

- 1 Q. With respect to the Maritime Link:
- 2 a) Over the period since commissioning, what has been the overall availability of the Maritime
- 3 Link?
- 4 b) Please provide a table showing monthly availability data for the Maritime Link since
- 5 commissioning.
- 6 c) Does the Maritime link provide a useful data point upon which to base the availability
- 7 forecast for the LIL?

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10 A. *This response was provided by Nova Scotia Power Maritime Link Inc.*

- 11 a) Maritime Link availability has generally been strong since going into service in early 2018.
- 12 Monopole availability has been close to 100%, apart from some relatively extended forced
- 13 outage time in the first year of commercial operation—2018. In 2021, both monopole and
- 14 bipole outages were taken to facilitate the planned replacement of transmission line
- 15 components and optimize the subsea cable inspection that year. Since that time, forced
- 16 outages have been minimal resulting in excellent overall performance for both monopole
- 17 and bipole operations.
- 18 b) The actual quarterly availability data for a least one pole in service (Monopole Availability),
- 19 Pole 1 and Pole 2 from 2018 to the end of 2022 is provided in Table 1 to Table 5. These
- 20 availability figures include planned and forced outages. The data is cumulative with the
- 21 annual total visible in the fourth quarter of each year.

**Table 1: Actual Quarterly Availability Data for 2018**

	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
Monopole	78.2%	84.2%	87.0%	90.4%
Pole 1	72.3%	80.6%	83.3%	83.5%
Pole 2	72.7%	78.8%	75.3%	81.0%

**Table 2: Actual Quarterly Availability Data for 2019**

	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
Monopole	100.0%	99.9%	99.9%	99.9%
Pole 1	99.9%	99.9%	94.3%	96.0%
Pole 2	100.0%	99.9%	90.8%	92.3%

**Table 3: Actual Quarterly Availability Data for 2020**

	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
Monopole	100.0%	100.0%	100.0%	100.0%
Pole 1	100.0%	100.0%	96.9%	97.5%
Pole 2	99.9%	99.3%	97.1%	97.1%

**Table 4: Actual Quarterly Availability Data for 2021**

	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
Monopole	100.0%	100.0%	95.6%	96.7%
Pole 1	51.9%	71.0%	71.6%	74.8%
Pole 2	78.0%	77.1%	79.3%	81.7%

**Table 5: Actual Quarterly Availability Data for 2022**

	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
Monopole	100.0%	100.0%	100.0%	99.96%
Pole 1	99.5%	97.8%	97.0%	97.7%
Pole 2	95.6%	95.5%	95.6%	96.3%

- 1           c) Given the challenges associated with the Labrador-Island Link (“LIL”) compared to the  
 2           Maritime Link, as well as the differences in line length, control systems software program,  
 3           terrain, etc., Hydro does not believe the Maritime Link provides a meaningful data point  
 4           upon which to base the availability forecast for the LIL, from both a software and structural  
 5           perspective.