

1 Q. **Reference: Volume II, 2023 Capital Budget Application, Program 18, Hydraulic Unit Overhauls**
2 **Program (2023), page 6, Chart 2.**

3 Please provide a table covering the period from 2017 to 2027 identifying which hydraulic
4 generating units were overhauled and plan to be overhauled.

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7 A. Table 1 presents the completed and planned overhauls within the Hydraulic Unit Overhauls
8 Program. While developing schedules and plans for the program, there are instances when the
9 current plan needs to change to address units that require immediate intervention or have
10 planned extraordinary maintenance scheduled. Newfoundland and Labrador Hydro (“Hydro”)
11 generally proposes supplemental capital budget applications for any projects that require
12 immediate intervention and usually, but not always, units that require extraordinary work will
13 have this work planned to correspond to the scheduled overhaul.

Table 1: Units Overhauled Under Hydraulic Unit Overhauls Program

Year	Hydraulic Unit Overhauled
2017	Unit 4 Bay d'Espoir ; Unit 1 Cat Arm
2018	Unit 2 Bay d'Espoir ; Upper Salmon Unit
2019	Unit 1 Bay d'Espoir ; Granite Canal Unit
2020	Cat Arm Unit 2.
2021	Unit 5 Bay d'Espoir ; Paradise River Unit
2022	Unit 4 Bay d'Espoir ; Unit 6 Bay d'Espoir
2023 ¹	Unit 3 Bay d'Espoir ; Unit 1 Cat Arm
2024 ¹	Unit 2 Bay d'Espoir ; Upper Salmon Unit
2025 ¹	Unit 7 Bay d'Espoir ; Hinds Lake Unit; Granite Canal Unit
2026 ¹	Cat Arm Unit 2 ; Unit 1 Bay d'Espoir
2027 ¹	Unit 5 Bay d'Espoir ; Paradise River Unit

¹ Planned units.

1 Since 2016, the following units had to have the schedule modified to account for supplemental
2 proposals:

3 • 2016 – Unit 4 in Bay d’Espoir was overhauled due to narrowing seal clearances on the
4 turbine runner, originally planned for a program starting in 2019. This supplemental was
5 approved by the Board of Commissioners of Public Utilities (“Board”) in Board Order No.
6 P.U. 28(2016).²

7 • 2017 – Unit 3 in Bay d’Espoir was overhauled due to narrowing seal clearances on the
8 turbine runner. Hydro originally planned to commence this program in 2019; but, with
9 Unit 4 being identified for overhaul in 2016 and with an extensive outage on Penstock 2
10 in 2017, Hydro decided to combine the penstock outage on Units 3 and 4 to address the
11 seal clearances on Unit 3. This supplemental was approved in Board Order No.
12 P.U. 13(2017).³

13 • 2019 – The Hinds Lake Unit in 2019 was identified to have a generator issue that
14 required a supplemental proposal, approved in Board Order No. P.U. 22(2019).⁴ To
15 execute this work it was logical to include the overhaul to avoid another lengthy outage
16 on the unit.

17 In 2019, planned extraordinary maintenance was scheduled for Unit 7 in Bay d’Espoir to
18 correct the narrowing seal clearances on the turbine runner. The overhaul, similar to
19 Units 3 and 4, was also completed during this project, approved in Board Order No.
20 P.U. 46 (2018).⁵

² *Public Utilities Act*, RSNL 1990, c P-47, Board Order No. P.U. 28(2016), July 8, 2016.

³ *Public Utilities Act*, RSNL 1990, c P-47, Board Order No. P.U. 13(2017), April 21, 2017.

⁴ *Public Utilities Act*, RSNL 1990, c P-47, Board Order No. P.U. 22(2019), June 6, 2019.

⁵ *Public Utilities Act*, RSNL 1990, c P-47, Board Order No. P.U. 46(2018), December 10, 2018.