

**CANADIAN NIAGARA POWER INC.
APPLICATION FOR LEAVE TO CONSTRUCT
TRANSMISSION FACILITIES IN THE
NIAGARA FALLS / FORT ERIE AREA
BOARD FILE NO. EB-2009-0283**

**OEB STAFF SUPPLEMENTAL INTERROGATORIES FOR
HYDRO ONE NETWORKS INC.**

PROJECT NEED

- References:* (1) *CNP Responses to Board Staff Interrogatories, Page 7*
(2) *CNP Responses to Hydro One Interrogatories, Page 4*

Preamble

In Ref (1) CNP has submitted that:

CNP's belief is that, for a system of the size and nature of CNP's transmission system, serving end-users with the diversity and economic significance of those served by CNP's system, good utility practice demands that such system have the ability to withstand the loss of one element such that a readily available secondary supply is available to provide uninterrupted service in the event of the unplanned loss of the system's primary supply.

In Ref (2) Hydro One has submitted that:

There are three existing interconnection facilities between the Hydro One transmission system in Queenston, Ontario and the U.S. National Grid system which are operating below capacity.

Questions / Requests

SI-21 Please provide a list showing the existing 115 kV lines in the Hydro One system that supply a total load that is less than 75 MW and for which the N-1¹ contingency criterion

¹ Refers to a system for which a single contingency will not result in the loss of supply, i.e., uninterrupted supply following a single contingency.

is met. The list should include (i) line designations, (ii) the length of the line(s) involved; and (iii) total load supplied (MW).

SI-22 Please provide a list showing the existing 115 kV lines in the Hydro One system that supply a total load that is less than 75 MW and for which the N-1 contingency criterion is not met. The list should include (i) line designations, (ii) the length of the line(s) involved; (iii) total load supplied (MW) and (iv) whether there is a backup supply available in the event that the normal supply is interrupted.

SI-23 In situations where there is a back-up supply available, please comment on the length of time needed to restore supply upon the loss (forced outage) of the primary supply.

SI-24 Has there been any consideration by Hydro One and/or others into utilizing the existing interconnections between the Hydro One system at Queenston and the US National Grid ("USNG") system to gain additional interconnection capability? Please explain.

SI-25 Please provide any available information regarding:

- additional interconnection capacity (MW) that may be available between the Hydro One system at Queenston and the USNG system; and
- any upgrades/modifications needed to achieve the additional capacity and approximate costs involved.