Rebuild North Meshoppen - Mehoopany #2 115 kV Line

General Information

Proposing entity name	Company specific
Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project?	Yes
Company proposal ID	2023-W1-158
PJM Proposal ID	158
Project title	Rebuild North Meshoppen - Mehoopany #2 115 kV Line
Project description	Rebuild North Meshoppen - Mehoopany #2 115 kV Line
Email	Company specific
Project in-service date	06/2028
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	

Project Components

1. North Meshoppen - Mehoopany #2 115 kV Line

Transmission Line Upgrade Component

Component title	North Meshoppen - Mehoopany #2 115 kV Line
Project description	Company specific
Impacted transmission line	North Meshoppen - Mehoopany 115 kV Line #2

Point A	North Meshoppen 115 kV
Point B	Mehoopany 115 kV
Point C	
Terrain description	Terrain is hilly.

Existing Line Physical Characteristics

Operating voltage	115
Conductor size and type	336 ACSR 26/7 STR
Hardware plan description	All existing hardware will be replaced.
Tower line characteristics	The existing line is constructed on wood H-frame and guyed 3-pole structures. the existing conductor is 336.4 ACSR 26/7 shielded by (2) 3/8” 7 strand EHS steel.

Proposed Line Characteristics

	Designed	**Operating**
Voltage (kV)	115.000000	115.000000
	Normal ratings	**Emergency ratings**
Summer (MVA)	232.000000	282.000000
Winter (MVA)	263.000000	334.000000
Conductor size and type	795 ACSR 26/7 STR	
Shield wire size and type	(2) 7#8 Alumoweld shield wires	
Rebuild line length	6.8 miles	

Rebuild portion description	Scope includes replacing the following existing structures with similar structures: (41) 115kV single circuit wood pole suspension horizontal H-frame structures (2) 115kV single circuit wood pole dead-end horizontal 3-pole angles 27° to 90° structures (3) 115kV single circuit wood pole dead-end horizontal 3-pole angles 0° to 3° structures (5) 115kV single circuit wood pole suspension horizontal 3-pole medium angle "Pull off" structures (1) 115kV single circuit wood pole suspension horizontal 3-pole light angle structures (1) 115kV single circuit wood stub pole Replace existing 6.8 circuit miles of 336.4 kcmil 26/7 ACSR with 795 kcmil 26/7 ACSR ‘Drake’ Replace existing 6.8 miles of (2) 3/8” 7 strand EHS shield wire with (2) 7#8 Alumoweld shield wire Siting/Licensing: A full application will be required. Application process is expected to take 18 months. General Notes: The line crosses US highway 6. The line crosses state route 267. The line crosses under and then runs adjacent to the ETP2 (Lackawanna-North Meshoppen) 230kV line near North Meshoppen Substation. It is assumed the rebuild will be a structure-for-structure rebuild. Due to the quantity of violating spans per the survey point clearances reports with ACSR conductor, a full rebuild is assumed.
Right of way	All work will be performed within existing ROW and no new ROW will be required.
Construction responsibility	Company specific
Benefits/Comments	

Component Cost Details - In Current Year $

Engineering & design	Company specific
Permitting / routing / siting	Company specific
ROW / land acquisition	Company specific
Materials & equipment	Company specific
Construction & commissioning	Company specific
Construction management	Company specific
Overheads & miscellaneous costs	Company specific
Contingency	Company specific
Total component cost	$17,724,872.00
Component cost (in-service year)	$20,097,882.00

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
2023W1-IPD-S20	200677	26NO MESHO	200698	26MEHOOPNY	2	115	226	Summer IPD	Included
2023W1-IPD-S21	200677	26NO MESHO	200698	26MEHOOPNY	2	115	226	Summer IPD	Included
2023W1-IPD-S24	200677	26NO MESHO	200698	26MEHOOPNY	2	115	226	Summer IPD	Included

New Flowgates

None

Financial Information

Capital spend start date	10/2025
Construction start date	11/2027
Project Duration (In Months)	32

Additional Comments

None