

APPENDIX C AESO PIP

Dry Creek 186S Substation Modification

Needs Identification Document

1.0 Participant Involvement Program (PIP)

From March 2016 to September 2016, the AESO conducted a Participant Involvement Program (PIP) to assist in preparing its Dry Creek 186S Substation Modification Needs Identification Document (NID). The AESO directed 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 in accordance with NID19 and Appendix A2 of Alberta Utilities Commission Rule 007.

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 Environment and Parks (AEP)
- Alberta Culture
- City of Airdrie
- NAV Canada
- Transport Canada
- Rocky View County
- Calgary Airport Authority
- Canadian Pacific Railway
- FortisAlberta Inc.

The AESO used a variety of methods to notify Stakeholders on the need for the Dry Creek 186S 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/33360.html> on March 21, 2016 and a notice was published in the AESO Stakeholder Newsletter on March 22, 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 sent to the Stakeholders noted above, between March 18, 2016 and June 7, 2016. Attachment 3 includes a copy of AltaLink's project newsletter.

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/33360.html> on August 24, 2016 and a notice in the AESO Stakeholder Newsletter on August 25, 2016. Copies of the Public Notification of NID Filing posting and the AESO Stakeholder Newsletter notice have been included as Attachments 4 and 5, 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 Project Newsletter – *Fortis Dry Creek 186S Substation Breaker Additions* (March 2016)
- Attachment 4 – AESO Public Notification of NID Filing (AESO Website Posting)
- Attachment 5 – AESO Stakeholder Newsletter NID Filing Notice

Attachment 1 – AESO Need Overview

Dry Creek 186S Substation in the City of Airdrie Area



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 serve growing demand for electricity in the City of Airdrie area. Fortis' request can be met by the following solution:

> PROPOSED SOLUTION

- Adding one 138kV bus tie breaker at Dry Creek 186S substation
- Adding two 25kV feeder breakers

> 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 City of Airdrie
- 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

www.aeso.ca
www.poweringalberta.ca
@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

Dry Creek 186S Substation – Need for Transmission System Development in the City of Airdrie area

FortisAlberta Inc. (Fortis) has applied to the Alberta Electric System Operator (AESO) for transmission system access to serve growing demand for electricity in the City of Airdrie area. Fortis' request can be met by the adding one 138 kV bus tie breaker at Dry Creek 186S substation and adding two 25 kV feeder breakers.

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 > Dry Creek 186S Substation

**Attachment 3 – TFO Project Newsletter – *Fortis Dry Creek 186S*
Substation Breaker Additions (March 2016)**

Electric system improvements near you

Fortis Dry Creek 186S Substation Breaker Additions

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.

You are receiving this newsletter because you are near the Fortis Dry Creek 186S Substation Breaker Additions project and we want your input.

FortisAlberta has requested upgrades to the existing Dry Creek **Substation** to help meet the growing demand for power in the area and to ensure Albertans continue to have a reliable supply of electricity.

We are providing you with:

- project details
- a map of the proposed project site
- information about how you can provide your input
- the project schedule

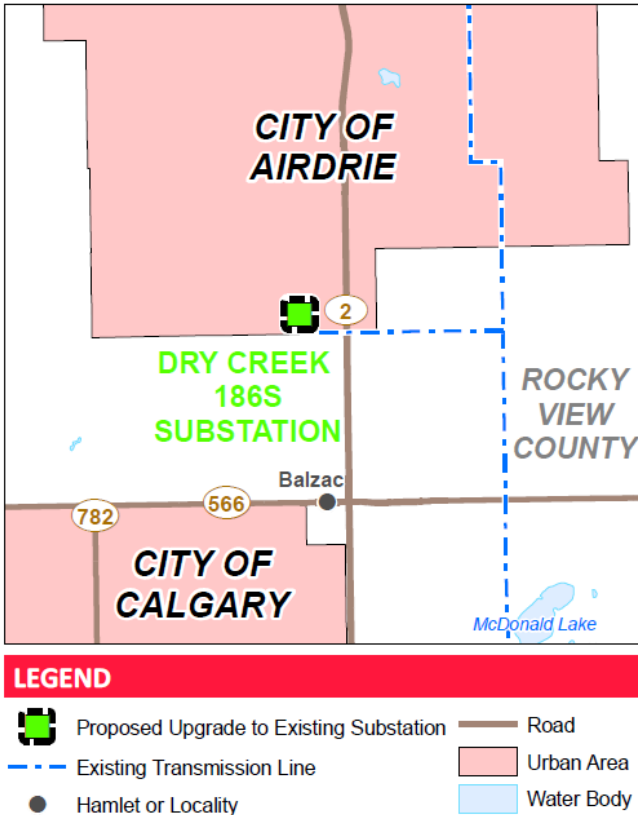
DEFINITION:

Substation

Substations are the connection points between power lines of varying voltages and contain equipment that controls and protects the flow of power. Substations may 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/projects



Project details

The proposed project includes upgrading equipment in the Dry Creek Substation, located approximately 800 metres (0.5 miles) west of Highway 1 in southwest Airdrie (SW-25-26-1-W5M).

If approved, upgrades to the existing substation include:

- installing two indoor 25 kilovolt (kV) circuit breakers inside an existing switchgear building and their associated equipment
- installing one outdoor 138 kV circuit breaker and its associated equipment

Circuit breakers are electrical switches inside a substation that protect substation equipment. Circuit breakers help ensure the safety and reliability of the electric system.

If required, a mobile substation and/or temporary structures may be used during construction to ensure electrical service in the area is not interrupted. All work will take place on AltaLink-owned land and no expansion of the fence line will be required.

Please refer to the included detailed photo map (DP1) for location details.



The Dry Creek Substation is pictured above.



A typical 138 kV circuit breaker is pictured above.

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

After our notification process is complete, we will file a facility application with the Alberta Utilities Commission (AUC). The AUC ensures the fair and responsible delivery of Alberta's utility services. If the project is approved by the AUC, construction would begin in March/April 2017. 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 utilities development*.

Anticipated project schedule

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

Although we will 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)

Email: stakeholderrelations@altalink.ca

Website: www.altalink.ca/projects

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

Email: stakeholder.relations@aeso.ca

The 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 this 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. You can also make your questions or 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.

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)

Email: consumer-relations@auc.ab.ca

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 map
- AUC brochure: *Public Involvement in a proposed utility development*
- AESO Need Overview Document

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](https://www.facebook.com/altalinktransmission)

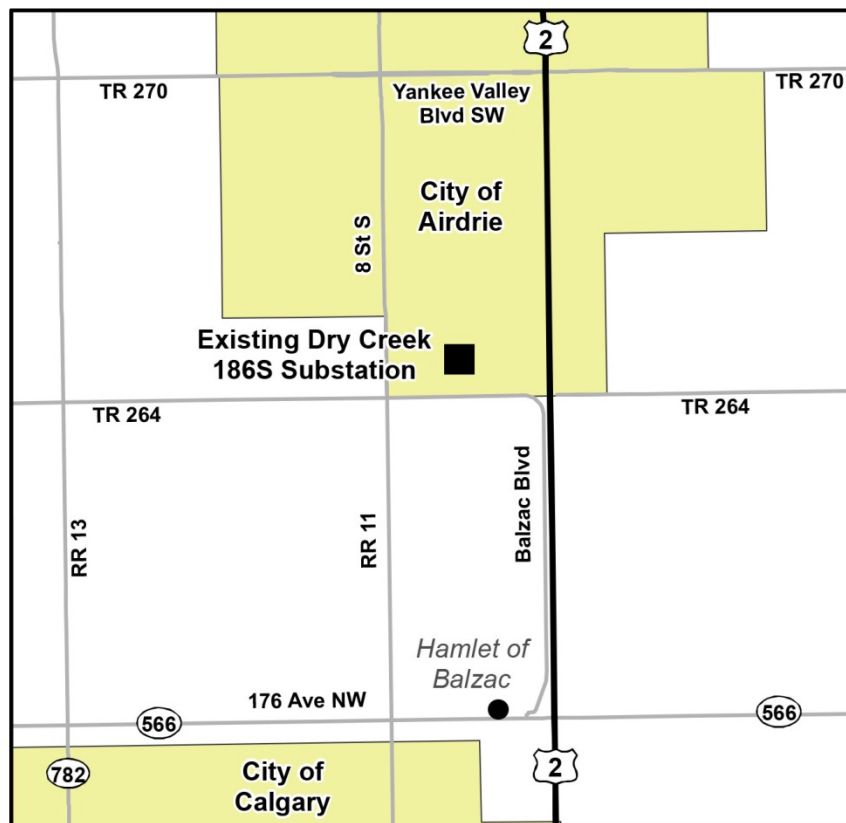
Attachment 4 – AESO Public Notification of NID Filing (AESO Website Posting)

AESO Public Notification of NID Filing

Addressing the Need for the Dry Creek 186S Substation Modification in the City of Airdrie Area

The Alberta Electric System Operator (AESO) advises you that it intends to file a Needs Identification Document (NID) for the Dry Creek 186S Substation Modification with the Alberta Utilities Commission (AUC) on or after September 9, 2016.

FortisAlberta Inc. (FortisAlberta) has applied to the AESO for transmission system access to serve growing demand for electricity in the City of Airdrie area. FortisAlberta's request can be met by adding one 138 kV circuit breaker and two 25 kV circuit breakers at the existing Dry Creek 186S substation.



The black square on the map indicates the approximate location of the Dry Creek 186S Substation, which is at SW-25-26-1-W5. In a separate application called a Facility Application, AltaLink Management Ltd. (AltaLink), the transmission facility owner (TFO) in the City of Airdrie area, will describe the specific developments and request AUC approval to construct and operate the specific transmission facility.

The AESO and AltaLink presented this need to stakeholders, including residents, occupants and landowners, from March 2016 to August 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/33360.html>

Please visit our website, www.aeso.ca for more information, or contact the AESO at 1-888-866-2959 or stakeholder.relations@aesocanada.com

Attachment 5 – AESO Stakeholder Newsletter NID Filing Notice

Dry Creek 186S Substation Modification – Notice of NID Filing

FortisAlberta Inc. (FortisAlberta) has applied to the AESO for transmission system access to serve growing demand for electricity in the City of Airdrie area. FortisAlberta's request can be met by adding one 138 kV circuit breaker and two 25 kV circuit breakers at the existing Dry Creek 186S substation.

The AESO intends to file the Dry Creek 186S Substation Modification Needs Identification Document (NID) application with the Alberta Utilities Commission (AUC) on or after September 9, 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 > Dry Creek 186S Substation to see all the relevant documents, including the NID application once it is filed with the AUC.