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# Transmission South Projects Regional Update

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## Transmission South (T-South) Reliability and Expansion Program Overview

Enbridge owns and operates the major natural gas transmission system in British Columbia (B.C.), which transports processed natural gas to consumers throughout the province, Alberta and the Pacific Northwest of the United States (U.S.).

This gas is used to heat homes, businesses, hospitals and schools. It is also used as a fuel for electric power generation and is a staple in a number of industrial and manufacturing processes that produce hundreds of products that improve our lives.

This newsletter provides an update on several proposed upgrades and reliability enhancements on the southern B.C. portion of its natural gas transmission system (T-South), which begins near Chetwynd, B.C. and stretches down to the southernmost point at the Canada/U.S. border at Huntingdon/Sumas.

### Commitment to communities during COVID-19 pandemic

While this is a challenging time around the world and here at home in B.C., it is essential that Enbridge continues to maintain and operate safe and reliable energy infrastructure, to ensure the transportation of natural gas to consumers throughout the province, Alberta and the U.S. We're doing our part to help prevent the spread of coronavirus (COVID-19) and want to reinforce that your community's health and safety, as well as that of our employees and contractors, is our number one priority. We remain committed to our relationship with your community during this difficult time and our team members will work to maintain continued communications with your community via phone, email or any other technological means.

We are also inspired to help those most in need. Enbridge has put in place a support plan to provide funding towards United Way, local food banks and community non-profit organizations in our areas of operations.



# T-South Projects Regional Update

## T-South Reliability and Expansion Program

Compressor stations are used to move natural gas through a pipeline to maintain its flow and pressure. Over long distances, friction and geographic elevations slow the movement of natural gas. A compressor station gives the natural gas a “boost.”

The T-South Reliability and Expansion Program involves replacing old compressor station units with new, more reliable and efficient units, and undertaking smaller upgrades and operational maintenance at various facilities along the system. In September 2019, the Canada Energy Regulator (then the National Energy Board) approved Enbridge’s regulatory applications to conduct the upgrades and modifications at the facilities shown in the map.

### What’s the latest?

- Clearing activities for the work occurred in November 2019.
- Construction activities at the stations commenced mid-March 2020, with in-service planned for Q4 2021.
- To-date, over \$31M has been committed to Indigenous businesses on the T-South Reliability and Expansion Program.
- Local communities can expect to see construction activities and additional traffic on local roads throughout the 2020 construction season as Enbridge stages equipment and resources to support the construction activity.
- The implementation of a traffic management plan and appropriate signage will be in place if needed and disruptions to normal traffic are expected to be minimal and of short duration.
- Construction sites have implemented Pandemic Preparedness Plans to ensure strict protocols are followed to mitigate the risk of COVID-19.

## Integrity and Maintenance Program

Our goal at Enbridge is, and will always be, the prevention of all incidents. Prevention is a key element of our multi-pronged approach to pipeline and facility safety—and preventative maintenance digs are a critical component of our prevention program.

Ultra-high-tech inspection tools monitor both the interior and exterior of our pipes. When data from these inspections indicates a change or anomaly that requires a closer look, Enbridge will undertake a maintenance dig to physically examine the integrity of the pipe segment and determine if a repair or other action is needed.

Enbridge’s integrity program includes the most thorough inspection program we’ve ever undertaken and involved a series of decisive steps to validate and improve the safety of our natural gas pipeline system. The T-South natural gas pipeline system has been inspected with the latest generation inline pipeline inspection tool, which has double the number of sensors than previous inspection tools and is significantly more accurate at assessing potential problems like stress corrosion cracking.

### What’s the latest?

Enbridge will be conducting several operation and maintenance activities in the 2020 construction season, including:

- Cased crossings: When a pipeline travels underneath a road, river or railway, it may be encapsulated in a larger pipe or casing which helps to protect the integrity of the pipe. Enbridge is assessing these crossings and undertaking maintenance as required.
- Cathodic protection groundbeds: Cathodic protection groundbeds provide a small electrical current, called an impressed current system, to a pipeline which helps protect the steel pipe from forming rust or other types of corrosion. As preventative maintenance, Enbridge is assessing groundbeds close to the pipeline to determine if they require replacing.
- Integrity and pipeline maintenance digs will occur along Enbridge’s natural gas pipeline system in B.C. throughout 2020.
- Communities can expect to see construction activities and additional traffic on local roads as we stage equipment and resources to support this work. Traffic plans and appropriate signage will be in place if needed.
- Communities and stakeholders will be notified of operation and maintenance activities in the region or traditional territory as required.



## Mainline Class Upgrade Projects

The Canada Energy Regulator regularly reviews pipeline class changes—as defined by the Canadian Standards Association—due to building and human occupancy changes along its right-of-way (ROW). As human population increases near a pipeline ROW, segments of pipe must be upgraded to meet regulatory standards and to address increased potential for third party damage.

### What’s the latest?

Due to class changes, Enbridge proposes to conduct the following work in the 2020 construction season:

- In 2019, Enbridge replaced a 250-meter (m) segment of 36-inch natural gas pipeline near the Powder King Ski Resort. The 2020 project scope of work includes replacing approximately 250 m of 30-inch natural gas pipeline that will parallel the work completed in 2019.
- Enbridge will replace approximately 900 m of 30-inch and 36-inch gas pipelines south of Chilliwack.
- Enbridge has been engaging with local communities regarding all mainline class upgrades and has conducted, or will conduct, archaeological impact assessment as well as environmental field surveys.



### In the Community: Cultural Groundbreaking Ceremony with Williams Lake Band

On March 16, 2020, Enbridge was pleased to participate in a groundbreaking ceremony at the 150 Mile House Compressor Station 6A to start the construction work associated with the T-South Reliability and Expansion Program. Chief Willie Sellars led an uplifting ceremony and graciously welcomed Enbridge and contractors to the territory. Enbridge would like to extend a thank-you to elder Virginia Gilbert and Williams Lake Band Cultural Coordinator David Archie for leading the drumming, prayer and ceremony alongside Band Councillor Shawna Philbrick. It was also great to see representation from the City of Williams Lake with Councillor Scott Nelson and Councillor Sheila Austin-Boehm participating in the ceremony.

Enbridge is proud to start this project work with inclusion of Williams Lake Band businesses. We look forward to continuing to work together in the region.



## Crossover Assembly Projects

In May 2019, Enbridge received approval to construct three new crossover assemblies on the T-South natural gas pipeline system to enhance system reliability. A crossover assembly connects two parallel pipelines together. It can be used to isolate a pipeline segment and reroute natural gas flows to an adjacent pipeline so customers can continue to receive natural gas in the event of a shutdown or during maintenance work.

### What’s the latest?

- Locations for new crossover assemblies are proposed for:
  - Cottonwood Crossover, located approximately 2 km south of Cottonwood River and 6.5 km north of Ten Mile Lake, B.C.
  - Bonaparte Crossover, located approximately 2 km north of Bonaparte River and 12.5 km east of 70 Mile House, B.C.
  - Hihium Crossover, located approximately 1 km southeast of Hihium Lake and 36.5 km north of Savona, B.C.
- In the summer and fall of 2019, Enbridge completed construction of the Bonaparte Crossover and completed one side of the Hihium Crossover.
- In May 2020, Enbridge plans to continue the remaining construction work at the Hihium Crossover and begin construction of the Cottonwood Crossover, with all remaining work expected to be completed by September 2020.

## In the Field: Osprey Nest Relocation

Enbridge identified an Osprey nest located within 80 m of Compressor Station 7 in Savona. Prior to undertaking construction work at the station this spring, we hired a qualified environmental professional to assist with relocating the nest well outside of the work area.

Prior to the start of the nest relocation program, Enbridge consulted with a Ministry of Forests, Lands, Natural Resource Operations and Rural Development wildlife officer and regional biologist. It was decided that the Osprey nest would be relocated 275 m to the northwest on Enbridge-owned property, where it is now closer to Kamloops Lake and the Thompson River, both important food sources for the Osprey. Breeding Osprey populations in North America are migratory, so to minimize unnecessary stress or harm on the resident pair, the nest relocation occurred in November 2019 when the Osprey had already migrated south.

At the completion of the project, the relocation had resulted in little disturbance to the existing nest. To promote use of the new location, the same pole and platform were used. To provide protection from predators, a metal guard was installed at the base of the pole. We were excited to observe the pair of Osprey returning to the area in April 2020!

