

1 Q. **Reference: Application Volume 2, Install Fire Protection in Diesel Plants (2022-2023) - Ramea**

2 Please provide a table identifying each fire at a diesel plant in the past 20 years and showing the
3 costs of remediation. Further, please identify each diesel plant included in the fire protection
4 program and the associated costs to install the equipment.

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7 A. Table 1 identifies the diesel generating station fires that Newfoundland and Labrador Hydro
8 (“Hydro”) has experienced over the last 20 years and their associated remediation costs. The
9 diesel plants included in Hydro’s fire protection program and their associated costs are
10 identified in Table 2. It is Hydro’s view that the \$1.9 million associated with the installation of
11 the Ramea Diesel Generating Station fire suppression system is appropriately justified when
12 considering the current day replacement cost of the plant is estimated to be approximately \$15
13 million.

Table 1: Diesel Plant Fires Experienced in the Last 20 Years

Fire Location	Year	Remediation Cost (\$)	Notes
Charlottetown	2019	1,232,238	Temporary measures to supply power until new plant is built, includes purchase of Unit 2102 from the Lower Churchill Project.
Black Tickle	2012	1,521,400 ¹	Plant remediation from fire damage.
Nain	2008	3,422,000 ²	Plant remediation and a new genset purchase to replace Unit 575.
Rencontre East	2002	3,337,000	Cost to interconnect to the Island Interconnected System, which was determined to be the least-cost alternative. Plant replacement was also considered at the time and was estimated to be \$1.7 million.

¹ Gross cost. Insurance proceeds of \$104,300 were received.

² Gross cost. Insurance proceeds of \$840,000 were received.

Table 2: Diesel Plants with Fire Protection Installed through Diesel Plant Fire Protection Program

Location	Year	Cost (\$)
Hopedale	2015	716,872 ³
L'Anse-au-Loup	2016	1,163,764
Cartwright	2017	1,198,963
Nain	2017	1,955,714
Postville	2020	836,439
Makkovik	2021	567,575 ⁴

- 1 Fire suppression system costs vary widely based on the volume of plant area which the fire
- 2 suppression system is required to protect. Larger diesel generating stations such as Nain and
- 3 Ramea require more nitrogen cylinders and associated materials to properly protect the space.

³ Estimated cost. The fire suppression system scope was part of a larger project.

⁴ Contract award value. Project not closed.