

1 Q. Further to the response to CA-NLH-034, please state the progress that has been
2 made on the detailed action plan with respect to protection and control to address
3 the issues associated with breaker failure protection system design.

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6 A. There are two items in the action plan for protection and control systems
7 associated with breaker failure protection system design. These are:

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9 1. Item 2.1 Redesign of Existing Breaker Failure Relay Protection

10 "all terminal stations which have existing breaker failure protection
11 in place will be reviewed to determine if a failure of a breaker to
12 open after a transformer protection operation is addressed by the
13 existing breaker failure design."

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15 The review was completed and eight terminal stations were identified as needing
16 remedial actions. This work is planned to be completed in 2015.

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18 2. Item 2.2 Transformer Initiated Breaker Failure relay protection in Stations
19 Which Do Not Presently have Breaker Failure Protection

20 "A review of all of Hydro's terminal stations in the province without
21 breaker failure protection will be made."

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23 A review of thirty-six terminal stations was completed and twenty require breaker
24 failure protection to be installed. A capital budget proposal has been submitted for
25 2016 to install breaker failure protection at Hinds Lake Generating Station and
26 Howley and Indian River Terminal Stations.