

1 **Q. (Reference Application, 3.1 Gander-Twillingate Transmission System Planning**
2 **Study, page 8) It is stated "Transmission Line 108L was not designed to meet**
3 **current standards for the design of overhead lines." What percentage of lines**
4 **on NP's system do not meet current standards?**
5

6 A. Newfoundland Power owns and operates 111 transmission lines which span
7 approximately 2,000 kilometres across its service territory.
8

9 Newfoundland Power does not have a current listing of the number of transmission lines
10 which do not meet current standards. While these transmission lines are inspected
11 annually in accordance with the Company's *Transmission Line Inspection and*
12 *Maintenance Practices* to identify deteriorated and deficient equipment, they are not
13 regularly assessed to determine if the line as a whole meets current construction
14 standards.
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16 As a part of Newfoundland Power's *2006 Capital Budget Application*, the Company filed
17 its *Transmission Line Rebuild Strategy* (the "Strategy") which identified the oldest and
18 most deteriorated lines on its transmission system. The majority of the lines identified in
19 the Strategy were built in the 1940s, 50s and 60s, at a time where there was limited
20 transmission design experience in any of the utilities which later amalgamated to form
21 Newfoundland Power. As such, there was little consistency in the design of transmission
22 lines, and many of the lines constructed in this era were not designed to any particular
23 standard. As of the end of 2024, there will be six substandard transmission lines
24 remaining to be rebuilt as a part of the Strategy.
25

26 Newfoundland Power currently adheres to the Canadian Standards Association ("CSA")
27 standards and guidelines outlined in *CSA Standard C22.3 - Overhead Systems* when
28 designing and maintaining its transmission system.