

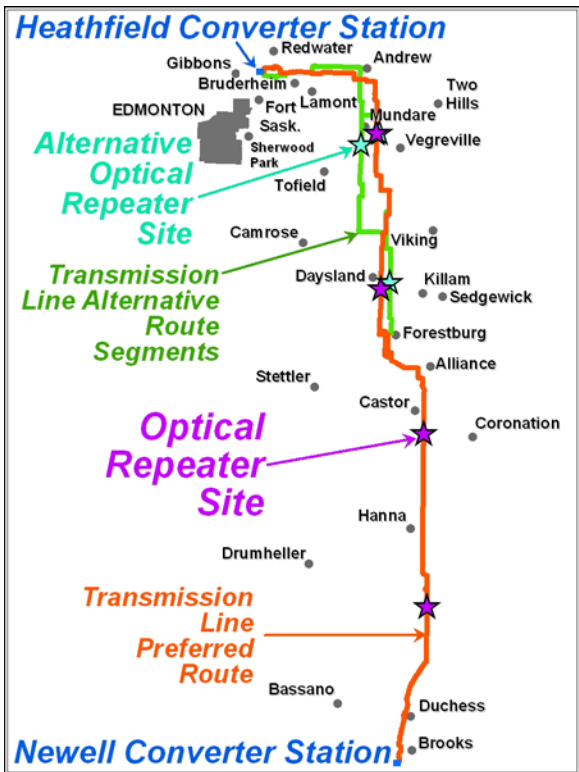


Project Information

ATCO Electric | works for you

September 9, 2011

Eastern Alberta DC Transmission Line: Optical Repeater Sites – Revised Site Locations



Why are you receiving this project information package?

ATCO Electric is planning to build four optical repeater sites at four different locations, approximately 100 kilometres apart, along the route of the proposed Eastern Alberta DC Transmission Line. We had identified preferred and alternative sites in March 2011, but following a technical review, we are adjusting the locations of three of the sites: Mundare, Coal Trail and Clement Lake. Revised sites have been identified along the preferred route (and alternative route segments, where applicable). The map at the left shows the new optical repeater site locations.

We have prepared this brochure for landowners, occupants, agencies and interested parties located on or near the proposed optical repeater sites.

Project Overview

ATCO Electric is planning to build a 500 kilovolt (kV) direct current (DC) transmission line between the Gibbons-Redwater and the West Brooks areas. The fibre optic cable that runs along the top of the transmission line requires repeater sites to boost communication signals at four locations along the length of the 485-kilometre line.

The repeater sites are comprised of a small metal building located within a fenced enclosure. These buildings are required to house telecommunications equipment to support the operation of ATCO Electric’s internal communications and telecontrol system.

Your comments and concerns are important to us. Please contact us:

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Email: HVDC@atcoelectric.com
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Regulatory Process

ATCO Electric has been directed by the Alberta Electric System Operator (AESO) to prepare an application to the Alberta Utilities Commission (AUC) for a 500 kV DC transmission line between the Gibbons-Redwater and Brooks areas on the eastern side of the province. The optical repeater sites are part of this project, and ATCO Electric would seek approval for them as part of the transmission line.

For more information on how you can participate in the application process please refer to the enclosed AUC brochure entitled *Public Involvement in Needs or Facilities Applications*.

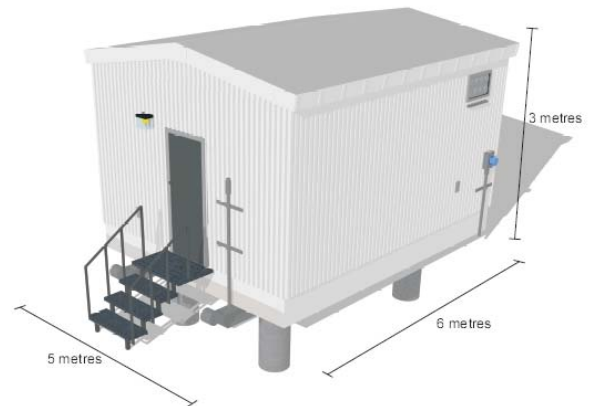
Optical Repeater Buildings

These buildings are required to house the telecommunications equipment to support the operation of ATCO Electric's internal communications and telecontrol system.

Each building, built on the proposed power line right-of-way, would be located within about 3 to 4 metres of a transmission line structure so that the repeater equipment can connect to the fibre optic cable that is incorporated into the overhead shield wire at the top of the transmission line. Each site is located near a developed road for all weather access, and near a power distribution line to provide power to the building. The buildings are metal-clad, approximately 6 metres long by 5 metres wide by 3 metres high, and situated on a gravel pad surrounded by a fence. Each site area will be about 9 by 12 metres.

Repeater Site Locations:

- **Mundare:** NE 11-53-16-W4M (Revised Preferred)
or SW 25-52-17-W4M (Alternative)
or S½ 13-53-16-W4M (Potential Alternative)
- **Wavy Lake:** SE 25-44-16-W4M (Preferred)
or SE 4-45-15-W4M (Alternative)
- **Castor Lake:** NW 20-36-13-W4M
- **Bullpound Lake:** SE 5-27-13-W4M



Optical Repeater Building

Consultation

We are committed to responsible development, and to conducting an open and transparent consultation process. The first step is to provide you this project information package and invite your feedback.

In addition, if your property is on or immediately adjacent to the optical repeater buildings, one of our representatives will contact you to discuss the project.

Following a review of the feedback received, ATCO Electric expects to file an amendment to the Facility Application to the AUC to obtain approval for the construction and operation of these facilities.

Included in this package

- Project Information Brochure
- Photo Detail Map of optical repeater site in your area
- AUC Brochure – *Public Involvement in Needs and Facilities Applications*
- Reply Form and Envelope