

Executive Summary

This Transmission Mitigation Plan involves two upgrades to the NIPSCO system.

The NIPSCO line section between AEP substations Olive and Bosserman, approximately 12 miles, would be reconducted with 397 ACSS utilizing existing towers to provide a new rating of the NIPSCO conductor of 186/221 (SN/SE) 218/246 (WN/WE). AEP owns the remaining 3 miles of this circuit. The new final coordinated rating between AEP and NIPSCO would be 167(AEP)/221(NIPSCO)/210(AEP)/246(NIPSCO) MVA from the initial rating of 156/156/195/195 (NIPSCO) MVA.

The NIPSCO line section between AEP substations New Carlisle and Bosserman, approximately 12 miles, would be reconducted with 397 ACSS utilizing existing towers to provide a new rating of the NIPSCO conductor of 186/221 (SN/SE) 218/246 (WN/WE). AEP owns the remaining 1 miles of this circuit. The new final coordinated rating between AEP and NIPSCO would be 167(AEP)/221(NIPSCO)/210(AEP)/239(AEP) MVA from the initial rating of 156/156/195/195 (NIPSCO) MVA.

This will resolve the market efficiency constraints Olive – Bosserman posted by MISO and PJM in MTEP17 and RTEP16-17 respectively and the nearby secondary constraints of New Carlisle – Bosserman. This additional upgrade for New Carlisle – Bosserman is needed to relieve a significant amount of total congestion in this area as these lines are in parallel, carry about the same amount of flow and currently have the same ratings. Relieving only Olive-Bosserman will result in a significant amount of congestion remaining on New Carlisle – Bosserman. This condition is especially evident in the MISO models.

Major Components

- Olive-Bosserman 138 kV (Reconductor) at approximately 12 miles of a total 15 mile circuit
- New Carlisle-Bosserman 138 kV (Reconductor) at approximately 12 miles of a total 13 mile circuit

This project could potentially be coordinated with AEP to achieve higher coordinated ratings. Furthermore NIPSCO is seeking interregional analysis and cost allocation for this project.

Project cost is estimated at \$8M in current year dollars which includes overhead, contingency and AFUDC. The estimated complete In-Service Date would be December 2019.

Total estimated time to construct is 12 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.

801 E. 86th Avenue
Merrillville, IN 46410
WWW.NIPSCO.COM



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