

1 **Reference: "2023 Capital Budget Application," Newfoundland Power Inc., June 29,**
 2 **2022, Report 1.2 Feeder Additions for Load Growth.**

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- 4 **Q. a) Please provide a load forecast for both feeders PUL-01 and PUL-04 for**
 5 **the next five years.**
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- 7 **b) Given that the customers are residential and commercial, what**
 8 **Customer Demand Management opportunities were considered as part**
 9 **of the analysis for the two load growth projects?**
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- 11 A. a) Table 1 provides the load forecast for distribution feeders PUL-01 and PUL-04 for
 12 the next 5 years.

Table 1 PUL-01 and PUL-04 Load Forecast for 2023-2027 (MVA)					
	2023	2024	2025	2026	2027
PUL-01	7.8	7.9	8.0	8.0	8.3
PUL-04	9.0	9.2	9.3	9.3	9.7

- 13 b) The *Feeder Additions for Load Growth* project includes two items to upgrade
 14 existing overloaded single-phase lines to three-phase. Distribution feeder
 15 PUL-01 requires an upgrade to address an overload on a single-phase line that
 16 exceeds the maximum rating of 85 Amps by 36%. Distribution feeder PUL-04
 17 requires an upgrade to address an overload on a single-phase line that exceeds
 18 the maximum rating of 85 Amps by 118%. Customer demand management
 19 initiatives are implemented under the takeCHARGE initiative. The energy and
 20 demand savings achieved as a result of these initiatives are dependent upon
 21 customer interest in available programs and would not be sufficient to address
 22 the significant overload conditions that exist on these distribution feeders.