1   Q.   **Reference: Teshmont Report - Section 4.3.3 – 230 KV Transmission Lines (pg 16):**

2   *"Based on a total of 59 sustained outages over 23 transmission lines with a total*

3   *length of 1510 km, an average failure frequency of 0.781 outages per 100 km per*

4   *year was calculated. This frequency was then multiplied by the length of each line*

5   *and divided by 100 to determine the average failure rate in outages per year for*

6   *line. This approach was considered valid because five years of data was*

7   *considered insufficient to provide statistically meaningful data for individual lines,*

8   *but it would be meaningful for the entirety of the 230 kV system."*

9   Why were the average failure frequency of 0.781 outages per 100 km per year and

10   an average outage duration of 4.784 hours used instead of other (higher) values?

11

12

13   A.   The average failure frequency of 0.781 outages per 100 km per year and an average

14   outage duration of 4.784 hours were representative of the 230 kV ac transmission

15   line for the five year period.

16

17   Please see Hydro's response to IC-NLH-070 for additional information relating to

18   the accuracy of 230 kV transmission line outage data.