission line	Katydid Road - Goodings Grove Blue
Point A	Katydid Road

Point B	Goodings Grove
Point C	
Terrain description	Flat farmland.

Existing Line Physical Characteristics

Operating voltage	345
Conductor size and type	N/A
Hardware plan description	N/A
Tower line characteristics	N/A

Proposed Line Characteristics

	Designed	**Operating**
Voltage (kV)	345.000000	345.000000
	Normal ratings	**Emergency ratings**
Summer (MVA)	1314.000000	1528.000000
Winter (MVA)	1590.000000	1781.000000
Conductor size and type	N/A	
Shield wire size and type	N/A	
Rebuild line length	<0.25 miles	
Rebuild portion description	The existing line will be broken and new deadend towers installed to facilitate looping into the new East Spring 345kV Substation.	
Right of way	The existing right-of-way will be reused to facilitate the transmission interconnection facilities necessary to loop the lines into the new substation.	
Construction responsibility	CONFIDENTIAL INFORMATION	

Benefits/Comments	CONFIDENTIAL INFORMATION

Component Cost Details - In Current Year $

Engineering & design	CONFIDENTIAL INFORMATION
Permitting / routing / siting	CONFIDENTIAL INFORMATION
ROW / land acquisition	CONFIDENTIAL INFORMATION
Materials & equipment	CONFIDENTIAL INFORMATION
Construction & commissioning	CONFIDENTIAL INFORMATION
Construction management	CONFIDENTIAL INFORMATION
Overheads & miscellaneous costs	CONFIDENTIAL INFORMATION
Contingency	CONFIDENTIAL INFORMATION
Total component cost	$1,150,000.00
Component cost (in-service year)	$1,309,784.00

Congestion Drivers

None

Existing Flowgates

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
GD-W2-W211	270716	DRESDEN ; B	275179	DRESDEN ;1M	1	345/138	222	Winter Gen Deliv	Included
GD-W2-W214	275179	DRESDEN ;1M	271337	DRESDEN ; R	1	138	222	Winter Gen Deliv	Included

New Flowgates

CONFIDENTIAL INFORMATION

Financial Information

Capital spend start date	03/2022
Construction start date	03/2024
Project Duration (In Months)	38

Cost Containment Commitment

Cost cap (in current year)	CONFIDENTIAL INFORMATION
Cost cap (in-service year)	CONFIDENTIAL INFORMATION

Components covered by cost containment

1. East Spring 345kV Substation - Proposer

Cost elements covered by cost containment

Engineering & design	Yes
Permitting / routing / siting	Yes
ROW / land acquisition	Yes
Materials & equipment	Yes
Construction & commissioning	Yes
Construction management	Yes
Overheads & miscellaneous costs	Yes
Taxes	Yes
AFUDC	Yes
Escalation	No
Additional Information	CONFIDENTIAL INFORMATION

Is the proposer offering a binding cap on ROE?	No
Is the proposer offering a Debt to Equity Ratio cap?	CONFIDENTIAL INFORMATION

Additional Comments

None