

1 **Q. (Reference Application Schedule B, Replace Vehicles and Aerial Devices 2022 – 2023,**  
 2 **page 71 of 99) It is stated “This project is justified on the obligation to provide reliable**  
 3 **service to customers at least cost and cannot be deferred.”**

- 4
- 5 a) Please provide evidence based on reliability criteria that Newfoundland Power  
 6 will be unable to provide reliable service at least cost if it were to delay this project.  
 7 b) Please quantify the impact on the following if the project were delayed by two  
 8 years: 1) reliability, 2) cost, and 3) the risk and consequences of failure.  
 9 c) Please indicate when the Replace Vehicles and Aerial Devices project began. What  
 10 efficiency improvements have been made in the administration of the program  
 11 and how much have these improvements decreased the costs of the program?  
 12

13 A. a) Newfoundland Power manages its capital expenditures in a manner that balances both  
 14 the cost and reliability of the service provided to its customers.<sup>1</sup> The Company is  
 15 focused on maintaining current levels of overall service reliability for its customers at  
 16 the lowest possible cost.<sup>2</sup> The 2022 *Replace Vehicles and Aerial Devices* project is  
 17 consistent with this objective.  
 18

19 Newfoundland Power dispatches field crews throughout its service territory to  
 20 respond to approximately 34,000 customer requests annually, including  
 21 approximately 11,000 trouble calls.<sup>3</sup> Ensuring a prompt response to customers’  
 22 requests, including outages, requires an adequate supply of reliable vehicles.  
 23

24 The Company also deploys customer service staff throughout its service territory,  
 25 including Field Services Representatives, as well as engineers, technologists and  
 26 other tradespersons responsible for inspecting and maintaining the electrical system.  
 27 These functions also require an adequate supply of reliable vehicles.  
 28

29 The *Replace Vehicles and Aerial Devices* project is necessary to replace vehicles that  
 30 have reached the end of their useful service life. The criteria applied for vehicle  
 31 replacements involves: (i) evaluating which vehicles have reached a certain age or  
 32 mileage;<sup>4</sup> and (ii) an inspection of those vehicles by a certified mechanic to assess  
 33 whether they can be economically maintained for additional service.  
 34

35 For 2022, the *Replace Vehicles and Aerial Devices* project includes the replacement  
 36 of 50 vehicles that have reached the criteria for evaluation and are not expected to be  
 37 economically maintained.

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<sup>1</sup> See response to Request for Information NLH-NP-042.

<sup>2</sup> See response to Request for Information CA-NP-014.

<sup>3</sup> Trouble calls include calls regarding no service or partial service, and other emergency and safety-related issues.

<sup>4</sup> Passenger vehicles are evaluated when they reach 5 years of age or 150,000 kilometres, light-duty and heavy-duty vehicles are evaluated when they reach 10 years of age or 250,000 kilometres. See response to Request for Information NLH-NP-004 for additional information.

1 Ensuring an adequate supply of reliable vehicles through the *Replace Vehicles and*  
2 *Aerial* devices project is consistent with maintaining current levels of service  
3 reliability for customers at the lowest possible cost, as further described in part b).  
4

- 5 b) Delaying the 2022 *Replace Vehicles and Aerial Devices* project by 2 years would  
6 increase the risk that Newfoundland Power would not have an adequate supply of  
7 vehicles to respond to customer outages and other required field work. This is  
8 because the Company would be required to either: (i) reduce its number of vehicles;  
9 and/or (ii) invest in additional maintenance for vehicles that are past their useful  
10 service life. The primary consequences of this approach would be reduced service  
11 reliability for customers and increased costs.<sup>5</sup>  
12

13 Reducing the number of vehicles would reduce the Company's responsiveness to  
14 customer outages and other field requests. This, in turn, would reduce service  
15 reliability for customers.  
16

17 Investing in additional maintenance for vehicles that are past their useful service life  
18 would increase overall costs to customers. In cases where vehicles are replaced,  
19 major component failures are often noted. For example, vehicles can experience  
20 major engine failure. Major engine failure can cost between \$30,000 to \$40,000 to  
21 repair for a heavy-duty vehicle. That repair may not ultimately extend the service life  
22 of a vehicle due to heavy rust and other deficiencies. Replacement would still be  
23 required over the near term, thereby increasing overall costs to customers.  
24

25 Delaying the 2022 *Replace Vehicles and Aerial Devices* project would therefore be  
26 inconsistent with maintaining reliable service for customers at the lowest possible  
27 cost.  
28

- 29 c) Capital expenditures associated with the purchase and replacement of vehicles and  
30 aerial devices have always been a component of Newfoundland Power's annual  
31 capital budgets.  
32

33 Efficiency improvements have been made in the administration of the Company's  
34 transportation fleet over time. For example, in 1997 the Company replaced its in-  
35 house Transportation Resource Management System and partnered with BML Fleet  
36 Management for its passenger vehicle fleet. The fleet management service provided  
37 by BML consolidated fuel and maintenance invoicing into a single monthly billing  
38 per passenger vehicle. Capturing repairs electronically enabled the Company to  
39 better manage its fleet by identifying trends in maintenance by vehicle manufacturer  
40 and model. In 2018, the Company moved its light-duty and heavy-duty fleet vehicles  
41 into the Element Fleet Management program.<sup>6</sup>

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<sup>5</sup> For information on Newfoundland Power's approach to quantifying risks and benefits, see response to Request for Information CA-NP-014.

<sup>6</sup> Element Fleet Management is the current business name of the former BML Fleet Management.

1            In 2021, Newfoundland Power is implementing a new digital forms solution that will  
2            be used by field crews in completing daily inspection and Record of Duty forms.  
3            This will provide efficiencies for field crews when completing these forms.<sup>7</sup>  
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5            Additionally, the aerial devices used today are capable of completing line work with  
6            2-person crews, as opposed to larger crews that were necessary with earlier devices.<sup>8</sup>

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<sup>7</sup> See the *2021 Capital Budget Application, Volume 2, Report 6.1 2021 Application Enhancements*, page 4, *et seq.*

<sup>8</sup> The new heavy-duty fleet specification allows for use of the aerial device in locations where the conditions at the base of the pole would have required the work to be completed by climbing the pole. Efficiency improvements result because work can be completed within less time and more safely.