

APPENDIX C PARTICIPANT INVOLVEMENT PROGRAM (PIP)

Okotoks 678S Substation Upgrade and High River 65S Substation Modification

Needs Identification Document

1.0 Participant Involvement Program (PIP)

From March 2016 to July 2016, the AESO conducted a Participant Involvement Program (PIP) to assist in preparing its Okotoks 678S Substation Upgrade and High River 65S Substation Modification Needs Identification Document (NID). The AESO directed the transmission facility owner (TFO), in this case AltaLink Management Ltd., in its capacity as general partner of AltaLink, L.P., to assist the AESO in providing notification as part of the AESO's PIP. The AESO's PIP has been conducted in accordance with the requirements of Section 6.2.1, NID19 and Appendix A2 of the current Alberta Utilities Commission Rule 007, effective February 1, 2016.

1.1 Stakeholder Notification

The AESO's PIP was designed to notify and provide information to all occupants, residents and landowners within the notification area of the proposed development, as well as to other interested parties, including the following government bodies, agencies and other stakeholder groups (Stakeholders):

- Alberta Culture and Tourism
- Alberta Environment and Parks South Saskatchewan Region, Resource Management Program
- Alberta Environment and Parks South Saskatchewan Region, Land Approvals
- Alberta Transportation
- Municipal District of Foothills No. 31
- Town of High River
- Town of Okotoks
- FortisAlberta Inc.
- Telus Communications Company
- Lexin Resources Ltd.

The AESO used a variety of methods to notify Stakeholders on the need for the Okotoks 678S substation upgrade and High River 65S substation modification. The AESO developed a one-page Need Overview document that described the need for the proposed transmission development. A copy of this document was posted to the AESO website at <http://www.aeso.ca/transmission/33501.html> on April 6, 2016 and a notice was published in the AESO Stakeholder Newsletter on April 7, 2016. Copies of the Need Overview posting and the AESO Stakeholder Newsletter notice have been included as Attachments 1 and 2, respectively.

The Need Overview was also included with the TFO's project-specific information package that was sent by mail and/or email between March 31, 2016 and June 9, 2016 to the Stakeholders noted above. The TFO supplemented its project-specific information package with a project update postcard, which was sent to Stakeholders commencing June 8, 2016. Attachment 3 includes a copy of the TFO's information brochure and Attachment 4 includes a copy of the TFO's project update postcard.

To ensure that Stakeholders had the opportunity to provide feedback, the AESO also provided Stakeholders with a dedicated, toll-free telephone line (1-888-866-2959) and a dedicated email address (stakeholder.relations@aeso.ca). AESO contact information, along with the AESO's mailing address (2500, 330 5th Ave. SW, Calgary) and website address (www.aeso.ca), and a privacy statement that described how the AESO is committed to protecting Stakeholders' privacy, were included on the Need Overview related to this application.

As directed by the AESO, the TFO was prepared to direct any inquiries or concerns about the project need to the AESO. The TFO has indicated that Stakeholders have not identified any concerns or objections with the need for the proposed transmission development.

1.2 Public Notification

Most recently, the AESO published a Public Notification of NID Filing to the AESO website at <http://www.aeso.ca/transmission/33501.html> on June 27, 2016 and a notice in the AESO Stakeholder Newsletter on June 28, 2016. Copies of the Public Notification of NID Filing posting and the AESO Stakeholder Newsletter notice have been included as Attachments 5 and 6, respectively.

1.3 Concerns and Objections Raised

The AESO has not received any indication of concerns or objections from any party about the need for the proposed transmission development.

1.4 List of Attachments

- Attachment 1 – AESO Need Overview
- Attachment 2 – AESO Stakeholder Newsletter Need Overview Notice
- Attachment 3 – TFO's Information Brochure – *Okotoks 678S and High River 65S Substation Upgrades* (March 2016)
- Attachment 4 – TFO's Project Update Postcard – *Okotoks 678S and High River 65S Substation Upgrades* (June 2016)

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- Attachment 5 – AESO Public Notification of NID Filing (AESO Website Posting)
 - Attachment 6 – AESO Stakeholder Newsletter NID Filing Notice

Attachment 1 – AESO Need Overview

Need for 678S and 65S Substation Upgrades in the Okotoks and High River Areas



FAST FACT

Alberta's electric transmission system comprises the towers, wires and related equipment that are a part of moving electricity from where it is generated to where it is used.

FortisAlberta Inc. (Fortis) has applied to the Alberta Electric System Operator (AESO) for transmission system access to improve reliability and to serve growing demand for electricity in the Okotoks and High River areas. Fortis' request can be met by the following solution:

> PROPOSED SOLUTION

- Upgrading the Okotoks 678S substation including adding a 138/25 kV transformer, adding three 138 kV breaker and associated equipment.
- Modifying the High River 65S substation including adding two 25 kV breakers and associated equipment.

> NEXT STEPS

- The AESO intends to apply to the Alberta Utilities Commission (AUC) for approval of the need in mid-2016
- The AESO's needs identification document (NID) application will be available on the AESO's website at www.aeso.ca/nid at the time of its application to the AUC.

The following organizations have key roles and responsibilities in providing access to the transmission system:

> THE AESO:

- Must plan the transmission system and enable access to it for generators and other qualified customers
- Is regulated by the AUC and must apply to the AUC for approval of its NID

> ALTALINK MANAGEMENT LTD.:

- Is the transmission facility owner in the Okotoks and High River areas
- Is responsible for detailed siting and routing, constructing, operating and maintaining the associated transmission facilities
- Is regulated by the AUC and must apply to the AUC for approval of its transmission facilities applications

> CONTACT US

We appreciate your views, both on the need for transmission system development and proposed transmission plans. If you have any questions or comments, please contact us directly.

Alberta Electric System Operator

Jennifer Vollmer

AESO Stakeholder Relations

stakeholder.relations@aeso.ca

1-888-866-2959

2500, 330-5th Avenue SW

Calgary, AB T2P 0L4

Phone: 403-539-2450

Fax: 403-539-2949

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[@theaeso](https://www.facebook.com/theaeso)

> WHO IS THE AESO?

The Alberta Electric System Operator (AESO) is a not-for-profit organization with no financial interest or investment of any kind in the power industry. We plan and operate Alberta's electricity grid and wholesale electricity market safely, reliably and in the public interest of all Albertans.

The AESO is committed to protecting your privacy. Your feedback, comments and/or contact information collected by the AESO will be used to respond to your inquiries and/or to provide you with further information about the project. The AESO will not use your personal information for any other purpose and will not disclose your information without consent or a legal obligation. If you choose to communicate by email, please note, email is not a secure form of communication. Security of your communication while in transit cannot be guaranteed.

Attachment 2 – AESO Stakeholder Newsletter Need Overview Notice

678S and 65S Substation Upgrades – Need for Transmission System Development in the Okotoks and High River areas

FortisAlberta Inc. has applied to the AESO for transmission system access to improve reliability and to serve growing demand for electricity in the Okotoks and High River areas. Fortis' request can be met by upgrading the Okotoks 678S substation, including adding a 138/25 kV transformer, adding three 138 kV breakers and associated equipment, and modifying the High River 65S substation including adding two 25 kV breakers and associated equipment.

The AESO has posted a Need Overview for this project on its website. Please [click here](#) to view the document or visit the AESO website at www.aeso.ca and follow the path Transmission > Needs Identification Documents > 678S and 65S Substation Upgrades.

***Attachment 3 – TFO’s Information Brochure – Okotoks 678S and
High River 65S Substation Upgrades (March 2016)***



March 2016

Electric system improvements near you

Okotoks 678S and High River 65S Substation Upgrades

AltaLink's transmission system efficiently delivers electricity to 85 per cent of Albertans. Dedicated to meeting the growing need for electricity, AltaLink connects Albertans to renewable, reliable and low-cost power. With a commitment to community and environment, AltaLink is ensuring the transmission system will support Albertans' quality of life for years to come. Learn more at www.altalink.ca.

Thank you for your continued involvement with AltaLink projects in your area. You are receiving this newsletter because you are near the Okotoks 678S and High River 65S Substation Upgrades project and we want your input.

FortisAlberta has requested upgrades to the electric system in your area as it has grown significantly in recent years and the demand for electricity has increased. **Substation** upgrades are required at a site near you to ensure residents and businesses continue to have a reliable supply of electricity.

We are providing you with:

- project details
- maps of the proposed project sites
- information about how you can provide your input
- the project schedule

DEFINITION:

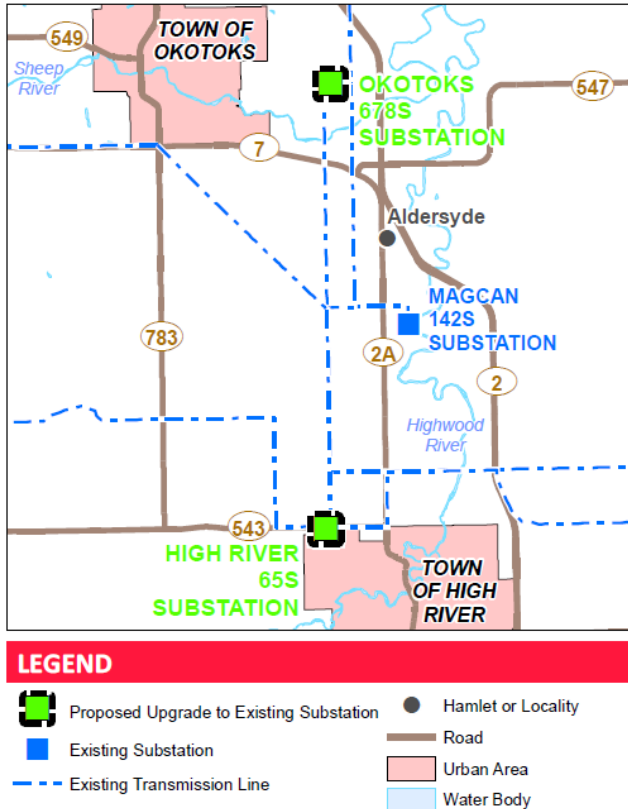
Substation

Substations are the connection points between power lines of varying voltages and contain equipment that controls and protects the flow of power. Substations include transformers that step down and step up the voltage so power can be transmitted through transmission lines or distributed to your community through distribution lines.

CONTACT US

1-877-267-1453

stakeholderrelations@altalink.ca
www.altalink.ca/regionalprojects



LEGEND

- Proposed Upgrade to Existing Substation
- Existing Substation
- Existing Transmission Line
- Hamlet or Locality
- Road
- Urban Area
- Water Body



Above: The existing Okotoks Substation.



Above: The existing High River Substation.

Project details

The proposed project involves equipment upgrades at the existing Okotoks and High River substations. Please note that a mobile substation may be used at either or both sites during construction to maintain electrical service in the area.

Okotoks Substation

AltaLink is proposing to add equipment to the Okotoks Substation, located approximately 2 kilometres (1.2 miles) east of the Town of Okotoks in SW-25-20-29-W4M. We are proposing to add the following equipment:

- one 138/25 kV transformer
- three 138 kV circuit breakers
- one 25 kV switchgear building, containing twelve 25kV circuit breakers
- two outdoor 25 kV circuit breakers

All work will take place on AltaLink-owned land and no expansion of the fence line will be required.

High River Substation

The High River Substation is located north of the Town of High River, between 498 Ave E and 499 Ave E, directly west of 64 Street E in NE-11-19-29-W4M. AltaLink is proposing to add two outdoor 25 kV circuit breakers to the High River Substation.

All work will take place on AltaLink-owned land and no expansion of the fence line will be required.

Definitions

Circuit breakers are electrical switches inside a substation that protect substation equipment.

Transformers step down the voltage in a substation so power can be distributed safely to your community through distribution lines. Transformers also step up the voltage so power can be transmitted through transmission lines.

Switchgear buildings house electrical equipment such as cables, switches and breakers and ensure electrical equipment is protected.

Electric and Magnetic Fields (EMF)

Altalink recognizes that people have concerns about exposure to Electric and Magnetic Fields (EMF) and we take those concerns very seriously. Everyone in our society is exposed to EMF from many sources, including:

- power lines and other electrical facilities
- electrical appliances in your home
- building wiring

National and international organizations such as Health Canada and the World Health Organization have been conducting and reviewing research about EMF for more than 40 years. Based on this research, these organizations have not recommended the general public take steps to limit their everyday exposure to EMF from high voltage transmission lines. If you have any questions about EMF please contact us.

Website: www.altalink.ca/emf

Email: emfdialogue@altalink.ca

Toll-free phone number: 1 -866-451-7817

Providing your input

We will contact landowners, residents and occupants near the proposed substation project to gather input and address questions or concerns.

After the consultation process is complete we will file an application with the Alberta Utilities Commission (AUC). The AUC will review the application through a process in which stakeholders can participate.

We will notify stakeholders when we file the application and again once the AUC has reached a decision about the project. To learn more about the AUC process and how you can become involved, please refer to the brochure included in this package titled *Public involvement in a proposed utility development*.

Anticipated project schedule

Notify and consult with stakeholders	March - April 2016
File application with Alberta Utilities Commission (AUC)	Summer 2016
Start construction if project is approved	Fall 2016
Construction completed	Summer 2017

Although we attempt to follow the anticipated project schedule it is subject to change. We will continue to provide you with updated schedule information if required as the project progresses.

Contact us

To learn more about the proposed project please contact:

ALTALINK

1-877-267-1453 (toll free)

E-mail: stakeholderrelations@altalink.ca

Website: www.altalink.ca/regionalprojects

To learn more about Alberta's electric system and the need for the project, please contact:

ALBERTA ELECTRIC SYSTEM OPERATOR (AESO)

1-888-866-2959

E-mail: stakeholder.relations@aeso.ca

To learn more about the application and review process, please contact:

ALBERTA UTILITIES COMMISSION (AUC)

780-427-4903 (toll-free by dialing 310-0000 before the number.)

E-mail: consumer-relations@auc.ab.ca

Other projects in your area

This project is near the Foothills Area Transmission Development (FATD) project. The project involves constructing new transmission lines near Okotoks, High River and other communities south and east of Calgary. Construction on FATD is complete and the line salvage component of the project is currently underway.

PRIVACY COMMITMENT

AltaLink is committed to protecting your privacy. Collected personal information will be protected under AltaLink's Privacy Policy and the Freedom of Information and Protection of Privacy Act. As part of the regulatory process for new transmission projects, AltaLink may provide your personal information to Alberta Utilities Commission (AUC). For more information about how AltaLink protects your personal information, visit our website at www.altalink.ca/privacy or contact us directly via e-mail privacy@altalink.ca or phone at 1-877-267-6760.

INCLUDED IN THIS INFORMATION PACKAGE:

- Project maps
- AESO Need Overview
- AUC brochure: *Public Involvement in a proposed utility development*

SUBSCRIBE TO THIS PROJECT

- 1) Visit: altalink.ca/projects
- 2) Search for the project title
- 3) Click **Subscribe to Updates**

LET'S TALK TRANSMISSION



www.twitter.com/altalink



www.facebook.com/altalinktransmission

Attachment 4 – TFO’s Project Update Postcard – *Okotoks 678S and High River 65S Substation Upgrades* (June 2016)

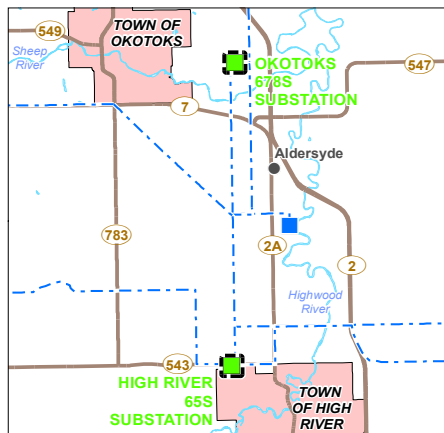
Okotoks 678S and High River 65S Substation Upgrades

In April 2016, you may have received an AltaLink project newsletter describing the Okotoks 678S and High River 65S Substation Upgrades project. The project involves adding equipment to the Okotoks and High River substations to ensure residents and businesses continue to have a reliable supply of electricity. We will be filing an application for the project with the Alberta Utilities Commission in the summer of 2016.

You can find information on this project at:
www.altalink.ca/projects/view/240/okotoks-678s-and-high-river-65s-substation-upgrades

The need for this project was identified by the AESO, and you are receiving this postcard because some details regarding the AESO notification process were not included in the April 2016 newsletter. If you have concerns regarding the need, you may contact the AESO directly at: 1-888-866-2959 or stakeholder.relations@aeso.ca

ALTALINK
2611 3 Avenue SE
Calgary, AB T2A 7W7



LEGEND

- | | | | |
|--|---|--|------------|
| | Proposed Upgrade to Existing Substation | | Road |
| | Existing Substation | | Urban Area |
| | Existing Transmission Line | | Water Body |
| | Hamlet or Locality | | |

WHO IS THE AESO?

The Alberta Electric System Operator (AESO) is an independent, not-for-profit organization responsible for the safe, reliable and economic planning and operation of the provincial transmission grid. For more information about why this project is needed, please refer to the AESO's Need Overview included with the April 2016 package, or visit www.aeso.ca. If you have any questions or concerns about the need for this project you may contact the AESO directly or you can make your concerns known to an AltaLink representative who will collect your personal information for the purpose of addressing your questions and/or concerns to the AESO. This process may include disclosure of your personal information to the AESO.

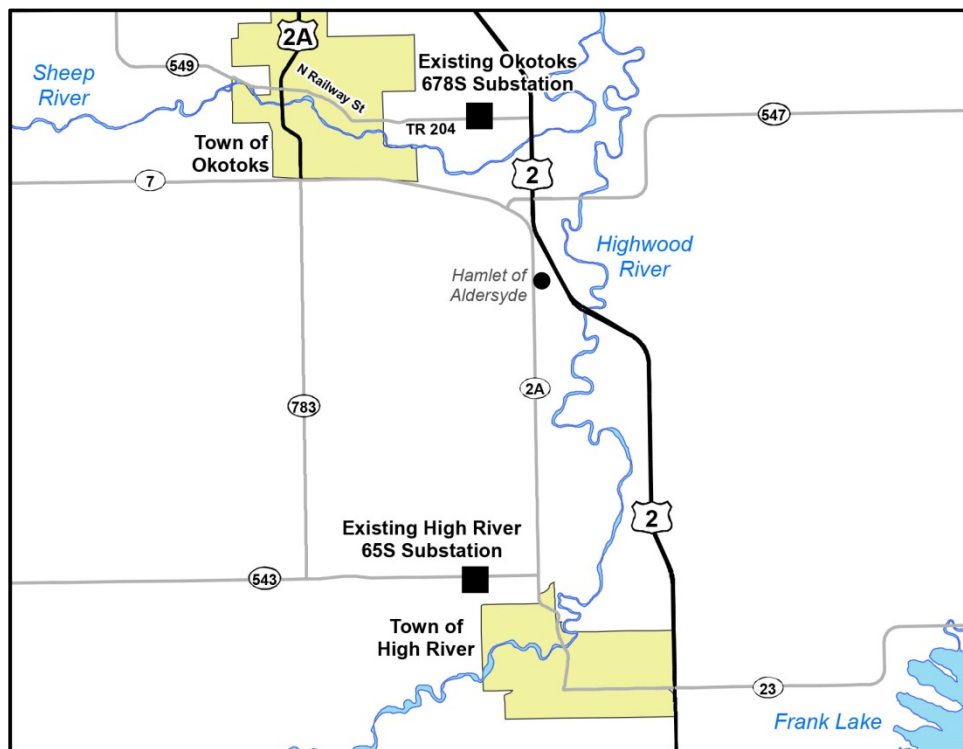
Attachment 5 – AESO Public Notification of NID Filing (AESO Website Posting)

AESO Public Notification of NID Filing

Addressing the need for upgrades at the Okotoks 678S substation and modifications at the High River 65S substation in the Okotoks and High River areas

The Alberta Electric System Operator (AESO) advises you that it intends to file a Needs Identification Document (NID) for the Okotoks 678S Substation Upgrade and High River 65S Substation Modification with the Alberta Utilities Commission (AUC) on or after July 15, 2016.

FortisAlberta Inc. (Fortis) has applied to the Alberta Electric System Operator (AESO) for transmission system access to improve reliability and to serve growing demand for electricity in the Okotoks and High River areas. Fortis' request can be met by upgrading the Okotoks 678S substation, including adding a 138/25 kV transformer, three 138 kV circuit breakers, and associated equipment; and by modifying the High River 65S substation, including adding two 25 kV circuit breakers and associated equipment.



The black squares on the map indicate the approximate locations of the Okotoks 678S and High River 65S substations, which are at 4-25-20-29-W4 and 16-11-19-29-W4. In a separate application called a Facility Application, AltaLink Management Ltd. (AltaLink), the transmission facility owner (TFO) in the Okotoks and High River areas, will describe the transmission developments and request AUC approval to construct and operate the specific transmission facilities.

The AESO and AltaLink presented this need to stakeholders, including residents, occupants and landowners, from March 2016 – June 2016. The AESO has considered feedback gathered from stakeholders, and technical and cost considerations, and will apply to the AUC for approval of the need for this transmission development. Once it is filed, the NID will be posted on the AESO website at <http://www.aeso.ca/transmission/33501.html>. Please visit our website, www.aeso.ca for more information, or contact the AESO at 1-888-866-2959 or stakeholder.relations@aeso.ca

Attachment 6 – AESO Stakeholder Newsletter NID Filing Notice

Okotoks 678S Substation Upgrade and High River 65S Substation Modification – Notice of NID Filing

FortisAlberta Inc. has applied to the AESO for transmission system access to improve reliability and to serve growing demand for electricity in the Okotoks and High River areas. FortisAlberta's request can be met by upgrading the Okotoks 678S substation, including adding a 138/25 kV transformer, three 138 kV circuit breakers, and associated equipment; and by modifying the High River 65S substation, including adding two 25 kV circuit breakers and associated equipment.

The AESO intends to file the Okotoks 678S Substation Upgrade and High River 65S Substation Modification Needs Identification Document (NID) application with the Alberta Utilities Commission (AUC) on or after July 15, 2016, requesting that the AUC approve this NID.

The AESO has posted the public notification for its NID filing on its website. Please [click here](#) to view the document or visit the AESO website at www.aeso.ca and follow the path: Transmission > Needs Identification Documents > Okotoks 678S Substation Upgrade and High River 65S Substation Modification to see all the relevant documents, including the NID application once it is filed with the Commission.