

1 Q. **Reference: PUB-NLH-048**

2 Further to the response to PUB-NLH-048, has Hydro completed or participated in a survey or
3 review of the practices of Canadian utilities on the criteria for the overhaul of diesel units or has
4 there been verbal discussion only? If a survey or report on Canadian utility practices has been
5 completed, please provide it.

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8 A. In 2007, Newfoundland and Labrador Hydro (“Hydro”) conducted a survey of Canadian utilities
9 that operate isolated diesel systems.^{1,2} Table 1 summarizes the information received from the
10 surveyed utilities regarding their diesel engine overhaul programs, in response to the following
11 questions:

- 12 a) After how many operating hours does your utility overhaul its 1,200 rpm units?
13 b) After how many operating hours does your utility overhaul its 1,800 rpm units?

¹ The survey was sent to six Canadian utilities that have isolated operations, and five utilities provided responses.

² No formal surveys have been completed in recent years; based on verbal discussions, the majority of the information in the 2007 survey remains accurate.

Table 1: Diesel Engine Overhaul Criteria

Diesel Engine Overhaul Program	
Newfoundland and Labrador Hydro	Overhauls for 1,200 rpm units: 20,000–25,000 hours Overhauls for 1,800 rpm units: 20,000 hours
Utility 2	Overhauls for 1,200 rpm units: 28,000 hours Overhauls for 1,800 rpm units: 15,000 hours
Utility 3	Overhauls for 1,200 rpm units: 42,000 hours Overhauls for 1,800 rpm units: 20,000 hours
Utility 4	Overhauls for 1,200 rpm units: 15,000–20,000 hours (minor overhaul) 30,000–44,000 hours (major overhaul) Overhauls for 1,800 rpm units: 8,000 hours (minor) 16,000 hours (major)
Utility 5	Overhauls for 1,200 rpm units: 10,000 hours (top end) 30,000 hours (full overhaul) Overhauls for 1,800 rpm units: Per fuel burnt
Utility 2	Overhauls for 1,200 rpm units: 25,000–30,000 hours Overhauls for 1,800 rpm units: Cheaper to replace unit at 25,000–30,000 hours instead of doing a major overhaul