



PO Box 32, Wekweètì NT X0E 1W0
Tel: 867-713-2500 Fax: 867-713-2502

#1-4905 48th Street, Yellowknife NT X1A 3S3
Tel: 867-765-4592 Fax: 867-765-4593
www.wlwb.ca

May 16, 2024

File:W2023L4-0001

David Dewar, Director Health, Safety & Environment
Northwest Territories Power Corporation
4 Capital Drive,
Hay River, NT, X0E 1G2

Sent by email

Dear David Dewar,

Re: Snare Hydroelectric Facility – Renewal Issuance Package – Water Licence W2023L4-0001 – Power - Snare River, NT

The Wek'èezhì Land and Water Board (Board) met on April 3, 2024 and considered the renewal Application Package from Northwest Territories Power Corporation (NTPC) for Water Licences N1L4-0150 and W2014L4-0001 for the Snare Hydroelectric Facility (Project) in accordance with the *Waters Act*.

Under subsection 72.13 of the *Mackenzie Valley Resource Management (MVRMA)* and as delegated under Schedule A of the *Delegation Instrument*, the Minister of Environment and Climate Change has approved Water Licence (Licence) W2023L4-0001 (attached) for a term of 39 years, effective May 16, 2024 and expiring May 17, 2063. The Licence is supported by the Board's Reasons for Decision. These documents are posted to the Board's Public Registry.¹

Submission Requirements

Please refer to Attachment A of the Licence for a complete summary and timetable of submissions required for this Licence. The Board's decisions on submissions that were considered in conjunction with the renewal Application Package are set out below.

¹ See WLWB Online Registry (www.wlwb.ca/) for [Snare Hydro – WL Renewal - Recommendation to Minister and Reasons for Decision – Apr 9 24](#).

Management Plans – Approved

The Board has approved the following Plans:

Condition Number and Title	Title of Plan (Version)	Date Approved
Part B, Condition 20, ENGAGEMENT PLAN	Engagement Plan (V1) ²	April 3, 2024
Part F, Condition 18, WASTE MANAGEMENT PLAN	Waste Management Plan (V5) ³	April 3, 2024
Part H, Condition 1, EMERGENCY PREPAREDNESS PLAN	Emergency Preparedness Plan (V9) ⁴	April 3, 2024
Part H, Condition 3, SPILL CONTINGENCY PLAN	Spill Contingency Plan (V6) ⁵	April 3, 2024

Management Plans – Revisions Required

The Board requires that the following Plans be revised to include all changes detailed in the Reasons for Decision and submitted by the dates outlined in the following table.

Condition Number and Title	Title of Plan (Version)	Version and Date Revision Due
Part B, Condition 20, ENGAGEMENT PLAN	Engagement Plan	90 days of the effective date of the Licence
Part F, Condition 18, WASTE MANAGEMENT PLAN	Waste Management Plan (V5.1)	V5.1; 90 days of the effective date of the Licence
Part H, Condition 1, EMERGENCY PREPAREDNESS PLAN	Emergency Preparedness Plan (V9.1)	V9.1; 90 days of the effective date of the Licence
Part H, Condition 3, SPILL CONTINGENCY PLAN – REVISED	Spill Contingency Plan (V6.1)	V6.1; 90 days of the effective date of the Licence

Management Plans – Not Approved

The Board did not approve the Conceptual Closure and Reclamation Plan⁶ submitted with the renewal Application Package as explained in the Reasons for Decision.⁷ The Board requires the interim Closure and Reclamation Plan be submitted, for approval, **within 18 months** of the effective date of the Licence, as per Part I, Condition 1.

² See WLWB Online Registry for [Snare Hydro- Engagement Plan - Version 1.0 - Jul 10 23.](#)

³ See WLWB Online Registry for [Snare Hydro - Waste Management Plan - Version 5 - Jul 10 23.](#)

⁴ See WLWB Online Registry for [Snare Hydro - Emergency Preparedness Plan - Version 9 - Jul 10 23.](#)

⁵ See WLWB Online Registry for [Snare Hydro - Spill Contingency Plan - Version 6 - Jul 10 23](#)

⁶ See WLWB Online Registry for [Snare Hydro - Closure and Reclamation Plan - Version 2.0 - Jul 10 23.](#)

⁷ See WLWB Online Registry for [Snare Hydro – WL Renewal - Recommendation to Minister and Reasons for Decision – Apr 9 24.](#)

Other Plans/Reports

The Board requires the following documents be submitted for approval by the dates outlined in the following table. The Board has explained its further directives to NTPC in the Reasons for Decision.

Condition Number and Title	Title of Plan	Date Due
Part B, Condition 21, CLIMATE CHANGE REPORT	Climate Change Report	December 31, 2028
Part E, Condition 4, GEOCHEMICAL CHARACTERIZATION AND MANAGEMENT PLAN	Geochemical Characterization and Management Plan	90 days prior to use of quarry rock for Construction
Part F, Condition 16, SEPTIC FIELDS SPECIAL STUDY	Septic Fields Special Study	Within 90 days following the effective date of the Licence
Part F, Condition 17, SEPTIC FIELDS SPECIAL STUDY REPORT	Septic Fields Special Study Report	90 days after completion of Septic Fields Special Study

Updated Schedule

The Board also requires NTPC to submit an update to Schedule 3, Condition 1 for the Climate Change Report required by Part B, Condition 21, as explained in the Board's Reasons for Decision. The schedule update is to be submitted **no later than a year** following issuance of the Licence.

Inspectors

The Inspectors referred to in the Licence can be contacted at the regional GNWT-ECC offices.⁸

Licence Processes and Additional Information

Sections 5 and 6 of the Land and Water Board (LWB) *Guide to the Water Licensing Process*⁹ (Guide) contain detailed information on licence enforcement and potential post-issuance processes, such as amendments to conditions, and assignment to another company. Please be familiar with these sections of the Guide and reach out to Board staff with any questions about LWB processes related to the Licence.

Full cooperation of NTPC is anticipated and appreciated. Please contact Cassandra DeFrancis via [email](#) or at (867) 765-4581 with any questions or concerns regarding this letter.

⁸ See GNWT-ECC Regional Offices webpage (<https://www.ecc.gov.nt.ca/en/regional-offices>) for regional contact information.

⁹ See WLWB Policies and Guidelines webpage for LWB [Guide to the Water Licensing Process](#).

Yours sincerely,

A handwritten signature in black ink, appearing to read 'Mason Mantla', written in a cursive style.

Mason Mantla
Chair, Wek'èezhìi Land and Water Board

BCC'd to: NTPC Distribution List
 Meghan MacIntyre-Newell – Inspector, GNWT-ECC
 Rick Walbourne – Director, Regulatory and Permitting, GNWT-ECC

Attached: Water Licence W2023L4-0001



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Northwest Territories Power Corporation

Water Licence W2023L4-0001

Pursuant to the *Waters Act* and the Waters Regulations,
the Wek'èezhì Land and Water Board grants this Water Licence to:

Northwest Territories Power Corporation

(Licensee)

of 4 Capital Drive, HAY RIVER, NT X0E 1G2

(Mailing Address)

hereinafter called the Licensee, to proceed with the following undertaking, subject to the annexed definitions and conditions contained therein:

Location:	Within the Snare River Watershed: Snare Rapids; Snare Falls; Snare Cascades; Snare Forks
Water Management Area:	NORTHWEST TERRITORIES 01
Purpose:	Power
Type:	Type A
Quantity of Water not to be exceeded:	See Part D, Conditions 1 and 2
Effective Date:	May 16, 2024
Expiry Date:	May 17, 2063

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Chair
Wek'èezhì Land and Water Board

A handwritten signature in blue ink, appearing to be "K. ...".

Witness

A large, stylized signature in black ink, appearing to be "J. ...".

Minister of Environment and Climate Change

Type A Water Licence W2023L4-0001

Northwest Territories Power Corporation – Snare Hydro Facility

Table of Contents

Part A: [Scope](#) and [Defined Terms](#)

[Part B](#): General Conditions

[Part C](#): Security

[Part D](#): Water Use

[Part E](#): Construction

[Part F](#): Waste and Water Management

[Part G](#): Aquatic Effects Monitoring

[Part H](#): Spill Contingency Planning

[Part I](#): Closure and Reclamation

Schedules

[Schedule 1](#): Surveillance Network Program (Part B)

[Schedule 2](#): Annual Water Licence Report (Part B)

[Schedule 3](#): Construction (Part E)

[Schedule 4](#): Waste and Water Management (Part F)

[Schedule 5](#): Closure and Reclamation (Part I)

Attachments:

[Attachment A](#): Concordance Table of Items Requiring Submission

[Attachment B](#): Revision History Table



Part A: Scope and Defined Terms

Scope:	Condition Title
1. This Licence entitles the Licensee to use Water for Power Generation activities at the Snare River Hydroelectric System.	SCOPE
The scope of this Licence includes the following:	
a) Storage and diversion of water for hydroelectric generation in the Power Generation Facilities at Snare Rapids, Snare Falls, Snare Cascades, and Snare Forks;	
b) Withdrawal of Water for Camp Use at Snare Rapids;	
c) Withdrawal of Water for use at day-use buildings for the Project;	
d) Withdrawal of Water for roads and site maintenance, and fire and dust suppression;	
e) Withdrawal of Water for winter road construction and maintenance;;	
f) Operation and maintenance of 5B, Snare Falls, Snare Cascades, and Snare Forks Spillways, and all side Dams across the Project;	
g) Operation and maintenance of all bridges and culverts across the Project; and	
h) Progressive Reclamation and associated Closure and Reclamation activities.	
2. The scope of the Project is as described in the Preliminary Screening Determinations for W2023L4-0001 dated October 13, 2023, and January 24, 2024.	SCOPE – PRELIMINARY SCREENING
3. This Licence is issued subject to the conditions contained herein with respect to the use of Water and the Deposit of Waste in any Waters or in any place under any conditions where such Waste or any other Waste that results from the Deposit of such Waste may enter any Waters. Any change made to the <i>Waters Act</i> and/or Waters Regulations that affects licence conditions and defined terms will be deemed to have amended this Licence.	LEGISLATION SUBJECT TO CHANGE
4. Compliance with this Licence does not relieve the Licensee from responsibility for compliance with the requirements of any applicable federal, territorial, Tłı̨chǫ, or municipal legislation.	LEGISLATIVE COMPLIANCE

Defined Terms ¹

Acid Rock Drainage – acidic Water, often with elevated sulphate concentrations, that occurs as a result of oxidation of sulphide minerals contained in rock or other materials that are exposed as a result of natural weathering processes, Construction, or Project activities.

Action Level – a predetermined qualitative or quantitative trigger which, if exceeded, requires the Licensee to take appropriate actions.

¹ Defined terms are capitalized throughout the License, including when used in other definitions.



Board – the Wek’èezhì Land and Water Board established under Part 3 of the *Mackenzie Valley Resource Management Act*.

Closure Criteria - standards that measure the success of selected closure activities in meeting closure objectives. Closure criteria may have a temporal component (e.g., a standard may need to be met for a pre-defined number of years). Closure criteria can be site-specific or adopted from territorial/federal or other standards and can be narrative statements or numerical values.

Closure Objectives - statements that describe what the selected closure activities are aiming to achieve; they are guided by the closure principles. Closure objectives are typically specific to project components, are measurable and achievable, and allow for the development of closure criteria.

Closure and Reclamation – the process and activities that facilitate the return of areas affected by the Project to viable and, wherever practicable, self-sustaining ecosystems that are compatible with a healthy environment and human activities.

Closure and Reclamation Plan (CRP) – a document, developed in accordance with this Licence, that clearly describes the Closure and Reclamation for the Project.

Construction – any activities undertaken during any phase of the Project to construct, build, upgrade, or replace any structures, facilities, or components of, or associated with, the Project.

Dam – a structure that meets the definition of a Dam as per the *Dam Safety Guidelines* and is intended to contain, withhold, divert, or retain Water or Waste.

Dam Class – the category of dam based on its failure consequences, as described in the *Dam Safety Guidelines*.

Dam Safety Engineer – a qualified Professional Engineer whose role is to ensure all Dams and related hydraulic structures are maintained and operated in a manner that minimizes risks to public safety, the environment, and NTPC Operations, and in alignment with the Dam Safety Guidelines.

Dam Safety Guidelines – the Canadian Dam Association (CDA) *Dam Safety Guidelines*, including the CDA *Dam Safety Guidelines Technical Bulletins*.

Deposit of Waste – a deposit of Waste in any Water or in any other place under conditions in which the Waste, or any other Waste that results from the deposit of that Waste, may enter any Waters.

Discharge – a direct or indirect deposit or release of any Water or Wastewater to Water to the Receiving Environment.

Effluent – a Wastewater Discharge.



Emergency Preparedness Plan (EPP) - a document that contains procedures for dealing with emergencies at the Dams and associated facilities; and includes communication directories and inundation maps showing upstream and downstream water levels and arrival times of floods.

Engagement Plan – a document, developed in accordance with the LWB *Engagement and Consultation Policy* and the *Engagement Guidelines for Applicants and Holders of Water Licences and Land Use Permits*, that clearly describes how, when, and which engagement activities will occur with an affected party during the life of the Project.

Engineered Structure – any structure or facility related to Water Use or the disposal or Deposit of Waste that is associated with the Project and designed by a Professional Engineer, including but not limited to: the Snare Rapids 5B Spillway, Dams, and power generation facilities; the Snare Falls Dams, spillway, and power generation facilities; the Snare Forks Dams, spillway, and power generation facilities; and the Snare Cascades Dam, spillway, and power generation facilities.

Freeboard – the vertical distance between the still Water or Wastewater line and the lowest elevation of the effective Water or Wastewater containment crest on the upstream slope of a containment structure.

Greywater – all liquid Waste from showers, baths, sinks, kitchens, and domestic washing facilities, but does not include Toilet Waste.

Groundwater – as defined in section 1 of the Waters Regulations: all water in a zone of saturation below the land surface, regardless of its origin.

Hazardous Waste - a Waste which, because of its quantity, concentration, or characteristics, may be harmful to human health or the environment when improperly treated, stored, transported, or disposed of.

Inspector – an Inspector designated by the Minister under subsection 65(1) of the *Waters Act*.

Licensee – the holder of this Licence.

Metal Leaching – the release of metals and metalloids in leachate, Seepage, or drainage from rock or other materials associated with the Project.

Minister – the Minister of the Government of the Northwest Territories (GNWT) – Environment and Climate Change.

NWTPC Datum at Snare Cascades – an assumed (relative) elevation of 189.20 metres / 620.7 feet with an absolute elevation of 194.37 metres / 637.7 feet, which is assigned to the top of the steel pin (No.11) embedded in bedrock adjacent to the upper entrance to the Powerhouse.

NTPC Datum at Snare Falls - 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.



NTPC Datum at Snare Forks - 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.

NTPC Datum at Snare Rapids - 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 Southwest corner of the Snare Rapids plant intake gate house and adjacent to the entrance door.

Ordinary High-Water Mark – the usual or average level to which a Watercourse rises at its highest point and remains for sufficient time so as to change the characteristics of the land. In flowing Watercourses (rivers, streams), this refers to an active channel/bank-full level, which is often the 1:2-year flood flow return level. In inland lakes, wetlands or marine environments, it refers to those parts of the Watercourse bed and banks that are frequently flooded by Water so as to leave a mark on the land and where the natural vegetation changes from predominantly aquatic vegetation to terrestrial vegetation (excepting Water tolerant species). For reservoirs, this refers to normal high operating levels (full supply level).

Potentially Acid Generating Rock – any rock that has the potential to produce Acid Rock Drainage.

Power Generation Facilities at Snare Cascades - the Snare Cascades Forebay, power canal dyke, tailrace, intake and associated structures. powerhouse.

Power Generation Facilities at Snare Falls - 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.

Power Generation Facilities at Snare Forks - the Strutt Lake Dam and Freeboard Dam Extension, intake structure, Snare Forks Main Dam, Snare Forks forebay, North Dyke, Dyke Number 1, Dyke Number 2, Dyke Number 3, Snare Forks Spillway Weir and channel, Snare Forks Bridge, power tunnel and penstock, powerhouse, tail race, and associated structures.

Power Generation Facilities at Snare Rapids - the Big Spruce Reservoir, intake structure, Snare Rapids Main Dam, Side Dam 4, Spillway 5B and Dam, Side Dam 9B, Snare Rapids forebay, Snare Rapids Spillway Bridge, power tunnel and penstock, powerhouse, tail race, and associated structures.

Professional Engineer – a person registered with the Northwest Territories and Nunavut Association of Professional Engineers and Geoscientists to practice as a Professional Engineer in the Northwest Territories as per the territorial *Engineering and Geoscience Professions Act* and whose professional field of specialization is appropriate to address the components of the Project at hand.

Progressive Reclamation – Closure and Reclamation activities conducted during the operating phase of the Project.

Project – the undertaking described in Part A, Conditions 1 and 2.



Receiving Environment – the natural environment that, directly or indirectly, receives any Waste from the Project.

Receiving Water – the Water in the Receiving Environment that receives any direct or indirect Deposit of Waste from the Project.

Reclamation Research – literature reviews, laboratory or pilot-scale tests, engineering studies, and other methods of resolving uncertainties and answering questions pertaining to environmental risks for the purpose of providing data and information that will reduce uncertainties for closure options, selected closure activities, and/or closure criteria.

Remediation – the removal, reduction, or neutralization of substances, Wastes, or hazardous materials from a site in order to prevent or minimize any adverse effects on the environment and public safety, now or in the future.

Reservoir - a body of water which is impounded by one or more dams, inclusive of its shores and banks,; within the Snare Cascades Power Generation Facilities the main reservoir is Big Spruce Lake with smaller reservoirs upstream of the Snare Falls, Snare Cascades and Snare Forks facilities.

Runoff – the overland flow of Water or Wastewater that occurs when precipitation, meltwater, or other Water is not absorbed by the land.

Seepage – any Water or Waste that drains, passes through, or escapes from any structure designed to contain, withhold, divert, or retain Water or Waste.

Septic Fields Special Study – a study to verify that the septic fields for the Project are not depositing waste, either directly or indirectly into the Receiving Water.

Sewage – all Toilet Wastes and Greywater.

Sewage Disposal Facilities – the area(s) and structures designated to contain and treat Sewage.

Snare Hydroelectric Facility - includes the Power Generation Facilities, and associated roads, camps, airstrip, transmission lines and other associated structures on the Snare River.

Spill Contingency Plan (SCP) – a document developed for the Project in accordance with INAC's *Guidelines for Spill Contingency Planning*.

Sump – a human-made excavation or a natural depression designated for depositing Water and/or Waste.

Surveillance Network Program (SNP) – a monitoring program required by this Licence and detailed in Schedule 1.

Toilet Wastes – all human excreta and associated products, not including Greywater.



Traditional Knowledge – the cumulative, collective body of knowledge, experience and values built up by a group of people through generations of living in close contact with nature. It builds upon the historic experiences of a people and adapts to social, economic, environmental, spiritual, and political change.

Unauthorized Release – a release to the Receiving Environment of any Water or Waste not authorized under this Licence.

Waste – as defined in section 1 of the *Waters Act*:

- a) a substance that, if added to water, would degrade or alter or form part of a process of degradation or alteration of the quality of the water to an extent that is detrimental to its use by people or by an animal, fish or plant, or
- b) water that contains a substance in such a quantity or concentration, or that has been so treated, processed or changed, by heat or other means, that it would, if added to other water, degrade or alter or form part of a process of degradation or alteration of the quality of that water to the extent described in paragraph (a), and includes
- c) a substance or water that, for the purposes of the *Canada Water Act*, is deemed to be waste,
- d) a substance or class of substances prescribed by regulations made under subparagraph 63(1)(b)(i),
- e) water that contains a substance or class of substances in a quantity or concentration that is equal to or greater than a quantity or concentration prescribed in respect of that substance or class of substances by regulations made under subparagraph 63(1)(b)(ii), and
- f) water that has been subjected to a treatment, process or change prescribed by regulations made under subparagraph 63(1)(b)(iii).

Waste Management Plan (WMP) – a document, developed in accordance with the MVLWB *Guidelines for Developing a Waste Management Plan*, that describes the methods of Waste management for the Project from Waste generation to final disposal.

Wastewater – any Water that is generated by Project activities or originates on-site, and which contains Waste, and may include, but is not limited to, Runoff, Seepage, Sewage, Minewater, and Effluent.

Water – as defined in section 1 of the *Waters Act*: water under the administration and control of the Commissioner, whether in a liquid or frozen state, on or below the surface of land.

Watercourse – as defined in section 1 of the *Waters Regulations*: a natural watercourse, body of Water or Water supply, whether usually containing Water or not, and includes, but is not limited to, Groundwater, springs, swamps, and gulches.

Water Management Area – a geographical area of the Northwest Territories established by section 2 and Schedule A of the *Waters Regulations*.

Waters Regulations – the regulations proclaimed pursuant to section 63 of the *Waters Act*.



Water Supply Facilities – the area(s) and structures designed to collect, and supply Water for the Project.

Water Use – as defined in section 1 of the *Waters Act*: a direct or indirect use of any kind, including, but not limited to,

- a) a diversion or obstruction of waters,
- b) an alteration of the flow of waters, and
- c) an alteration of the bed or banks of a river, stream, lake or other body of water, whether or not the body of water is seasonal,

but does not include a use connected with shipping activities that are governed by the *Canada Shipping Act, 2001*.



Part B: General Conditions

Condition	Condition Title
1. The Licensee shall ensure a copy of this Licence is maintained on site at all times.	COPY OF LICENCE
2. The Licensee shall take every reasonable precaution to protect the environment.	PRECAUTION TO PROTECT ENVIRONMENT
3. In conducting its activities under this Licence, the Licensee shall make every reasonable effort to consider and incorporate any scientific information and Traditional Knowledge that is made available to the Licensee.	INCORPORATE SCIENTIFIC INFORMATION AND TRADITIONAL KNOWLEDGE
4. In each submission required by this Licence or by any directive from the Board, the Licensee shall identify all recommendations based on Traditional Knowledge received, describe how the recommendations were incorporated into the submission, and provide justification for any recommendation not adopted.	IDENTIFY TRADITIONAL KNOWLEDGE
5. All references to policies, guidelines, codes of practice, statutes, regulations, or other authorities shall be read as a reference to the most recent versions, unless otherwise noted.	REFERENCES
6. The Licensee shall ensure all submissions to the Board: <ul style="list-style-type: none"> a) Are in accordance with the LWB <i>Document Submission Standards</i> and, if applicable, <i>Geospatial Data Submissions Standards</i>; and b) Include any additional information requested by the Board. 	SUBMISSION FORMAT
7. The Licensee shall ensure management plans are submitted to the Board in a format consistent with the LWB <i>Standard Outline for Management Plans</i> , unless otherwise specified.	MANAGEMENT PLAN FORMAT
8. The Licensee shall comply with all plans, including revisions, approved pursuant to the conditions of this Licence.	COMPLY WITH SUBMISSIONS AND REVISIONS
9. The Licensee shall conduct an annual review of all plans and make any revisions necessary to reflect changes in operations, contact information, or other details. No later than March 31 each year, the Licensee shall send a notification letter to the Board, listing the documents that have been reviewed and do not require revisions.	ANNUAL REVIEW



10.	The Licensee may propose changes at any time by submitting revised plans, programs, or studies to the Board, for approval, a minimum of 90 days prior to the proposed implementation date for the changes. The Licensee shall not implement the changes until approved by the Board.	REVISIONS
11.	The Licensee shall revise any submission and submit it as per the Board’s directive.	REVISE AND SUBMIT
12.	If any date for any submission falls on a weekend or holiday, the Licensee may submit the item on the following business day.	SUBMISSION DATE
13.	The Licensee shall comply with the Schedules , which form part of this Licence, and any updates to the Schedules as may be made by the Board.	COMPLY WITH SCHEDULE(S)
14.	The Licensee shall comply with the Surveillance Network Program set out in Schedule 1, and any updates to the Surveillance Network Program as may be made by the Board.	COMPLY WITH SURVEILLANCE NETWORK PROGRAM
15.	The Schedules, the Surveillance Network Program, and any compliance dates specified in this Licence may be updated at the discretion of the Board.	UPDATES TO SCHEDULES AND COMPLIANCE DATE(S)
16.	The Licensee shall comply with all directives issued by the Board in respect of the implementation of the conditions of this Licence.	COMPLY WITH BOARD DIRECTIVES
17.	The Licensee shall ensure signs are posted for all active Surveillance Network Program stations. All sign(s) shall be located and maintained to the satisfaction of an Inspector.	POST SURVEILLANCE NETWORK PROGRAM SIGN(S)
18.	The Licensee shall install, operate, and maintain meters, devices, or other such methods for measuring or calculating the volumes of Water used to the satisfaction of an Inspector.	MEASURE WATER USE
19.	Beginning March 31, 2025 and no later than every March 31 thereafter, the Licensee shall submit an Annual Water Licence Report to the Board and an Inspector. The Report shall be in accordance with the requirements of Schedule 2, Condition 1.	ANNUAL WATER LICENCE REPORT
20.	The Licensee shall comply with the Engagement Plan , once approved.	ENGAGEMENT PLAN



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|-----|---|--|
| 21. | On December 31st beginning in 2028, and every 10 years thereafter, or as directed by the Board, the Licensee shall submit a Climate Change Report to the Board for approval, that describes how climate change has and is predicted to affect: <ul style="list-style-type: none"> a) environmental impacts of the Snare Hydroelectric Facility; and b) the efficacy of the Licence conditions and whether any changes to the Licence should be considered. The Report shall be in accordance with the requirements of Schedule 3, Condition 1. | CLIMATE CHANGE
REPORT |
| 22. | The Licensee shall immediately provide written notification to the Board and an Inspector of any non-compliance with the conditions of this Licence. | NOTIFICATION – NON-COMPLIANCE WITH
CONDITIONS |
| 23. | The Licensee shall immediately provide written notification to the Board of any non-compliance with a Board directive issued in respect of the implementation of the conditions of this Licence. | NOTIFICATION – NON-COMPLIANCE WITH
DIRECTIVES |
| 24. | The Licensee shall ensure that a copy of any written authorization issued to the Licensee by an Inspector is provided to the Board. | COPY – WRITTEN
AUTHORIZATION |

Part C: Security

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Part D: Water Use

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|----|--|---------------------------------------|
| 1. | The Licensee shall only divert Water for the Project from the Snare River for the purpose of hydroelectric generation. The Licensee may use up to 200 cubic metres per second (m ³ /s) of Water from this source. | WATER SOURCE FOR
DIVERSION |
|----|--|---------------------------------------|



2. The Licensee shall only withdraw Water as set out in the following table:

**WATER SOURCES AND
MAXIMUM VOLUME**

Water Source Name	Location	Type of Watercourse (e.g., river, lake, etc.)	Purpose of Water Use	Maximum Quantity (m ³ per day)
Big Spruce Lake	Snare Rapids Camp	Lake	Rapids Camp Use	10 cubic metres per day under normal operations; up to 20 cubic metres per day during major projects.
Snare River	Between Snare Rapids Main Dam and Snare Forks	Lake/river	Day Use Buildings	2 cubic metres per day under normal operations; up to 10 cubic metres per day during major projects.
Snare River	Between Snare Rapids Main Dam and Snare Forks	Lake/river	Roads and site maintenance	5 cubic metres per day under normal operations; up to 50 cubic metres per day during major projects.
Snare River	From Wekweèti winter road junction to Snare Forks	Lake/river	Winter Road construction and maintenance	100 cubic metres per day during construction

3. For Water Uses outlined in Part D, Condition 2, the Licensee shall only withdraw Water using the Water Supply Facilities, unless otherwise authorized temporarily in writing by an Inspector.

**WATER WITHDRAWAL
– FACILITIES**

4. Prior to withdrawing Water from the approved Water sources outlined in Part D, Condition 2, the Licensee shall post sign(s) to identify the intake for the Water Supply Facilities. All sign(s) shall be located and maintained to the satisfaction of an Inspector.

**POST WATER INTAKE
SIGN(S)**



- | | | |
|----|---|--------------------------------|
| 5. | The Licensee shall construct and maintain the Water intake(s) with a screen designed to prevent impingement or entrainment of fish. The screen shall be in accordance with the best practices outlined in Fisheries and Oceans Canada’s <i>Interim Code of Practice: End-of-Pipe Fish Protection Screens for Small Water Intakes in Freshwater</i> and <i>Fish Screen Design Criteria for Flood and Water Truck Pumps</i> . | WATER INTAKE
SCREEN |
|----|---|--------------------------------|

Part E: Construction

- | | | |
|----|--|---|
| 1. | The Licensee shall ensure that all structures intended to contain, withhold, divert, or retain Water or Waste are designed, constructed, and maintained to minimize the escape of Waste to the Receiving Environment. | OBJECTIVE –
CONSTRUCTION |
| 2. | The Licensee shall ensure that all structures intended to contain, withhold, divert, or retain Water or Wastes, and which meet the definition of a Dam as per the <i>Dam Safety Guidelines</i> are designed, constructed, maintained, and monitored to meet or exceed the <i>Dam Safety Guidelines</i> . | DAMS – GENERAL |
| 3. | The Licensee shall ensure that all Engineered Structures are constructed and maintained in accordance with the recommendations of the Professional Engineer responsible for the design, including, but not limited to, recommendations regarding field supervision and inspection requirements. | ENGINEERED
STRUCTURES –
GENERAL |
| 4. | At least 90 days prior to use of quarry rock for Construction, the Licensee shall submit to the Board, for approval, a Geochemical Characterization and Management Plan . The Plan shall be in accordance with the requirements of Schedule 4, Condition 1. | GEOCHEMICAL
CHARACTERIZATION
AND MANAGEMENT
PLAN |
| 5. | The Licensee shall ensure that all material used in Construction of the Project meets the geochemical criteria specified in the approved Geochemical Characterization and Management Plan referred to in Part E, Condition 4. | CONSTRUCTION
MATERIAL –
GEOCHEMICAL
CRITERIA |
| 6. | The Licensee shall only use material that is clean and free of contaminants and that has been authorized in writing by an Inspector. | CONSTRUCTION
MATERIAL –
SOURCE(S) |
| 7. | The Licensee shall maintain records of Construction materials for all structures and make them available at the request of the Board or an Inspector. | CONSTRUCTION
RECORDS |
| 8. | The Licensee shall maintain geochemical records of Construction materials for all structures and make them available at the request of the Board or an Inspector. | GEOCHEMICAL
RECORDS |



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| 9. | A minimum of 90 days prior to the commencement of Construction of any Engineered Structures the Licensee shall submit to the Board, for approval, a Design and Construction Plan . The Plan shall be in accordance with the requirements of Schedule 4, Condition 2. The Licensee shall not commence Construction of the Engineered Structure(s) prior to Board approval of the Plan. | DESIGN AND
CONSTRUCTION PLAN |
| 10. | A minimum of 90 days prior to the commencement of Construction of any Engineered Structures, the Licensee shall submit to the Board, Design Drawings stamped and signed by a Professional Engineer. A minimum of 90 days prior to implementing any proposed changes to the Design Drawings, the Licensee shall submit revised Design Drawings to the Board. | DESIGN DRAWINGS |
| 11. | A minimum of ten days prior to the commencement of Construction of any Engineered Structure(s), the Licensee shall provide written notification to the Board and an Inspector. Notification shall include the Construction commencement date, and the name and contact information for the individual responsible for overseeing Construction. Written notification shall be provided to the Board and an Inspector if any changes occur. | NOTIFICATION –
CONSTRUCTION –
ENGINEERED
STRUCTURES |
| 12. | The Licensee shall ensure that all Engineered Structures are constructed in accordance with the Design Drawings and/or approved Design and Construction Plan(s) . | CONSTRUCT AS
DESIGNED –
ENGINEERED
STRUCTURE(S) |
| 13. | Within 90 days of the completion of the Construction of each Engineered Structure, the Licensee shall submit to the Board, an As-Built Report stamped and signed by a Professional Engineer, which shall include, but not be limited to, the following information:

a) final as-built drawings of the Engineered Structure(s), stamped and signed by a Professional Engineer;
b) documentation, with rationale, of field decisions that deviate from the Design and Construction Plans and/or Design Drawings ; and
c) any data used to support these decisions. | AS-BUILT REPORT –
ENGINEERED
STRUCTURE(S) |

Facility Dams

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| 14. | The Licensee shall retain a Dam Safety Engineer for the Snare Hydroelectric Facility. | DAM SAFETY
ENGINEER |
| 15. | The Licensee shall ensure that the Dam Safety Engineer establishes quantifiable performance objectives for the Snare Power Generation Facility and reviews the quantifiable performance objectives annually for the life of the Facility. | QUANTIFIABLE
PERFORMANCE
OBJECTIVES |



Part F: Waste and Water Management

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| 1. The Licensee shall manage Waste and Water with the objective of minimizing the impacts of the Project on the quantity and quality of Water in the Receiving Environment through the use of appropriate mitigation measures, monitoring, and follow-up actions. | OBJECTIVE – WASTE
AND WATER
MANAGEMENT |
| 2. The Licensee shall minimize erosion by implementing suitable erosion control measures that shall be located and maintained to the satisfaction of an Inspector. | EROSION CONTROL |

Operation of Structures and Facilities

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| 3. The Licensee shall construct, operate, and maintain the Snare Hydroelectric Facility to the design specifications and engineering standards, such that:

a) Any constructed structures/facilities are maintained and operated so as to prevent structural failure;
b) Any deterioration or erosion of constructed structures/facilities shall be reported immediately to an Inspector;
c) Any deterioration or erosion of constructed structures/facilities that requires repair shall be reported to an Inspector and the Board, and repaired immediately;
d) Monitoring of the facility is sufficient to ensure that:
i. Quantifiable Performance Objectives, as required in Part E, Condition 15 are being met; and
ii. Necessary changes in operation of the facility, including any additional mitigations, are identified. | SNARE
HYDROELECTRIC
FACILITY |
| 4. The Licensee shall operate the Big Spruce Reservoir so that:
a) daily mean water levels do not exceed the elevation of 222.3 metres / 729.3 feet (NTPC Datum);
b) daily mean water levels do not fall below the elevation of 217.9 metres / 715.0 feet (NTPC Datum);
c) when on September 1 of any year the inflows are below 70.43 cubic metres per second (m ³ /s), the daily mean water levels may be lowered in the following year, but shall not fall below the elevation of 217.6 metres / 714.0 feet (NTPC Datum) and, the low water period is between April 15 and August 15, and any applicable Fisheries and Oceans authorizations or requirements are satisfied; and
d) during periods of high flow, the maximum water level shall not exceed 222.5 metres / 730.0 feet (NTPC Datum). | REGULATION OF THE
BIG SPRUCE
RESERVOIR |



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| <p>5. The Licensee shall operate the Snare Falls forebay so that:</p> <ul style="list-style-type: none"> a) daily mean water levels do not exceed the elevation 202.4 metres / 664.0 feet (NTPC Datum); b) daily mean water level do not fall below the elevation of 201.8 metres / 662 feet (NTPC Datum); c) during scheduled maintenance and/or annual inspections, daily mean water levels may be lowered but shall not fall below the elevation of 201.5 metres / 661 feet (NTPC datum) and the period of low water takes place between May 1 and October 31 for a period no longer than 14 consecutive days, and any applicable Fisheries and Oceans authorizations or requirements are satisfied; and; d) during periods of high flow, the maximum level may vary between 202.4 metres / 664.0 feet and 203.6 metres / 668.0 feet (NTPC Datum). | <p>REGULATION OF THE
SNARE FALLS FOREBAY</p> |
| <p>6. The Snare Cascades Forebay daily mean water level shall not exceed 184.5 metres or fall below 181.88 metres (NTPC Datum).</p> | <p>REGULATION OF THE
SNARE CASCADES
FOREBAY</p> |
| <p>7. The Snare Forks forebay regulated daily mean water levels shall not exceed the elevation 175.26 metres / 575.0 feet or fall below the elevation of 173.13 metres / 568.0 feet (NTPC Datum)</p> | <p>REGULATION OF THE
SNARE FORKS
FOREBAY</p> |
| <p>8. The flow in the river channel downstream of the Snare Falls Power Generation Facility can be zero (0) cubic metres per second for a maximum period of 24 hours.</p> | <p>FLOWS DOWNSTREAM
OF SNARE FALLS</p> |
| <p>9. The flow in the river channel downstream of the Snare Forks Power Generation Facility can be zero (0) cubic metres per second for a maximum period of 24 hours.</p> | <p>FLOWS DOWNSTREAM
OF SNARE FORKS</p> |
| <p>10. The Licensee shall provide a Reservoir Operation Report in accordance with the requirements of Schedule 5, Condition 1.</p> | <p>RESERVOIR
OPERATION REPORT</p> |

Inspection of Structures and Facilities

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| <p>11. The Licensee shall conduct monthly inspections of the Dams or as otherwise directed by an Inspector or the Board. Records of these inspections shall be made available to the Board or an Inspector upon request.</p> | <p>MONTHLY
INSPECTION OF DAMS</p> |
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**ANNUAL
GEOTECHNICAL
ENGINEERING
INSPECTION**

12. The Licensee shall ensure that geotechnical inspections of all Engineered Structures are conducted annually, and following any events that exceed design criteria, by a Professional Engineer. The Licensee shall:
- a) A minimum of two weeks prior to the annual inspection, and when events that exceed design criteria occur, provide written notification to an Inspector; and
 - b) Within 90 days of completing the inspection, submit the Professional Engineer’s full **Annual Geotechnical Engineering Inspection Report** to the Board and an Inspector. The Report shall include:
 - i. a covering letter from the Licensee outlining an implementation plan to respond to any recommendations made by the Professional Engineer, including rationale for any decisions that deviate from the Professional Engineer’s recommendations;
 - ii. a recommendation from the Professional Engineer on whether the timing and frequency of the Dam Safety Review, required by Part F, Condition 14, should be maintained or revised; and
 - iii. a summary of any actions taken by the Licensee to address the recommendations made following the previous year’s inspection.

**NOTIFICATION – DAM
SAFETY REVIEW**

13. A minimum of ten days prior to conducting the Dam Safety Review required under Part F, Condition 15, the Licensee shall provide written notification to the Board and an Inspector. Notification shall include planned dates for the Review, and the name and contact information for the individual responsible for overseeing the Review. Written notification shall be provided to the Board and an Inspector if any changes occur.

DAM SAFETY REVIEW

14. The Licensee shall conduct a Dam Safety Review of all Power Generation Facilities every seven (7) years, or at a frequency approved by the Board. The Dam Safety Review shall be conducted in accordance with the *Dam Safety Guidelines* by a Professional Engineer.

**DAM SAFETY REVIEW
REPORT**

15. Prior to January 31 of the year following the year in which the Dam Safety Review was conducted, the Licensee shall submit the Professional Engineer’s **Dam Safety Review Report** to the Board. The Report shall be prepared in accordance with the *Dam Safety Guidelines* and shall include:
- a) a conformity table, indicating how each of the applicable requirements in the *Dam Safety Guidelines* have been met;
 - b) a statement from the Professional Engineer on the safety of the Dam;
 - c) a summary list of findings with prioritized recommendations, prepared by the Professional Engineer;



- d) a covering letter from the Licensee outlining an implementation plan to respond to any recommendations made by the Professional Engineer, including rationale for any decisions that deviate from the Professional Engineer’s recommendations;
- e) the status of and rationale for any outstanding recommendations from the previous Dam Safety Review

Discharge and Disposal Locations and Rates

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| <p>16. Within 90 days following the effective date of this Licence, the Licensee shall submit to the Board, for approval, the Septic Fields Special Study. The Study shall be in accordance with the requirements of Schedule 5, Condition 2.</p> | <p>SEPTIC FIELDS SPECIAL STUDY</p> |
| <p>17. Within 90 days following completion of the Septic Fields Special Study, or as directed by the Board, the Licensee shall submit to the Board, for approval, a Septic Fields Special Study Report in accordance with Schedule 5, Condition 3.</p> | <p>SEPTIC FIELDS SPECIAL STUDY – REPORT</p> |
| <p>18. The Licensee shall dispose of all Waste as described in the approved Waste Management Plan.</p> | <p>WASTE MANAGEMENT PLAN</p> |
| <p>19. The Licensee shall not dispose of Waste, including Wastewater, to:</p> <ul style="list-style-type: none"> a) any Watercourse; or b) to the ground surface within 100 metres of the Ordinary High-Water Mark of any Watercourse, except at the septic fields at Snare Forks and Snare Rapids, or unless authorized in writing by the Inspector. | <p>DISPOSAL LOCATION – ORDINARY HIGH-WATER MARK</p> |

Part G: Aquatic Effects Monitoring

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Part H: Contingency Planning

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| <p>1. The Licensee shall comply with the Emergency Preparedness Plan, once approved.</p> | <p>EMERGENCY PREPAREDNESS PLAN (EPP)</p> |
| <p>2. The Licensee shall ensure that Unauthorized Releases associated with the Project do not enter any Water.</p> | <p>OBJECTIVE – PREVENT WASTE INTO WATER</p> |
| <p>3. The Licensee shall comply with the Spill Contingency Plan, once approved.</p> | <p>SPILL CONTINGENCY PLAN</p> |



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| <p>4. If a spill or an Unauthorized Release occurs or is foreseeable, the Licensee shall:</p> <p>a) Implement the approved Spill Contingency Plan referred to in Part H, Condition 4;</p> <p>b) Report it immediately using the NU-NT Spill Report Form by one of the following methods:</p> <ul style="list-style-type: none"> • Telephone: (867) 920-8130 • Fax: (867) 873-6924 • E-mail: spills@gov.nt.ca • Online: Spill Reporting and Tracking Database <p>c) Notify the Board and an Inspector immediately; and</p> <p>d) Within 30 days of initially reporting the incident, or within a timeframe authorized by an Inspector, submit a detailed report to the Board and an Inspector, including descriptions of causes, response actions, and any changes to procedures to prevent similar occurrences in the future. Written notification shall be provided to the Board and an Inspector if any changes occur.</p> | <p>REPORT SPILLS</p> |
| <p>5. The Licensee shall ensure that spill prevention infrastructure and spill response equipment is in place prior to commencement of the Project.</p> | <p>SPILL PREVENTION AND RESPONSE EQUIPMENT</p> |
| <p>6. The Licensee shall restore all areas affected by spills and Unauthorized Releases to the satisfaction of an Inspector.</p> | <p>CLEAN UP SPILLS</p> |
| <p>7. The Licensee shall not establish any fuel storage facilities or refueling stations, or store chemicals or Wastes within 100 metres of the Ordinary High-Water Mark of any Watercourse, except for the existing day tanks for back up diesel generators at the hydro plants, or unless authorized in writing by the Inspector.</p> | <p>MATERIAL STORAGE – ORDINARY HIGH-WATER MARK</p> |

Part I: Closure and Reclamation

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| <p>1. Within 18 months following the effective date of this Licence, the Licensee shall submit to the Board, for approval, an Interim Closure and Reclamation Plan. The Plan shall be in accordance with the requirements of Schedule 6, Condition 1.</p> | <p>INTERIM CLOSURE AND RECLAMATION PLAN</p> |
| <p>2. Six (6) months prior to initiating Progressive Reclamation or temporary closure, or as directed by the Board, the Licensee shall submit to the Board, for approval, a revised Interim Closure and Reclamation Plan.</p> | <p>INTERIM CLOSURE AND RECLAMATION PLAN – REVISED</p> |



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| 3. | Three years prior to the expiry date of this Licence, or a minimum of two years prior to the end of operations, whichever occurs first, the Licensee shall submit to the Board, for approval, a final Closure and Reclamation Plan . | CLOSURE AND RECLAMATION PLAN – FINAL |
| 4. | The Licensee shall carry out approved Progressive Reclamation as soon as is reasonably practicable. | PROGRESSIVE RECLAMATION |
| 5. | The Licensee shall not conduct Progressive Reclamation except as approved by the Board. | PROGRESSIVE RECLAMATION – CARRY OUT AS APPROVED |
| 6. | The Licensee shall provide written notification at least 90 days prior to the Board and an Inspector of any approved Progressive Reclamation that will be conducted in the upcoming year. Notification shall include the name and contact information for the individual responsible for overseeing the Progressive Reclamation. Written notification shall be provided to the Board and an Inspector if any changes occur. | PROGRESSIVE RECLAMATION – NOTIFICATION |
| 7. | Every three years following the commencement of Reclamation Research, or as directed by the Board, the Licensee shall submit to the Board, for approval, a Reclamation Research Report . The Report shall be in accordance with the requirements of Schedule 5, Condition 2. | RECLAMATION RESEARCH REPORT |
| 8. | Within 90 days of completing Closure and Reclamation of any specific component of the Project, the Licensee shall submit to the Board a Closure and Reclamation Completion Report . The Report shall be in accordance with the MVLWB/AANDC <i>Guidelines for the Closure and Reclamation of Advanced Mineral Exploration and Mine Sites in the Northwest Territories</i> . | CLOSURE AND RECLAMATION COMPLETION REPORT |
| 9. | As directed by the Board, the Licensee shall submit to the Board for approval, a Post-Closure Monitoring and Maintenance Plan . The Plan shall be in accordance with the requirements of Schedule 5, Condition 3. | POST-CLOSURE MONITORING AND MAINTENANCE PLAN |



10. The Licensee shall submit to the Board for approval, a **Performance Assessment Report** as directed by the Board. The Report shall be in accordance with the *MVLWB/AANDC Guidelines for the Closure and Reclamation of Advanced Mineral Exploration and Mine Sites in the Northwest Territories*. The Licensee shall submit subsequent Reports as directed by the Board.



Schedule 1: Surveillance Network Program (SNP)

Reporting Requirements

The Licensee shall within thirty (30) days of the end of each quarter being reported, submit to the Board and the Inspector, in an electronic format acceptable to the Board, a Surveillance Network Program (SNP) Quarterly Report (January to March, April to June, July to September, and October to December inclusive). These reports shall contain:

- a) Tabular summaries of all SNP data and information for the quarter being reported;
- b) Rationale for any data and information that is not provided;
- c) The coordinates of all SNP sites reported; and
- d) Any other information required by the Inspector.

Surveillance Network Station Descriptions and Monitoring Requirements

SNP Station information and monitoring requirements are set out below. The location of each Station is approximate and subject to approval from an Inspector.

Station #	Description	Measurement Frequency	Measurements	Units	Status
0150-1	Big Spruce Reservoir Forebay	Daily	Minimum, maximum, and mean forebay water levels	Metres (NTPC Datum)	Active
0150-2	Snare Rapids Powerhouse	Daily	Minimum, maximum, and mean water flow rates	Cubic metres per second	Active
0150-3	5B Spillway	Daily	Minimum, maximum, and mean water flow rates	Cubic metres per second	Active
0150-4	Snare Falls Reservoir Forebay	Daily	Minimum, maximum, and mean forebay water levels	Metres (NTPC Datum)	Active
0150-5	Snare Falls Powerhouse	Daily	Minimum, maximum, and mean water flow rates	Cubic metres per second	Active
0150-6	Snare Falls Spillway	Daily	Minimum, maximum, and mean water flow rates	Cubic metres per second	Active



SC-1	Snare Cascades Forebay	Daily	Minimum, maximum, and mean forebay water levels	Metres (NTPC Datum)	Active
SC-2	Snare Cascades Powerhouse	Daily	Minimum, maximum, and mean water flow rates	Cubic metres per second	Active
SC-3	Snare Cascades Spillway	Daily	Minimum, maximum, and mean water flow rates	Cubic metres per second	Active
0150-7	Snare Forks Reservoir Forebay	Daily	Minimum, maximum, and mean forebay water levels	Metres (NTPC Datum)	Active
0150-8	Snare Forks Powerhouse	Daily	Minimum, maximum, and mean water flow rates	Cubic metres per second	Active
0150-9	Snare Forks Spillway	Daily	Minimum, maximum, and mean water flow rates	Cubic metres per second	Active



Schedule 2: Annual Water Licence Report

Condition

1. The **Annual Water Licence Report** referred to in Part B, Condition 19 of this Licence shall include, but not be limited to, the following information about activities conducted during the previous calendar year:
 - a) A brief summary of Snare Hydroelectric Facility infrastructure and activities;
 - b) The monthly and annual quantities in cubic metres of fresh Water obtained from all sources, as required in Part B, Condition 18 (MEASURE WATER USE) of this Licence;
 - c) A summary of engagement activities conducted in accordance with the approved **Engagement Plan**, referred to in Part B, Condition 20 of this Licence;
 - d) A summary of how Traditional Knowledge was incorporated into decision making;
 - e) A summary of Construction activities conducted in accordance with Part E of this Licence;
 - f) A summary of major maintenance activities conducted in accordance with this Licence;
 - g) The daily minimum, maximum and mean forebay water levels at SNP 0150-1 (Snare Rapids), 0150-4 (Snare Falls), SC-1 (Snare Cascades), and 0150-7 (Snare Forks) (referenced to NTPC Datum);
 - h) The daily minimum, maximum, and mean water flow rates through the powerhouses located at SNP 1050-2 (Snare Rapids), 0150-5 (Snare Falls), SC-2 (Snare Cascades), and 0150-8 (Snare Forks);
 - i) the daily minimum, maximum, and mean water flow rates over each spillway located at SNP 0150-3 (Snare Rapids), 0150-6 (Snare Falls), SC-3 (Snare Cascades) and 0150-9 (Snare Forks).
 - j) Tabular summaries of all data and information generated under the SNP in Schedule 1 of this Licence, in Excel format;
 - k) Methods used to collect the data presented in Schedule 1, Conditions 1g to 1i;
 - l) A summary of activities conducted in accordance with the approved **Geochemical Characterization and Management Plan**, referred to Part E, Condition 4, including:
 - i. A summary of approved updates or changes to the processes for characterizing and managing Acid Rock Drainage and/or Metal Leaching];
 - ii. A summary and interpretation of results from the geochemical monitoring performed under the approved Geochemical Characterization and Management Plan;



Condition

- iii. A summary and interpretation of results from seepage monitoring performed under the approved Geochemical Characterization and Management Plan, including:
 - a. a site map with Seepage locations;
 - b. comparisons to reference locations;
 - c. an analysis of major trends over the year and since Project inception; and
 - d. a summary of recommendations for future Seepage monitoring and/or management actions;
 - ii. A summary of results from investigations or activities related to field test cells;
 - iii. A summary and interpretation of Water quality monitoring results for each of the main source areas and how these compare to predicted values;
 - iv. A summary of any Action Level exceedances; and
 - v. A description of actions taken in response to any Action Level exceedances.

- m) A summary of activities conducted in accordance with the approved **Waste Management Plan**, referred to in Part F, Condition 18 of this Licence, including:
 - i. A summary of approved updates or changes to the process or facilities required for the management of Waste; and
 - ii. Monthly and annual quantities, in cubic metres, of Waste disposed of, by location.

- n) A summary of activities related to the **Annual Geotechnical Engineering Inspections** referred to in Part F, Condition 12 including:
 - i. the status of the most recent Inspection;
 - ii. plans and schedule for the next Dam Inspection;
 - iii. a list of recommendations from the Dam Inspection, NTPC's response to the recommendation, and activities completed in response to the recommendations.

- o) A summary of activities related to the **Dam Safety Review** referred to in Part F, Conditions 14 and 15, including:
 - i. the status of the most recent Dam Safety Review;
 - ii. plans and schedule for the next Dam Safety Review;
 - iii. A status update on the implementation plan for the most recent Dam Safety Review Report.

- p) A summary of activities conducted in accordance with the approved **Emergency Preparedness Plan**, referred to in Part H, Condition 1 of this Licence, including:
 - i. A summary of approved updates or changes to the processes described in the Emergency Preparedness Plan;
 - ii. an outline of any Emergency Preparedness training exercises completed;
 - iii. A description of actions taken in response to implementing the Emergency Preparedness Plan



Condition

- q) A summary of activities conducted in accordance with the approved **Spill Contingency Plan** referred to in Part H, Condition 3, including:
 - i. A summary of any a revisions to the Spill Contingency Plan;
 - ii. An outline of any spill training exercises completed; and
 - iii. A list and description for all Unauthorized Releases, including the date, NWT Spill Number, volume, location, summary of the circumstances and follow-up actions taken, and status (i.e., open or closed), in accordance with the reporting requirements in Part H, Condition 6 of this Licence.

- r) A summary of activities conducted in accordance with the **Interim Closure and Reclamation Plan** referred to in Part I Condition 1 including;
 - i. A summary of approved revisions to the Interim Closure and Reclamation Plan;
 - ii. Details of any Progressive Reclamation undertaken;
 - iii. A summary of Reclamation Research completed; and
 - iv. A summary of engagement conducted regarding Closure and Reclamation.

- s) Any other details on water use or operating procedures requested by the Board on or before November 1st of the year being reported;

- t) A summary of inspections by the Inspector;

- u) A list of any non-compliance(s) with the conditions of this Licence or any directive from the Board pursuant to the conditions of this Licence;

- v) A summary of actions taken to address concerns, non-conformances, or deficiencies in any reports filed by an Inspector;

- w) A summary of any land use permit applications or extensions related to the Snare Hydroelectric Facility;

- x) A summary of any water licence amendments related to the Snare Hydroelectric Facility;

- y) Any other details requested by the Board by November 1 of the year being reported.



Schedule 3: Climate Change Report

Condition

1. The **Climate Change Report** referred to in Part B, Condition 21 of this Licence shall include, but not be limited to, the following:
 - a) A description of the indicators monitored by NTPC to track climate change impacts, including:
 - i. Yearly inflows to the Snare Hydro System
 - ii. Yearly Winter Road construction milestones
 - iii. Yearly dam settlement rates as an indicator of permafrost melt
 - b) A description of the changes that have been observed in these indicator;
 - c) An assessment of whether climate change has changed the impacts of the Snare Hydro Facility on the environment;
 - d) The efficacy of the Licence conditions and whether any change to the Licence should be considered;
 - e) Recommendations for the next report.



Schedule 4: Conditions Applying to Construction

Condition

1. The **Geochemical Characterization and Monitoring Plan** referred to in Part E, Condition 4 of this Licence shall include, but not be limited to, the following:
 - a) Information regarding geochemical characterization, including:
 - i. A description of geochemical characterization studies to identify Potentially Acid-Generating (PAG) materials and/or materials with Metal Leaching potential, including sampling frequencies, rock units, volumes, and test methods;
 - ii. A description of the geochemical characterization of overburden that will be used in Construction and/or for Closure and Reclamation, including specific measures to ensure that this material meets or exceeds the geochemical cut-off criteria defined for non-PAG;
 - iii. Criteria, with rationale, for defining:
 - a. PAG, non-PAG and Metal Leaching materials; and
 - b. high, moderate, and low risk Waste Rock;
 - iv. Production schedules showing estimated volumes and tonnages of construction rock that will be produced each year over the duration of the Project.
 - b) Information regarding geochemical assessments and supplemental monitoring, including:
 - i. A description of geochemical assessments, including visual inspections, and supplemental sampling and testing of construction material;
 - ii. A description of sampling and analysis of any Seepage or Runoff found outside of the Water management system (e.g., roads, rock pads etc.), or that does not report directly to an SNP monitoring station;
 - iii. A description of monitoring of the field test cells, including sampling frequency, field measurements, and analytical parameters;
 - iv. Linkages to other monitoring programs required under this Licence; and
 - v. Any other information about the monitoring that will be performed to meet the objectives in Part F, Condition 1.
 - c) Information regarding responses to monitoring results:
 - i. A description of how the Licensee will link the results of monitoring to those corrective actions necessary to ensure that the objectives listed in Part F, Condition 1 are met. This description shall include:
 - a. Definitions, with rationale, for Action Levels applicable to the performance of this Plan with respect to geochemical stability as well as Seepage and Runoff quality and quantity;
 - b. For each Action Level, a description of how exceedances of the Action Level will be assessed and, generally, which types of actions may be taken by the Licensee if the Action Level is exceeded;



2. The **Design and Construction Plans** referred to in Part E, Condition 9 shall include, but not be limited to, the following:
- a) Information regarding the design of the facilities:
 - i. A description of the facilities to be constructed;
 - ii. The proposed location(s) of the facilities, with GPS coordinates and a map to scale;
 - iii. Relevant background information for the area beneath the footprint of the facilities, as deemed adequate by the Professional Engineer responsible for the design, including:
 - a. the results and data from geotechnical and geochemical investigations; hydrogeological investigations; and programs to characterize soil, rock, Groundwater, ground ice, and ground temperature conditions to the depth expected to be affected by the facilities; and
 - b. any other relevant information.
 - iv. A design alternatives analysis;
 - v. Design specifications and performance parameters and quantifiable performance objectives as established by the Professional Engineer responsible for the design;
 - vi. Stability analyses;
 - vii. A description of how the design has been optimized for Closure and Reclamation;
 - viii. A description of how climate change projections and considerations have been incorporated into the design;
 - ix. A description of any instrumentation that will be installed as part of the facilities, including locations and rationale; and
 - x. A description of any operations and maintenance requirements associated with the design of the facilities.
 - b) Information regarding the Construction of the facilities:
 - i. A Construction schedule, including sequencing information;
 - ii. A description of the materials required for Construction, including, but not limited to:
 - a. sources;
 - b. quantities;
 - c. physical characteristics; and
 - d. geochemical characteristics.
 - iii. A description of any potential effects on the Receiving Environment associated with Construction of the facilities; and
 - iv. A description of any mitigation measures that will be undertaken to minimize the potential impacts identified above.



Condition

- c) Information regarding monitoring during Construction, including:
 - i. A description of any monitoring that will be conducted to detect potential impacts to the Receiving Environment and evaluate the effectiveness of the mitigation measures described above, including, but not limited to:
 - a. locations;
 - b. parameters;
 - c. frequencies; and
 - d. rationale.
 - ii. Linkages to other monitoring programs required in this Licence.
- d) Information regarding responses to monitoring results during Construction, including:
 - i. Definitions, with rationale, for Action Levels applicable to the performance of the mitigation measures; and
 - ii. For each Action Level, a description of how exceedances of the Action Level will be assessed and, generally, which types of actions may be taken by the Licensee if the Action Level is exceeded.
- e) A **Quality Control Plan** stamped by a Professional Engineer, a component of which includes a plan for a Professional Engineer to supervise and field check Construction activities.
- f) A new stage-discharge curve for the spillways if the Power Generation Facilities and spillways are being altered, repaired, and/or replaced.



Schedule 5: Conditions Applying to Waste and Water Management

Condition

1. The **Reservoir Operations Report** referred to in Part F, Condition 10 of this Licence shall:
 - a) be submitted under the following frequency:
 - i. twice per year, reporting on six-month periods (January to June and July to December); and
 - ii. within one month of the end of the six-month period being reported;
 - b) comply with the Canadian Dam Association's *Dam Safety Guidelines*;
 - c) include, but not be limited to, the following:
 - i. A summary of the Snare Hydroelectric Facilities regulated under the Licence, including the location, serviced communities, means of transmission, access and generators;
 - ii. summaries of power production in both tabulated and graph format, including:
 - (1) actual energy production for the entire Snare Hydroelectric Facility by month for the six-month period being reported;
 - (2) forecasted energy production for the entire Snare Hydroelectric Facility by month for the six-month period being reported;
 - (3) forecasted energy production for the entire Snare Hydroelectric Facility by month for the upcoming six-month period.
 - iii. summaries of Snare River flows in both tabulated and graph format, including:
 - (1) actual Snare River flows by month for the six-month period being reported;
 - (2) forecasted Snare River flows by month for the six-month period being reported; and
 - (3) forecasted Snare River flows by month for the upcoming six-month period.
 - iv. summaries of the Big Spruce Reservoir levels in both tabulated and graph format including:
 - (1) actual Big Spruce Reservoir water levels by month for the six-month period being reported;
 - (2) forecasted Big Spruce Reservoir water levels by month for the six-month period being reported;
 - (3) forecasted Big Spruce Reservoir water levels by month for the upcoming six-month period.
 - v. precipitation including snowfall accumulations (snow water equivalent) and expected surface run off for the past six-month period;
 - vi. commentary and rationale on any unusual operations or potential Water Licence non-compliance; and
 - vii. recommendations from the previous Reservoir Operation Report and Dam Safety Reviews and Annual Engineering Inspections related to the Reservoir Operation Report and the actions taken to address the recommendations.
2. The **Septic Fields Special Study** referred to in Part F, Condition 16 of this Licence shall include, but not be limited to, the following:
 - a) Description of the septic systems, their locations relative to the Snare River, and operating procedures;
 - b) Description of downstream receptors that may be impacted by effluent;
 - c) Identification with rationale, of parameters of concern that should be used as indicators of potential impacts from the septic systems;



Condition

- d) A description, with rationale, of the site-specific monitoring activities and anticipated duration of monitoring required to identify impacts from Project-related activities on the Receiving Environment;
 - e) A description of monitoring protocols, methodologies, parameters, and frequencies, including maps or diagrams of the septic systems and monitoring locations;
 - f) A description of the quality assurance and quality control measures followed; and
 - g) Reporting schedule.
3. The **Septic Fields Special Study Report** referred to in Part F, Condition 17 of this Licence shall include, but not be limited to, the following:
- a) Tabular summaries of all data and information generated from implementation of the Septic Fields Special Study;
 - b) An interpretation of the results from the Septic Fields Special Study, including an evaluation of whether a release of effluent has occurred; and
 - c) Recommendations for follow-up and whether any changes to the Water Licence are necessary.



Schedule 6: Conditions Applying to Closure and Reclamation

Condition

1. The **Interim Closure and Reclamation Plan** referred to in Part I, Condition 1 of this Licence shall include, but not be limited to the following information:
 - a) A plain language summary of the Plan;
 - b) A description of the overall goals for Closure and Reclamation of the Project, including expected future land use;
 - c) A description of the Closure and Reclamation planning team;
 - d) A description of engagement related to Closure and Reclamation planning, including a summary of completed and planned engagement, and links to the **Engagement Plan** referred to in Part B, Condition 20 for the Project;
 - e) A list of any other regulatory authorizations required for Closure and Reclamation of the Project;
 - f) A description of the pre-existing and current Project environment, including, but not limited to:
 - i. climatic conditions;
 - ii. physical conditions;
 - iii. chemical conditions;
 - iv. biological conditions;
 - v. any physical or chemical assessments of soil, water, and permafrost; and
 - vi. traditional uses.
 - g) A description of the Project, including, but not limited to:
 - i. site history;
 - ii. Project development;
 - iii. current status of the Project;
 - iv. maps delineating all disturbed areas, borrow material locations, site facilities, hydrological features, and elevation contours; and
 - v. photographs.
 - h) A description of each Project component, including, but not limited to:
 - i. Power generation facilities;
 - ii. Dams
 - iii. Spillways
 - iv. Roads and airstrips;
 - v. Accommodation buildings and other buildings;
 - ii. areas affected by spills or Unauthorized Releases; and



Condition

iii. other areas affected by Project activities.

i) For the Project site, a description of Closure and Reclamation plans, including, but not limited to:

- i. Closure Objectives and Criteria;
- ii. preferred Closure and Reclamation option and method for each Project component identified in Condition (h) above;
- iii. design drawings, signed and stamped by a Professional Engineer, for any Engineered structures;
- iv. Water management and restoration of natural drainage;
- v. predicted environmental effects during and after Closure and Reclamation activities;
- vi. post-closure monitoring, maintenance, and reporting;
- vii. uncertainties and contingencies;
- viii. climate change considerations; and
- ix. Closure and Reclamation Research plans.

j) A description of any planned Progressive Reclamation;

k) A plan for Temporary Closure, including, but not limited to the following information:

- i. Temporary Closure goals and objectives;
- ii. a description of activities and methods;
- iii. a description of monitoring, maintenance, and reporting;
- iv. contingencies; and
- v. an implementation schedule.

l) implementation schedule that includes Progressive Reclamation and final Closure and Reclamation activities.

2. The **Reclamation Research Report** Referred to in Part I, Condition 7 of this Licence shall include, but not be limited to, the following information for each Reclamation Research plan identified in the **Closure and Reclamation Plan**:

- a) A plain language summary of the results, and a plain language interpretation of the significance of the results;
- b) A discussion of whether Reclamation Research planning and implementation remains on schedule;
- c) Analysis and interpretation of the data collected during the reporting period and to date;
- d) An explanation of the significance of the results for Closure and Reclamation planning;



Condition

- e) Reclamation Research data for the reporting period; and
- f) An evaluation of the effectiveness of the Reclamation Research plan.

3. The **Post-Closure Monitoring and Maintenance Plan** referred to in Part I, Condition 9 of this Licence shall include, but not be limited to the following information:

- a) Information regarding site conditions:
 - i. A summary of completed Closure and Reclamation activities, including links to Closure and Reclamation Completion Reports;
 - ii. A list of the Closure Objectives and Criteria for completed Closure and Reclamation activities;
 - iii. A list of all components, Closure Objectives, and Closure Criteria that require monitoring, surveillance, and/or inspections;
 - iv. A list of all components that require geotechnical inspections by a Professional Engineer;
 - v. For all structures identified in (a)(iii) that meet the definition of a Dam:
 - a. A description of the Dam;
 - b. A consequence assessment; and
 - c. The current classification of the Dam.
- b) Information regarding monitoring:
 - i. A description, including detailed rationale, of the site-specific monitoring activities required to evaluate the Closure Objectives and Criteria for the Project, including links to the approved Closure and Reclamation Plan;
 - ii. A description of monitoring protocols, methodologies, parameters, frequency, and duration specific to each type of monitoring identified in (i) above;
 - iii. Site map(s) and attached table or detailed legend, illustrating monitoring and sampling locations; and
 - iv. A description of the quality assurance and quality control measures followed for each monitoring type.
- c) Information regarding responses to monitoring results:
 - i. A description of how the Licensee will evaluate the monitoring results against the Closure Objectives and Criteria for the Project;
 - ii. A description of how the Licensee will link the results of monitoring to the implementation of contingencies, revisions to the Plan, and/or other necessary response actions.
- d) Information regarding surveillance and inspections:
 - i. A description, including detailed rationale, of the method and schedule for surveillance and inspections for each component identified in (a)(iii);



Condition

- ii. A description, including detailed rationale, of the schedule for geotechnical inspections for each component identified in (a)(iv); and
 - iii. A description, including detailed rationale, of the schedule for Dam Safety Reviews for each component identified in (a)(v).
- e) Information about responses to surveillance and inspections:
- i. A description of how the Licensee will evaluate the results of surveillance and inspections against the Closure Objectives and Criteria for the Project; and
 - ii. A description of how the Licensee will link the results of surveillance and inspections to the implementation of contingencies, revisions to the Plan, and/or any other necessary response actions.
- f) Information regarding maintenance:
- i. A description and schedule of routine maintenance work to be conducted at the site;
 - ii. A description of the expected timeline for routine maintenance, including a description of how the Licensee will determine when routine maintenance is no longer required;
 - iii. A description of reasonably likely non-routine maintenance work that may be required, with linkages to other plans required under this Licence;
 - iv. A description of how and when the Licensee will notify the Board and the Inspector of any proposed non-routine maintenance work;
 - v. A description of any potential impacts to the Receiving Environment during routine maintenance work;
 - vi. A detailed description of any measures used to prevent or mitigate impacts to the Receiving Environment during routine maintenance work; and
 - vii. A description of any monitoring including, but not limited to, sampling locations, parameters measured and frequencies of sampling to be carried out during maintenance activities to determine impacts to the Receiving Environment.
- g) A description of how the results of the activities carried out under this Plan will be reported.



Attachments

Attachment A – Concordance Table of Items Requiring Submission

The table below summarizes the items the Licensee is required to submit as per the Licence conditions. In the event of a discrepancy between this table and the Licence conditions, the Licence conditions shall prevail.

Condition Location	Item	Date
Part B, Condition 9	Notification letter to Board – annual review of listed plans	No later than March 31 each year
Part B, Condition 10	Revisions – proposed changes for approval	a minimum of 90 days prior to the proposed implementation date for the changes
Part B, Condition 19	Annual Water Licence Report	Beginning March 31, 2025 and no later than every March 31 thereafter.
Part B, Condition 21	Climate Change Report	On December 31st beginning in 2028, and every 10 years thereafter.
Part E, Condition 4	Geochemical Characterization and Management Plan	90 days prior to use of quarry rock for Construction.
Part E, Condition 9	Design and Construction Plan	90 days prior to commencement of construction of any Engineered Structures.
Part E, Condition 10	Design Drawings	A minimum of 90 days prior to the commencement of Construction of any Engineered Structures.
Part E, Condition 13	As-Built Report	Within 90 days of the completion of the Construction of each Engineered Structure.
Part F, Condition 15	Dam Safety Review Report	Prior to January 31 of the year following the year in which the Dam Safety Review was conducted.
Part F, Condition 16	Septic Fields Special Study	Within 90 days following the effective date of this Licence.
Part F, Condition 17	Septic Fields Special Study Report	Within 90 days following completion of the Septic Fields Special Study.
Part I, Condition 1	Interim Closure and Reclamation Plan	Within 18 months following the effective date of this Licence.



Part I, Condition 2	A revised Interim Closure and Reclamation Plan.	Six (6) months prior to initiating Progressive Reclamation or temporary closure, or as directed by the Board.
Part I, Condition 3	Final Closure and Reclamation Plan	Three years prior to the expiry date of this Licence, or a minimum of two years prior to the end of operations.
Part I, Condition 7	Reclamation Research Report	Every three years following the commencement of Reclamation Research.
Part I, Condition 8	Closure and Reclamation Completion Report	Within 90 days of completing Closure and Reclamation of any specific component of the Project.
Part I, Condition 9	Post-Closure Monitoring and Maintenance Plan	As directed by the Board.
Part I, Condition 10	Performance Assessment Report	As directed by the Board.



Attachment B – Revision History Table

The table below summarizes revisions made to the Licence since its effective date (as set out on the Cover Page).

Date	Location of Change	Description of Change

