

1 Q. Reference PUB-NLH-279: Please explain whether Hydro takes into account (i) the
2 risk of two concurrent HVDC cable failures (not necessarily both at the same time);
3 (ii) the risk of an electrode line failures; and (iii) the risk of an electrode line
4 conductor failure in its planning of standby and reserve generation resources for LIL
5 and Maritime Link.

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8 A. In its planning of standby and reserve generation resources for LIL and Maritime
9 Link, Hydro takes into account the following, as described:

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11 (i) the risk of two concurrent HVDC cable failures (not necessarily both at the same
12 time);

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14 Hydro takes into account the risk of two concurrent HVDC cable failures (not
15 necessarily both at the same time) as part of the composite system reliability.

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17 Please see the response to PUB-NLH-212, Attachment 2, *Lower*
18 *Churchill Project Reliability & Availability Assessment of The HVdc*
19 *Island Link, SNC-Lavalin, April 10, 2012, Section 3 Composite*
20 *System, page 17 to 22 of 32.*

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22 (ii) the risk of an electrode line failures; and

23 (iii) the risk of an electrode line conductor failure

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25 Hydro does not take into account the risk of electrode line failures or the risk of
26 electrode line conductor failure.

1 From the response to PUB-NLH-212, Attachment 2, *Lower Churchill Project*
2 *Reliability & Availability Assessment of The HVdc Island Link, SNC-Lavalin, April 10,*
3 *2012, Section 3.3 Electrode Lines, page 19 of 32:*

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5 *As mentioned above, the link can still be operated at full power or*
6 *reduced power even for the complete loss of the electrode line at*
7 *either end of the link. As such, the reliability of the electrode line is*
8 *considered to have no significant impact on the composite reliability*
9 *of the link.*

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11 For complete loss of an electrode line please refer to response PUB-NLH-557 for
12 operational precautions for this mode of operation.