

PJM Facilities Study Report
For
Network Upgrade N5769.4
Cycle TC1

Revision [0]: [June] [2025]

Introduction

This Facilities Study has been prepared in accordance with the PJM Open Access Transmission Tariff and PJM Manuals. The Transmission Owner (TO) is Indiana Michigan Power Company (IMP).

A. Project Description

The System Impact Study for PJM Interconnection Cycle TC1 has identified the need for PJM Network Upgrade N5769.4. The scope of this Network Upgrade includes the following:

- Reconductor ~8.58 Miles of 345 kV transmission line from Dumont Station to Structure 39.

B. Transmission Owner Facilities Study Results

1. Detailed Scope of work for Network Upgrade N5769.4:

The following is a detailed description of Transmission Owner Upgrades for Network Upgrade N5769.4. These facilities shall be designed according to the Transmission Owner's Applicable Technical Requirements and Standards. Once built the Transmission Owner will own, operate, and maintain these facilities.

- Remove ~8.58 miles of 954 KCM ACSR 45/7 conductor and shield wire along the AEP owned portion of the Dumont – Stillwell 345 kV line.
- Remove and replace structures #1 & #38
- Modify structures #2, #3, #4, #5, #6, #7, #8, #9, #10, #11, #12, #13, #14, #15, #16, #17, #18, #19, #21, #22, #23, #24, #25, #26, #27, #28, #29, #30, #31, #33, #34, #35, #36, #37, #39 to accommodate the new line
- Install ~8.58 miles of 954 KCM ACSR 54/7 conductor and shield wire on the new/modified structures
- Install ~8.58 miles of dual OPGW and 144 CT fiber

2. COST ESTIMATE OF IMP FACILITIES FOR REQUIRED UPGRADES

The following table summarizes the total estimated costs according to FERC criteria. The estimated costs are in 2025 dollars. **This cost excludes a Federal Income Tax Gross Up charges on Contributions in Aid of Construction (CIAC).** This tax may or may not be charged based on whether this project meets the eligibility requirements of IRS Notice 88-129. If at a future date it is determined that the Federal Income Tax Gross charge is required, the Transmission Owner shall be reimbursed by the Interconnection Customer for such taxes. The estimated reimbursement amount is noted in the table below.

2.1 COST ESTIMATE FOR TRANSMISSION OWNER-BUILD OPTION

Work Description	Type of Upgrade	Direct		Indirect		Total Cost	Tax
		Labor	Material	Labor	Material		
Reconductor AEP owned portion of the Dumont – Stillwell 345 kV line	Network Upgrade	\$19,607,000	\$4,607,000	\$5,684,000	\$1,336,000	\$31,234,000	

3. MILESTONE SCHEDULE FOR COMPLETION OF IMP WORK.

Facilities outlined in this report are estimated to take 32 months to construct, from the time of full execution of the Generation Interconnection Agreement and completion of a construction kickoff call. This schedule may be impacted by the timeline for procurement and installation of long lead items and the ability to obtain outages to construct and test the proposed facilities.

Activity	Dates
Project Engagement	Day 1
Engineering Start	Day 5
Material Ordering	Starts Day 157
Construction (Grading & Below Grade)	Starts Day 628
Construction (Above Grade)	Starts Day 692
Outage Requests Made By	Day 169
Outage (Structure Foundations)	Starts Day 692
Outage (Cut-in & Testing)	Starts Day 692
Ready For Back Feed (Interconnected Transmission Owner In-Service Date)	Day 953

4. ASSUMPTIONS IN DEVELOPING SCOPE/COST/SCHEDULE

- Dates in the table are calendar days
- Matting assumed for access roads
- Coordinate with NIPSCO will be required
- Extended outages will be required
- Line will be rebuilt on the existing centerline
- Underground utilities expected along and across portions of the existing line
- No distribution impacts

5. LAND REQUIREMENTS

None

6. ENVIRONMENTAL AND PERMITTING

- Assumed that the line will be rebuilt in the existing ROW