

1 Q. **Re: Labrador Expansion Study, pp. 26-27 (pdf)**

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3 Citation:

4 A load flow analysis was performed to assess the network of 46 kV
5 transmission lines that supply Hydro Rural customers in Labrador City and
6 Wabush. ...

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8 The results of the analysis indicate that transmission lines overloads exist
9 in peak load conditions. To prevent the thermal overloading in the baseline
10 forecast condition, the reconductoring of 46 kV transmission lines L32, L33,
11 and L40 is required. The capital cost associated with this work is estimated
12 to be approximately \$1.4 million. This work will ensure sufficient capacity
13 to meet peak load conditions for the 25-year study period.

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15 To prevent overload conditions in the sensitivity forecast condition, the
16 reconductoring noted above, as well as that of L36, is required. The capital
17 cost associated with this work is estimated to be approximately \$1.8
18 million. This work will ensure sufficient capacity to meet peak load
19 conditions for the 25- year study period.

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21 a) Please indicate for how many hours per year these overload conditions are
22 experienced.

23 b) Please indicate for how many hours per year these overload conditions would
24 be experienced, if all existing and future data centre loads were curtailed during
25 the peak 300 hours.

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27 A. Questions relating to the “Labrador Interconnection System Transmission Expansion
28 Study” and the “Network Additions Policy,” filed by Newfoundland and Labrador

2018 Capital Budget Application – Muskrat Falls to Happy Valley Interconnection Project

1 Hydro on October 31, 2018 and December 14, 2018 respectively, are not relevant
2 for this proceeding. The Board of Commissioners of Public Utilities has indicated by
3 letter dated November 20, 2018 and email dated December 20, 2018, both of which
4 were received by all intervenors, that a separate process will be established in
5 relation to those two filings.