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Taltson Overhaul- Type A Land Use Permit- MV2020X0004- Amendment and Modification Under Type A Water Licence MV2011L4-0002 Submission

Hello Shannon,

The Northwest Territories Power Corporation (NTPC) owns and operates the Taltson Hydroelectric Facility (Taltson Hydro), located 56 km northeast of Fort Smith, Northwest Territories within the Taltson River watershed. Taltson Hydro was built in 1965 and supplies power to the South Slave communities of Enterprise, Fort Resolution, Fort Smith, Hay River and K'atloodeeche First Nation. Taltson Hydro operates under the Mackenzie Valley Land and Water Board (MVLWB) Type A Water Licence (WL) MV2011L4-0002.

A refurbishment of key infrastructure at the facility began in 2020 to ensure the continued reliability of power generation for the South Slave Region. The refurbishment for supporting infrastructure on the site included of the replacement of the facilities for staff lodging, replacement of maintenance buildings, construction of additional storage areas, operation of existing quarries and the construction and operation of a winter road to transport equipment and materials. In 2019 NTPC obtained Type B WL MV2019L8-0008 and Type A Land Use Permit (LUP) MV2019F0015 to regulate the construction and operation of the Taltson Winter Road. The refurbishment for supporting infrastructure at the facility is regulated by Type A LUP MV2020X0004 issued in 2020.

MV2020X0004 Type A Land Use Permit Amendment

An update on the project and scope of work under Type A LUP MV2020X0004 is provided in the attached the *Taltson Overhaul- Type A LUP MV2020X0004- Project Update*. This project update contains information on a new water intake for the staff accommodation and slight changes to the fuel storage system and hazardous waste storage berm. The water intake for the staff accommodation facility has been relocated and redesigned to improve safety and functionality as outlined in the project update. The new water intake design was not in the initial application and as such did not comply with MV2020X0004 Conditions 30 and 31:

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- *Condition 30- Equipment Watercourse Buffer- The Permittee shall not remove vegetation or operate heavy equipment within 100 metres of the Ordinary High Water Mark of any Watercourse, except as described in the application.*
- *Condition 31- Excavation Setback- The Permittee shall not excavate land within 100 metres of the Ordinary High Water Mark of any Watercourse, except as described in the application, unless otherwise authorized in writing by an Inspector.*

NTPC has prepared the attached application package with updated management plans that include the new water intake construction and various mitigations. The water intake construction work is within the scope of MV2020X0004 *Part A 1 a) The use of vehicles and machines and d) Construction and replacement of structures*. Any potential impacts from the work will be managed by the mitigation measures presented in the updated management plans. NTPC would also like to amend Condition 30 to state:

- *Condition 30- Equipment Watercourse Buffer- The Permittee shall not remove vegetation or operate heavy equipment within 100 metres of the Ordinary High Water Mark of any Watercourse, except as described in the application, **unless otherwise authorized in writing by an Inspector.***

This would update Condition 30 to be congruent with Condition 31 and allow inspector approval. The minor design updates for the fuel storage and hazardous waste berm require no amendments to the conditions of MV2020X0004 but have been included to ensure the application package and reference drawings are up to date.

MV2011L4-0002 Type A Water Licence Modification

The construction of the water intake involves “an alteration of the bed or banks of a river, stream, lake or other body of water” and requires a water licence. In the spring of 2021, the MVLWB and NTPC counsels determined that this scope of work could be completed as a modification under Part G of the Type A WL for Taltson MV2011L4-0002.

A description of the water intake (modification), design drawings and schedule are provided in the *Taltson Overhaul- Type A LUP MV2020X0004- Project Update*. The proposed modification does not place NTPC in contravention of either MV2011L4-0002 or the *Waters Act*. NTPC feels this project is exempt from preliminary screening as:

- all proposed works will occur on or adjacent to the site roads and historically used areas on lands that fall within the Land Withdrawal Order R-067-2014.

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A Request for Review will be completed for the water intake construction and submitted to Fisheries and Oceans for approval.

In April 2022 NTPC also submitted the Taltson Hydro Overhaul- Submission for Modification under Type A Water Licence MV2011L4-0002 for the overhaul works within the Taltson generation plant. This is a separate submission and is impacted in no way by this submission package.

Submission Package

NTPC has updated the following documents as required for Type A Land Use Permit- MV2020X0004- Amendment and Modification Under Type A Water Licence MV2011L4-0002:

- 1) *Land-Use Permit Application Form for amendment*
- 2) *Taltson Overhaul- Type A LUP MV2020X0004- Project Update*
- 3) *Taltson Hydro- Construction of Replacement Support Facilities- Engagement Plan*
- 4) *Taltson Hydro- Construction of Replacement Support Facilities- Engagement Log*
- 5) *Taltson Hydroelectric Facility and Winter Road- Spill Contingency Plan*
- 6) *Taltson Hydroelectric Facility and Winter Road- Waste Management Plan*
- 7) *Taltson Hydro- Construction of Replacement Facilities and Overhaul- Erosion and Sediment Control Plan*
- 8) *Inspector Approval for Proposed Amendments*

For the larger management plans text, figures or tables that have been updated for this submission is highlighted in **yellow** for efficiency for reviewers.

Some of the documents from the initial application that were not updated as part of this submission include:

- 1) *Taltson Hydro- Lands Information- Land-Use Permit Application for Construction of Taltson Hydro Replacement Support Facilities*
- 2) *Taltson Hydro- Construction of Replacement Facilities and Overhaul- Construction, Wildlife Management and Reclamation Plan*
- 3) *Taltson Hydro Facility Aggregate and Borrow Locations- Quarry Operations and Reclamation Plan*

The full amendment package has been uploaded as an FTP submission on the Online

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Review System for the MVLWB. 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.

Sincerely,



Matthew Miller, M.Sc., P.Eng.
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Northwest Territories Power Corporation