

1 Q. **Reference: Reliability and Resource Adequacy Study 2022 Update, Volume I, pages 26-28.**

2 Provide the LOLE results corresponding to the LOLH results presented in Tables 3, 4, and 5.

3

4

5 A. The loss of load expectation (“LOLE”) results corresponding to the loss of load hours (“LOLH”)
6 results provided in the “Reliability and Resource Adequacy Study – 2022 Update”¹ are as follows:

**Table 1: LOLE Results – No Generation Capacity Additions through 2030
Holyrood TGS,² Hardwoods Gas Turbine, and Stephenville Gas Turbine Retired**

Scenario	2023	2024	2025	2026	2027	2028	2029	2030
Scenario 1: LIL ³ 900 MW, FOR ⁴ 1%, Base Island/Base Labrador	0.31	0.95	1.00	0.94	0.95	0.95	1.05	1.23
Scenario 2: LIL 675 MW, FOR 5%, Base Island/Base Labrador	1.51	5.08	5.18	4.83	4.90	4.83	5.64	6.57
Scenario 3: LIL 675 MW, FOR 5%, High Island/Base Labrador	1.60	5.06	5.40	4.93	5.14	5.23	6.40	8.14
Scenario 4: LIL 675 MW, FOR 5%, Base Island/High Labrador	1.50	5.03	5.27	4.85	4.95	4.82	5.69	7.94
Scenario 5: LIL 675 MW, FOR 5%, High Island/High Labrador	1.55	4.99	5.41	4.85	5.19	5.40	6.44	9.78
Scenario 6: LIL 675 MW, FOR 10%, Base Island/Base Labrador	3.00	9.90	10.45	9.21	9.39	9.45	10.81	12.50
Scenario 7: LIL 475 MW, FOR 10%, Base Island/Base Labrador	3.48	17.44	17.76	16.55	16.82	17.77	20.69	25.47

¹ "Reliability and Resource Adequacy Study - 2022 Update," Newfoundland and Labrador Hydro, October 3, 2022, vol. I, pp. 26–28.

² Holyrood Thermal Generating Station (“Holyrood TGS”).

³ Labrador-Island Link (“LIL”).

⁴ Forced outage rate (“FOR”).

**Table 2: LOLH Results – No Generation Capacity Additions
Holyrood TGS Extended through 2030**

Scenario	2023	2024	2025	2026	2027	2028	2029	2030
Scenario 1: LIL 900 MW, FOR 1%, Base Island/Base Labrador	0.03	0.07	0.08	0.06	0.05	0.06	0.08	0.10
Scenario 2: LIL 675 MW, FOR 5%, Base Island/Base Labrador	0.15	0.35	0.33	0.29	0.34	0.36	0.40	0.53
Scenario 3: LIL 675 MW, FOR 5%, High Island/Base Labrador	0.15	0.31	0.33	0.34	0.35	0.37	0.49	0.67
Scenario 4: LIL 675 MW, FOR 5%, Base Island/High Labrador	0.14	0.32	0.31	0.30	0.34	0.37	0.39	0.53
Scenario 5: LIL 675 MW, FOR 5%, High Island/High Labrador	0.17	0.35	0.35	0.35	0.36	0.41	0.49	0.69
Scenario 6: LIL 675 MW, FOR 10%, Base Island/Base Labrador	0.28	0.58	0.67	0.66	0.63	0.70	0.77	1.05
Scenario 7: LIL 475 MW, FOR 10%, Base Island/Base Labrador	0.33	0.75	0.74	0.70	0.70	0.84	0.95	1.27

**Table 3: LOLE Results – No Generation Capacity Additions
Holyrood TGS and the Hardwoods Gas Turbine Extended through 2030**

Scenario	2023	2024	2025	2026	2027	2028	2029	2030
Scenario 1: LIL 900 MW, FOR 1%, Base Island/Base Labrador	0.02	0.06	0.05	0.04	0.05	0.06	0.05	0.07
Scenario 2: LIL 675 MW, FOR 5%, Base Island/Base Labrador	0.14	0.24	0.26	0.24	0.22	0.24	0.27	0.40
Scenario 3: LIL 675 MW, FOR 5%, High Island/Base Labrador	0.14	0.23	0.23	0.24	0.25	0.27	0.33	0.52
Scenario 4: LIL 675 MW, FOR 5%, Base Island/High Labrador	0.15	0.21	0.22	0.22	0.23	0.26	0.27	0.40
Scenario 5: LIL 675 MW, FOR 5%, High Island/High Labrador	0.13	0.24	0.22	0.24	0.26	0.30	0.31	0.53
Scenario 6: LIL 675 MW, FOR 10%, Base Island/Base Labrador	0.30	0.46	0.47	0.45	0.40	0.51	0.55	0.76
Scenario 7: LIL 475 MW, FOR 10%, Base Island/Base Labrador	0.30	0.54	0.52	0.50	0.50	0.57	0.66	0.83