

1 **Q. Reference: “2020 Capital Budget Application,” Newfoundland Power, July 5, 2019,**
2 **Report 3.1 “2020 Transmission Line Rebuild,” sec. 2.3, at p. 3.**
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4 **The line was also built without armour rods on the conductor at points where they**
5 **are clamped on insulators. Newfoundland Power’s standard is to use armour rods**
6 **on conductor at all of the connections that produce mechanical stress on the**
7 **conductor. Armour rods protect the conductor from conductor fatigue caused by**
8 **aeolian vibrations. Transmission line 49L was constructed using older vintage**
9 **porcelain suspension insulators, which have been known to form hairline cracks**
10 **over time.**

11
12 **Has Newfoundland Power experienced any outages due to aeolian vibration-related**
13 **failures on 49L? If so, please provide the dates and durations of these outages.**

14
15 **A.** No, Newfoundland Power has not experienced any outages due to aeolian vibration-
16 related failures on 49L.

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18 For an explanation of Newfoundland Power’s *proactive* approach to rebuilding aged and
19 deteriorated transmission lines, please see the response to Request for Information
20 NLH-NP-006.