

- 1 **Q. (Reference CA-NP-124) In regard to transmission line 108L:**
 2 **a) If a transmission line was not designed to meet current standards then**
 3 **does that require immediate replacement? How often do design standards**
 4 **change?**
 5 **b) According to 3.1 Gander–Twillingate Transmission System Planning Study**
 6 **(page 11, Table 4) during October –December 2021, there was planned**
 7 **outage on 108L of 1015.4 hours for preventative maintenance. (i) Please**
 8 **provide the details of that preventive maintenance and whether the 2019**
 9 **unplanned outage was the impetus for it. (ii) Indicate how that**
 10 **maintenance may have helped increase the longevity of the line.**
 11 **c) How many poles on 108L have been replaced each year since 2000?**
 12
- 13 **A. a)** As discussed in the response to Request for Information CA-NP-124, Newfoundland
 14 Power currently adheres to the Canadian Standards Association (“CSA”) standards
 15 and guidelines outlined in *CSA Standard C22.3 – Overhead Systems* when designing
 16 and maintaining its transmission system. CSA considers their standards to be living
 17 documents, which are regularly revised and refreshed to address changing
 18 requirements and emerging technologies. At a minimum, CSA Standards are
 19 reviewed and updated every five years.
 20
- 21 CSA Standard C22.3 allows for a utility to continue operating existing installations
 22 that meet the requirements of prior editions without modification except for when
 23 mandated for safety reasons by an authority having such jurisdiction.
 24
- 25 **b)** The preventative maintenance which was completed on Transmission Line 108L
 26 during the October to December outage in 2021 involved replacing four poles, four
 27 cross arms and one anchor log. This work was unrelated to the unplanned outage
 28 which occurred in 2019. The work coincided with a planned rebuild of a section of
 29 Cobb’s Pond (“COB”) Substation distribution feeder COB-01. Due to the proximity of
 30 Transmission Line 108L and COB-01, the rebuild of COB-01 was aided by an
 31 extended outage to Transmission Line 108L as facilitated by a load transfer onto
 32 Transmission Line 142L.
 33
- 34 While the maintenance completed during this outage was necessary to address the
 35 deteriorated condition of the four affected structures on Transmission Line 108L, the
 36 replacement of those components did not materially increase the longevity of the
 37 line as whole.

- 1 c) Table 1 shows the number of poles replaced on Transmission Line 108L each year
2 from 2000 to 2023.

Table 1 Historical Pole Replacements on Transmission Line 108L (2000 to 2023)	
Date	Poles Replaced
2000	0
2001	0
2002	1
2003	0
2004	3
2005	0
2006	0
2007	2
2008	0
2009	31
2010	0
2011	1
2012	1
2013	13
2014	1
2015	1
2016	1
2017	0
2018	0
2019	1
2020	0
2021	4
2022	11
2023	0