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August 30, 2022

File: N1L4-0150

David Dewar
Northwest Territories Power Corporation
4 Capital Drive,
Hay River, NT, X0E 1G2

Sent by email

Dear David Dewar,

Re: Water Licence N1L4-0150 – Rectification of Clerical Errors – Power – Snare River Watershed, NT

The Wek'èezhì Land and Water Board (Board) met on August 25, 2022 and rectified several clerical errors identified in the Northwest Territories Power Corporation's (NTPC) Water Licence N1L4-0150.

These clerical errors were identified in Part C Conditions 8, 10, and 16 which were discovered while conducting a conformity check of NTPC's Water Management and Reservoir Operation Plan. It was identified that these errors originated from an amendment in 2013, in which several Conditions under Part C were either updated or removed. As a result, the Conditions in the amended Licence incorrectly referenced Conditions in the original 1999 Licence. Please find the revised Licence with corrected Conditions attached.

Please direct questions or concerns regarding this letter to Ryan Fequet in writing.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Mason Mantla".

Mason Mantla
Chair, Wek'èezhì Land and Water Board

BCC'd to: Wek'èezhìi Distribution List
Patrick Smith, NTPC

Attached: Water Licence N1L4-0150



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Pursuant to the *Mackenzie Valley Resource Management Act* and Regulations, the Wek'èezhii Land and Water Board, hereinafter referred to as the Board, hereby grants to:


Northwest Territories Power Corporation
(Licensee)

of **4 Capital Drive, HAY RIVER, NT X0E 1G2**
(Mailing Address)

hereinafter called the Licensee, the right to alter, divert or otherwise use water subject to the restrictions and conditions contained in the Northwest Territories Waters Act and Regulations made thereunder and subject to and in accordance with the conditions specified in this Licence.

Licence Number:	N1L4-0150
Licence Type:	A
Water Management Area:	NORTHWEST TERRITORIES 01
Location:	Within the Snare River Watershed: Snare Rapids (Lat. 63°31' and Long. 116°00') Snare Falls (Lat. 63°26' and Long. 116°11') Snare Forks (Lat. 63°20' and Long. 116°20') NORTHWEST TERRITORIES
Purpose:	TO STORE AND DIVERT WATER FOR HYDROELECTRICAL PURPOSES
Quantity of water not to be exceeded :	Snare Rapids - 52.8 cubic metres per second Snare Falls - 50.9 cubic metres per second Snare Forks - 82.0 cubic metres per second
Effective Date of Licence:	MAY 30, 1999
Effective Date of Licence Amendment:	(AMENDMENT #1)
Expiry Date of Licence:	MAY 29, 2024

This Licence issued and recorded at Yellowknife includes and is subject to the annexed conditions.


Witness - Ms. Emily Finstad


Chair – Mr. Mason Mantla
Wek'èezhii Land and Water Board

APPROVED BY:

Minister of Environment and Natural Resource

PART A: SCOPE AND DEFINITIONS

1. Scope

- a) This Licence entitles the Northwest Territories Power Corporation (NWTPC) to store and divert water for the hydroelectric power undertaking associated within the Snare River Watershed at the Snare Rapids (Latitude 63°31' North and Longitude 116°00' West), Snare Falls (Latitude 63°26' North and Longitude 116°11' West), and Snare Forks (Latitude 63°20' North and Longitude 116°20' West) Power Generation Facilities, located on the Snare River, Northwest Territories as shown on Map A;
- b) This Licence is issued subject to the conditions contained herein with respect to the use of water. Whenever new Regulations are made or existing Regulations are amended by the Governor in Council under the *Northwest Territories Waters Act*, or other statutes imposing more stringent conditions relating to the quantity of water which may be used, this Licence shall be deemed, upon promulgation of such Regulations, to be automatically amended to conform with such Regulations; and
- c) Compliance with terms and conditions of this Licence does not absolve the Licensee from responsibility for compliance with the requirements of all applicable Federal, Territorial, and Municipal legislation.

2. Definitions

"Act" means the Northwest Territories Waters Act;

"Board" means the Wek'èezhìi Land and Water Board established under Section 57.1 of the *Mackenzie Valley Resource Management Act*.

"Canadian Dam Association (CDA) Guidelines" mean the document titled Dam Safety Guidelines **2007**, and subject to any updated and approved Guidelines.

"Dam Safety Inspection" means an inspection of the dam to observe its condition. Inspections are carried out much more frequently than Dam Safety Reviews (source: Canadian Dam Association).

"Dam Safety Review" means a comprehensive formal review carried out at regular intervals to determine whether an existing dam is safe, and if it is not safe, to determine required safety improvements (source: Canadian Dam Association).

"Emergency Preparedness Plan (EPP)" means a document that contains procedures for dealing with emergencies at the dam or its appurtenances; and includes communication directories and inundation maps showing upstream and downstream water levels and arrival times of floods (source: Canadian Dam Association).

"Freeboard" means the vertical distance between the water surface elevation and the lowest elevation of the top of the containment structure (source: Canadian Dam Association).

"Geotechnical Engineer" means a professional engineer registered with the Northwest Territories Association of Professional Engineers and Geoscientists and whose principal field of specialization is the design and construction of earthworks in a permafrost environment.

"Inspector" means an Inspector designated by the Minister under Section 35(1) of the Northwest Territories Waters Act.

"Licence" means the Northwest Territories Water Board Register Number N1L4-0150 which also covers all the rights and authorities granted under the former Water Register numbers N1L4-0151 and N1L4-0161.

"Licensee" means the holder of this Licence.

"Minister" means the Minister of Indian Affairs and Northern Development.

"Modification" means an alteration to a physical work that introduces a new structure or eliminates an existing structure and does not alter the purpose or function of the work, but does not include an expansion.

"NWTPC Datum at Snare Rapids" mean an assumed (relative) elevation of 223.86 metres (734.5 feet) with an absolute elevation of 227.97 metres, which is assigned to the top of the steel pin (Pin No. 1) embedded into the concrete floor adjacent to the South west corner of the Snare Rapids plant intake gate house and adjacent to the entrance door.

"NWTPC Datum at Snare Falls" mean an assumed (relative) elevation of 204.52 metres (671.0 feet) with an absolute elevation of 208.74 metres, which is assigned to the top of the steel pin (Pin No. 5) embedded into a concrete walkway adjacent to the Northwest corner of the Snare Falls intake structure and spillway gates.

"NWTPC Datum at Snare Forks" mean an assumed (relative) elevation of 175.26 metres (575.0 feet) with an absolute elevation of 179.78 metres, which is assigned to the top of the steel pin (Pin No. 12) embedded into the concrete floor adjacent to the South corner of the Snare Forks plant intake gate house and adjacent to the entrance door.

"OMS Manual" means an Operation, Maintenance, and Surveillance Manual, which documents procedures for safe operation, maintenance and surveillance of a dam (source: Canadian Dam Association).

"Power Generation Facilities - Snare Rapids" mean the Big Spruce Reservoir, intake structure, Snare Rapids Main Dam, Side Dam 4, Spillway 5B and Side Dams, Side Dam 9B, Snare Rapids forebay, Snare Rapids Spillway Bridge, power tunnel and penstock, powerhouse, tail race, and associated structures as indicated on Figures 1 to 10 inclusive in the report titled "Documentation in Support of the Snare Hydro Water License Renewals", dated April 1998 and a cover letter and application dated July 1, 1998.

"Power Generation Facilities - Snare Falls" mean the Snare Falls Dam and Spillway, Snare Falls forebay, intake structure, North and South Saddle Dams, Snare Falls Spillway Bridge, power tunnel and penstock, power house, tail race, and associated structures as indicated on Figures 1 to 10 inclusive in the report titled "Documentation in Support of the Snare Hydro Water License Renewals", dated April 1998 and a cover letter and application dated July 1, 1998.

"Power Generation Facilities - Snare Forks" mean the Snare Forks Main Dam (Strutt Lake Dam) and Freeboard Dam Extension, intake structure, Snare Forks Main Dam and Dyke, Snare Forks forebay, Dyke Number 1, Dyke Number 2, Dyke Number 3, Snare Forks Spillway Weir, Snare Forks Bridge, power tunnel and penstock, powerhouse, tail race, and associated structures as indicated on Figures 1 to 10 inclusive in the report titled "Documentation in Support of the Snare Hydro Water License Renewals", dated April 1998 and a cover letter and application dated July 1, 1998.

"Regulations" mean Regulations proclaimed pursuant to Section 33 of the Northwest Territories Waters Act.

PART B: GENERAL CONDITIONS

1. The Licensee shall file an Annual Report with the Board not later than March 31st of the year following the calendar year reported which shall contain the following information:
 - a) the daily minimum, maximum, and mean forebay water levels shall be measured and recorded in metres at Surveillance Network Program Station Numbers 0150-1 (Snare Rapids), 0150-4 (Snare Falls), and 0150-7 (Snare Forks) (referenced to NWTPC Datum);
 - b) the daily minimum, maximum, and mean water flow rates shall be measured and recorded in cubic metres per second through the powerhouses located at Surveillance Network Program Station Numbers 0150-2 (Snare Rapids), 0150-5 (Snare Falls), and 0150-8 (Snare Forks);
 - c) the daily and monthly mean power production shall be recorded in Kilowatts at each powerhouses located at Surveillance Network Program Station Numbers 0150-2 (Snare Rapids), 0150-5 (Snare Falls), and 0150-8 (Snare Forks);
 - d) the daily minimum, maximum, and mean water flow rates shall be measured and recorded in cubic metres per second over each spillway located at Surveillance Network Program Station Numbers 0150-3 (Snare Rapids), 0150-6 (Snare Falls), and 0150-9 (Snare Forks);
 - e) a detailed record of modifications and major maintenance work carried out on the Power Generation Facilities;
 - f) approved revisions to the Emergency Preparedness Plan;
 - g) approved revisions to the Spill Contingency Plan;
 - h) an outline of any communications and spill training exercises carried out;
 - i) a list of all unauthorized discharges;
 - j) approved revisions to the Abandonment and Reclamation Plan;
 - k) a record of any geotechnical work conducted as a result of the Dam Safety Review inspections and the dam safety inspections as referred to in Part C, Item 16;
 - l) a summary of progress related to the environmental study as referred to in the Surveillance Network Program, Part C, Items 1 and 2; and
 - m) any other details on water use or operating procedures requested by the Board on or before November 1st of the year being reported.
2. The Licensee shall comply with the "Surveillance Network Program" annexed to this Licence, and any amendment to the said "Surveillance Network Program" as may be made from time to time, pursuant to the conditions of this Licence.
3. The "Surveillance Network Program" and compliance dates specified in the Licence may be modified at the discretion of the Board.

4. Meters, devices or other such methods used for measuring water levels and the volumes of water used shall be installed, operated and maintained by the Licensee to the satisfaction of an Inspector.
5. The Licensee shall within sixty (60) days of the issuance of this Licence, post and maintain the necessary signs identifying the stations of the "Surveillance Network Program". All postings shall be located and maintained to the satisfaction of an Inspector.
6. The Licensee shall ensure a copy of this Licence is maintained at the site of operation at all times.

PART C: CONDITIONS APPLYING TO OPERATION

1. The Licensee shall store and divert water to generate electrical power from the Power Generation Facilities or as modified by Part D, Item 1.
2. The Licensee shall operate the Snare Rapids Power Generation Facilities in a manner such that:
 - a) the Big Spruce Reservoir regulated daily mean water levels do not exceed the elevation of 222.3 metres (729.3 feet, NWTPC Datum) or fall below the elevation of 217.9 metres (715.0 feet, NWTPC Datum). During periods of high flow the maximum level must not exceed 222.5 metres (730.0 feet, NWTPC Datum). Exceptions to the minimum can be made only after a written request is filed by the Licensee with the office of the Board and a letter of approval is received from the Board;
 - b) the control structures referred to on Drawings NCP 13408, NCP 13387, NCP 103-602, SN 2972B on the Big Spruce Reservoir are operated to comply with Part C, Item 2 a); and
 - c) the dam and respective reservoirs as defined under the Snare Rapids Power Generation Facilities are maintained to the satisfaction of an Inspector.
3. The Licensee shall operate the Snare Falls Power Generation Facilities in a manner such that:
 - a) the Snare Falls forebay regulated daily mean water levels do not exceed the elevation 202.4 metres (664.0 feet, NWTPC Datum), or fall below the elevation of 201.8 metres (662.0 feet, NWTPC Datum). During periods of high flow the maximum level may vary between 202.4 metres (664.0 feet, NWTPC Datum) and 203.6 metres (668.0 feet, NWTPC Datum). Exceptions to the minimum level of 201.8 metres (662.0 feet, NWTPC Datum) can be made only after a written request is filed with the office of the Board and a letter of approval is received from the Board;
 - b) the control structures as referred to on Drawings NCP 13621, NCP 13653, NCP 13666 and NCP 13648 on the Snare Falls forebay are operated to comply with Part C, Item 3 a); and
 - c) the dams and respective reservoirs as defined under the Snare Falls Power Generation Facilities are maintained to the satisfaction of an Inspector.
4. The Licensee shall operate the Snare Forks Power Generation Facilities in a manner such that:
 - a) the Snare Forks forebay regulated daily mean water levels do not exceed the elevation 175.26 metres (575.0 feet, NWTPC Datum), or fall below the elevation of 173.13 metres (568.0 feet, NWTPC Datum). Exceptions to the minimum level of 173.13 metres (568.0 feet, NWTPC Datum) can be made only after a written request is filed with the office of the Board and a letter of approval is received from the Board;
 - b) the control structures as referred in Figures 9 and 10 in the report titled "Documentation in Support of the Snare Hydro Water License Renewals", dated April 1998 and a cover letter and application dated July 1, 1998; on the Snare Forks forebay are operated to comply with Part C, Item 4 a); and

- c) the dams and respective reservoirs as defined under the Snare Forks Power Generation Facilities are maintained to the satisfaction of an Inspector.
5. The flow in the river channel downstream of the Snare Falls Power Generation Facility can be zero (0) m³/s for a maximum period of 24 hours.
6. The flow in the river channel downstream of the Snare Forks Power Generation Facility can be zero (0) m³/s for a maximum period of 24 hours.
7. The Licensee shall submit to the Board for approval by September 1, 1999, a Water Management and Reservoir Operation Plan in accordance to the 1999 Canadian Dam Association's "Dam Safety Guidelines". The Licensee should develop the Plan in accordance to the Guideline document following the Operation, Maintenance, and Operation (OMS) Manual format.

In addition to conforming to the Guidelines, the plan shall include, but not be limited to the following:

- a) a standard format for the Six (6) Month Reservoir Operation Plan and follow-up requirements;
 - b) system energy consumption characteristics (current and forecasted);
 - c) system generation forecast, long range diesel generation forecast, proposed power generation strategy (hydro and diesel generation);
 - d) the past Six (6) Month Reservoir Operation Plan that includes a water supply forecast, actual flows and water levels for the reservoirs;
 - e) precipitation including snowfall accumulations (snow water equivalent) and expected surface run off for the past six (6) month period;
 - f) forecast flows and water level for the next six (6) months for the Big Spruce Reservoir; water use efficiency, and projected targets for all facilities;
 - g) commentary and rationale on any unusual operations or potential Water Licence non-compliance; and
 - h) recommendations from the previous Six (6) Month Reservoir Operation Plan reports and dam safety inspections related to the Water Management and Reservoir Operation Plan and the actions taken to address the recommendations.
8. The Licensee shall implement the Plan referred to in Part C, Item 7 as and when approved by the Board.
 9. The Licensee shall submit the Six (6) Month Reservoir Operation Plans to the Board by June 30 and December 31 of each year to forecast monthly average river inflow and outflow in cubic metres per second, reservoir levels, and all required alterations that may affect downstream flow and reservoir levels for the six-month period following these dates.
 10. The Licensee shall file the existing Six (6) Month Reservoir Operation Plans in accordance to Part C, Item 9 to the Board, until after the Plan referred in Part C, Items 7 and 8 have been submitted and approved by the Board.

11. The Licensee shall submit to the Board for approval by September 1, 1999, new stage-discharge curves and the methods used to determine the stage-volume curves for all the Power Generation Facilities and spillways. The Licensee shall submit to the Board, new stage-discharge curves for the spillways each time the Power Generation Facilities and spillways are modified in accordance to Part D, Item 1 of the Licence.
12. The Licensee shall submit to the Board for approval by December 1, 2000, detailed inundation maps of the reservoirs (pre- and post construction flooding) to allow for the development of a reservoir(s) area capacity curve. The Licensee shall also include the methods and tables used to determine the reservoir(s) area capacity curve.
13. The Licensee shall conduct Dam Safety Reviews of all Power Generation Facilities by a qualified geotechnical engineer registered in the Northwest Territories. This inspection shall be undertaken by December 1, 2000, when the annual water levels in the Big Spruce Reservoir are high and the Snare River is under normal operating conditions, and every five (5) years thereafter or unless otherwise approved by the Board. The Dam Safety Review inspections and dam safety inspections will be conducted during the year at the discretion of a Geotechnical Engineer or other qualified engineers.

The engineer's report shall be submitted to the Board no later than sixty (60) days after the inspection, and include a covering letter from the Licensee outlining an implementation plan to respond to the engineer's recommendations. The Licensee shall incorporate the report recommendations in the appropriate and revised Emergency Preparedness Plan, Water Management and Reservoir Operation Plan, and the respective Six Month Reservoir Operation Plans. The Licensee shall provide documentation and rationale of any decisions that deviate from the engineer's Dam Safety Review recommendations.

The Dam Safety Review shall:

- a) be in accordance with the Canadian Dam Association Guidelines and subject to any updated and approved Guidelines;
- b) be completed by a qualified engineer registered in the Northwest Territories; and
- c) be completed at a minimum five (5) year intervals, or unless otherwise approved by the Board.

In addition to conforming to the Guidelines, the Review shall include, but not be limited to the following:

- a) a classification of each dam;
- b) Dam Safety Review site inspections and dam safety inspections frequency;
- c) an operating procedures review;
- d) testing of discharge facilities;
- e) testing of stand-by equipment (including generators);

- f) a review of maintenance equipment;
 - g) a review of surveillance and monitoring methods and frequency;
 - h) a review of emergency preparedness; and
 - i) a review of compliance with previous reports.
14. If, during the period of this Licence, a failure to comply with conditions specified by Part C, Items 2, 3, or 4 of this Licence occurs, or is foreseeable, the Licensee shall employ the Emergency Preparedness Plan and submit to an Inspector a detailed report on each occurrence not later than thirty (30) days after initially reporting the event.
15. The Licensee shall submit to the Board for approval by December 31, 2000, an engineering assessment report of the dams, spillway structures, and associated engineered structures undertaken by a Geotechnical Engineer. The assessment shall include, but not be limited to the following:
- a) verification of the design specifications of the engineered facilities;
 - b) determination of the impermeable core;
 - c) remediation plan and/or dam construction plan as referred to in Part D, Item 1, to address any engineered facilities that are not constructed to design specifications;
 - d) determination of the maximum allowable freeboard allowances for the reservoirs and forebays;
 - e) the recommended water levels and (high flow periods, maximum water levels, and minimum water levels) as referred to in Part C, Items 2, 3, and 4;
 - f) environmental impacts, Licence Plan revisions, and regulatory requirements, if the water levels as referred to in Part C, Items 2, 3, and 4 were changed; and
 - g) the engineer's report shall be submitted to the Board no later than thirty (30) days after the assessment inspection, and include a covering letter from the Licensee outlining an implementation plan to respond to the engineer's recommendations. The Licensee shall provide documentation and rationale of any decisions that deviate from the engineer's recommendations.
16. The Licensee shall operate the Power Generation Facilities as referred to in Part C, Items 2, 3, and 4 of the Licence, until such time as the Licensee's approval request and assessment report referred to in Part C, Item 15 has been approved by the Board.

PART D: CONDITIONS APPLYING TO MODIFICATIONS

1. The Licensee may, without written consent from the Board, carry out modifications to the Power Generation Facilities provided that such modifications are consistent with the terms of this Licence and the following requirements are met:
 - a) the Licensee has notified the Board in writing of such proposed modifications at least sixty (60) days prior to beginning the modifications,
 - b) such modifications do not place the Licensee in contravention of either the Licence or the *Act*;
 - c) the Board has not, during the sixty (60) days following the notification of the proposed modifications, informed the Licensee that review of the proposal will require more than sixty (60) days; and
 - d) the Board has not rejected the proposed modifications.
2. Modifications for which all of the conditions referred to in Part D, Item 1, have not been met, can be carried out only with the written consent of the Board.
3. The Licensee shall provide to the Board as-built plans and drawings of the modifications referred to in Part D, Item 1 within ninety (90) days of their completion

PART E: CONDITIONS APPLYING TO CONTINGENCY PLANNING

1. The Licensee shall submit to the Board for approval by December 1, 1999, an Emergency Preparedness Plan in accordance with the Canadian Dam Association's Guidelines.

In addition to conforming to the Guidelines, the plan shall include, but not be limited to the following:

- a) an evaluation and identification of potential emergencies;
 - b) preventative actions procedures;
 - c) a description of the notification procedures;
 - d) a notification flowchart;
 - e) a description of the communication system;
 - f) a description of the access to the Power Generation Facilities;
 - g) the procedures and responses during periods of darkness;
 - h) the procedures and responses during periods of adverse weather conditions;
 - i) a description and inventory of equipment sources;
 - j) a description and inventory of the stockpiles of supplies and materials;
 - k) a description and inventory of emergency power sources;
 - l) inundation maps;
 - m) a description of the warning systems;
 - n) the maintenance and testing of the EPP; and
 - o) personnel training.
2. If not approved by the Board, the Plan referred to in Part E, Item 1 shall be revised and submitted to the Board for approval within thirty (30) days after receiving notification of the Board's decision.
 3. The Licensee shall submit to the Board for approval by December 1, 1999, a revised Spill Contingency Plan in accordance with the Board's "Guidelines for Contingency Planning" dated January 1987 and the Canadian Dam Association's Guidelines.

In addition to conforming to the Guidelines, the Plan shall include, but not be limited to: a description of notification and communication procedures to advise any downstream water users.
 4. The Licensee shall revise the Plan referred to in Part E, Item 3, if not approved by the Board. The Plan shall be revised and submitted to the Board for approval within three (3) months of receiving notification of the Board's decision.

5. The Licensee shall annually review the Contingency Plans and modify them to reflect any changes in operation, technology, and personnel. Any proposed modifications shall be submitted to the Board for approval.
6. The Licensee shall implement the Emergency Preparedness Plan and notify an Inspector immediately should a failure of any of the structures associated with the Power Generation Facility occur, or seem likely to occur, which would result in an uncontrolled release of water.
7. The Licensee shall provide the Board with detailed written reports of each event referred to in Part E, Item 6. These reports shall be submitted to the Board not later than thirty (30) days after the event has terminated.
8. If, during the period of this Licence, an unauthorized discharge of waste occurs, or if such a discharge is foreseeable, the Licensee shall:
 - a) employ the appropriate Spill Contingency Plan;
 - b) advise the Inspector immediately via the 24 Hour Spill Report Line (867) 920-8130; and
 - c) submit to an Inspector a detailed report on each occurrence not later than thirty (30) days after initially reporting the even

PART F: CONDITIONS APPLYING TO CLOSURE AND RECLAMATION

1. The Licensee shall submit to the Board for approval by December 1, 2000, an Interim Abandonment and Reclamation Plan in accordance with the Canadian Dam Association's Guidelines.
2. The Licensee shall revise the Plan referred to in Part F, Item 1, if not approved by the Board. The Plan shall be revised and submitted to the Board for approval within three (3) months of receiving notification of the Board's decision.
3. The Licensee shall annually review the approved Abandonment and Reclamation Plan and modify it to reflect any changes in operation, technology, and schedule. Any proposed modifications shall be submitted to the Board for approval.
4. The Licensee shall complete the restoration work within the time schedule specified in the Plan, or as subsequently revised and approved by the Board.
5. Notwithstanding the time schedule referred to in the Abandonment and Reclamation Plan, the Licensee shall endeavour to carry out progressive reclamation of areas which are abandoned prior to closure of operations.
6. The Licensee shall have a Final Abandonment and Reclamation Plan approved by the Board prior to abandoning any of the Power Generation Facilities.
7. Compliance with the Abandonment and Reclamation Plan specified in this Licence shall not limit the legal liability of the Licensee, other than liability arising by operation of this Act.

WEK'EEZHII LAND AND WATER BOARD

LICENSEE: Northwest Territories Power Corporation
LICENCE NUMBER: N1L4-0150
EFFECTIVE DATE OF LICENCE: May 30, 1999
EFFECTIVE DATE OF SURVEILLANCE NETWORK PROGRAM: May 30, 1999

Surveillance Network Program (SNP)

A. Location and Description of Sampling Stations

<u>Station</u>	<u>Description</u>
0150-1	Big Spruce Reservoir Forebay water level at the Snare Rapids Dam.
0150-2	Powerhouse flow at Snare Rapids.
0150-3	Spillway 5B Flow.
0150-4	Reservoir Forebay water level at the Snare Falls Dam.
0150-5	Powerhouse flow at Snare Falls.
0150-6	Spillway flow at Snare Falls.
0150-7	Reservoir Forebay water level at the Snare Forks Dam.
0150-8	Powerhouse flow at Snare Forks.
0150-9	Spillway flow at Snare Forks.

B. Flow and Volume Measurement Requirements

1. Daily minimum, maximum, and mean forebay water levels shall be measured and recorded in metres at Surveillance Network Program Station Numbers 0150-1 (Snare Rapids), 0150-4 (Snare Falls), and 0150-7 (Snare Forks).
2. Daily minimum, maximum, and mean water flow rates shall be measured and recorded in cubic metres per second through the powerhouses located at Surveillance Network Program Station Numbers 0150-2 (Snare Rapids), 0150-5 (Snare Falls), and 0150-8 (Snare Forks).
3. Daily and monthly mean power production shall be recorded in Kilowatts at each powerhouses located at Surveillance Network Program Station Numbers 0150-2 (Snare Rapids), 0150-5 (Snare Falls), and 0150-8 (Snare Forks).

4. Daily minimum, maximum, and mean water flow rates shall be measured and recorded in cubic metres per second over each spillway located at Surveillance Network Program Station Numbers 0150-3 (Snare Rapids), 0150-6 (Snare Falls), and 0150-9 (Snare Forks).

C. Other Monitoring Requirements

1. The Licensee shall submit to the Board for approval by December 1, 1999, a plan and implementation schedule for an aquatic study that has the objective to obtain environmental information which will provide an understanding of the present status of the Snare River system from the Big Spruce Reservoir to Strutt Lake inclusively.

The study should include fish, sediments, and water. The Department of Indian Affairs and Northern Development's document titled "Guidance for Northern Aquatic Effects Monitoring" dated October 1, 1997 can provide additional guidance for the development of the study design.

2. The Licensee shall revise the Plan referred to in Part C, Item 1, if not approved by the Board. The Plan shall be revised and submitted to the Board for approval within three (3) months of receiving notification of the Board's decision.

D. Reports

1. The Licensee shall within thirty (30) days of the end of each quarter being reported, submit to the Board a Quarterly Report (January to March, April to June, July to September, and October to December inclusive). These reports shall contain all required data and information in an electronic and printed format acceptable to the Board, required by Part B, Items 1, 2, 3, and 4 of the "Surveillance Network Program".

Signed on behalf of the WEK'EEZHII LAND AND WATER BOARD,



Witness

August 25, 2022

Date



Mr. Mason Mantla, Chair
Wek'èezhíi Land and Water Board

August 25, 2022

Date