

1 Q. **Reference: CA-NLH-009 and CA-NLH-010**

2 a) Do the amounts in 2021 and 2022 (through mid-year) reflect the maximum amounts
3 achievable over the Labrador-Island Link during this period? If not, why not?

4 b) What is the level of output at Holyrood if called upon to operate at minimum loading levels
5 from now through year-end 2023? Please show output levels for 2022 and 2023 under this
6 scenario.

7 c) Were imports over the Maritime Link available to offset any production at Holyrood in 2021
8 and 2022?

9 d) What is the forecast production from Holyrood through year-end 2022, 2023 and 2024
10 under expected conditions, and under a scenario where the Labrador-Island Link continues
11 to have limited availability similar to that over the past year?

12 e) What is the total cost of production at Holyrood if required to operate at minimum
13 production levels in 2022 and 2023?

14 f) What is the total expected cost of production at Holyrood in 2023 if required to operate at
15 2021 levels?

16 g) Please confirm that Table 1 in CA-NLH-010 shows figures for 2023 and 2024.

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19 A. a) Yes, the figures stated in Newfoundland and Labrador Hydro's ("Hydro") response to
20 CA-NLH-009 of this proceeding reflect the maximum amounts that could be delivered over
21 the Labrador-Island Link ("LIL") in consideration of system conditions and the status of the
22 commissioning of the Lower Churchill Project.

23 b) The minimum level of output at the Holyrood Thermal Generating Station ("Holyrood TGS")
24 if called upon to operate from now through year-end 2023 is 70 MW per unit. The amount
25 of generation that will be required is dependent upon LIL operating levels during the winter
26 period. Table 1 provides the estimated potential production for winter 2022–2023.

Table 1: Estimated Holyrood TGS Production for Winter 2022–2023

Month	No. of Units	Monthly Production (GWh)
Oct 2022	0.5	26.0
Nov 2022	1	50.4
Dec 2022	2	104.2
Jan 2023	2	104.2
Feb 2023	2	94.1
Mar 2023	1	52.1
Apr 2023	0	0.0
May 2023	0	0.0
Jun 2023	0	0.0
Jul 2023	0	0.0
Aug 2023	0	0.0
Sep 2023	0	0.0
Oct 2023	0.5	26.0
Nov 2023	1	50.4
Dec 2023	2	104.2

1 **c)** Imports over the Maritime Link have been available to offset some production at the
2 Holyrood TGS in 2021 and 2022. Sourcing imports over the Maritime Link to offset
3 production at the Holyrood TGS only occur if thermal generation is required above
4 minimum¹ to meet system requirements, Maritime Link imports are available and economic,
5 and the LIL is not in operation. Imports over the Maritime Link were used to offset thermal
6 production off minimum at the Holyrood TGS in 2021 only, as the above conditions did not
7 occur in 2022. Imports over the Maritime Link used to offset thermal generation are
8 reported monthly in Section 4.0 of Hydro’s Monthly Energy Supply reports.

9 **d)** Table 2 provides forecast production from the Holyrood TGS through year-end 2022, 2023
10 and 2024. As the amount of generation that will be required is dependent upon LIL
11 operating levels during the winter period, Hydro’s conservative expected condition is based
12 on continued limited LIL availability. If the LIL were not available in any capacity during the

¹ Once online, the Holyrood TGS units have to generate at a required minimum. Therefore, Maritime Link imports can only be sourced to reduce thermal generation above minimum, not below minimum. The Holyrood TGS units are typically required to generate above minimum during peak periods on high load days during the winter period.

1 winter period, Hydro expects that all three units at the Holyrood TGS would be online at
2 minimum loading; increasing off minimum as necessary to support load.

Table 2: Estimated Holyrood TGS Production (GWh)²

Period	Production (GWh)
Oct to Dec 2022	180.6
2023	430.9
2024	345.5

3 **e)** The total cost of production at the Holyrood TGS if required to operate at minimum
4 production levels for the remainder of 2022 and 2023 is approximately \$156.4 million. This
5 total is based on the estimated production provided in part b).

6 **f)** If the Holyrood TGS is expected to operate in 2023 with an equivalent output of 710.6 GWh
7 as was produced in 2021, the total expected cost would be approximately \$183.0 million,
8 based on a price per barrel of \$150.16.

9 **g)** Hydro confirms the heading of Table 1 contained within its response to CA-NLH-010 of this
10 proceeding should read 2023 and 2024, not 2003 and 2004, as the information contained
11 within reflects proposed capital expenditures for 2023 and 2024. Revision 1 of Hydro’s
12 response to CA-NLH-010 of this proceeding has been updated to correct the Table 1 heading
13 to 2023 and 2024, as intended.

² The estimated Holyrood TGS production differs in the years 2023 and 2024 based on the number of units that may be online and the potential for a reduction of the minimum loading requirement in 2024. Assumptions remain dependent on LIL reliability and operation during the winter period.