

# Bushkill - Kittatinny 230 kV line reconductor

## General Information

Proposing entity name	Proprietary Information
Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project?	Proprietary Information
Company proposal ID	Proprietary Information
PJM Proposal ID	17
Project title	Bushkill - Kittatinny 230 kV line reconductor
Project description	<p>Proposer Scope: Reconduct the Bushkill - Kittatinny 230kV line for 0.01 miles out of Bushkill substation with 1590 54/19 ACSS with a rating of 916 MVA SN, 1075 MVA SE, 995.9 MVA WN, and 1115.4 MVA WE. Add two additional 1590 45/7 ACSR sub-conductors to each phase of the Bushkill -Kittatinny 230kV line for the next 1.0 mile to the New Jersey border such that the segment is triple-bundle 1590 45/7 ACSR with a rating of 1645 MVA SN, 2130 MVA SE, 2079 MVA WN, and 2463 MVA WE.</p> <p>Other Scope: Add two additional 1590 45/7 ACSR sub-conductors to each phase of the Bushkill - Kittatinny 230 kV line for 3.4 miles from the New Jersey border to 41.060093° -74.943135° such that the segment is triple-bundle 1590 45/7 ACSR with a rating of 1645 MVA SN, 2130 MVA SE, 2079 MVA WN, and 2463 MVA WE. Reconduct the Bushkill - Kittatinny 230 kV line for 6.7 miles from 41.060093° -74.943135° to the Kittatinny Substation dead-end with 1590 54/19 ACSS with a rating of 916 MVA SN, 1075 MVA SE, 995.9 MVA WN, and 1115.4 MVA WE.</p>
Email	
Project in-service date	Proprietary Information
Tie-line impact	06/2028
Interregional project	Yes
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	Yes
	Proprietary Information

# Project Components

1. Bushkill - Kittatinny 230 kV line reconductor (PPL Portion)
2. Bushkill - Kittatinny 230 kV line reconductor (JCPL Portion)

## Transmission Line Upgrade Component

Component title	Bushkill - Kittatinny 230 kV line reconductor (PPL Portion)	
Project description	Proprietary Information	
Impacted transmission line	Bushkill - Kittatinny 230 kV line	
Point A	Bushkill	
Point B	Kittatinny	
Point C		
Terrain description	Existing transmission corridor congested and mountainous within national park.	
Existing Line Physical Characteristics		
Operating voltage	230	
Conductor size and type	1590 ACSR 45/7	
Hardware plan description	New hardware will be installed with the proposed conductors.	
Tower line characteristics	Double circuit 500 kV structures installed as part of the Susquehanna - Roseland 500 kV project in 2015. One side of the structure is operated at 230 kV.	
Proposed Line Characteristics		
	Designed	Operating
Voltage (kV)	230.000000	230.000000
	Normal ratings	Emergency ratings
Summer (MVA)	916.000000	1075.000000

Winter (MVA)	995.900000	1115.400000
Conductor size and type	1590 54/19 ACSS and triple-bundle 1590 45/7 ACSR	
Shield wire size and type	OPGW	
Rebuild line length	1.01 miles	
Rebuild portion description	Reconduct the Bushkill - Kittatinny 230kV line for 0.01 miles out of Bushkill substation with 1590 54/19 ACSS with a rating of 916 MVA SN, 1075 MVA SE, 995.9 MVA WN, and 1115.4 MVA WE. Add two additional 1590 45/7 ACSR sub-conductors to each phase of the Bushkill - Kittatinny 230kV line for the next 1.0 mile to the New Jersey border such that the segment is triple-bundle 1590 45/7 ACSR with a rating of 1645 MVA SN, 2130 MVA SE, 2079 MVA WN, and 2463 MVA WE.	
Right of way	Work will take place in existing ROW. No expansion is required.	
Construction responsibility	Proprietary Information	
Benefits/Comments	Proprietary Information	
Component Cost Details - In Current Year \$		
Engineering & design	Proprietary Information	
Permitting / routing / siting	Proprietary Information	
ROW / land acquisition	Proprietary Information	
Materials & equipment	Proprietary Information	
Construction & commissioning	Proprietary Information	
Construction management	Proprietary Information	
Overheads & miscellaneous costs	Proprietary Information	
Contingency	Proprietary Information	
Total component cost	\$3,500,000.00	
Component cost (in-service year)	\$3,835,319.70	

## Transmission Line Upgrade Component

Component title	Bushkill - Kittatinny 230 kV line reconductor (JCPL Portion)	
Project description	Proprietary Information	
Impacted transmission line	Bushkill - Kittatinny 230 kV line	
Point A	Bushkill	
Point B	Kittatinny	
Point C		
Terrain description	Existing transmission corridor congested and mountainous within national park.	
Existing Line Physical Characteristics		
Operating voltage	230	
Conductor size and type	1590 ACSR 45/7	
Hardware plan description	New hardware will be installed with the proposed conductors.	
Tower line characteristics	Double circuit 500 kV structures installed as part of the Susquehanna - Roseland 500 kV project in 2015. One side of the structure is operated at 230 kV.	
Proposed Line Characteristics		
	Designed	Operating
Voltage (kV)	230.000000	230.000000
	Normal ratings	Emergency ratings
Summer (MVA)	916.000000	1075.000000
Winter (MVA)	995.900000	1115.400000
Conductor size and type	1590 54/19 ACSS and triple-bundle 1590 45/7 ACSR	
Shield wire size and type	OPGW	

Rebuild line length	10.1 miles
Rebuild portion description	Add two additional 1590 45/7 ACSR sub-conductors to each phase of the Bushkill - Kittatinny 230 kV line for 3.4 miles from the New Jersey border to 41.060093° -74.943135° such that the segment is triple-bundle 1590 45/7 ACSR with a rating of 1645 MVA SN, 2130 MVA SE, 2079 MVA WN, and 2463 MVA WE. Reconduct the Bushkill - Kittatinny 230 kV line for 6.7 miles from 41.060093° -74.943135° to the Kittatinny Substation dead-end with 1590 54/19 ACSS with a rating of 916 MVA SN, 1075 MVA SE, 995.9 MVA WN, and 1115.4 MVA WE.
Right of way	Work will take place in existing ROW. No expansion is required.
Construction responsibility	Proprietary Information
Benefits/Comments	Proprietary Information
Component Cost Details - In Current Year \$	
Engineering & design	Proprietary Information
Permitting / routing / siting	Proprietary Information
ROW / land acquisition	Proprietary Information
Materials & equipment	Proprietary Information
Construction & commissioning	Proprietary Information
Construction management	Proprietary Information
Overheads & miscellaneous costs	Proprietary Information
Contingency	Proprietary Information
Total component cost	\$31,500,000.00
Component cost (in-service year)	\$32,911,493.09

## Congestion Drivers

None

## Existing Flowgates

None

## New Flowgates

Proprietary Information

## Financial Information

Capital spend start date 05/2025

Construction start date 09/2027

Project Duration (In Months) 37

## Cost Containment Commitment

Cost cap (in current year) Proprietary Information

Cost cap (in-service year) Proprietary Information

### Components covered by cost containment

1. Bushkill - Kittatinny 230 kV line reconductor (PPL Portion) - PPL

### Cost elements covered by cost containment

Engineering & design Yes

Permitting / routing / siting No

ROW / land acquisition No

Materials & equipment Yes

Construction & commissioning Yes

Construction management Yes

Overheads & miscellaneous costs	No
Taxes	No
AFUDC	No
Escalation	No
Additional Information	Proprietary Information
Is the proposer offering a binding cap on ROE?	No
Is the proposer offering a Debt to Equity Ratio cap?	Proprietary Information

### Additional Comments

None