



October 1, 2003

Mr. Gord Haines

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

Dear Mr. Haines:

***Replacement of One Single Phase Transformer on Beck GS#2 T19  
Notification of Approval of Connection Proposal  
CAA ID Number: 2003-Ex162***

Thank you for the detailed information that you provided on OPGI's proposal to replace the blue phase of the three single phase transformer T19 at Beck GS#2, as part your plan to replace all the step-up transformers at the station.

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 the new facilities represent a "like-for-like" replacement of the existing facilities. The data supplied by OPG for the replacement unit is attached to this notification.

The IMO is therefore pleased to grant approval to complete the proposed installation.

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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***Sir Adam Beck GS#2***

***Replacement of Blue Phase step-up transformer on T19***

Data for the single phase transformer:

Rated Voltage for each Winding(LL):	HV:250 kV	LV:13.8 kV
Rating:	70 MVA	
Impedance:	X=10.2% on 70 MVA	
Off-load Taps	262 kV 256 kV 250 kV 244 kV 238 kV	
In service off-load tap position	244 kV	
Connection Arrangement	HV: Wye (solidly grounded)	LV: Delta

Proposed in-service data (Outage October 6<sup>th</sup> to 17<sup>th</sup> 2003)

***Assessment***

The information provided by OPG shows that T19 is rated for continuous summer and 10-day LTR operation of 210 MVA. Extensive testing performed by OPG indicates that the transformer unit could be capable to operate at 225 MVA for four hours. However, limitations associated with the phases buses and LV bushings restrain the continuous power flow over the station equipment to 210 MVA.