

1 Q. Reference: Public Utilities Board Muskrat Falls Review, *Manitoba Hydro*
2 *International: Report on Two Generation Expansion Alternatives for the Island*
3 *Interconnected Electrical System*, January 2012, page 61.
4 *“The appropriate design criteria for the proposed Labrador-Island Link HVdc*
5 *transmission line is the “Design Criteria of Overhead transmission Lines” code*
6 *(International Standard CEI/IEC 60826:2003) with Canadian deviations in CSA*
7 *Standard CAN/CSA-C22.3 No. 60826:06.”*
8 For ambient temperatures below 15°C, CSA standard CAN/CSA-C22.3 No 60826
9 requires an air density correction factor to be used in order to account for the
10 higher density of cold air. Was such a factor applied in the design of the Labrador-
11 Island HVdc Link?

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14 A. Nalcor has followed the requirements specified in CSA C22.3 No. 60826 with
15 respect to the “Air Density Correction Factor”. Therefore, Nalcor used the air
16 density correction factor for -5°C in the combined wind and ice case and at -20°C for
17 the maximum wind case in calculating the dynamic reference wind pressure.