

1 **Q. (Reference Application, Feeder Additions for Load Growth, page 7) It is stated**
 2 **with respect to feeder GOU-03 “The analysis showed that the load on the**
 3 **individual phases of the identified section of the feeder are approximately**
 4 **125 amps, which exceeds the Company’s planning criteria for maximum**
 5 **current on a two-phase distribution line.” Footnote 9 indicates**
 6 **“Newfoundland Power’s planning criteria for maximum current on any phase**
 7 **of a single-phase or two-phase distribution line is 85 amps.” For how many**
 8 **years has this feeder been overloaded and why has NP just now become**
 9 **aware of this overload condition? Please provide loadings on this feeder for**
 10 **each of the last 10 years.**

11
 12 A. The three-phase trunk of distribution feeder GOU-03 is not overloaded; rather, the
 13 feeder has a two-phase tap section that is overloaded as it exceeds the Company’s
 14 planning criteria for single and two-phase taps.¹

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 16 Loading on individual single and two-phase sections of distribution line are examined
 17 and prioritized on a case-by-basis when warranted by operational concerns.

18 Newfoundland Power first identified the potentially overloaded section of GOU-03 in the
 19 Company’s five-year capital plan as part of its *2022 Capital Budget Application*. At the
 20 time, the Company identified other feeders as having overload conditions of greater
 21 magnitude and severity and upgrades to GOU-03 were deferred to a future year.

22
 23 Table 1 provides the historical peak demand for distribution feeder GOU-03 from 2014
 24 to 2023. The planning capacity for the entire feeder is 12.7 MVA. Newfoundland Power
 25 does not track historical peak data for single and two-phase sections of distribution
 26 feeders, and historical loads across the whole feeder are not necessarily reflective of
 27 load growth on individual single and two-phase sections.

Table 1 Historical Peak Demand for GOU-03 (MVA)									
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
10.0	9.4	9.6	9.0	9.7	8.7	8.6	8.4	9.3	9.4

¹ Newfoundland Power’s limit for one and two-phase taps on three-phase distribution lines is 85 amps.