

1 Q: Reference: *Review of Newfoundland and Labrador Hydro Power Supply*
2 *Adequacy and Reliability Prior to and Post Muskrat Falls Final Report, Page 43.*

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4 *"It must be recognized that repairing significant OHL damage in extreme weather*
5 *and in the harsh terrain that some of the OHL line is situated will be challenging.*
6 *Recognizing the magnitude of this challenge, it is hard to have confidence that*
7 *two-weeks is the upper limit for repair for an OHL related bi-pole outage. "*

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9 Similarly, the average bipole repair time appears to be quite low and does not
10 reflect the reality of harsh environmental conditions of the Labrador Island
11 Link. Hydro's assumptions are indicated as follows:

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13 *"Number of bipole outages per year 0.22*
14 *Average time to repair bipole outages 24 hours"*

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16 **Did Liberty perform reliability calculations using more representative values of**
17 **bipole repair times during the peak winter season, and if so, what are the**
18 **consequences of such more realistic durations?**

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21 A. Liberty did not perform reliability calculations using different repair times than the
22 average values presented by Hydro.

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24 It should be noted that the average time to repair is based on a long term average, and
25 includes both long term outages (e.g. caused by a tower collapse) and short duration
26 outages (e.g. an outage caused by insulator damage or by pollution, which is resolved
27 by restarting the HVdc scheme at a lower dc voltage).