

# Northern Loop STATCOM

## 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	Company Specific
PJM Proposal ID	477
Project title	Northern Loop STATCOM
Project description	Install +/- 90 MVAR STATCOM at Roundtop Substation
Email	Company specific
Project in-service date	06/2026
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	

## Project Components

1. Install STATCOM at Roundtop 115 kV Substation

### Substation Upgrade Component

Component title	Install STATCOM at Roundtop 115 kV Substation
Project description	Install +/- 90 MVAR STATCOM at Roundtop Substation
Substation name	Roundtop 115 kV

Substation zone	MAIT - Metropolitan Edison
Substation upgrade scope	Below Grade: -Grading, stoning, fencing, drainage, and ground grid for substation expansion. -Foundations, conduit, and grounding for new equipment. Above Grade: -Install (1) +/- 90 MVAR STATCOM and associated equipment (supplied by vendor). -Install (1) 115 kV H-frame. -Install (6) 115 kV, 2000 A GOAB disconnect switches. -Install (2) 115 kV, 3000 A, 40 kAIC circuit breakers -Install (1 lot) steel structures, rigid bus, strain bus, connectors, and cables. Relay & Control: -Install (1) STATCOM bus protection panel (Includes (2) SEL-587 and (3) SEL-501)

**Transformer Information**

None	
New equipment description	See Substation upgrade scope
Substation assumptions	-STATCOM equipment after the circuit breaker is provided by vendor. -AC, DC, and SCADA systems are adequate for new equipment. -STATCOM protection will be supplied by vendor. -Disconnect switch stands will all be previously installed as bus supports. -STATCOM breaker disconnect switch will be mounted on H-frame. -New panel can fit in existing control building(s).
Real-estate description	Substation expansion area is on FE property.
Construction responsibility	Company Specific
Benefits/Comments	

**Component Cost Details - In Current Year \$**

Engineering & design	This information is considered confidential and proprietary
Permitting / routing / siting	This information is considered confidential and proprietary
ROW / land acquisition	This information is considered confidential and proprietary
Materials & equipment	This information is considered confidential and proprietary
Construction & commissioning	This information is considered confidential and proprietary
Construction management	This information is considered confidential and proprietary
Overheads & miscellaneous costs	This information is considered confidential and proprietary
Contingency	This information is considered confidential and proprietary

Total component cost \$32,158,060.26

Component cost (in-service year) \$36,939,703.59

### 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
N2-SVD2	200504	26CARLISLE	200504	26CARLISLE	0	115	226	Summer N-1-1 Voltage Drop	Included
N2-SVD3	204520	27ALLEN	204520	27ALLEN	0	115	227	Summer N-1-1 Voltage Drop	Included
N2-SVD4	204520	27ALLEN	204520	27ALLEN	0	115	227	Summer N-1-1 Voltage Drop	Included
N2-SVD5	204526	27DILLSBRG	204526	27DILLSBRG	0	115	227	Summer N-1-1 Voltage Drop	Included
N2-SVD6	204526	27DILLSBRG	204526	27DILLSBRG	0	115	227	Summer N-1-1 Voltage Drop	Included
N2-SVD7	204528	27GARDNERS	204528	27GARDNERS	0	115	227	Summer N-1-1 Voltage Drop	Included
N2-SVD8	204528	27GARDNERS	204528	27GARDNERS	0	115	227	Summer N-1-1 Voltage Drop	Included
N2-SVD9	204546	27MOUNTAIN	204546	27MOUNTAIN	0	115	227	Summer N-1-1 Voltage Drop	Included
N2-SVD10	204546	27MOUNTAIN	204546	27MOUNTAIN	0	115	227	Summer N-1-1 Voltage Drop	Included
N2-SVD11	204552	27P.P.G.I.	204552	27P.P.G.I.	0	115	227	Summer N-1-1 Voltage Drop	Included
N2-SVD12	204552	27P.P.G.I.	204552	27P.P.G.I.	0	115	227	Summer N-1-1 Voltage Drop	Included
N2-SVD15	204556	27ROUND TP	204556	27ROUND TP	0	115	227	Summer N-1-1 Voltage Drop	Included
N2-SVD16	204556	27ROUND TP	204556	27ROUND TP	0	115	227	Summer N-1-1 Voltage Drop	Included
N2-SVM8	204520	27ALLEN	204520	27ALLEN	0	115	227	Summer N-1-1 Voltage Magnitude	Included
N2-SVM9	204520	27ALLEN	204520	27ALLEN	0	115	227	Summer N-1-1 Voltage Magnitude	Included
N2-SVM10	204526	27DILLSBRG	204526	27DILLSBRG	0	115	227	Summer N-1-1 Voltage Magnitude	Included
N2-SVM11	204526	27DILLSBRG	204526	27DILLSBRG	0	115	227	Summer N-1-1 Voltage Magnitude	Included
N2-SVM12	204528	27GARDNERS	204528	27GARDNERS	0	115	227	Summer N-1-1 Voltage Magnitude	Included
N2-SVM13	204528	27GARDNERS	204528	27GARDNERS	0	115	227	Summer N-1-1 Voltage Magnitude	Included
N2-SVM16	204546	27MOUNTAIN	204546	27MOUNTAIN	0	115	227	Summer N-1-1 Voltage Magnitude	Included

FG #	From Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
N2-SVM17	204546	27MOUNTAIN	204546	27MOUNTAIN	0	115	227	Summer N-1-1 Voltage Magnitude	Included
N2-SVM18	204552	27P.P.G.I.	204552	27P.P.G.I.	0	115	227	Summer N-1-1 Voltage Magnitude	Included
N2-SVM19	204552	27P.P.G.I.	204552	27P.P.G.I.	0	115	227	Summer N-1-1 Voltage Magnitude	Included
N2-SVM26	204556	27ROUND TP	204556	27ROUND TP	0	115	227	Summer N-1-1 Voltage Magnitude	Included
N2-SVM27	204556	27ROUND TP	204556	27ROUND TP	0	115	227	Summer N-1-1 Voltage Magnitude	Included
N2-SVD1	200504	26CARLISLE	200504	26CARLISLE	0	115	226	Summer N-1-1 Voltage Drop	Included

## New Flowgates

None

## Financial Information

Capital spend start date 08/2024

Construction start date 02/2026

Project Duration (In Months) 22

## Additional Comments

None