Q. Has Hydro given consideration to upgrading the overloaded lines which are outlined in section 6.2.1 of the Upgrade Transmission Line Corridor Report through the use of composite conductors that could accept higher current (and conductor temperature) without increased sag? If yes, explain how. If no, why not?

A. Hydro did not consider upgrading the conductor on the overloaded lines outlined in Section 6.2.1 of the report with composite conductors, as the installation of a third 230 kV transmission line between Bay D'Espoir (BDE) and Western Avalon (WAV) eliminates transmission overloads east of BDE under a single contingency event. Furthermore, the installation of a third 230 kV transmission circuit east of BDE is justified on the transient stability performance as opposed to the steady state load flow analysis and transmission line thermal overloads. The transmission line corridor upgrade strengthens the Island Interconnected System to survive electrical disturbances following the integration of the Labrador-Island Link, while providing increased transmission capacity east of BDE and operational flexibility during a single contingency event.