

APPENDIX C AESO PIP

Gainford 165S Substation Upgrade

Needs Identification Document

1.0 Participant Involvement Program (PIP)

From February 2016 to July 2016, the AESO conducted a Participant Involvement Program (PIP) to assist in preparing its *Gainford 165S Substation Upgrade 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
- Alberta Environment and Parks (AEP) Regional Resource Management
- Alberta Transportation – Stony Plain District
- ATCO Gas and Pipelines Ltd., C/O ATCO Pipelines Ltd.
- ATCO Gas and Pipelines Ltd., C/O ATCO Gas Ltd.
- EQUUS Rea Ltd.
- FortisAlberta Inc.
- Parkland County
- Summer Village of Seba Beach
- TELUS Communications Inc.
- Trans Mountain Pipeline ULC

The AESO used a variety of methods to notify Stakeholders of the need for the Gainford 165S substation upgrade. 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/33166.html> on February 3, 2016 and a notice was published in the AESO Stakeholder Newsletter on February 4, 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 which was sent by mail and/or email, to the Stakeholders noted above, between February 1, 2016 and May 16, 2016. Attachment 3 includes a copy of the TFO's information brochure.

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 Gainford 165S substation upgrade.

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/33166.html> on July 6, 2016 and a notice in the AESO Stakeholder Newsletter on July 7, 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's Information Brochure – *Gainford Substation Transformer Replacement* (February 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

Need for upgrades to the Gainford 165S Substation in the Gainford 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.

Trans Mountain Pipeline L.P. (Trans Mountain) has applied to the Alberta Electric System Operator (AESO) for transmission system access to supply electricity to a proposed industrial load addition in the Gainford area. Trans Mountain's request can be met by the following solution:

➤ PROPOSED SOLUTION

- Replace the existing 138/4.16 kV transformer with one of higher capacity.
- Add 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 Gainford area
- 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
Susan Haider**

AESO Stakeholder Relations

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www.poweringalberta.ca

[@theaeso](https://twitter.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

Upgrades to the Gainford 165S Substation – Need for Transmission System Development in the Gainford area

Trans Mountain Pipeline L.P. (Trans Mountain) has applied to the Alberta Electric System Operator (AESO) for transmission system access to supply electricity to a proposed industrial load addition in the Gainford area. Trans Mountain's request can be met by replacing the existing 138/4.16 kV transformer with one of higher capacity and adding 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 > Gainford 165S Substation Upgrade.

Attachment 3 – TFO’s Information Brochure – *Gainford Substation Transformer Replacement* (February 2016)



Electric system improvements near you

Gainford Substation Transformer Replacement



February 2016



SILVERADO

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 Gainford Substation Transformer Replacement project and we want your input.

Kinder Morgan Canada has requested upgrades to AltaLink's Gainford **Substation** to help support the power demands at the Kinder Morgan Canada facility for the proposed Trans Mountain Expansion Project.

We are providing you with:

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

DEFINITION:

Substation

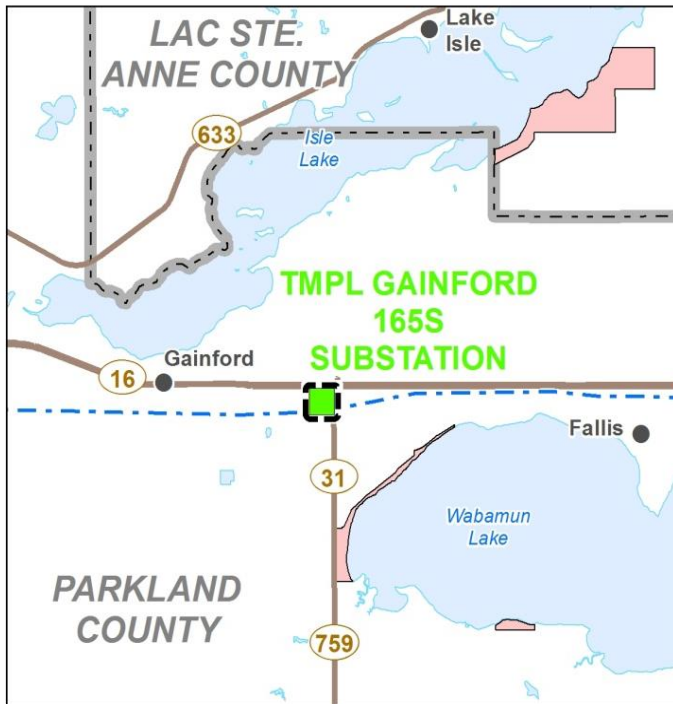
Substations are the connection points between power lines of varying voltages and contain equipment that controls and protects the flow of power.

CONTACT US

1-877-267-1453

stakeholderrelations@altalink.ca

www.altalink.ca/regionalprojects



LEGEND

	Proposed Upgrade to Existing Substation		Road
	Existing Transmission Line		Urban Area
	Hamlet or Locality		Water Body
	Municipal or County Boundary		

Project details

The proposed project involves upgrades to the Gainford Substation, located near Seba Beach in Parkland County (NE-13-53-6-W5).

The upgrades to the Gainford Substation include replacing the existing transformer with a new 138/4.16 kilovolt (kV) transformer.

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

During construction, a mobile substation may be used to maintain electrical service and reliability at the substation. If required, it may be located outside the substation fence and will remain within AltaLink’s leased boundaries.



The existing Gainford Substation is pictured above.



A typical transformer 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

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 once again when 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	Early 2016
File application with Alberta Utilities Commission (AUC)	Spring/Summer 2016
Start construction if project is approved	Fall 2018
Construction completed	Early 2019

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

To learn more about Kinder Morgan Canada's project, please contact:

KINDER MORGAN CANADA

1-866-514-6700

Email: info@transmountain.com

www.transmountain.com

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
- AESO Need Overview Document
- 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



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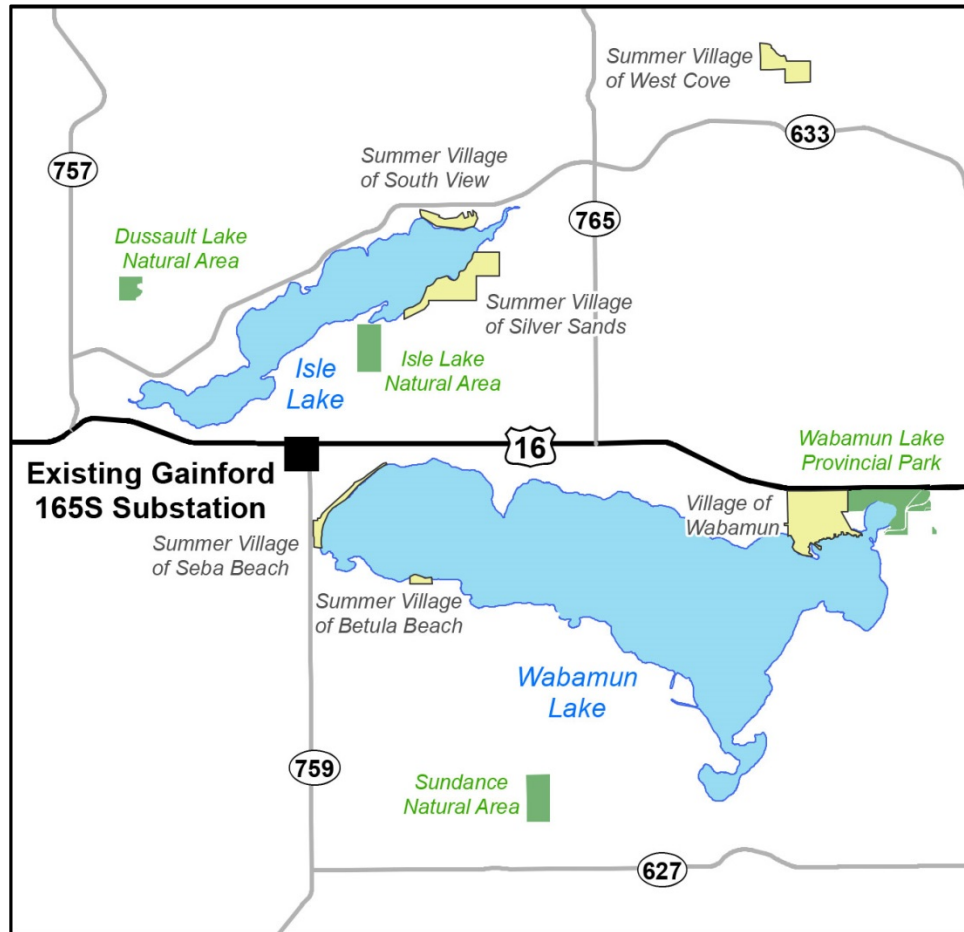
Attachment 4 – AESO Public Notification of NID Filing (AESO Website Posting)

AESO Public Notification of NID Filing

Addressing the Need for the Gainford 165S Substation Upgrade in the Gainford Area

The Alberta Electric System Operator (AESO) advises you that it intends to file a Needs Identification Document (NID) for the Gainford 165S substation upgrade with the Alberta Utilities Commission (AUC) on or after July 22, 2016

Trans Mountain Pipeline L.P. has applied to the AESO for transmission system access to meet increased industrial demand for electricity in the Gainford area. Trans Mountain's request can be met by replacing the existing 138/4.16 kV transformer with one of higher capacity and adding the associated equipment.



The black square on the map indicates the approximate location of the Gainford substation, which is at NE-13-53-6-W5. In a separate application called a Facility Application, AltaLink, the transmission facility owner (TFO) in the Gainford 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 February 2016 to July 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/33166.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 5 – AESO Stakeholder Newsletter NID Filing
Notice**

Gainford 165S Substation Upgrade – Notice of NID Filing

Trans Mountain Pipeline L.P. (TMPL) has applied to the AESO for transmission system access to supply electricity to a proposed industrial load addition in the Gainford area. TMPL's request can be met by replacing the existing 138/4.16 kV transformer with one of higher capacity and adding other associated equipment.

The AESO intends to file the Gainford 165S Substation Upgrade Needs Identification Document (NID) application with the Alberta Utilities Commission (AUC) on or after July 22, 2016 requesting that the AUC approve this NID.

The AESO has posted the public notification for its NID filing on its website for the Gainford 165S substation upgrade. Please [click here](#) to view the document or visit the AESO website at www.aeso.ca and follow the path Transmission > Needs Identification Documents > Gainford 165S Substation Upgrade to see all the relevant documents, including the NID application once it is filed with the Commission.