

Combinations

General Information

Proposing entity name	NEETMH
Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project?	Yes
Company proposal ID	1A-8300
PJM Proposal ID	158
Project title	Combinations
Project description	Combinations
Email	johnbinh.vu@nee.com
Project in-service date	06/2029
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	See Attachment 1, Section 3.4

Project Components

1. Reconductor existing Gilbert - Springfield 230 kV OH line
2. Reconductor existing Richmond - Waneeta 230 kV OH line
3. Red Lion 500 kV Substation Upgrade

Transmission Line Upgrade Component

Component title	Reconductor existing Gilbert - Springfield 230 kV OH line
-----------------	---

Project description	Reconductor existing Gilbert - Springfield 230 kV OH line	
Impacted transmission line	Gilbert - Springfield 230 kV OH line	
Point A	Gilbert	
Point B	Springfield	
Point C		
Terrain description	Expect to utilize existing easements/utility owned property, no expansion anticipated	
Existing Line Physical Characteristics		
Operating voltage	230	
Conductor size and type	Same as existing	
Hardware plan description	Utilize existing line hardware to extent practicable	
Tower line characteristics	Utilize existing towers to extent practicable	
Proposed Line Characteristics		
	Designed	Operating
Voltage (kV)	230.000000	230.000000
	Normal ratings	Emergency ratings
Summer (MVA)	799.000000	963.000000
Winter (MVA)	837.000000	1008.000000
Conductor size and type	1033.5 kcmil Curlew ACSS HS: 1C Bundle	
Shield wire size and type	Utilize existing shield wire to extent practicable	
Rebuild line length	11.95 miles	
Rebuild portion description	Proposing to reconductor the entire line (or necessary portion) to achieve the specified rating	

Right of way	Use of existing ROW, no expansion anticipated
Construction responsibility	JCPL
Benefits/Comments	Resolves reliability issues identified per PJM's Gen. Deliv. Process

Component Cost Details - In Current Year \$

Engineering & design	Confidential competitive information
Permitting / routing / siting	Confidential competitive information
ROW / land acquisition	Confidential competitive information
Materials & equipment	Confidential competitive information
Construction & commissioning	Confidential competitive information
Construction management	Confidential competitive information
Overheads & miscellaneous costs	Confidential competitive information
Contingency	Confidential competitive information
Total component cost	\$15,530,000.00
Component cost (in-service year)	\$16,810,000.00

Transmission Line Upgrade Component

Component title	Reconductor existing Richmond - Waneeta 230 kV OH line
Project description	Reconductor existing Richmond - Waneeta 230 kV OH line
Impacted transmission line	Waneeta to Richmond 230 kV line
Point A	Waneeta
Point B	Richmond
Point C	
Terrain description	Expect to utilize existing easements/utility owned property, no expansion anticipated

Existing Line Physical Characteristics

Operating voltage	230
Conductor size and type	Same as existing
Hardware plan description	Utilize existing line hardware to extent practicable
Tower line characteristics	Utilize existing towers to extent practicable

Proposed Line Characteristics

	Designed	Operating
Voltage (kV)	230.000000	230.000000
	Normal ratings	Emergency ratings
Summer (MVA)	887.000000	1195.000000
Winter (MVA)	997.000000	1322.000000
Conductor size and type	2156 kcmil Bluebird ACSR:1C	
Shield wire size and type	Utilize existing shield wire to extent practicable	
Rebuild line length	3.2 miles	
Rebuild portion description	Proposing to reconductor the entire line (or necessary portion) to achieve the specified rating	
Right of way	Use of existing ROW, no expansion anticipated	
Construction responsibility	PECO	
Benefits/Comments	Resolves reliability issues identified per PJM's Gen. Deliv. Process	

Component Cost Details - In Current Year \$

Engineering & design	Confidential competitive information
Permitting / routing / siting	Confidential competitive information
ROW / land acquisition	Confidential competitive information

Materials & equipment	Confidential competitive information
Construction & commissioning	Confidential competitive information
Construction management	Confidential competitive information
Overheads & miscellaneous costs	Confidential competitive information
Contingency	Confidential competitive information
Total component cost	\$4,150,000.00
Component cost (in-service year)	\$4,500,000.00

Substation Upgrade Component

Component title	Red Lion 500 kV Substation Upgrade
Project description	Add 2 Breakers in series with existing breakers 501 and 502 at Red Lion 500 kV ring bus to eliminate loss of Keeney and one of the two 500/230kV Transformers due to stuck breaker contingency
Substation name	Red Lion 500 kV
Substation zone	DP&L
Substation upgrade scope	Add 2 CB

Transformer Information

None	
New equipment description	AC Substation : Upgrade - add one position
Substation assumptions	Space available to add new breakers
Real-estate description	No expansion of substation fence anticipated
Construction responsibility	DPL
Benefits/Comments	Resolves reliability issues identified per PJM's Gen. Deliv. Process

Component Cost Details - In Current Year \$

Engineering & design	Confidential competitive information
Permitting / routing / siting	Confidential competitive information
ROW / land acquisition	Confidential competitive information
Materials & equipment	Confidential competitive information
Construction & commissioning	Confidential competitive information
Construction management	Confidential competitive information
Overheads & miscellaneous costs	Confidential competitive information
Contingency	Confidential competitive information
Total component cost	\$5,000,000.00
Component cost (in-service year)	\$5,410,000.00

Congestion Drivers

None

Existing Flowgates

None

New Flowgates

None

Financial Information

Capital spend start date	12/2022
Construction start date	12/2022

Project Duration (In Months)

78

Additional Comments

None