

January 22, 2020

Cascade Combined Cycle Connection – project update

Recently, you may have received information about AltaLink's Cascade Combined Cycle Connection project, dated December 2019. We want to provide you with an update on the project.

Temporary by-pass required

Since providing you with the project information, further engineering has identified the need for a temporary transmission line (by-pass) to support the relocation of two 138 kilovolt (kV) transmission lines (called 740L and 847L) near the Bickerdike Substation. The temporary by-pass line will be removed after construction of the relocated lines is complete. The temporary by-pass is located in SW-8-52-18-W5, approximately five kilometres (km) south of the existing Bickerdike Substation. The temporary by-pass will:

- Use AltaLink's existing 740L and 847L right-of-way for access and construction workspace.
- Require approximately 20 metres x 30 metres of additional construction workspace adjacent to AltaLink's existing 740L transmission line right-of-way boundary
- Be approximately 20-50 metres long
- Require two temporary structures that will:
 - be approximately 12 to 20 metres tall
 - be located within AltaLink's existing 740L and 847L right-of-way
 - look similar to the existing two-pole structures located nearby along 740L and 847L, photo at right
 - be wood or steel
 - have an overhead shield wire



Please see the attached Detail Photo Map 2 (DP2) for details about the temporary by-pass.

Optical ground wire (OPGW) required on two proposed new transmission lines

It has also been determined that AltaLink will need to install optical ground wire (OPGW) on the proposed 1084L and 1168L transmission lines from the Whisky Jack Substation to the Bickerdike Substation. This equipment is part of a telecommunication network that allows AltaLink to monitor, control, protect and restore the electric system.

Update to proposed right-of-way width

Through consultation with Alberta Environment and Parks, it has been determined that areas adjacent to the proposed right-of-way that were previously identified as proposed Vegetation Control Easement areas should be applied for as right-of-way. This means that the required right-of-way for the proposed new 240 kV transmission lines (called 1084L, 1135L and 1168L) and relocated 240 kV transmission lines (called 973L and 974L) is now 90 metres instead of 70 metres as initially communicated. Please see the attached Detail Photo Map 1 (DP1) for details about the proposed OPGW, updated right-of-way, transmission lines and substation.

Additional temporary workspace, outside of the right-of-way in certain areas may be required in order to access and construct the transmission line. The construction workspace is intended to be primarily used for equipment access during construction, including the potential stringing areas located behind some corner structures.

AltaLink will consult with all affected landowners regarding the potential requirement for construction workspace. Final construction workspace and off right-of-way access will be determined following further detailed engineering and construction planning for the project and will be discussed with landowners prior to, and during construction of the line. Additional right-of-way for the purposes of guy wires for corner structures will also be required.

Project background

Cascade Power Project Limited Partnership (Cascade Power) has requested a connection to the transmission system for their approved 900 megawatt Combined Cycle Power Generation facility. To facilitate this connection, AltaLink is proposing to relocate transmission lines, upgrade the existing Bickerdike substation and construct new transmission lines to connect Cascade Power's Whisky Jack Substation to the electric system.

An expansion of the Bickerdike Substation fenceline of approximately 110 metres x 12-15 metres to the east is required to accommodate these new connections, as well as the addition of four new 240 kV circuit breakers. The proposed fenceline expansion will be located within an existing AltaLink Crown land lease area.

You can find more information about the project on our website at www.altalink.ca.

If you would like to speak to an AltaLink representative regarding the project, please contact us at 1-877-269-5903 or stakeholderrelations@altalink.ca. Thank you.

Sincerely,

Dave Lee
Manager, Stakeholder Engagement