

1 Q. Hydro’s correspondence dated October 5, 2023, Attachment 1, Midgard Consulting Inc’s Report,
2 pages 31-34 of 74.

3 a) Why is the retrofit scheduled for 2026 in the replacement of the Charlottetown DGS
4 alternative (Option 2) whereas it is scheduled for 2028 in Options 6 and 7?

5 b) Please explain why an additional external building is required to house the fire suppression
6 system in St. Lewis. Please provide the analysis and/or schematics.

7 c) Were other alternatives considered (e.g., building extension, etc.)? If so, please identify
8 them and the reason(s) for not implementing them. If not, please explain.

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11 A. a) The dates provided in Table 13 of Midgard Consulting Inc.’s (“Midgard”) report were
12 incorrect.¹ The correct schedules for installation of fire suppression for each site are
13 outlined in Section 4 of the Summary of Technical Note RP-TN-089.² Midgard reran the
14 analysis with fire suppression per the correct schedules outlined in Summary of Technical
15 Note RP-TN-089 with no material impact on the results. Detailed analysis of this scenario
16 including sensitivity analysis is included in Midgard’s report “Analysis of Additional Southern
17 Labrador Scenarios Requested Through Information Requests NP-NLH-093 and
18 PUB-NLH-099,” provided as Attachment 1 of Hydro’s response to PUB-NLH-097 of this
19 proceeding.

20 b) Historically, when adequate space is unavailable in a diesel generating station and the
21 overall site layout permits, Hydro has installed small pre-engineered storage buildings
22 adjacent to an engine hall to house suppression system equipment. This is considered less
23 disruptive to the active operation of a diesel generating station than expansion. In ideal

¹ “Newfoundland and Labrador Hydro – 2021 Capital Budget Supplemental Application Approval of the Construction of Hydro’s Long-term Supply Plan for Southern Labrador – Revision 1 – Safe and Reliable Power Supply for Charlottetown – Reply,” Newfoundland and Labrador Hydro, October 5, 2023, att. 1, p. 31 of 74, Table 13.

² “Newfoundland and Labrador Hydro – 2021 Capital Budget Supplemental Application Approval of the Construction of Hydro’s Long-term Supply Plan for Southern Labrador – Revision 1 – Safe and Reliable Power Supply for Charlottetown – Reply,” Newfoundland and Labrador Hydro, October 5, 2023, att. 2, sec. 4, pp. 10–15 of 25.

1 scenarios, the costs are generally similar to an extension, with the small storage building
2 often being the more economical option.

3 In St. Lewis, any remaining interior diesel generating station space is already allocated and
4 the site layout allows for a small pre-engineered building to be installed adjacent to the
5 engine hall. Since no other major building renovations were planned for St. Lewis, as
6 outlined in part a) of Hydro's response to PUB-NLH-100 of this proceeding, the storage
7 building was the chosen alternative.

8 As outlined in part a) of Hydro's response to PUB-NLH-100 of this proceeding, there are
9 significant site and building extensions and interior modifications required for both the Port
10 Hope Simpson and Mary's Harbour Diesel Generating Stations and the site layout is limited.
11 As a result, the decision was made to include fire suppression storage as part of a building
12 extension. This would provide a more efficient and economical solution while considering
13 operations of these sites.

14 **c)** As outlined in part b) of Hydro's response to PUB-NLH-098 of this proceeding, both an
15 auxiliary building and a building extension were considered in St. Lewis; each was deemed
16 feasible, with the auxiliary building being the chosen alternative.