

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 Confirm and provide the mathematical calculations that demonstrate the
9 conversion from wind speed to wind pressure on structures and conductors used
10 for the design of the Labrador-Island HVdc Link is compliant with the CSA standard
11 CAN/CSA-C22.3 No 60826.

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14 A. The calculation to convert wind speed to wind pressure is provided in Annex CA.1 of
15 CAN/CSA-C22.3 No. 60826. An example of the application of the calculation is
16 provided in Annex CA.2 of the standard.

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18 The calculation as presented in Annex CA of the standard was used to convert wind
19 speed to pressure acting on Labrador-Island Transmission Link structures and
20 conductors.