

Transmission Service Request System Impact Studies

Clarification of Transmission Service Request System Impact Study Scope

Revised March 31, 2011

Purpose of this document

The purpose of this document is to provide clarity on the Transmission Provider's methodology for defining the scope of Transmission Service Request System Impact Studies which takes account of the interaction between these Transmission Service Requests and Generation Interconnection Requests.

Background

Per Section 19.0 of the Open Access Transmission Tariff (OATT), the need for a System Impact Study (SIS) will be assessed following the receipt of a Completed Application Transmission Service. A description of the Transmission Provider's methodology for completing an SIS is provided in Attachment D of the OATT.

As identified in Attachment D, System Impact Studies related to generation interconnection are conducted per NSPI's Standard Generator Interconnection Procedures (GIP.)

Existing OATT Guidelines and Principles (OATT Attachment D (3))

In order to perform a System Impact Study, the Transmission Provider will develop system models for the known transmission system, including appropriate representation of load and generation for the time frame during which the Transmission Service is requested. These models will include existing agreements and other pending Transmission Service Requests. These models may include the representation of neighboring systems using the NPCC library of base cases as required. (Emphasis added.)

The study may include load flow, short circuit, stability, loss evaluation, economic and other analyses as appropriate and will be conducted according to the following:

- 1. The Transmission Provider criteria and guidelines for operation and planning.*
- 2. NPCC criteria and guidelines for design and operation of interconnected power systems.*
- 3. NERC planning and operating standards.*
- 4. Good Utility Practice.*

Further Clarifications:

- 1) Appropriate representation of load and generation in the system models for the time frame of the requested Transmission Service shall include all generating facilities which have established a higher queue position in accordance with the GIP Section 7 and those which have advanced to the Facilities Study or GIA stage of the GIP prior to the date and time of receipt of a valid TSR.
- 2) Existing agreements includes all signed Transmission Service Agreements, all executed Generator Interconnection Agreements as well as all GIAs filed in unexecuted form with the NS Utility and Review Board.
- 3) Other pending Transmission Service Requests include all valid TSRs with an application date earlier than the TSR currently being studied.

TSR Applicants can request an Optional TransmissionService Study as a supplement to their TSR SIS. This study agreement will identify scope, timing and costs and the study will be provided on an information-only basis to the Applicant.