Q. **Re Replace Pumphouse Motor Control Centres, page B- 12**

What would be the estimated cost of maintaining the Pumphouse Motor Control Centers (without their proposed wholesale replacement) by way of Preventive and Corrective Maintenance (including purchase of any necessary replacement parts, which are noted to be available at section 3.9 of the report supporting this Project) to the anticipated in service of the HVDC infeed in 2015/2016? Can these costs be included in a "Plan of Projected Operating Maintenance Expenditures" as has been done at Section I, Volume I of Hydro's Application?

A. Based on the 2004 – 2008 five-year average of preventive maintenance done on motor control centers, it can be estimated that the cost of preventive maintenance for the upcoming years would be approximately $4,000 to $5,000 annually. Annual corrective maintenance costs cannot be estimated since it is unknown what component or equipment breakdowns or failures will occur.

The justification for this proposal is not based on the annual preventive and corrective maintenance costs. The design of the equipment is such that there are no safety barriers to protect the maintenance staff from the 600 volt energized bus or the asbestos materials used in construction. Additionally, effects of the exposure of the motor control centers to the corrosive atmosphere in the pumphouse can cause interruptions to the supply of water to the plant and unplanned outages to the generation units. These safety and reliability issues cannot be rectified by normal preventive and corrective maintenance activities.