

5th April 2005

Mr John Sabiston
Team Lead - Transmission System Planning
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Independent Electricity
System Operator
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Dear: Mr Sabiston,

***Trafalgar TS: Replace 500/230kV Auto-transformer T15
Notification of Approval to Connect
CAA ID Number: 2005-EX225***

Thank you for participating in the IESO's Connection Assessment and Approval process.

On 15th January 2005, auto-transformer T15 at Trafalgar TS failed explosively. A replacement auto-transformer has since been installed and is scheduled to be energised on 11th April 2005.

As shown in the attachment, the parameters for the replacement unit are sufficiently similar to those of the companion auto-transformer, T14, that the two units will operate successfully in parallel. Furthermore, since the ratings for the replacement unit are marginally better than those of the companion unit, the new auto-transformer will not impose any additional operating restrictions.

The IESO is therefore pleased to grant **conditional approval** of your proposal to replace the failed auto-transformer at Trafalgar TS with a new unit.

Final approval will be granted upon successful completion of the IESO Facility Registration process.

A copy of this Notification of Approval will also be provided to the Ontario Energy Board (OEB) and a further copy will be posted on the IESO web site: www.ieso.ca

For further information, please contact the undersigned.

Yours truly,

Bob Gibbons
Manager – Long Term Forecasts & Assessments

cc: IESO Records

Trafalgar TS

Data for Auto-transformer T15 (together with data for the companion unit T14)							
	<i>Serial No.</i>	<i>Manufacturer</i>	<i>Rated Voltage</i>		<i>Nameplate Rating</i>		
T15	12106-01	Canadian Westinghouse	500/240/28kV		450/600/750MVA		
T14	A3S7985	ABB	500/240/28kV		450/600/750MVA		
<i>Ratings</i>							
	<i>Winter Continuous</i>	<i>Winter 10-day LTR</i>	<i>Summer Continuous</i>		<i>Summer 10-day LTR</i>		
T15	1083.3MVA	1083.3MVA	939.5MVA		1155.2MVA		
T14	954.4MVA	954.4MVA	837.2MVA		986.0MVA		
	<i>Impedance on 750MVA</i>		<i>Off-Load Taps</i>				
T15	R: 0.149%	X: 13.20%	525kV	512.5kV	487.5kV	475kV	462.5kV
T14	R: 0.140%	X: 12.73%	525kV	512.5kV	487.5kV	475kV	462.5kV

Protection & Auto-reclosure

No changes are to be made to the existing protective relaying as a result of the replacement of auto-transformer T15.

No changes are to be made to any of the auto-reclosure settings associated with Trafalgar TS.