

- 1 **Q. (Reference Application Schedule B, Old Perlican Substation Refurbishment and**
 2 **Modernization, page 73) It is stated “*The Old Perlican Substation***
 3 ***Refurbishment and Modernization project will mitigate risks to the delivery of***
 4 ***reliable service to customers in the Old Perlican, Bay de Verde, and Lower***
 5 ***Island Cove area.”***
- 6 **a) Please confirm that this statement is not based on a quantified analysis of**
 7 **the risk of deferring this project until 2026 relative to carrying out the**
 8 **project in 2024 because NP is unable to quantify risk.**
- 9 **b) Is the risk assessment in Table 2 relevant to this point in time, or 2024 when**
 10 **the project is completed, or some other time frame?**
- 11 **c) The risk assessment in Table 2 indicates that the consequence of failure is**
 12 **“serious (4)”. Has the consequence of failure changed in the past 3 years?**
 13 **Is the consequence of failure likely to change over the next 3 years?**
- 14 **d) The risk assessment in Table 2 indicates that the probability of failure is**
 15 **“likely (4)”. Had the assessment been undertaken 3 years ago would the**
 16 **probability of failure have been ranked “likely”? Three years from now**
 17 **would the probability of failure continue to be ranked “likely” if substation**
 18 **maintenance continues and any failures that arise are addressed under**
 19 **programs designed to address in-service failures?**
- 20 **e) Please provide the number and duration of service interruptions to**
 21 **customers caused by failures at the Old Perlican Substation from 2000 to**
 22 **date.**
- 23
- 24 **A. a) This statement is based on the risk matrix methodology, as outlined in the *2024***
 25 ***Capital Budget Overview*.¹ The risk matrix was used to evaluate the potential**
 26 **consequences of not completing the *Old Perlican Substation Refurbishment and***
 27 ***Modernization* project, and the probability of those consequences occurring if the**
 28 **project did not proceed.**
- 29
- 30 **b) The risk assessment in Table 2 is relevant to the point in time when the condition**
 31 **assessment was completed.**
- 32
- 33 **c) Newfoundland Power does not quantify risk increases year over year. The**
 34 **evaluation of the consequence of failure is based on the Company’s risk assessment**
 35 **methodology. The primary consequence to customers of a failure of Old Perlican**
 36 **Substation was identified to be reliability. Old Perlican Substation serves**
 37 **approximately 1,800 customers.² Based on the criteria outlined in the risk matrix**
 38 **methodology, this results in a consequence value of four (4), or serious. For**
 39 **additional details on the consequence of failure over time, see the response to**
 40 **Request for Information CA-NP-045.**
- 41
- 42 **d) Generally, the probability of failure changes over time.³ The *Substation***
 43 ***Replacements Due to In-Service Failures* program would only address failed**
 44 **equipment or equipment at imminent risk of failure, and would not address all**

¹ See Newfoundland Power’s *2024 Capital Budget Application, 2024 Capital Budget Overview, Appendix C.*

² See Newfoundland Power’s *2024 Capital Budget Application, Schedule B, page 73.*

³ See the response to Request for Information CA-NP-045.

- 1 deteriorated and obsolete equipment identified at Old Perlican Substation.
2 Therefore, the probability of failure would likely continue to be ranked "likely" over
3 time.
4
- 5 e) The date and duration of service interruptions to customers caused by failures at the
6 Old Perlican Substation are shown in Table 1.

Table 1 Old Perlican Substation Equipment Failure Service Interruptions (2000 to 2022)	
Date	Duration (Minutes)
May 11, 2007	36
May 11, 2007	13