

1 **Q. References: CBA, v. 1, Capital Budget, Detailed Breakdown, page C23 (pdf 225)**

2 a) Please provide a detailed description and budget for the refurbishment of the
3 Wabush Terminal Station, and explain why the works are needed.

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5 b) Please indicate where the Wabush Terminal Station is found in the 2019 Capital
6 Plan, Appendix A (pages 66-83 of the pdf) and in the Capital Budget (pages 183-
7 190 and 193-205 of the pdf).

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9 **A.** a) The 2019 Capital Plan includes capital work related to the Wabush Terminal
10 Station Refurbishment in the following projects:

11 • “Terminal Station Refurbishment and Modernization (2018-2019)” as
12 referenced in the *2018 Capital Budget Application*, Volume II, Tab 12, Page 9,
13 Section 2.4 Wabush Terminal Station Refurbishment, with a budget of
14 \$4,208,400; and

15 • “Terminal Station Refurbishment and Modernization (2019-2020)” as
16 referenced in the *2019 Capital Budget Application*, Volume II, Tab 6, Page 16,
17 Section 2.4 Wabush Terminal Station Refurbishment, with a budget of
18 \$3,835,700.

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20 Each referenced location includes detailed project descriptions, justifications, and
21 estimates for the Wabush Terminal Station refurbishment, with additional
22 information presented in Tables 1 and 2 of this response.

Table 1: Wabush Terminal Station Scope – 2018-2019

Activity	Justification
Replacement of Breaker 46-32 and associated Protection, Foundations, and Cables	Contains/Suspected to Contain PCBs, Obsolete electromechanical relaying
Procurement and Replacement of two (2) 46 kV circuit breakers & associated protection, foundations, and cables	Contains/Suspected to contain PCBs, Obsolete electromechanical relaying
Procurement and installation of six (6) 46 kV disconnect switches	Obsolete, no spares available
Transfer of SCADA to the Energy Control Center	Transfer of control from TwinCo to NL Hydro

Table 2: Wabush Terminal Station Scope – 2019-2020

Activity	Justification
Transformer T1 and T2 Protection Upgrades	Obsolete electromechanical relaying
Procurement and replacement of three 46 kV circuit breakers and associated foundations, cables, and protection	Contains/suspected to contain PCBs
Procurement and installation of three 46 kV disconnect switches	Obsolete, no spares available
Major Inspection of Synchronous Condenser SC1	Major Inspection (Level 2 Condition Assessment) every 3 years

1 Further details on Hydro’s strategy for the refurbishment and replacement of
 2 terminal station assets, including those located in the Wabush Terminal Station,
 3 can be found in Volume II, Tab 6; “Terminal Station Asset Management Overview”
 4 Version 3.

- 1 b) References to both “Terminal Station Refurbishment and Modernization”
2 projects can be found in Volume I of the *2019 Capital Budget Application* in:
- 3 • the “2019-2023 Capital Plan”, Appendix A on Page A8;
 - 4 • the “Capital Budget Summary with Multi-Year Projects Separated” on pages B6
5 and B5 for the 2018-2019 project and 2019-2020 project respectively; and
 - 6 • the “2019 Capital Projects \$500,000 and Over” section on page C2.