



September 14, 2004

Mr. Gord Haines

Section Manager  
Technical Compliance  
Ontario Power Generation  
700 University Avenue  
Toronto, Ontario, M5G 1X6

Dear Mr. Haines:

***Replacement of Lambton T3 with New Unit  
Notification of Approval of Connection Proposal  
CAA ID Number: 2004-EX205***

Thank you for the detailed information that you provided on OPGI's proposal to replace the Lambton step-up transformer T3 with a new unit.

We have reviewed the data and concluded that this project will not have any adverse impact on the reliability of the IMO-controlled grid since this is a like-for-like replacement. The data supplied by OPG for the old and the replacement units are attached to this notification.

The IMO is therefore pleased to grant **conditional approval** of the proposed transformer replacement. Any material changes to your proposal may require a re-assessment by the IMO in accordance with Market Manual 2.10, and may nullify your conditional approval.

**Final approval** will be granted upon successful completion of the IMO Facility Registration process. During facility registration you will be expected to demonstrate that the project you have installed is materially unchanged from the proposal assessed by the IMO. Contact [facility.registration@theIMO.com](mailto:facility.registration@theIMO.com) if you have not received a Facility Registration Summary package within the next 10 days.

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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### **Lambton Existing T3 Ratings**

Data for three phase transformer:

Rated Voltage for each Winding(LL):	HV:232 kV	LV:22.8 kV
Rating:	550 MVA	
Impedance:	X=13.92% on 550 MVA	
Off-load Taps	244 kV 238 kV 232 kV 226 kV 220 kV	
In service off-load tap position	232 kV	
Connection Arrangement	HV: Wye (solidly grounded)	LV: Delta

### ***Replacement Unit***

Data for three phase transformer:

Rated Voltage for each Winding(LL):	HV:232 kV	LV:22.8 kV
Rating:	550 MVA	
Summer Continuous Rating:	550 MVA	
Impedance:	X=15.26% on 550 MVA	
Off-load Taps	244 kV 238 kV 232 kV 226 kV 220 kV	
In service off-load tap position	232 kV	
Connection Arrangement	HV: Wye (solidly grounded)	LV: Delta
Proposed in-service data	(October 15 <sup>th</sup> 2004)	

### ***Assessment***

The information provided by OPG shows that technical characteristics of the replacement transformer are similar to the transformer unit that is to be replaced. The two units have the same winding configuration and grounding, the same summer continuous rating, similar off-load tap position and similar positive sequence impedances.