

1 Q. Reference: Study, Appendix B, Section 2.1, page 3, lines 20-25

2 Preamble:

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4 *"- Two, 230 kV transmission lines from Churchill Falls to Wabush, a distance of*  
5 *217 km;*

6 *- each transmission line consists of steel structures with a single 636 kcmil,*  
7 *26/7, ACSR "GROSBEAK" conductor per phase; and*

8 *- each transmission line has thermal limits of 439 A @ 30°C, 650 A @ 15oC, and*  
9 *934 A @ -15°C ambient based upon a 50°C conductor temperature."*

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11 Has NLH considered the option to upgrade only the Twin Falls to Wabush Terminal Station  
12 conductors? Please indicate cost and the transmission limit of this option.

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15 A. Newfoundland and Labrador Hydro ("Hydro") only considered increasing the operating  
16 temperature of the existing conductor to increase current carrying capacity, with  
17 appropriate modifications where the increased sag would cause a ground clearance  
18 violation. Replacing the existing Grosbeak conductor with Hydro's next larger size (795  
19 kcmil Drake) would have structural ramifications across the transmission line that would  
20 exceed the proposed cost of \$7.9 million to increase the capacity of the existing conductor.  
21 Therefore, Hydro has not calculated this option.