

1 Q. **Reference: 2024 Capital Budget Application (Revision 1), Project 13, Replace Power Line**
2 **Carrier (2024-2025), page i, lines 22 to 24.**

3 Hydro recommends the like-for-like replacement of the proposed PLC system.
4 There are no viable alternatives for communications in the affected service area
5 and the increasing risk of failure associated with deferral is not acceptable once
6 the useful service life has been exceeded.

7 Has Hydro considered whether satellite communications may be a viable alternative for
8 replacing its powerline carrier system? If so, please explain why it is not a viable alternative. If
9 not, why not?

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12 A. Newfoundland and Labrador Hydro (“Hydro”) did not consider satellite communications as a
13 viable alternative in this proposal as it does not meet the technical requirements for Hydro’s
14 teleprotection systems. Teleprotection is critical to the operation of the electrical grid, and the
15 existing (and proposed) powerline carrier systems owned by Hydro meet Hydro’s strict latency
16 performance requirements for teleprotection, while satellite communications systems do not.
17 These performance requirements are based on industry practice.