

1 Q. Please explain if it is necessary to have at least one of the 230kV AC transmission
2 lines that cross the Isthmus on the Avalon Peninsula in service to accept delivery of
3 power from the Labrador Island Link?
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6 A. As provided in Hydro's response to PUB-NLH-217, Hydro's Transmission Planning
7 criteria requires that the Labrador-Island HVdc Link (LIL) be fully functional for loss
8 of any single ac transmission component, including the loss of any one 230 kV
9 transmission line. Following project completion the 230 kV network topology on
10 the Island Interconnected System will include three 230 kV transmission lines
11 crossing the Isthmus of Avalon. To this end, normal system analysis would consider
12 the impact of loss of one of these three 230 kV transmission lines on the overall
13 system stability and performance of the LIL. Each single line out contingency would
14 be tested in turn to assess potential impact.
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16 The NERC TPL standards require that utilities assess multiple contingencies and
17 extreme events to assess impact on the Bulk Electric System (BES). While not a
18 member of NERC/NPCC at this time, Hydro will, during its operational studies in
19 preparation for project completion, assess the capabilities of the LIL with fewer
20 than two 230 kV transmission lines traversing the isthmus of Avalon. It is
21 anticipated that these studies will be completed by the end of 2016.