

Springfield - Gilbert 230 kV line reconductor

General Information

Proposing entity name	Company confidential and proprietary information
Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project?	Company confidential and proprietary information
Company proposal ID	Company confidential and proprietary information
PJM Proposal ID	330
Project title	Springfield - Gilbert 230 kV line reconductor
Project description	Reconduct the 0.33 mile PPL EU portion of the Springfield - Gilbert 230 kV line with 1590 ACSS 54/19 conductor to achieve a new rating of SN/SE: 830/954 MVA and WN/WE: 939/1087 MVA.
Email	Company confidential and proprietary information
Project in-service date	05/2023
Tie-line impact	Yes
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	Company confidential and proprietary information

Project Components

1. Springfield - Gilbert 230 kV line reconductor

Transmission Line Upgrade Component

Component title	Springfield - Gilbert 230 kV line reconductor
Project description	Company confidential and proprietary information

Impacted transmission line

Springfield - Gilbert 230 kV line

Point A

Springfield 230 kV Substation

Point B

Gilbert 230 kV Substation

Point C

Terrain description

The PPL portion of the Springfield - Gilbert 230kV line crosses over agriculture fields.

Existing Line Physical Characteristics

Operating voltage

230

Conductor size and type

1590 45/7 ACSR Conductor

Hardware plan description

Existing polymer insulators and hardware will be replaced.

Tower line characteristics

The PPL portion of the Springfield - Gilbert 230kV line is composed of steel monopoles on caisson foundations. The poles were installed in 2013 and are in good condition.

Proposed Line Characteristics

Designed

Operating

Voltage (kV)

230.000000

230.000000

Normal ratings

Emergency ratings

Summer (MVA)

830.000000

954.000000

Winter (MVA)

939.000000

1087.000000

Conductor size and type

1590 54/19 ACSS Conductor

Shield wire size and type

Existing shield wire to remain

Rebuild line length

0.33 miles

Rebuild portion description

Reconductor only on PPL portion of the line.

Right of way

No additional ROW required.

Construction responsibility

Company confidential and proprietary information

Benefits/Comments

Company confidential and proprietary information

Component Cost Details - In Current Year \$

Engineering & design

Company confidential and proprietary information

Permitting / routing / siting

Company confidential and proprietary information

ROW / land acquisition

Company confidential and proprietary information

Materials & equipment

Company confidential and proprietary information

Construction & commissioning

Company confidential and proprietary information

Construction management

Company confidential and proprietary information

Overheads & miscellaneous costs

Company confidential and proprietary information

Contingency

Company confidential and proprietary information

Total component cost

\$384,828.00

Component cost (in-service year)

\$412,237.37

Congestion Drivers

None

Existing Flowgates

FG #	From Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
28-GD-W18	206236	28GILBERT	208091	SFLD	1	230	228/229	Gen Deliv (winter)	Included
35-GD-S2-W18	206236	28GILBERT	208091	SFLD	1	230/230	228/229	Gen Deliv (winter)	Included

New Flowgates

None

Financial Information

Capital spend start date	06/2022
Construction start date	04/2023
Project Duration (In Months)	11

Additional Comments

None