Rebuild North Meshoppen - Mehoopany #1 115 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-W1-746
PJM Proposal ID	746
Project title	Rebuild North Meshoppen - Mehoopany #1 115 kV Line
Project description	Rebuild North Meshoppen - Mehoopany #1 115 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 #1 115 kV Line

Transmission Line Upgrade Component

Component title	North Meshoppen - Mehoopany #1 115 kV Line
Project description	Company specific
Impacted transmission line	North Meshoppen - Mehoopany 115 kV Line #1

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. Existing conductor is 336.4 ACSR 26/7, and existing shield wire is (2) 3/8” 7 strand EHS.

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	(1) 7#8 Alumoweld shield wire and (1) OPGW.	
Rebuild line length	6.8 miles	

Rebuild portion description	Scope includes replacing the following existing structures with similar structures: (42) 115kV single circuit wood pole suspension horizontal H-frame structures (1) 115kV single circuit wood pole suspension horizontal 3-pole light angle structures (4) 115kV single circuit wood pole suspension horizontal 3-pole medium angle structures (7) 115kV single circuit wood pole deadend horizontal 3-pole angles 27° to 90° structures 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 (1) 7#8 Alumoweld shield wire Add new 6.8 miles of (1) OPGW. Specific OPGW type should be confirmed during Project Development Siting/Licensing Assumptions: It is assumed a full application will be required. Application process is expected to take 18 months. Assume minimal ecological impact. General Notes: The line parallels the Nmm2 (Mehoopany (North Meshoppen No2)) 115kV line for the entire length of the line. 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. The rebuild will be a structure-for-structure rebuild. Due to the quantity of spans that did not meet NESC clearance requirements, it is assumed that a full rebuild is required. (1) 7#8 Alumoweld shield wire and (1) OPGW will shield the line.
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	$17,403,935.00
Component cost (in-service year)	$19,731,592.00

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-S22	200677	26NO MESHO	200699	26MEHOP 3	1	115	226	Summer IPD	Included
2023W1-IPD-S23	200677	26NO MESHO	200699	26MEHOP 3	1	115	226	Summer IPD	Included
2023W1-IPD-S25	200677	26NO MESHO	200699	26MEHOP 3	1	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