



April 29, 2002  
Mr. Carmine Marcello,  
Manager, Transmission System Development  
Investment Planning Division  
Hydro One  
483 Bay Street  
Toronto, Ontario, M5G 2P5

Dear Mr. Marcello:

***Addition of One 13.2kV Feeder at National Research TS  
Notification of Approval of Connection Proposal  
CAA ID Number: 2002-EX026***

Thank you for the detailed information that you provided on the plan for adding one new feeder at National Research TS. This transformer station is connected to the single circuit 115 kV line H2AR and located on National Research Council Montreal Campus in Ottawa. The plan provides for new structures, oil breakers, disconnects, pole and connection to the existing 13.2 kV J3 bus, off T3 transformer. The 13.2 kV feeder will supply the Gas Turbine Research Facility, which amounts to a new load of about 7 MVA.

With this application, Hydro One has also submitted the results of a study indicating that under various single transmission outages and peak load conditions the thermal rating of the 115 kV circuit H2AR, could be exceeded by year 2004. The additional 7 MVA load at National Research TS would marginally add to the transmission thermal overloading problem. As a result, Hydro One and Ottawa Hydro have jointly initiated a study to identify the need for improving the reliability of load supply in the Ottawa area. The IMO understands that as soon as a viable solution to this problem is selected, a Connection Assessment application will be submitted by the Transmitter.

We have reviewed all the information submitted by Hydro One and concluded that a formal Connection Assessment study is not warranted because:

- The additional load that will be supplied via the new feeder will not significantly reduce the transmission system transfer capability or operating security limits and
- Hydro One has already initiated a study to address the future Ottawa Area load supply issue.

The *Market Rules* Chapter 5 section 10.4 obligates each distributor and connected wholesale customer to make arrangements to enable the automatic disconnection of up to 35% of its peak demand for specific under-frequency system conditions. The IMO has investigated the need for supplementary under-frequency load shedding capability and concluded that there is no need to modify the existing under-frequency load shedding facilities or add new ones, at National Research TS.

The IMO is therefore pleased to grant approval for connecting the new feeder. A copy of this Notification of Approval will also be provided to the Ontario Energy Board (OEB).

To commence the project implementation, please follow the necessary procedures and obtain the required approvals, licences and permits as may be required by the OEB and other regulatory authorities.

Please note that the new facilities will also have to meet the requirements of the IMO's Facility Registration process before being placed in service.

For further information, please contact the undersigned.

Yours truly,

Bob Gibbons

Manager - Long Term Forecasts & Assessments

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cc: IMO Records

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All information submitted in this process will be used by the IMO solely in support of its obligations under the *Electricity Act, 1998*, the *Ontario Energy Board Act, 1998*, the *Market Rules* and associated policies, standards and procedures and in accordance with its licence. All information submitted will be assigned the appropriate confidentiality level upon receipt.

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