

1 **Substations**

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3 **Q. Reference: "2025 Capital Budget Application," Newfoundland Power Inc.,**

4 **June 28, 2024, Supporting Materials, Substations: 2.1, sec. 2.1, p. 3.**

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6 **Newfoundland Power's current plan includes the refurbishment and**

7 **modernization of 20 substations over the next five years. The refurbishment**

8 **and modernization plan reflects the age and condition of the Company's**

9 **substation assets, as described below. Refurbishment and modernization**

10 **projects will continue to focus on addressing obsolete and deteriorated**

11 **equipment in individual substations.**

12

13 **Please provide the decision-making criteria, including specific parameters,**

14 **that Newfoundland Power used to prioritize the substations identified for**

15 **refurbishment.**

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17 A. As described in the *Substation Strategic Plan*, each substation is assessed based on a

18 number of factors including physical condition, history of equipment maintenance and

19 performance, equipment life expectancy, impact of failures on service to customers, and

20 requirements for modernizing substation protection and control.<sup>1</sup>

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22 Refurbishment and modernization projects are coordinated with the maintenance cycle

23 for major substation equipment to provide reliability and productivity benefits for

24 customers. This coordination is particularly important when completing the required

25 work necessitates the installation of a portable substation or the offloading of a

26 substation in order to avoid prolonged customer outages.

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28 The *2025 Substation Refurbishment and Modernization* report provides an update on the

29 age and condition of major substation equipment and infrastructure, including the

30 strategy for addressing these assets during refurbishment and modernization projects.<sup>2</sup>

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32 The condition assessments for the Summerville, Northwest Brook, and Lockston

33 substations are outlined in the *2025 Substation Refurbishment and Modernization*

34 report.<sup>3</sup> These assessments consider the condition of substation infrastructure, power

35 transformers, protection and control equipment, control buildings and the site on which

36 the equipment is located. This approach is consistent with that outlined in Newfoundland

37 Power's *Substation Strategic Plan*.

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<sup>1</sup> See Newfoundland Power's *2007 Capital Budget Application*, report 2.1 *Substation Strategic Plan*.

<sup>2</sup> See Newfoundland Power's *2025 Capital Budget Application*, report 2.1 *2025 Substation Refurbishment and Modernization*, Appendix A, Appendix B, and Appendix C.

<sup>3</sup> Ibid.