

1 Q. The evaluation of alternatives in Appendix B suggests that all 8 of the 1.825 MW
2 diesel generators are necessary to successfully complete the blackstart of Holyrood.
3 Does Hydro have a contingency plan in the event that 1 or more of the 8 diesel
4 units is unavailable when needed to blackstart Holyrood? If so, please fully describe
5 the contingency plan. If not, why not?
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8 A. The analysis determined that eight 1.825 MW diesel generators are required to
9 successfully start the 3000 hp boiler feed pump associated with the blackstart of
10 Holyrood Units 1 or 2. Should either of the 1.825 MW diesel units not start when
11 required for a blackstart of Holyrood, Hydro would have several alternatives
12 available to continue blackstart of the plant.
13

14 Hydro would immediately take corrective action with respect to the failed start of
15 the 1.825 MW diesel unit. This would include:

- 16 • determination of immediate cause of failed start;
- 17 • attempt immediate repair; and
- 18 • contact the local equipment provider for support.
19

20 Simultaneous with the initiation of corrective action on the 1.825 MW diesel unit
21 that failed to start, Hydro has the alternative to blackstart Holyrood Unit 3 instead
22 of Unit 1 or Unit 2. The boiler feed pump motors on Unit 3 are 2500 hp motors.
23 Analysis has confirmed that seven 1.825 MW diesel units are required to
24 successfully start the 2500 hp boiler feed pump of Unit 3. Successful blackstart of
25 Unit 3 using seven diesel units would then enable start of Holyrood units 1 and 2.

In the event Hydro is not able to successfully blackstart Holyrood Unit 3, the following actions may be taken:

1. Hydro would initiate blackstart of Holyrood Unit 1 or Unit 2 using the remaining 1.825 MW diesel units and/or the Hardwoods combustion turbine via the available 230 kV and/or 66 kV transmission paths between Holyrood and Hardwoods Terminal Stations. Please refer to Hydro's response to CA-NLH-019 Attachment 10.
2. If there is no transmission connection between Holyrood and the Hardwoods combustion turbine during a blackstart event, Hydro would initiate a request to have Newfoundland Power's mobile gas turbine relocated to Holyrood to assist available diesel units with blackstart.
3. Another alternative would involve providing power from the Hardwoods gas turbine or other hydro generation, through existing transmission and distribution lines to aid in blackstart. Any transmission line or distribution line failure which impedes this operation would be addressed so as to provide power to the HTGS.