

1 Q. **Reference: Midgard Consulting March 28, 2023 Report - Southern Labrador Communities –**
2 **Integrated Resource Plan**

3 Did Hydro consider assigning a forced outage rate (“FOR”) for the mobile generators rather than
4 assuming that they would be unavailable 100% of the time? If so, please detail the reasons for
5 not assigning a FOR within the analyses. If not, please explain.

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8 A. Newfoundland and Labrador Hydro (“Hydro”) did not consider assigning a forced outage rate
9 (“FOR”) for mobile generation used in its isolated systems. Hydro, along with other utilities who
10 operate isolated diesel power systems across Canada, ensure adequate capacity by maintaining
11 their firm capacity criteria. Statistical analysis using FORs is used when planning generation
12 capacity for bulk power systems that have a large number of generation assets. Statistical
13 analysis of this nature is not appropriate for small, isolated systems with a limited sample of
14 generation resources on each system. Due to the small sample size, if any individual generation
15 asset performed worse than its historical FOR, it could have a significant impact on the overall
16 outage rate of the full system. This would not be the case when analyzing a system with a large
17 number of generation assets.