Merchant Transmission Interconnection Feasibility Study Report (Web Version)

For

PJM Merchant Transmission Request Queue Position W3-27

Meadowbrook 500 kV Project

January, 2011

Overview

The Interconnection Custom (IC) has submitted an Attachment S to propose the installation and interconnection of 100 MVAR Capacitor at the Meadowbrook Substation in the Allegheny Power network. The Commercial Operation date for this project is June 1, 2011.

PJM Report on the Transmission System

Neither PJM nor Allegheny Power performed a load flow or short circuit analysis for this project at this time. Therefore, no report is presented here.

APS Feasibility Analysis Report

A Feasibility Study has been prepared for PJM queue project W3-027 to provide for the addition of 100 MVAR of reactive support at Meadow Brook Substation. A sketch is attached for your reference.

Attachment Facilities and Related Network Upgrades

Replace the proposed 100 MVAR 500kV capacitor bank (U3-005) at Meadow Brook substation with a 200 MVAR 500kV capacitor bank. Assume re-using existing foundations and that no new site work is required.

Estimated Cost: $1,477,110 in 2011 dollars *(NOTE: Tax gross-up is not included.)*

The estimated project duration is **15 months** after the receipt of an executed Upgrade Construction Service Agreement.

While the information in this report is reasonable for the scope of work defined, it should, however, be noted that the cost figures are conceptual in nature at this stage, as an engineering team has not been assigned to the project. Obviously, any change to the scope of work will require that the estimates be revisited. The costs are a best estimate, but the Interconnection Customer (IC) will be charged for actual costs. Any under-runs or over-runs will be reconciled at the conclusion of the project. The estimates in this report do not include tax gross-up.