

1 Q. Reference: Public Utilities Board Muskrat Falls Review, Nalcor Exhibit 92, DC1070
2 *Preliminary Meteorological Load Review*, Appendix D, page D-2.
3 *“Topographical effects should be added to the basic meteorological loads taking*
4 *into account statistical variations within each climatic region, which is individually*
5 *determined from general climate and geographical features.”*

6 Please describe in detail how topographical effects were added to the basic
7 meteorological loads in the design of the various components of the Labrador-
8 Island HVdc Link, including the transmission structures. If such effects were not
9 added, please explain why they were not.

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12 A. Topographical effects were added to basic meteorological loads using the
13 applicable spatial factor of 1.3 for glaze ice loading in accordance with CAN/CSA
14 C22.3 No. 60826.

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16 In accordance with CAN/CSA C22.3 No. 60826, no spatial factor was applied for
17 wind loading.

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19 As the design loadings for rime ice are not addressed by the CSA standard,
20 maximum rime design ice loading values were developed upon review of loading
21 data from the Long Range Mountain test site and in consultation with transmission
22 operators with operating experience in areas of rime ice accretion.