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- Q. (Reference PUB-NP-031)
  - It is indicated that while 108L has experienced relatively high SAIFI over the period 2019-2023, its SAIDI has been 0.85. That is well below NP's overall SAIDI value of 1.79 and appears to reflect the available back-up supply.
  - a) Please reconcile this low SAIFI value with the proposition that the transmission line is in imminent need of replacement.
  - b) Please provide the SAIFI and SAIDI values for 108L from 2010 to 2023.
  - c) For the transmission lines given in Table 1, please provide the amount of expenditure on corrective and preventative maintenance on each over the same 10-year period during which the \$262,000 was spent on maintenance expenditure.
  - d) Please provide any documentation of complaints from customers served by 108L related to power interruptions over the past 10 years.
  - a) The T-SAIFI value for Transmission Line 108L, which represents the frequency of service interruptions experienced by customers due to transmission outages on the semi-radial 108L system, is the largest of the 10 systems included in the analysis. This value indicates that transmission outages on 108L result in service interruptions to customers more frequently than transmission outages on other radial systems analyzed in the study. This is a lagging performance indicator that is broadly reflective of the condition of the line. The low T-SAIDI values for the same system reflects the partial backup capabilities that are provided through the 114L/142L system. This allows power to be restored through reconfiguration during certain times of the year, while 108L remains out of service for repairs. As 108L continues to age and deteriorate, there is an increasing likelihood of a failure occurring during loading conditions that would not permit the use of 114L/142L to maintain service to customers.
    - Newfoundland Power has proposed to rebuild Transmission Line 108L as a result of inspections that have identified significant deterioration of the transmission line. By approaching this project in a planned fashion, Newfoundland Power will avoid costly unplanned repairs and mitigate future risk of customer outages. The project is justified based on transmission line condition, not reliability performance.
  - b) The data granularity required to analyze reliability data by radial transmission system was provided by the Outage Management System implemented in 2019. Therefore, Newfoundland Power is not able to provide the requested data prior to 2019.

See Request for Information PUB-NP-031 from Newfoundland Power's 2025 Capital Budget Application for T-SAIFI and T-SAIDI values for Transmission Line 108L.

4 5 c) Table 1 shows the amount of corrective and preventative maintenance expenditures over the same 10-year period for the transmission lines in Request for Information PUB-NP-031, Table 1.

Table 1: Transmission Line Maintenance Expenditures	
Transmission Line	Maintenance Expenditures (\$000s)
95L	1,059
140L	1,360
113L	17
65L	95
358L	606
5L	261
353L	338
110L	27
142L	736
114L	1,113

d) Newfoundland Power does not track complaints from customers relating to transmission reliability and, as a result, cannot provide the requested information.