| 1 2 | Q. | (Refe capa | (Reference NLH-NP-020 and NLH-NP-021) Regarding the marginal energy and capacity costs for 2022 to 2041: | |
|----------|----|---------------|---|--|
| 3 | | a) | Does Newfoundland Power agree that the figures show a high variability | |
| 4 | | | across a one-year period? | |
| 5 6 | | b) | Does Newfoundland Power believe that the change in marginal cost from non- winter to winter peak within any one year is a result of inflation? | |
| 7 | | c) | If Hydro, or any generator, faced such persistently high winter marginal | |
| 8 9 | | | capacity costs, wouldn't those high costs provide an incentive for it to invest in additional generation? How would a significant addition to generating | |
| 10 | | | canacity affect marginal canacity cost assuming no corresponding increase in | |
| 11 | | | peak demand? | |
| 12 | | | | |
| 13 14 | A. | a) | Newfoundland Power observes that marginal energy and capacity costs vary | |
| 14 15 | | | in winter periods compared to non-winter periods in a winter peaking region ¹ | |
| 16 | | | In which periods compared to non-which periods in a which peaking region. | |
| 17 | | b) | No. Differences in marginal costs in a year reflect different marginal costs in | |
| 18 | | , | winter periods versus non-winter periods. | |
| 19 | | | · · · | |
| 20 | | c) | Marginal capacity costs reflect the least-cost source of additional generation | |
| 21 | | | capacity on the Island Interconnected System. ² High marginal capacity costs do | |
| 22 | | | not provide an incentive for Hydro, or any other entity, to invest in additional | |
| 23 | | | generation on the Island Interconnected System. ³ | |
| 24 25 | | | | |
| 25 | | | High marginal capacity costs provide an incentive to avoid or deter capacity | |
| 20 27 | | | additions on the Island Interconnected System, where possible. This includes by | |
| 28 | | | Plant. ⁴ | |
| | | | | |

¹ See Newfoundland Power's 2022 Capital Budget Application, Report 1.2 Sandy Brook Plant Penstock Replacement, Appendix A – Sandy Brook Plant Economic Evaluation, page A-11.

² Hydro indicates on page 45 of its *Reliability and Resource Adequacy Study – 2019 Update, Volume III Long Term Resource Plan,* November 15, 2019, that an additional turbine in Bay d'Espoir (Unit 8), with a capacity of 154 MW, is being selected by its model as the least-cost option for generation capacity on the Island Interconnected System.

³ Section 14.1 of the *Electrical Power Control Act, 1994* provides Hydro with the exclusive right to supply, distribute and sell electrical power or energy to a retailer or an industrial customer on the island portion of the province of Newfoundland and Labrador. Hydro's exclusive right does not apply to generation facilities used by a retailer or industrial customer exclusively in emergency circumstances.

⁴ Newfoundland Power completed an economic analysis to determine whether continued operation of the Sandy Brook Plant, including penstock replacement, is least-cost for customers. The analysis showed that the value of production from the Sandy Brook Plant is approximately 3 to 4 times the cost of production from the plant. See the 2022 Capital Budget Application, Report 1.2 Sandy Brook Penstock Replacement, Appendix A – Sandy Brook Plant Economic Evaluation. See also response to Request for Information NLH-NP-018.

1A significant addition to generating capacity on the Island Interconnected System2would be costly for customers.⁵ A significant addition to generation capacity3without a demonstrable need for the additional generation capacity would be4inconsistent with the *Electrical Power Control Act, 1994* and would not be5justified.⁶

⁵ For example, the estimated capital cost of Bay d'Espoir Unit 8, with a capacity of 154 MW, is \$373 million. See Hydro's *Reliability and Resource Adequacy Study, Volume III: Long-Term Resource Plan*, November 16, 2018, page 43.

⁶ Section 3(b) of the *Electrical Power Control Act, 1994* requires, among other provisions, that all sources and facilities for production, transmission and distribution of power in the province should be managed and operated in a manner that would result in: (i) the most efficient production, transmission and distribution of power; and (ii) power being delivered to consumers in the province at the lowest possible cost consistent with reliable service.