

1 Q. P 134 of the Submission discusses a two-week anticipated repair interval after an
2 event. Please provide a discussion of the expected duration of a curtailment event
3 in the context of an event in the interconnected island option and isolated island
4 scenario. Are the durations expected to be similar despite the complexity of the
5 LIL?

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8 A. Page 134 of the Submission discusses a two-week repair interval “in the context of
9 the analysis completed in the Technical Note¹ on reliability”², and specifically
10 discusses a specific event – a transmission line structural failure.

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12 Nalcor understands the “complexity of the LIL” to be in the context of the HVdc
13 converters installed on the link. Table 1 in Exhibit 106³ presents the average
14 duration of bipole faults for one converter per pole systems. The average duration
15 of bipole faults for the worst performing system (Square Butte) is 2.27 hours. Based
16 on the performance of HVdc systems globally, Nalcor does not expect converters to
17 contribute to extended outages.

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19 NL Hydro’s previous operational experience is used to support the two-week repair
20 interval⁴, and in either the Isolated Island or Interconnected Island alternative, the
21 event in question involves repairs to steel transmission structures. Nalcor is
22 therefore of the view that the worst-case repair time in either alternative would be
23 very similar.

¹ Exhibit 106

² Nalcor’s Submission, page 134 line 1

³ Exhibit 106, page 16 (Also PUB-Nalcor-165)

⁴ Exhibit 106, page 27