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December 1, 2020

Re: Notice of Site C Construction Activities: January - March 2021

As part of our engagement, we provide regular updates and information on construction activities. This letter describes the work planned from January 1 to March 31, 2021.

COVID-19 update

We continue to work closely with health officials, local communities, contractors and unions to monitor and respond to the COVID-19 pandemic. We're adhering to strict health and safety protocols as we work towards critical milestones.

Since March 2020, BC Hydro has been notified of 15 positive cases of COVID-19 related to people working on the project. In each case, the individuals were quarantined, Northern Health conducted contact tracing, and any other potential contacts were isolated.

Safety continues to be our top priority. We are committed to safely and responsibly advancing the Site C project, while protecting the workforce and the local community. You can keep up-to-date with our COVID-19 measures <u>here</u>.

For the upcoming period, construction at Site C will focus on:

- Progression of earthworks at the dam site.
- Construction of the powerhouse and spillway.
- Upstream and downstream cofferdams; including fish salvage and dewatering of the permanent dam footprint between the cofferdams.
- Transmission line construction including access road construction and maintenance, site preparation, foundation installation, tower assembly and installation and site reclamation.
- Highway 29 realignments and bridge construction at Cache Creek East, Halfway River, Lynx Creek, Dry Creek, and Farrell Creek.
- Start of Highway 29 realignment at Farrell Creek East.
- Clearing, road maintenance and road construction in areas of the future reservoir. The lower reaches of the Halfway River will be closed to boaters from September 1, 2020 to April 30, 2021. Waste wood will be burned when conditions are appropriate.
- Habitat construction and installation.
- Construction of a 2.6-kilometer Shoreline protection berm in Hudson's Hope.
- On-call archaeological studies, as required

For all activities described in this letter, the <u>necessary approvals</u> will have been obtained before work begins. Geotechnical site investigations, air quality monitoring, heritage and other field studies are ongoing. We will continue to provide <u>annual field study notices</u> of these activities.

For the safety of the public and workers, please use caution when hunting, shooting, or setting traps in the Site C project area.

Dam site

- Access roads:
 - Crews will continue to maintain dam site access roads and existing south bank resource roads, including petroleum development roads.
 - Site security gate enhancements will be implemented.
- Headpond:
 - A headpond is forming.
 - This mean water levels could rapidly rise. Caution should be exercised at the shoreline.
 - The headpond will be protected with the debris booms that are already in place on the Peace and the Moberly Rivers.
 - The removal of debris will be actively managed by a BC Hydro contractor.
- River diversion:
 - The Peace River has been diverted through the two diversion tunnels.
 - o The upstream and downstream cofferdams will continue to be built.
 - This includes the installation of the interlocking cofferdam pile walls (upstream and downstream) to create the waterproof barrier.
 - The upstream slope will be protected with geomembranes and the installation of rip rap.
 - o Learn more about river diversion: sitecproject.com/diversion
- Main civil works: Construction activities will continue. This includes:
 - Excavation of the dam core trench (north and south banks and from the centre portion of the river once dewatered).
 - o Excavation of the Approach Channel.
 - Relocation of excavated material to disposal areas located on the north and south banks of the river at the dam site area.
 - Construction of the south bank and north bank drainage tunnels.
 - o In-river work and dredging at Bar and Midstream Islands.
 - Concrete batching (limited small amounts for cofferdam pilecaps majority for shotcrete in the drainage tunnels).
 - Riprap placement on the cofferdams (see river diversion).
 - Grouting of the main dam grout curtain and consolidation grout (left bank, right bank and dam core).
 - o Earthfill dam preparation and other civil works.
 - Delivery of dam fill material from the 85th Avenue borrow site to the dam site area via conveyor.
 - Rail delivery of rip rap to site.

• Haul road realignments in preparation of the main dam core excavation.

• Generating station and spillways (GSS):

- o Concrete will continue to be placed for the powerhouse intake areas.
- Installation of powerhouse units 1, 2, and 3 superstructures will continue.
- Sections of the steel penstocks will continue to be delivered to site, where they will be assembled and encased in concrete.
- Installation of penstock sections will continue.
- Penstock encasement in concrete will continue.
- Construction of the spillway stilling basin slab will continue.
- Transition block and spillway headwork construction will continue.

• Turbines and generators:

- The turbines and generators contractor will continue with deliveries to Areas 24 and 27.
- The on-site shop fabrication work is continuing.
- The turbines and generators contractor will continue installation in the powerhouse.
- Welding will continue in the powerhouse.

Public roads and highways

- Highway 29
 - **Cache Creek East**: Construction of the highway realignment and bridge will continue. This includes bridge foundation piling and concrete placement. A temporary detour will be installed in the event the existing bridge is flooded.
 - **Halfway River**: Construction will continue on the highway realignment and bridge. This includes the installation of bridge steel on the bridge foundations.
 - Farrell Creek: Construction will continue on the highway realignment and bridge. This work will include clearing and grubbing and bridge foundation construction including piling and concrete works.
 - **Farrell Creek East:** Construction will begin on the highway realignment, including clearing and grubbing and controlled stripping.
 - **Dry Creek:** Construction is temporarily suspended for the winter and will resume in April 2021.
 - **Lynx Creek**: Construction of the highway realignment and new bridge will begin. This work may include clearing and waste wood removal, disposal and burning.

Peace River/reservoir

- **River closure:** A short section of the Peace River is closed at the dam site as we continue in-river works and place debris management systems across the Peace and Moberly rivers.
- **In-river debris management systems:** Debris management structures have been installed on the Peace River and the Moberly River. Debris is regularly being cleared from the structures.

- The Peace River boom is being removed due to winter ice. The boom will be reinstalled in the early spring. Boaters are advised to stay clear of the area until the boom is reinstalled. A <u>portage program</u> is available from May 15 to September 15 every year to move non-motorized boats around the area.
- **Fish habitat enhancement project**: Surveying work may take place at the downstream fish habitat enhancements.
- Archaeology: On-call archaeological studies, as required, anywhere on the project.
- Reservoir clearing
 - Clearing, road construction, and/or burning of waste wood will occur in the following areas:
 - o North and south bank of the eastern reservoir and within Moberly Drainage.
 - o Middle reservoir between Cache Creek and Halfway River.
 - Halfway River drainage: The lower reaches of the Halfway River will be closed for clearing, from September 1, 2020 to April 30, 2021.
 - The north and south banks of the Peace River in the western reservoir, from Halfway River to Farrell Creek.
 - Merchantable trees will be transported to local mills.
 - Road maintenance may occur on existing roads in the reservoir area.

Hudson's Hope shoreline protection

- Construction will continue on the Hudson's Hope shoreline protection berm.
- This may include clearing and waste wood removal/disposal.
- Riprap may be hauled from Portage Mountain and stockpiled at the berm site.
- In-river works will occur including placement of rock in the river to construct the berm.

Transmission works

- Access road maintenance: Road maintenance on access roads will occur, to provide safe access to the transmission line and tower site right-of-way.
- Transmission line construction:
 - Transmission line 5L006 construction will continue, with access construction, foundation installation, tower assembly and tower installation on foundations.
 - The two existing lines within this right-of-way (serving Fort St. John and Taylor) will be removed. They have been replaced by transmission line 5L005, which was placed into service in October 2020.

Production and transport of materials

- **West Pine Quarry**: Riprap will be produced and hauled from West Pine Quarry along Highway 29 for highway construction.
- Portage Mountain Quarry:
 - Access roads will continue to be maintained.
 - Clearing and grubbing may occur to construct a new stockpile site.
- 85th Avenue Industrial Lands: Till materials for the dam will be produced.

• Conveyor belt system: The conveyor system is operating, as needed.

Environmental Assessment Certificate

Environmental Assessment Certificate #E14-02 (EAC) for the project consists of Schedule A, the project description, and Schedule B, the conditions under which the project must be constructed and operated. If BC Hydro wishes to make a change to either Schedule A or Schedule B of the EAC, we are required to submit a written request to the Environmental Assessment Office, which then consults with regulatory agencies, Indigenous groups and/or the public on the request and issues a written decision.

To date, we have requested and been granted seven amendments to the EAC. These are:

- Amendment 1 regarding design changes to the generating station and spillways.
- Amendment 2 regarding design changes to the Halfway River Bridge within the Halfway River Highway 29 realignment.
- Amendment 3 regarding the use of West Pine Quarry, in addition to the already approved Portage Mountain Quarry, as a source of quarry and excavated material for the construction of the Highway 29 realignment, Hudson's Hope shoreline protection, and areas along the reservoir requiring protection during reservoir filling.
- Amendment 4 regarding the selective use of mechanical clearing in riparian zones during reservoir clearing when it is unsafe to undertake manual clearing.
- Amendment 5 regarding a change in the alignment of Highway 29 at Cache Creek.
- Amendment 6 regarding the expansion of the worker accommodations camp within the dam site area.
- Amendment 7 regarding changes to the designs of Highway 29 crossings at Farrell, Dry and Lynx Creeks.
- Amendment 8 regarding the use of borrow source located east of the Halfway River for the construction of reservoir clearing access roads.

Water Licences and Leaves to Commence Construction/Diversion

BC Hydro holds Water Licences for the diversion and use of water, the storage of water, and for the temporary and permanent fish passage facilities. During the course of construction, we will apply for a series of Leaves to Commence Construction (LCCs) under the Water Licences in order to construct particular project works or components of project works. Construction-related activities under the LCCs are also independently reviewed by the Independent Engineer and the Independent Environmental Monitor as required by the Water Licences.

To date, BC Hydro has obtained LCCs for:

- Initial works
- Relocated surplus excavation material (RSEM) storage areas
- North and south bank excavations
- South bank stage 1 cofferdam
- Clearing of the eastern reservoir
- North bank cofferdams and diversion tunnel works
- Roller-compacted concrete (RCC) buttress foundation preparation and RCC placement

- Geotechnical investigations for the Hudson's Hope shoreline protection
- Earthfill dam excavation, foundation preparation, fill placement and approach channel foundation preparation and placement
- Generating station civil works and spillways civil works
- Construction of the temporary fish passage facility
- Stage 2 cofferdams and river diversion, including debris boom facilities on the Peace and Moberly Rivers
- Water licences for temporary and permanent fish passage facilities
- Middle reservoir clearing
- Western reservoir clearing
- Hudson's Hope Berm construction
- Turbines and generators installation

BC Hydro also obtained a Leave to Commence Diversion (LCD) in June 2020, covering placement of the rockfill berm into the Peace River, diversion of water through the diversion tunnels, and construction of the stage 2 cofferdams. A separate LCD was also issued in August 2020, authorizing the commissioning of the temporary fish passage facility.

Notice of completed activities

The following work, described in previous notifications, is complete or is anticipated to be complete by the date of issuance of this letter:

- River diversion
- Site C substation
- Transmission line 5L005

What to expect

During this time period, the following can be expected:

- <u>Permanent navigational restrictions:</u> Boaters no longer have access to the Moberly River and the Peace River, near the dam site, now that debris structures have been installed. Public safety signs and beacons have been installed on both banks of the Peace River, and on both sides of the dam site, to mark the active construction area.
- There will be project-related traffic on public roads leading to the dam site, transmission corridor, reservoir and Highway 29, as we continue to haul materials, equipment, rock, and timber. This will include increased industrial traffic on resource roads and public roads from Chetwynd leading to the site on the south bank.
- Day, night and weekend shifts are anticipated for the duration of the project.
- Traffic control will be intermittently in place for construction and investigation activities along Highway 29. This may cause minor traffic delays. Visit <u>drivebc.ca</u> for the latest traffic updates.
- Noise will occur near the construction areas.

- Noise and vibration will result from blasting and other works in the quarries. Hauling may occur at night.
- There will be construction occurring around the Peace River at the dam site.
- We are monitoring air quality in the Site C project area. This data is being added to the Ministry of Environment's <u>B.C. Air Quality Monitoring Data</u>. The Ministry uses this data to report on air quality trends. In the event of poor air quality, the Ministry will release air quality advisories through a notification list. This notification list currently includes the regional media, various public and private sector offices, as well as members of the public. If you are interested in being part of this notification list, please email <u>sitec@bchydro.com</u>.

Learn more

BC Hydro is committed to providing you with information about Site C construction activities and has established several ways that you can learn more about the project.

We would be happy to come to your community to discuss the upcoming work in more detail, report on results of field studies and implementation of mitigation plans, and discuss how best to communicate with your community.

Please do not hesitate to contact me should you wish to arrange a meeting or have any questions about any information described in this letter.

Kindest regards,

Ken McKenzie

cc: «CAOCity_Manager»



