

1 Q. **Reference Application Rev. 1, Volume 2, Overhaul Diesel Units**

2 a. With the significant increase in the cost of parts for diesel units (page 4), is Hydro re-
3 evaluating alternatives for supply to its isolated systems including connection to the grid,
4 the addition of renewable generation and increased energy efficiency and demand
5 management options?

6 b. What is the probability that this project will become stranded before the useful life of diesel
7 units is reached?

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10 A.

11 a. Please refer to Newfoundland and Labrador Hydro's ("Hydro") responses to CA-NLH-069 and
12 CA-NLH-070 of this proceeding.

13 b. It is unlikely that the genset overhauls scheduled for 2021 will become stranded before the
14 useful life of the overhaul is reached. The useful life of an overhaul is 20,000 hours for 1,800
15 rpm gensets, and 30,000 hours for a 1,200 rpm genset. For an overhaul to be considered
16 stranded, the genset would have to be replaced before its next scheduled overhaul which
17 typically only occurs if that genset is being replaced with a larger unit to increase the firm
18 capacity of the system. Table 1 shows the next scheduled overhaul beyond 2021

Table 1: Overhaul Schedule for Diesel Units

Unit ID	Year of Next Overhaul
Grey River 2067	2025 (replacement)
Black Tickle 582	2026
Mary's Harbor 2090	2030
Cartwright 2086	2027
Rigolet 2081	2025
Hopedale 2054	2032 (replacement)

19 Based on Hydro's Long-Term Labrador Isolated Load Forecast – Spring 2019, no system
20 containing the units listed in Table 1 are expected to require additional firm capacity before
21 the next scheduled overhaul of these units.