

1 Q. Reference: Public Utilities Board Muskrat Falls Review, Nalcor Exhibit 92, DC1070
2 *Preliminary Meteorological Load Review*, page 7-1.

3 *“Due to a lack of statistical data, the meteorological regional loads contain*
4 *uncertainty.”*

5 Given the uncertainty of predicting ice accretion in areas severely exposed to
6 incloud/rime ice and glaze ice, particularly for high return periods, does
7 Nalcor/Hydro agree that, at best, the predicted icing values represent average
8 expected loads for the selected return period of loads and that the range of icing
9 loads for a 1:500 year return period can easily fall within a range of $\pm 20\%$ or more
10 for a 90% confidence interval? Please fully explain the response.

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13 A. The determination of meteorological loadings for extended return period is based
14 on statistical modelling, as the industry has not accumulated the necessary period
15 of operational experience to draw conclusions on the return period of
16 meteorological events for extended periods.

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18 The calculations for adjusting reference ice loadings and return periods other than
19 50 years are discussed in CAN/CSA C22.3 No. 60826.