

1 Q. Further to the response to PUB-NLH-059:

2 a) Is Hydro using an OPGW solution to provide primary connectivity for critical remote  
3 monitoring, control, and tele-protection systems elsewhere on the Island  
4 Interconnected AC System?

5 b) Has moving to OPGW on transmission structures for both power supply and critical  
6 remote monitoring, control, and tele-protection systems changed the risk profile for the  
7 Island Interconnected AC System? If yes, how does Hydro plan to address this issue?

8 c) In Hydro's 2025 Capital Budget Application under *Replace Interconnect Microwave*  
9 *Radios (2025)* it is stated on page 1 that Hydro "operates and maintains a private  
10 telecommunications transport system which provides critical connectivity to terminal  
11 stations and generating stations." The proposed project represents a shift from that  
12 standalone system. Why has Hydro changed its approach to its telecommunications  
13 transport system?

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16 A. a) Newfoundland and Labrador Hydro ("Hydro") currently uses a combination of microwave  
17 radio, optical ground wire ("OPGW") and dielectric fibre optic cable ("DFOC") fibre on wood  
18 poles to provide primary connectivity to sites on the Island Interconnected Alternating  
19 Current ("AC") System.

20 b) No, moving to OPGW on transmission structures has not changed the risk profile for the  
21 Island Interconnected AC System, as a fault of the interconnected radio system will have the  
22 same impact as a fault to the OPGW. For further information, please refer to Hydro's  
23 response to part a) of PUB-NLH-059 of this proceeding.

24 c) Hydro has not changed its approach to its telecommunications transport system, as the  
25 proposed project does not shift from a standalone system. The proposed system will use

- 1 dark fibres<sup>1</sup> and electronics independent of Labrador-Island Link (“LIL”) communication
- 2 systems to create a standalone fibre link over the LIL OPGW.

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<sup>1</sup> A fibre cable is composed of multiple pairs of fibres. Any fibres not currently in use are known as dark fibres.