

1 Q. **Project: Holyrood – Replace DC Distribution Panels and Breakers – \$174,200**

2 Reference: Application pages E-66 to E-68

3 a) The Project Justification on page E-67 discusses the failure of unit 1 on
4 January 11, 2013. Please describe the root cause for a lack of lubricating oil
5 to unit 1.

6 b) Please explain the connection between the DC distribution panels and
7 breakers and the lubrication failure on January 11, 2013.

8 c) Please list the spare circuit breakers available in Hydro stock.

9 d) Please explain the rationale for Hydro not proposing to replace the panels
10 for one unit and keep the removed panel as a spare.

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13 A. a) The final root cause analysis is not yet available. The recent failure of Unit 1
14 at the Holyrood Thermal Generation Station on January 11, 2013 highlighted
15 the criticality of the DC system and its function for reliable operation of
16 various plant processes, but is not directly related to this project.

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18 b) There is no connection between the DC distribution panels and the
19 lubrication failure on January 11, 2013. However, the lubrication failure
20 involved Unit 1 DC lube oil pump, which is supplied DC power from the 258V
21 DC distribution panel. This panel is proposed to be replaced during this
22 project.

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24 c) Spare circuit breakers available in Hydro's inventory include:

25 - 258VDC – KD-400A

26 - 129VDC – FB-15A, FB-20A, and FB-25A

- 1 d) The Unit 1 and Unit 2 258VDC panels and breakers are different models and
2 are not interchangeable. The condition of the 129VDC panel breakers to be
3 replaced during this project will be assessed and may be retained for spares.