Q. Tab 4; Volume II: Install Plant Heating System (Holyrood Thermal Generating
Station)

Was the \$5,685,000 capital expenditure to install the plant heating system a consideration in the analysis to use Unit 3 as a synchronous condenser and not move all synchronous condensing functions to Soldiers Pond or elsewhere?

A.

During the development of the Basis of Design for the Lower Churchill Project, it was determined that the capital cost of installing incremental synchronous capacity on the Avalon Peninsula to replace Holyrood Unit 3 would exceed the life cycle costs of maintaining the existing unit in synchronous condensing mode. This was based on preliminary synchronous condenser equipment budgetary cost information. A detailed cost benefit analysis was not performed and capital expenditures associated with the installation of the plant heating system were therefore not specifically considered.

No further analysis regarding movement of the synchronous condensing functions away from Holyrood was completed. Following completion of the Labrador-Island HVdc Link and shut down of the Holyrood Thermal Generating Station as an energy source, the site will operate as a synchronous condensers facility with Unit 3 in synchronous condenser mode for the foreseeable future. In addition, the Holyrood plant site and interconnection to the 230 kV transmission system is a preferred location should additional synchronous condenser capacity (either high or standard inertia machines) be required at a future date given the availability of two 230 kV connections and its proximity to the Soldiers Pond Converter Station and Avalon Peninsula load centre.