

- 1 Q. Please confirm the amount of non-firm power now available.
- 2 a) Does the 50 MW include the 10MW of power provided to IOC and Tacora?
- 3 b) Is this 10 MW being sold as firm power to IOC and Tacora?
- 4 c) At what price is the 10MW of power being sold to IOC and Tacora? Will it be sold at the
- 5 non-firm rate if approved by the PUB? If not, please provide details on how the price
- 6 will be calculated.
- 7 d) How was the 50 MW of power availability determined? What is the methodology and
- 8 how much redundancy built in?

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- 10
- 11 A. a) No. The 50 MW estimate of available non-firm capacity excludes the interruptible demand
- 12 provided to IOC¹ and Tacora.²
- 13 b) No. There is 5 MW of interruptible demand available to each of IOC and Tacora.
- 14 c) The pricing for non-firm capacity and energy provided to the Labrador Industrial customers
- 15 is in accordance with the Labrador Industrial rate provided in Newfoundland and Labrador
- 16 Hydro's Schedule of Rates, Rules and Regulations.³
- 17 d) The amount of non-firm power that is available on the Labrador West system during the
- 18 spring, summer and fall seasons is 50 MW and in the winter it is 20 MW.

19 The methodology for determining the available capacity uses the following equation for

20 every hourly data point of the Labrador West projected load profile (2027):

21 Hourly Available Capacity = Available Transmission Capacity - [(K * Annual Load

22 Forecast) - 10 MW⁴ - Interruptible Load]

¹ Iron Ore Company of Canada ("IOC").

² Tacora Resources Inc. ("Tacora").

³ "Schedule of Rates, Rules and Regulations," Newfoundland and Labrador Hydro, January 1, 2023, pp. LAB-IND-1-4.

⁴ IOC and Tacora interruptible load entitlement.

1 A negative "Hourly Available Capacity" indicates an interruption. If the number of
2 interruptions is greater than 50 occurrences during each of the winter, spring, summer, or
3 fall periods, the size of the interruptible load is considered unacceptable and is reduced.
4 Therefore, the equation is a negative value less than 50 times for all hourly load data in the
5 spring, summer, and fall periods when the "Interruptible Load" is set to 50 MW and less
6 than 50 times for all hourly load data in the winter period when the "Interruptible Load" is
7 set to 20 MW.

8 The parameters in the equation are defined as follows:

- 9 ● **Available Transmission Capacity:** The thermal ratings of the 230 kV transmission
10 lines L23 and L24 (Churchill Falls to the Wabush Terminal Station) limits the amount
11 of available transmission capacity to Labrador West. These limits are 385 MW in
12 winter, spring, and fall months and 310 MW in summer months.
- 13 ● **Annual Load Forecast:** This is the annual load forecast for Labrador West. The
14 forecast is scaled by a factor of 'K' using historical hourly variations.
- 15 ● **Interruptible Load:** This is a fixed load with the target of not being interrupted more
16 than 50 times during the winter, spring, summer, or fall seasons.