1Q.Reference: Application, Schedule 1: Upgrade Report – Penstock 1 Life Extension – Bay2d'Espoir, Appendix M, Page 2 of 219.

3 4 5 6 7			The sequence in which the penstocks are to be refurbished assumes all three (3) penstocks will be refurbished within a three (3) year period and the refurbishment will scheduled sequentially such that no more than a single penstock is out of service at any one time, beginning with Penstock No. 1 and working from right to left across the three (3) penstocks. This would have
8			savings in mobilization and demobilization costs in-between penstocks
9			refurbishments. Having trained and dedicated personnel through all three back-
10			to-back penstocks refurbishments would maximize productivity and
11 12			consistency. Back-to-back refurbishment would see the project complete in three years which would mitigate ricks related cost increases for material and
12 13			labour, when compared to a schedule that could extend out over eight years if
14			refurbishment is not back-to-back.
15		a)	Was Hydro, or its consultant Kleinschmidt, able to quantify the cost savings associated with
16			completing the three penstocks sequentially as suggested in the reference? If yes, please
17			provide the details associated with the cost savings. If not, why not?
18		b)	What is Hydro's anticipated timeline to complete the refurbishment of penstocks 1, 2 and 3?
19			Further, when does Hydro anticipate it will be in a position to file applications for penstocks
20			2 and 3?
21			
			
22			
23	Α.	a)	Newfoundland and Labrador Hydro's ("Hydro") consultant estimated that the cost savings
24			associated with completing the penstocks sequentially would be approximately 3% to 5% of
25			the project cost, primarily due to reductions in mobilization and demobilization costs. For
26			additional discussion of cost savings, please refer to Appendix M. ¹
27		b)	Hydro is currently carrying the Bay d'Espoir Penstock Life Extension – Phase 2 in its five-year
28			plan for 2026–2028. The timing of this investment is subject to change. Hydro will continue

29 to assess the timing, taking into consideration the condition of Penstocks 2 and 3, as well as

¹ "Application for Approval of Capital Expenditures for Section Replacement and Weld Refurbishment for Bay d'Espoir Hydroelectric Generating Facility Penstock 1," Newfoundland and Labrador Hydro, December 7, 2022, sch. 1, app. M, s. 2.1, p. 9, para. 2.

1	other major capital investment requirements, including potential new generation builds
2	arising from the Reliability and Resource Adequacy Study Review proceeding. Once the
3	timing is determined, Hydro anticipates that the project would be proposed in the
4	appropriate capital budget application corresponding to the commencement of the project
5	(e.g., the 2026 Capital Budget Application).
6	Hydro anticipates proposal of the final phase of the Bay d'Espoir Penstock Life Extension
7	following the completion of Phase 2.