Public Utilities Board
NEWFOUNDLAND & LABRADOR
120 Torbay Road • Prince Charles Building, Suite E210 • St. John's, Newfoundland and Labrador • A1A2G8

2026-11-24

Newfoundland Power Inc.
Dominic Foley
Email: dfoley@newfoundlandpower.com

Dear Sir:

Re: Newfoundland Power Inc. - 2027 Wesleyville and Greenhill Thermal Generation Supplemental Application - Requests for Information

Enclosed are Requests for Information PUB-NP-001 to PUB-NP-028 regarding the above-noted application.

If you have any questions, please do not hesitate to contact the Board's Legal Counsel, Ms. Jacqui Glynn, by email, jglynn@pub.nl.ca or by telephone 709-726-6781.

Sincerely,

Mike McNiven
Board Secretary

MM/ml
Enclosure

ecc **Newfoundland Power Inc.**
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NP Regulatory, Email: regulatory@newfoundlandpower.com

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IN THE MATTER OF the **Public Utilities Act** (the "**Act**"); and

IN THE MATTER OF an application by Newfoundland Power Inc. for an order approving supplemental capital expenditures required for the refurbishment of thermal facilities at Wesleyville and Greenhill pursuant to section 41 of the **Act**.

PUBLIC UTILITIES BOARD
REQUESTS FOR INFORMATION

PUB-NP-001 to PUB-NP-028

Issued: November 24, 2026

PUB-NP-001

(a) Is Newfoundland Power aware of whether Hydro has considered or has plans to extend the 230 kV bulk transmission system from Stoney Brook towards Sunnyside?

(b) Would extending the 230 kV bulk transmission system from Stoney Brook to Sunnyside alleviate the 138 kV transmission line contingencies?

(c) If the 138kV transmission line contingencies were alleviated, how would that impact the requirement for Wesleyville and Greenhill thermal generation?

PUB-NP-002

The Planning Study identifies that there are significant transmission contingency scenarios for each winter from 2026 through to 2031 prior to the new combustion turbine generators are placed into service.

(a) Will the existing Wesleyville and Greenhill gas turbines remain available to mitigate the transmission contingency scenarios and any other service reliability issues until the new combustion turbine generators are placed into service?

(b) What impact will the proposed building renovation at the Wesleyville site have on the ability for the existing combustion turbine generators to remain in service until the new combustion turbine generators are placed in service?

(c) Are there site issues at Greenhill that may impact the availability of the existing combustion turbine generator?

(d) If the Wesleyville and Greenhill gas turbines will not be available during the construction phase, what is Newfoundland Power's plan to address the transmission contingencies?

PUB-NP-003

(a) Are the budget estimates for the combustion turbine generators based on a particular manufacturer and model of gas turbine technology? If so, provide the details of the units.

(b) Will the same gas turbine technology be used for Wesleyville and Greenhill?

PUB-NP-004

(a) The project schedules indicate that work on the two sites will occur in parallel, with a slight delay in project execution between sites. Discuss the risk associated with the interdependencies between projects and how delays at one site may impact work at the other site.

(b) Does Newfoundland Power anticipate any challenges obtaining the skilled workforce and equipment necessary to complete work at the two sites simultaneously?

PUB-NP-005

(a) Multiple sensitivity analyses have been completed by Newfoundland Power and by Hydro involving different amounts of potential industrial load and reactive power based mitigating mechanisms. Provide the scenario Newfoundland Power considers the most likely for potential

industrial load and the appropriate reactive power based mitigating mechanisms necessary to meet that scenario.

(b) Has Newfoundland Power or Hydro completed any transient stability studies for the Study Area? If yes, provide the studies. If not, why not?

PUB-NP-006 **Reference: Schedule B**

For each of the tables detailing the 2027 to 2031 budget amounts, provide an additional breakdown identifying the amounts for AFUDC, Escalation and Contingency.

PUB-NP-007 **Reference: Schedule C**

(a) Provide a detailed scope of work for the Wesleyville Substation Upgrade for Thermal Generation project similar to provided in Schedule B, page 2 for the Greenhill Substation Upgrade for Thermal Generation project.

(b) Provide a table detailing the 2027 to 2031 budget amounts including breakdowns for Material, Labour – Internal, Labour – Contract, Engineering, Other, AFUDC, Escalation, Contingency and Total.

PUB-NP-008 **Reference: Wesleyville and Greenhill, Thermal Facility Refurbishments, page 1**

What is the latest date possible for completing the contract for the supply of the combustion turbine generators to maintain the in-service dates for both sites?

PUB-NP-009 **Reference: Wesleyville and Greenhill, Thermal Facility Refurbishments, page 11**

Detail the current plan for the operation and maintenance personnel at the Wesleywille and Greenhill sites and advise if there will be any changes.

PUB-NP-010 **Reference: Wesleyville and Greenhill, Thermal Facility Refurbishments, page 21**

(a) Have there been issues with the supply and storage of fuel at either of the existing Wesleyville and Greenhill sites? If yes, provide details.

(b) Provide a detailed explanation of the proposal to use portable fuel conditioning equipment to support long-term fuel quality management, including why portable equipment rather than permanent equipment is being proposed.

PUB-NP-011 **Reference: Wesleyville and Greenhill, Thermal Facility Refurbishments, pages 22 and 25**

The existing auxiliary power units and propane fuel storage systems will be removed and replaced with new auxiliary power units that will be fueled from a base mounted fuel tank.

(a) What type of fuel will be used and what impacts, if any, could a change in fuel have on the reliable operation of the auxiliary power units?

(b) How many combustion turbine generators starts are possible for the auxiliary power units at each site using only the fuel available in the base mounted fuel tank?

PUB-NP-012 **Reference: Wesleyville and Greenhill, Thermal Facility Refurbishments, pages 23 to 25**

(a) Confirm that the new combustion turbine generator control system will allow for remote monitoring and control from Newfoundland Power's SCADA system.

(b) If it is confirmed, describe the functionality being provided through the remote monitoring and control capability.

(c) At Greenhill, a single auxiliary power unit will be shared between the two separate combustion turbine generator units through a transfer switching arrangement. Will the auxiliary power unit and switching arrangement be capable of being controlled remotely through SCADA? If not, does this limit the remote start capability of the facility if either of the combustion turbine generators are unable to black start?

(d) Confirm that the new combustion turbine generators control systems for both Wesleyville and Greenhill will allow for isochronous or islanded operation of the respective combustion turbine generators.

PUB-NP-013 **Reference: Wesleyville and Greenhill, Thermal Facility Refurbishments, page 26**

At Greenhill, the existing power transformer will remain in service, and a new power transformer will be installed in parallel to support the combined output of the approximately 30 MW combustion turbine generator facility.

(a) What is the capacity and age of the existing power transformer?

(b) What is the estimated remaining life of the existing power transformer?

(c) Did Newfoundland Power consider replacing the existing power transformer with a single transformer large enough to support the combined output of the approximately 30 MW combustion turbine generator facility? If yes, provide the analysis including a cost comparison on a NPV basis of the two alternatives. If not, why not?

PUB-NP-014 **Reference: Wesleyville and Greenhill, Thermal Facility Refurbishments, page 29**

Confirm that Newfoundland Power's internal labour escalation assumptions are being used for both internal Newfoundland Power labour and external engineering, project management and contractor labour.

PUB-NP-015 **Reference: Wesleyville and Greenhill, Thermal Facility Refurbishments, page 35**

Confirm whether the variable operations and maintenance costs in Table 15 exclude fuel costs. If so, explain how fuel costs are accounted for in the estimated customer rate impacts.

PUB-NP-016 **Reference: Wesleyville and Greenhill, Thermal Facility Refurbishments, page 35**

Provide detailed information on the scope, frequency and estimated costs associated with major overhauls of the combustion turbine generators equipment over its anticipated service life.

PUB-NP-017 **Reference: Wesleyville and Greenhill, Thermal Facility Refurbishments, page 43**

Newfoundland Power states that it will continue to coordinate with Hydro and fuel suppliers regarding fuel supply requirements and overall contingency planning for extended operation during major or prolonged system events. Describe how this coordination has been undertaken in the past and if any changes will be required in the future.

PUB-NP-018 **Reference: Appendix C, Wesleyville and Greenhill Planning Study, page 9**

Hydro's proposed capital projects for Bay d'Espoir Unit 8 and Avalon Combustion Turbine were modelled as in service. Explain how the assumed timing and scope inform the identified transmission-system requirements and the proposed capacity, configuration and timing of the Wesleyville and Greenhill replacement facilities.

PUB-NP-019 **Reference: Appendix C, Wesleyville and Greenhill Planning Study, page 12**

(a) When did Newfoundland Power first become aware of the potential for widespread voltage collapse scenarios in the Study Area for the Winter 2026-2027 period?

(b) Has mobile gas turbine MG2 been stationed within the Study Area in advance of the Winter 2026-2027 period? If not, when will this happen?

PUB-NP-020 **Reference: Appendix C, Wesleyville and Greenhill Planning Study, pages 23 to 27, Tables 14 and Table 17**

(a) Explain the rationale for selecting one nominal 15 MW combustion turbine generator at the Wesleyville facility and two nominal 15 MW combustion turbine generators at the Greenhill facility.

(b) Footnote 56 identifies 17.4 MVA as the forecast 2030 demand for the Gambo – Wesleyville 66 kV Transmission System. Why is the nominal capacity for the Wesleyville combustion turbine generator less than the forecast load?

(c) Table 17 identifies 30.2 MVA as the forecast 2030 demand for Burin 66 kV Transmission System. Did Newfoundland Power consider a higher capacity combustion turbine generator to accommodate potential future industrial growth on the Burin peninsula?

(d) Has Newfoundland Power considered incorporating demand management, behind the meter or other distributed energy resource technologies to address the small difference between the combustion turbine generators capacity and forecast demand?

PUB-NP-021 **Reference: Appendix C, Wesleyville and Greenhill Planning Study, page 32, Table 19 and page 35, Table 20**

Table 19 and Table 20 include capital cost estimates for activities to be undertaken by Hydro.

(a) Did Newfoundland Power or Hydro prepare the capital cost estimate? If the estimates were prepared by Newfoundland Power, did Hydro review and confirm prior to Newfoundland Power filing the Application?

(b) Has Newfoundland Power completed any sensitivities to test the variability in the NPV calculations?

PUB-NP-022 **Reference: Appendix C, Wesleyville and Greenhill Planning Study, page 36**

In its analysis of alternatives to address potential voltage concerns on the Burin Peninsula, did Newfoundland Power consider converting the existing Greenhill facility from a combined generation and synchronous condenser operation to a dedicated synchronous condenser operation and retiring the gas generator equipment only? If yes, provide the analysis. If not, why not?

PUB-NP-023 **Reference: Appendix C, Wesleyville and Greenhill Planning Study, Attachment B**

Newfoundland Power's 138 kV & 66 kV Loop Assessments: 2027-2036 identifies contingencies that may need to be addressed through future capital investments. Explain how Newfoundland Power incorporates the findings of the annual 138 kV & 66 kV Loop Assessments into the 5-Year Capital Plan filed with its annual Capital Budget Applications.

PUB-NP-024 **Reference: Appendix C, Wesleyville and Greenhill Planning Study, Attachment C, page 3**

One of Hydro's study assumptions involves the construction of a 1 km tap connecting Newfoundland Power's 138 kV transmission line 147L to Glenwood ("GLN") Substation. Explain the need for this new connection to GLN Substation and the resulting operational benefit it achieves.

PUB-NP-025 **Reference: Appendix D, Wesleyville and Greenhill Planning Study, Attachment C**

Was a Reactive Power Support Analysis or a similar analysis completed for Central Newfoundland? If yes, provide the analysis. If not, why not?

PUB-NP-026 **Reference: Appendix D, Wesleyville and Greenhill Planning Study, Attachment C, page 6**

The Burin Peninsula Reactive Power Support Analysis included generation resources for wind turbines (28.418 MW) and the existing GT unit (21.25 MW).

(a) What impact, if any, would there be on the Burin Peninsula Reactive Power Support Analysis if the existing wind turbines were retired from service?

(b) Were the existing Newfoundland Power hydro plants at Lawn, Fall Pond and West Brook included in the analysis? If not, why not?

PUB-NP-027 **Reference: Appendix E, Design Basis Memorandum, page 8**

Detail Newfoundland Power's engagement with the Environmental Assessment Division, addressing at what stage engagement begins and how this impacts schedule and cost for project planning.

PUB-NP-028 **Reference: Appendix E, Design Basis Memorandum, page 26**

At Greenhill, there will be some systems such as the auxiliary power unit and the compressed air system that will be shared between the two combustion turbine generator units. What limitations, if any, will these shared systems place on the simultaneous starting and operation of the two units?

DATED at St. John's, Newfoundland and Labrador this 24th day of November 2026.

BOARD OF COMMISSIONERS OF PUBLIC UTILITIES

Per

Mike McNiven
Board Secretary