

- 1 **Q. (Reference CA-NP-050) It is stated “In 2023, Newfoundland Power introduced**
 2 **a new transmission load case that examines maximum icing conditions under**
 3 **a 40% maximum wind load. This additional load case is being implemented to**
 4 **help mitigate the impact of significant weather events caused by climate**
 5 **change.”**
 6 **a) Has this load case received Board approval? Is it part of NP’s asset**
 7 **management program review?**
 8 **b) What are the expected consequences for customers in terms of cost?**
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- 10 **A.** a) Newfoundland Power designs and constructs new transmission lines to comply with
 11 *CSA Standard C22.3 No. 1:20 – Overhead Systems*. The referenced load case is
 12 included in CSA Standard C22.3 No. 1:20.¹ Newfoundland Power did not seek
 13 approval for the inclusion of this specific load case in its design criteria as the
 14 Company is expected to ensure safe and adequate facilities that conform to
 15 accepted engineering standards.²
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- 17 b) Based on the Company’s experience, it is not expected that the inclusion of this load
 18 case will have significant cost impacts to customers. For example, using this load
 19 case in the design of Transmission Line 94L resulted in it being the governing case
 20 for only five of 281 structures, none of which required the use of stronger pole
 21 classes or components to withstand those loads. The addition of this load case did
 22 not result in any cost increase to the project.

¹ This load case was included in Newfoundland Power’s design criteria in response to the expected increase in severe weather events caused by climate change. Including this specific load case ensures the Company’s transmission lines are designed to withstand harsh weather situations that include a buildup of significant amounts of ice on transmission line conductor with simultaneous windy conditions.

² See the *Public Utilities Act*, RSNL 1990, c. P-47, section 37(1).