## NEWFOUNDLAND AND LABRADOR BOARD OF COMMISSIONERS OF PUBLIC UTILITIES

## AN ORDER OF THE BOARD

NO. P.U. 28(2023)

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and

WHEREAS on September 21, 2023 Hydro filed an application (the "Application") requesting approval of a supplementary capital expenditure of \$7,466,900 for the purchase of a spare generator step-up ("GSU") transformer; and

**WHEREAS** the Application states each of Hydro's generating facilities utilize GSU transformers, without which the associated generating unit would be unable to operate; and

**WHEREAS** the Application states Hydro has traditionally maintained two spare GSU transformers but these spares were used to replace failed GSU transformers in 2021 and 2022; and

**WHEREAS** the Application states the GSU transformer that failed in 2022 was repaired and was subsequently utilized to replace another GSU transformer which failed in 2023; and

**WHEREAS** the Application states Hydro intends to repair the GSU transformer that failed in 2023 to be utilized as a spare, however it is limited in its use as it is only suitable as a spare for Bay d'Espoir unit T7 with a derating of the unit and is not suitable as a spare for the Holyrood Thermal Generating Station units; and

**WHEREAS** the Application states if there were to be more than one GSU transformer failure or a failure of Bay d'Espoir Unit 7 or any of the Holyrood units there would be significant implications for system reliability given the amount of time necessary to procure a GSU transformer and the impact on Hydro's generation; and

**WHEREAS** the Application states that it is necessary for Hydro to have a second spare GSU transformer and the purchase of a new 172 MVA GSU transformer that can be utilized as a spare for all generating facilities is necessary; and

WHEREAS the Application was copied to: Newfoundland Power Inc. ("Newfoundland Power"); the Consumer Advocate, Dennis Browne, KC (the "Consumer Advocate"); a group of Island Industrial customers including: Corner Brook Pulp and Paper Limited, Braya Renewable Fuels (Newfoundland) GP Inc., and Vale Newfoundland and Labrador Limited; the communities of Sheshatshiu, Happy Valley-Goose Bay, Wabush, and Labrador City; Linde Canada Inc.; and Teck Resources Limited; and

**WHEREAS** on September 29, 2023 the Consumer Advocate filed a submission accepting the need for the spare GSU transformer; and

**WHEREAS** on September 29, 2023 Newfoundland Power submitted that Hydro should procure a spare GSU transformer as expeditiously as possible noting that a lack of adequate spare GSU transformers has significant implications for system reliability and increases the vulnerability of electricity supply; and

**WHEREAS** Newfoundland Power also submitted that Hydro should assess the implications of a further GSU transformer failure in its upcoming Near-Term Reliability report, specifically addressing the implications of a GSU transformer failure at the Holyrood Thermal Generating

Station during the upcoming 2023-2024 winter season and advising how Hydro would address such an event; and

**WHEREAS** on October 4, 2023 Hydro replied that it will take all necessary steps to obtain the spare GSU transformer as soon as possible and that it will include the loss of a transformer at the Holyrood Thermal Generating Station as a sensitivity in the Near-Term Reliability Report; and

**WHEREAS** the Board accepts the criticality of Hydro maintaining adequate spare GSU transformers and is satisfied that the proposed supplemental capital expenditure for the purchase of a spare GSU transformer is necessary to ensure that Hydro can continue to provide service which is safe and adequate and just and reasonable; and

 WHEREAS given the potential reliability risks associated with inadequate spare GSU transformers and the timelines associated with procuring a new GSU transformer, the Board will require Hydro to report in its upcoming Near-Term Reliability report as to the implications of a further GSU transformer failure and how this failure would be addressed by Hydro until the new GSU transformer has been procured, specifically addressing a GSU transformer failure at the Holyrood Thermal Generating Station.

## **IT IS THEREFORE ORDERED THAT:**

1. The proposed capital expenditures in the amount of \$39,600 in 2023, \$1,298,900 in 2024, \$3,966,700 in 2025 and \$2,161,700 in 2026 for purchase of a Spare Generator Step-Up Transformer are approved.

2. Hydro shall report in its upcoming Near-Term Reliability report on the implications of a further generator step-up transformer failure and how this would be addressed by Hydro until the new transformer has been procured.

3. Hydro shall pay all expenses of the Board arising from this Application.

DATED at St. John's, Newfoundland and Labrador, this 18th day of October 2023.

Dwanda Newman, LL.B.

Vice-Chair

ohn O'Brien, FCPA, FCA, CISA

Commissioner

Christopher Pike, LL.B., FCIP

Commissioner

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Executive Director and Board Secretary