

1 Q. Provide a table, including date, duration and results, listing the extended outages required to
2 complete inspection and repair activities on Penstock 3 since 2016.

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5 A. Please refer to Table 1 for a listing of the extended outages, including date, duration and results,
6 required to complete inspection and repair activities on Penstock 3 since 2016.

Table 1: Outages to Complete Inspection and Repair Activities – Penstock 3

Date	Event	Results	Outage Duration (Weeks)
2017	Annual Inspection	No indications (No NDE ¹ Performed)	2
2018	Annual Inspection and Weld Repairs	Approximately 1,000 m of weld refurbishment	8
2019	Annual Inspection	No indications	2
2021	Annual Inspection	1 Indication Discovered, ² Repaired in 2023	2
2022	Annual Inspection	No indications	2
2023 ³	Annual Inspection and Weld Repairs	11 Indications repaired in 9 Cans All Cans Previously Repaired ⁴	3
2024 ³	Annual Inspection and Weld Repairs	8 Indications repaired in 6 Cans 5 of 6 Cans Previously Repaired ⁴	2
2025	Annual Inspection	14 Indications Discovered in 13 Cans ⁵ 8 of 13 Cans Previously Repaired ⁶	3

¹ Non-destructive examination (“NDE”).

² In consultation with Newfoundland and Labrador Hydro’s (“Hydro”) third-party inspector, it was determined that the indication in a circumferential weld posed no material concern at that time, and the penstock could safely be returned to service.

³ Weld repairs completed on Penstock 3 in 2023 and 2024 were completed by a third-party contractor that was already on site, and was completing other welding work during the planned outage. As the contractor was already mobilized, this decreased the impact on outage duration, as there was no downtime between finding the indications and having them repaired.

⁴ Repaired as part of the 2018 weld repairs.

⁵ Of the 17 indications found, 7 did not require weld repair, 4 were able to be removed during the inspection, and 3 were deemed acceptable by Hydro’s third-party inspector, Kleinschmidt Associates (“Kleinschmidt”). As a result of this planned life extension work and the implementation of operating restrictions on Units 5 and 6, Kleinschmidt determined that the remaining 7 indications posed no material concern at that time, and the penstock could safely be returned to service.

⁶ As part of the 2018 weld repairs, 7 of the previously repaired cans were repaired, and the 8th was previously repaired in both 2018 and 2023.

- 1 The recurrence of indications and required repairs in previously repaired welds illustrates the limited
- 2 durability of weld repairs, particularly in the 7/16" section. Continuation of annual inspections and
- 3 repairs in this manner does not eliminate the risk of future weld failure and forced outages.