

November 2021

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### **Application for Snare Hydroelectric Facility- Site-wide Type A Land Use Permit**

Hello Meaghan,

The Northwest Territories Power Corporation (NTPC) owns and operates the Snare Hydroelectric Facility located on the Snare River, approximately 145 km northwest of Yellowknife, NT. The facility includes four hydro generation stations that provide power to the North Slave communities of Yellowknife, Behchokò, Dettah and N'Dilo along with the power generated by the Bluefish Hydroelectric Facility. Back up and supplemental power is provided by the Jackfish Lake Generating Station.

The Snare Hydroelectric Facility currently operates under three Type A Land Use Permits (LUP) from the Wek'èezhìi Land and Water Board (WLWB) for the construction and operation of the winter roads (WR's) and quarry and borrow sites across the site. NTPC is applying for a site-wide Type A LUP that will consolidate the current LUP's for Snare Hydro into one permit. This consolidated LUP will increase efficiencies for all regulatory undertakings related to land use at Snare Hydro, improving processes and interactions for the WLWB, Tłıchq Government, GNWT Lands Inspectors, NTPC and all Snare Hydro stakeholders moving forward. Snare Hydro operates under two Type A Water Licenses (WL) from the WLWB. These WL regulate the storage and use of water to generate power for the hydro generation units contained within the 4 powerhouses that make up the facility. WLWB Type A WL N1L4-0150 regulates Snare Rapids, Snare Falls and Snare Forks. WLWB Type A WL W2014L4-0001 regulates Snare Cascades which is owned by Dogrib Power Corp and operated by NTPC.

The three Type A LUPs that NTPC currently hold /recently held for Snare Hydro are:

- LUP W2014F0002- Snare Winter Road.
- LUP W2018Q0003 Falls Borrow Location.
- LUP W2019Q0003 Strutt Lake Winter Road and Quarries, Snare Forks Till Pits.

LUP W2014F0002 expired on October 26th, 2021. NTPC will provide a Final Plan for the closed permit by December 26, 2021. NTPC would also like to request the closure of LUP

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W2018Q0003 and W2019Q0003 as these permits will be replaced by the new site-wide LUP. The scope of the activities under the proposed site-wide LUP are outlined in detail in the application and include:

- Operation and maintenance of historical Winter Roads (WR).
  - Snare WR from Snare Forks to the Wekweèti Winter Road, NT.
  - Strutt Lake WR connecting to three borrow locations on the east side of Strutt Lake.
  - Big Spruce Lake WR 1 and 2 connecting Snare rapids to the Side Dams, and Snare 5B Spillway.
  - 5B Bridge WR (contingency if bridge failed in winter months).
- Operation and maintenance of quarries, storage areas and borrow locations.
  - 10 existing quarry and/or borrow locations across Snare Hydro will be used as required for future construction, resurfacing, upgrades and maintenance.
  - 4 existing stockpile, storage and/or laydown locations will be used across the site as well.
- Operation of temporary camps and fuel storage.
  - To accommodate additional personnel, 9 potential locations for temporary camps have been identified that would be used as needed for specific projects such as crushing.
    - Camps would have between 4-20 people depending on capacity at the main camp.
    - The full site capacity at Snare will not exceed 49 people total at the main camp and any temporary camps.
- Construction projects involving clearing of vegetation and/or major earthworks.
  - Minor clearing for access to transmission lines for maintenance.
  - Major civil works and construction upgrades.
  - Use of heavy equipment not on an existing Right-of-Way, including but not limited to:
    - Maintenance of site roads.
    - Maintenance of transmission infrastructure.
    - Maintenance of dams and side dams.

Lands eligibility for the scope of this LUP is established by existing titled lands, leases and easements and a Tłıchq Quarry Permit and Access Agreement. All the details and attachments that confirm eligibility for the Snare LUP are all included in the *Snare*

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*Hydroelectric Facility Site-wide Type A Land Use Permit- Lands Overview* document which is part of the application package.

The maximum water usage for all camps combined would be 49 people x 250 L/day (average used NTPC camps) = 12,250L/day or 12.25m<sup>3</sup>/day. This is well under the 100m<sup>3</sup>/day trigger for Type B Water Licence.

The Snare Site-wide Type A LUP application package is comprised of:

1. Land-Use Permit Application Form- Snare Hydro Facility Site-wide LUP
2. Snare Hydro Facility- LUP Figures and GIS data
3. Lands Information for Snare Hydro Site-wide Land-Use Permit Application
4. Snare Hydro Facility- Site Wide Land Use Permit- Engagement Plan
5. Snare Hydro Facility- Site Wide Land Use Permit- Engagement Log
6. Snare Hydro Facility-Land Use Closure and Reclamation Plan
7. Snare Hydro Facility- Spill Contingency Plan
8. Snare Hydro Facility- Waste Management Plan
9. Snare Hydro Facility- Land Use Operations and Maintenance Plan
10. Snare Hydro Facility - Erosion and Sediment Control Plan
11. Snare Hydro Facility- Vegetation and Wildlife Management and Monitoring Plan

The full application package has been uploaded as an FTP submission on the Online Review System for the WLWB. If you have any questions regarding this application or if there is any further information we can provide, please contact me at [mmiller@ntpc.com](mailto:mmiller@ntpc.com). We very much appreciate the support and collaboration of the WLWB throughout the process to date to look forward to working with the WLWB team during the next steps in the LUP application process.

Sincerely,



Matthew Miller, M.Sc., P.Eng.  
Senior Environmental Licensing Specialist  
Northwest Territories Power Corporation