

1 Q. **Reference: Volume II, 2023 Capital Budget Application, Program 6, Distribution System In-**  
2 **Service Failures, Miscellaneous Upgrades, and Street Lights (2023), page 1, lines 4 to 7.**

3 Please describe Hydro's preventative maintenance program, including inspection programs and  
4 frequency, for its distribution system assets.

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7 A. Newfoundland and Labrador Hydro's ("Hydro") distribution preventative maintenance activities  
8 consist of:

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- Distribution Line Inspection

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- Six-year cycle – visual inspection of each pole structure and its attached hardware, distribution transformers, pole mounted power transformers, capacitors and cutout sectionalizers. A climbing inspection completed, as required, for identified deficiency.

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- Distribution Transformer Inspection

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- Six-year cycle – visual inspection of each distribution pole structure and its attached hardware and distribution transformers. A climbing inspection completed, as required, for identified deficiency. These inspections are staggered with the distribution line inspection so that the distribution transformer structures are inspected every three years.

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- Gang Switch Visual Inspection

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- Three-year cycle.

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- Feeder Infrared Scan

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- Four-year cycle.

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- Voltage Regulator

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- 30-day cycle – readings and visual inspection; and

- 1           o Five-year cycle – functional check, visual inspection and oil dielectric testing.
- 2           • Recloser
- 3           o 30-day cycle – readings and visual inspection;
- 4           o One-year cycle – visual inspection and controls maintenance procedure; and
- 5           o Five-year cycle – function testing, visual inspection and oil dielectric testing.
- 6           • Power Transformer and Substation
- 7           o Four-month cycle – visual inspection and battery maintenance procedure;
- 8           o One-year cycle – battery maintenance procedure, laboratory transformer oil
- 9           laboratory testing and infrared scanning; and
- 10          o Six-year cycle – protective relaying maintenance procedure.
- 11          • Hydro’s Long-Term Asset Planning
- 12          o Transmission and Distribution, a branch of the Engineering and Technology division,
- 13          with input from the Distribution Maintenance Committee, review and modify the
- 14          distribution preventive maintenance program as required.