

Executive Summary

This Transmission Mitigation Plan involves one new 138 kV line in the NIPSCO system at approximately 30 miles between NIPSCO substations Thayer and Morrison.

The NIPSCO line section between NIPSCO Thayer and Morrison substations, approximately 30 miles, would use 1590 ACSR to provide a rating of 434/525 (SN/SE) and 510/584 (WN/WE).

This project will mitigate the market efficiency constraints Goodland-Reynolds posted by MISO for MTEP17 and Gifford-Paxton within PJM’s RTEP16-17 base congestion results.

MTEP17 Flowgate Congestion Cost Savings:

Constraint	FromArea	FromBusK	RunId	Diff/Saving	After	Before
'B:25512917GOODLAND 25517317REYNOLDS 1 FLO 4SHELDONS 138-4WATSE 'NIPS'	'138'	'MTEP17 - PR - 2031'		\$21,417,590	\$0	(\$21,417,590)
'B:25512917GOODLAND 25517317REYNOLDS 1 FLO 17GOODLAND 69-17REN 'NIPS'	'138'	'MTEP17 - PR - 2031 Thayer-Iv		\$15,475,769	(\$183,626)	(\$15,659,396)
'B:24335305OLIVE 24748905BOSSERMAN 1 FLO 05NEWCAR 138 -'	'AEP'	'138'	'MTEP17 - PR - 2031 Thayer-Iv	\$9,851,476	(\$46,328,342)	(\$56,179,818)
'B:270670BRAIDWOOD; B270728E FRANKFO; B1 FLO BRAIDWOOD; B 345-BRAI 'COMED'	'345'	'MTEP17 - PR - 2031 Thayer-Iv		\$5,999,701	(\$26,741,973)	(\$32,741,674)

RTEP16-17 Flowgate Congestion Cost Savings:

Constraint	FromPowerFlowArea	RunId	Diff/Saving	After	Before
'B:3479724PAXTON E 3481184GIFFORD 1 FLO 17GOODLAND 138-17MORRISO'	'AMIL 357'	'201617ME Base 2024 v2016-10-31'	\$5,463,571	\$0	(\$5,463,571)

Major Components

- New Thayer-Morrison 138 kV circuit at approximately 30 miles

Furthermore NIPSCO is seeking interregional analysis and cost allocation for this project.

Project cost is estimated at \$42.5M in current year dollars which includes overhead, contingency and AFUDC. The estimated complete In-Service Date would be December 2022.

Total estimated time to construct is 48 months.

NIPSCO will be requesting Designated Entity status and affirms that the pre-qualification information on record with PJM and as posted on PJM’s website reflects the company’s current status. NIPSCO will construct, own, operate and maintain this facility.

Please reference Northern Indiana Public Service Company Pre-Qualification Filing for Company Evaluation, Project Constructability and Maintenance plan.

Pre-qualification ID: PJM ID Q13-14

For Component Cost Estimates please see included files.