Q. On page 26 of the Upgrade Transmission Line Corridor Report it is noted that for maximum hydraulic generation and reduced Labrador Island Link imports at Soldiers Pond, voltage collapse will occur for the loss of either TL202 or TL206. How is this different from the existing system with maximum hydraulic generation? If there is no difference, how does Hydro manage such a condition with the existing system and why wasn't this addressed before?

A. On page 26 of the Report, reference is made to voltage collapse of the system for loss of TL202 or TL206 for maximum hydraulic generation and minimum Labrador-Island Link import power orders. This is due to the system impedance of the Bay d'Espoir – Western Avalon transmission corridor and insufficient reactive support on the Avalon Peninsula to overcome the substantial voltage drop under this transmission configuration and contingency.

For the existing system, voltage collapse following the loss of TL202 or TL206 is not an issue as the system is operated to avoid thermal overload of the corridor through coordinated operation of the Holyrood Thermal Generating Station and reduced operation of the hydraulic generation. In essence, the potential for voltage collapse for loss of TL202 or TL206 is mitigated within the existing system by not operating with maximum hydraulic generation.