

1 **Reference: "2023 Capital Budget Application," Newfoundland Power Inc., June 29,**
 2 **2022, Schedule B, p. 9, para. 5 (Distribution Reliability Initiative).**
 3

4 **Q. An engineering assessment determined the poor service**
 5 **reliability experienced by these customers is due to equipment**
 6 **failures including corroded or broken conductor, insulator**
 7 **failures, and deteriorated poles.**
 8

9 **What percentage of outages is due to each of the particular causes (broken**
 10 **conductor, insulator failure, and deteriorated poles)?**
 11

12 A. Table 1 provides the percentage of customer minutes and customer interruptions on
 13 distribution feeder SUM-01 by equipment type.

Table 1 SUM-01 Outage Breakdown by Equipment Type		
Equipment Type	Minutes	Interruptions
Support Structure	61%	46%
Line Hardware	21%	21%
Conductors	11%	24%
Protection Equipment	6%	8%
Transformer Equipment	1%	1%
Grand Total	100%	100%

14 Data in this format has only been available since implementation of the Responder
 15 Outage Management System and thus the data in the table only includes outages since
 16 September 2019.