

1 Q. Reference: Energy Supply Risk Assessment Update, November 30, 2016, page 22,  
2 lines 11-13. Has the assessment by GE been completed? If yes, describe the  
3 remedial actions identified by GE and the actions planned by Hydro to address the  
4 recommendations.

5

6

7 A. A Lead Controls Engineer from General Electric (GE) was at Holyrood on December  
8 8 and 9, 2016, and completed the assessment. During the visit, the engineer  
9 provided a complete list of spare parts that could fail on the turbine controls  
10 system. This list was reviewed against the current inventory of spares that Hydro is  
11 maintaining. The primary recommended remedial action from this visit was for  
12 Hydro to increase the spare parts inventory to match the provided list. Hydro had  
13 previously stocked all of the circuit board cards, which have been the most common  
14 failure parts. The additional recommended parts included terminal boards and  
15 electronic components, such as resistors, diodes and capacitors. Hydro will comply  
16 with this recommendation and has initiated the process of adding the required  
17 parts to inventory. Hydro will expedite this order as much as possible.

18

19 GE also recommended to increase turbine controls support through an additional  
20 contract, beyond the existing revitalization agreement with GE as the contracted  
21 agreement does not currently provide for response times, both remote and on-site,  
22 that Hydro prefers. To close these gaps, Hydro is considering making Mark V  
23 controls support part of the next turbine maintenance contract, which will go to  
24 tender in early 2017.

- 1 Hydro has also requested and received a quotation from GE for the upgrade of the
- 2 existing control system (which is obsolete) to the current standard. Hydro is
- 3 reviewing this option as a potential reliability improvement.