

- 1 **Q. (Reference Application, 2.1 2025 Substation Refurbishment and**
 2 **Modernization, page 1) With respect to the NWB, SMV and LOK Substations:**
 3 **a) Please confirm that as stated on page 1 the capital proposed to be spent**
 4 **on these substations is for the purposes of reducing the risk posed to their**
 5 **reliable operation.**
 6 **b) Please provide outage statistics for each of these substations in each of**
 7 **the past 10 years.**
 8 **c) Please identify the reduction in the risk to the reliable operation of these**
 9 **substations before and after the proposed capital expenditures.**
- 10
 11 A. a) See the response to Request for Information CA-NP-164.
 12
 13 b) See Table 1 and Table 2 for reliability statistics since 2014.

Table 1: NWB, SMV, LOK Substation Feeders Reliability Statistics (All Events Excluding Loss of Supply)										
SAIDI										
Feeder	2014	2015	2016	2017	2018	2019 ¹	2020	2021	2022	2023
NWB-01	1.80	6.06	0.14	5.03	3.35	5.40	2.20	10.62	1.55	0.94
NWB-02	0.64	6.37	1.91	4.89	6.42	0.75	8.90	5.94	2.75	3.33
SMV-01	0.31	7.04	3.25	7.86	4.31	2.30	17.94	14.86	13.54	12.71
LOK-01	0.26	1.11	0.83	0.98	7.22	0.15	4.26	12.90	2.01	6.90

Table 2: NWB, SMV, LOK Substation Feeders Reliability Statistics (All Events Excluding Loss of Supply)										
SAIFI										
Feeder	2014	2015	2016	2017	2018	2019 ¹	2020	2021	2022	2023
NWB-01	1.24	5.66	0.08	1.06	1.14	0.86	2.23	3.11	1.06	0.32
NWB-02	0.51	5.97	0.56	1.05	2.05	0.44	4.15	1.69	1.55	2.82
SMV-01	0.17	2.43	5.66	4.00	2.48	1.11	16.61	2.64	12.86	8.47
LOK-01	0.26	2.59	4.26	1.49	4.69	0.06	5.49	6.49	4.94	3.56

¹ Reliability data for 2019 may be subject to inaccuracies due to the transition of outage management systems.

1 Reliability indices, as requested in this question, are lagging indicators that
2 encompass historical issues. Waiting for reliability on a substation to degrade before
3 undertaking capital investment would result in poor quality of service being
4 experienced by large numbers of customers. Substation Refurbishment and
5 Modernization projects are not justified based on historical reliability statistics, but on
6 the condition of core infrastructure and equipment.
7

8 c) See Newfoundland Power's *2025 Capital Budget Application*, report *2.1 2025*
9 *Substation Refurbishment and Modernization, Appendix A*, section *3.0 Risk*
10 *Assessment* for a risk assessment of the reliable operation of SMV. This assessment
11 identifies the risk associated with the substation and recommends a solution to
12 mitigate the risk.
13

14 See Newfoundland Power's *2025 Capital Budget Application*, report *2.1 2025*
15 *Substation Refurbishment and Modernization, Appendix B*, section *3.0 Risk*
16 *Assessment* for a risk assessment of the reliable operation of NWB. This assessment
17 identifies the risk associated with the substation and recommends a solution to
18 mitigate the risk.
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20 See Newfoundland Power's *2025 Capital Budget Application*, report *2.1 2025*
21 *Substation Refurbishment and Modernization, Appendix C*, section *3.0 Risk*
22 *Assessment* for a risk assessment of the reliable operation of LOK. This assessment
23 identifies the risk associated with the substation and recommends a solution to
24 mitigate the risk.