

1 Q. Reference: *Probabilistic Based Transmission Reliability Summary Report*, Appendix
2 A, Page 29 of 56.

3 *“Bipole failure rate and repair time:*

4 *a. Average failure rate: 0.7078/year*

5 *b. Average repair time: 13.49 hours”*

6 Has Teshmont considered when in a year Bipole outages are most likely to occur on
7 the Labrador Island Link? If so, please explain.

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10 A. Teshmont has analyzed the impact of LIL outage expressed in EUE results. The
11 reported EUE results are associated with peak system load conditions (peak winter
12 load conditions). The analysis also included a review of the system’s load duration
13 curve to assess the percentage of the year when there would be an exposure for
14 unserved load.

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16 The analysis therefore did not consider when a bipole outage is most likely to occur,
17 but rather when it would have an impact.

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19 The nature of bipole failures was not reviewed as part of the Teshmont Study.
20 Bipole failures may occur due to failure of converter stations neutral bus
21 equipment, which is common to both poles. The occurrence of such failures would
22 likely not be related to the time of year. Failures may also be attributed to the
23 structural failure of towers. These types of failures would be due to external forces
24 such as extreme icing, which would be limited to colder months; extreme wind; or
25 other forces, which may occur at other times of year.