

1 **Q. (Reference CA-NP-090)**

2 **The Reconstruction Program.**

3 **a) Please define "major event". Does NP use the same definition of "major**

4 **event" as NL Hydro and other Canadian utilities?**

5 **b) Please describe the major events and their causes as well as how NP**

6 **responded to the events.**

7 **c) What adjustments have been made in the 2025 CBA to account for these**

8 **major events?**

9
10 A. a) "Major Events" are defined by the "IEEE Guide for Electric Power Distribution
11 Reliability Indices" (1366-2012) as:

12
13 *"An event that exceeds reasonable design and/or operational limits of the electric*

14 *power system. A Major Event includes at least one Major Event Day."*

15
16 The IEEE standard (1366-2012) further defines a Major Event Day (MED) as:

17
18 *"A day in which the daily System Average Interruption Duration Index (SAIDI)*

19 *exceeds a Major Event Day threshold value. For the purposes of calculating daily*

20 *system SAIDI, any interruption that spans multiple calendar days is accrued to the*

21 *day on which the interruption began. Statistically, days having a daily system SAIDI*

22 *greater than TMED are days on which the energy delivery system experienced*

23 *stresses beyond that normally expected (such as during severe weather). Activities*

24 *that occur on Major Event Days should be separately analyzed and reported."*¹

25
26 Newfoundland Power uses the IEEE 2.5β method as described in IEEE standard
27 1366-2012 to determine TMED.

28
29 Newfoundland Power cannot comment on the major event determinations made by
30 other utilities; however, the referenced document was produced by an Electricity
31 Canada task force intended to determine best Canadian utility practice.

32
33 b) Two Major Events were recorded in December 2023.

34
35 On December 18th, heavy rains and high wind conditions affected the entire
36 province. Over 15,000 customer interruptions occurred, totaling approximately 3.7
37 million customer minutes of outage. This included damage to radial transmission line
38 94L on the southern Avalon peninsula, which accounted for over 1.6 million
39 customer minutes of outage. However, transmission repairs are not accounted for in
40 the *Reconstruction* project and, as such, this event was not cited as a major driver of
41 *Reconstruction* expense.

42
43 On December 21st, a winter storm caused major outages in central and western
44 Newfoundland. Winds exceeding 90 kilometres per hour ("kph") and over 60

¹ See Electricity Canada (n.d.). *Major Event Day Determination Reference Guide*. Retrieved October 11, 2024 from https://www.electricity.ca/files/reports/english/MED-Methods_CEA_2015-1.pdf

- 1 centimetres of snow resulted in over 28,000 customer interruptions and almost 5.2
2 million customer minutes of outage.
3
- 4 In addition, there were two weather events in 2023 Q4 that caused heightened
5 trouble on the electrical system but did not meet the above definition for Major
6 Events. These occurrences also resulted in increased *Reconstruction* expenditures.
7
- 8 On November 19th, high winds with gusts exceeding 100 kph were experienced
9 across the island and resulted in outages to over 12,000 customers totaling
10 approximately 2.1 million outage minutes and, on November 28th-29th, wind gusts in
11 excess of 90 kph resulted in over 11,450 customer outages and approximately 1.8
12 million outage minutes.
13
- 14 Newfoundland Power responded to these events using its regular storm preparation
15 and system restoration processes.
16
- 17 c) No adjustments have been made to the *2025 Capital Budget Application* specifically
18 to account for these Major Events. Additional expenditures incurred in the
19 *Reconstruction* program dealing with major event response would affect the
20 historical average of this project and the forecasted requirements moving forward.