

- 1 Q. Table 2, page 4, shows that the N-2 capacity deficit as being 177 kW in the winter of 2027 and
2 242 kW in the summer of that same year.
- 3 a) Why is Hydro proposing an 1825 kW capacity diesel genset to accommodate a 242 kW
4 capacity deficit?
- 5 b) Alternatives 3 and 4 cite long delivery times associated with the purchase or rental of a
6 1000-2000 kW diesel genset as being a reason for not pursuing those options. Would a
7 smaller genset unit (e.g., 300-400 kW) be subject to the same delivery issues/timelines?
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- 10 A. a) Newfoundland and Labrador Hydro ("Hydro") is proposing a 1,825 kW genset for two
11 primary reasons. The 1,825 kW genset is readily available for purchase from the Lower
12 Churchill Project and is the least-cost option. Its availability allows Hydro to procure a
13 mobile genset much faster than renting or purchasing a genset from a supplier. This genset
14 will allow for the operation of a single unit during the summer peak season instead of
15 multiple smaller units resulting in a reduction in overall operating hours and providing
16 overhaul and fuel cost savings of approximately \$500,000 over the next four years.
17 Additionally, the larger genset is better suited for installation in other diesel systems as
18 backup generation to support maintenance work and other capital projects.
- 19 b) Yes, smaller gensets are subject to the same delivery issues and timelines as the larger units.
20 Suppliers have indicated limited availability of suitable rental units.