

Participant Involvement Program Summary

Armistead 2102S Substation

Date: November 12, 2025

Version: V2

Classification: Public

1. Introduction

From November 2023 to May 2025, the AESO conducted a Participant Involvement Program (PIP) for the *Armistead 2102S Substation Needs Identification Document*. The AESO directed the legal owner of transmission facilities (TFO), in this case ATCO Electric Ltd., to assist the AESO in providing notification as part of the AESO's PIP.

The AESO's PIP is designed to notify Stakeholders and Indigenous groups in the area where the AESO has reasonably determined that facilities could be installed to implement the AESO's preferred option to respond to the request for system access service.

The AESO's PIP has been conducted in accordance with the requirements of Section 7.1.2, NID12 and Appendix A2 of the current Alberta Utilities Commission (Commission) Rule 007 (AUC Rule 007), effective March 28, 2024.

2. Stakeholder and Indigenous Group Notification

The AESO developed a one-page AESO Need Overview document with the purpose of notifying Stakeholders and Indigenous groups of the following items:

- a description of the need for development;
- a description of the AESO's preferred option to respond to the system access service request;
- identification of the general area where facilities could be installed to implement the AESO's preferred option to respond to the system access service request;
- the AESO's contact information, including telephone, email and website, for further information; and
- the AESO's next steps.

A copy of the Need Overview was posted to the AESO website at <https://www.aeso.ca/grid/transmission-projects/need-for-transmission-enhancements-in-the-fort-mcmurray-area-2741> and a notice was published in the AESO Stakeholder Newsletter on May 7, 2025. 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 distributed to Stakeholders and Indigenous groups, as further described in Section 2.1.

2.1 Stakeholders and Indigenous Groups Notified in the TFO's PIP

The TFO has advised the AESO that its PIP included notification within 800 meters of the proposed project as recommended by the Commission in Appendix A1 in AUC Rule 007.¹

The TFO notified a total 26 Stakeholders, of which 1 was classified as a private or individual landowner. The other 19 notified Stakeholders and the 6 notified Indigenous groups are listed below:

- | | |
|---|---|
| • Alberta Environment and Protected Areas – Fish & Wildlife – Fort McMurray | • Everest Canadian Resources Corp c/o Greenfire Resources Operating Corporation |
| • Alberta Forestry and Parks – Land | • Fort McKay First Nation |
| • Alberta-Pacific Forest Industries Inc | • Fort McKay Metis Nation |
| • Athabasca Chipewyan First Nation c/o ACFN Industry Relations | • Fort McMurray #468 First Nation |
| | • Industry Canada |

¹ The TFO has identified its facility application to be of the type: *Overhead transmission line and new substation development – rural or industrial setting*, as categorized in AUC Rule 007, Appendix A1, Section 5.

- Metis Nation of Alberta
- Mikisew Cree First Nation
- Nav Canada
- NGTL GP Ltd c/o TransCanada Corporation
- Northland Forest Products Ltd
- Petrochina Canada Ltd
- Regional Municipality of Wood Buffalo
- Southern Pacific Resource Corp c/o Orphan Well
- Suncor Energy Inc
- TELUS Communication
- TransCanada Pipeline Ventures Limited Partnership c/o TransCanada Corporation
- TransCanada Pipeline Ventures Ltd c/o TransCanada Corporation
- TransCanada Pipelines Limited c/o TransCanada Corporation
- Transport Canada/Civil Aviation
- White Spruce Pipeline GP Ltd c/o South Bow Infrastructure (Canada) Ltd.
- Wolf NGL Inc

Attachment 3 includes the TFO's project newsletter, which included the AESO Need Overview that was distributed to the Stakeholders and Indigenous groups described above between April 30, 2025, and May 15, 2025. The TFO's project newsletter was posted on the TFO's project-specific webpage <https://electric.atco.com/en-ca/about-us/projects/armistead-substation-transmission.html> on April 30, 2025. The TFO's project information package included the AESO's contact information, a description of the AESO's role, a reference to the AESO Need Overview, and an invitation to contact the TFO or the AESO for additional information.

3. Early Rate-Payer Group Engagement

The AESO published terms of participation for rate-payer group involvement in DFO projects on its website in 2022: <https://www.aeso.ca/assets/Terms-of-Participation-Industry-and-Rate-Payer-Groups.pdf>

The AESO sought feedback from eligible rate-payer groups during early stages of the AESO Connection Process. The AESO notified the following eligible rate-payer groups:

- Alberta Direct Connect
- Consumer Coalition of Alberta
- Utilities Consumer Advocate
- Industrial Power Consumers Association of Alberta

3.1 Stage 1

On November 30, 2023, the AESO provided a summary of the transmission alternatives that were considered for further study. A generic version of the letter, which included the summary of alternatives is included as Attachment 4.

No feedback on the transmission alternatives was provided by the notified rate-payer groups.

3.2 Stage 2

On July 23, 2024, the AESO provided a summary of the preferred alternative decision, including rationale for ruling out each considered alternative. A generic version of the letter, which included the summary of the alternative selection decision is included as Attachment 5.

No feedback on the preferred alternative was provided by the notified rate-payer groups.

4. Responding to Questions and Concerns

To ensure that Stakeholders and Indigenous groups had the opportunity to provide feedback, the AESO provided Stakeholders and Indigenous groups with AESO contact information, including a dedicated, toll-free telephone line (1-888-866-2959) and a dedicated email address (stakeholder.relations@aeso.ca). The AESO Need Overview included this contact information, along with the AESO's mailing address (3000, 240 4th Ave. SW, Calgary) and website address (www.aeso.ca), and a privacy statement that described how the AESO is committed to protecting Stakeholders' privacy.

As directed by the AESO, the TFO was prepared to direct any Stakeholder questions addressed to the AESO, or questions regarding the AESO Need Overview, to the AESO.

5. Questions and Concerns Raised

The TFO has advised the AESO that none of the Stakeholders or Indigenous groups notified by the TFO identified any concerns or objections regarding the AESO's preferred option to respond to the system access service request or the need for development.

The AESO has not received any indication of concerns or objections about the AESO's preferred option to respond to the system access service request or the need for development.

6. List of Attachments

- Attachment 1 – AESO Need Overview (May 2025)
- Attachment 2 – AESO Stakeholder Newsletter Need Overview Notice (May 7, 2025)
- Attachment 3 – TFO Project Newsletter – Armistead Substation Transmission Project Connection (May 2025)
- Attachment 4- Stage 1 Early Rate Payer Engagement Letter and Summary (November 2023)
- Attachment 5 – Stage 2 Early Rate Payer Engagement Letter and Summary (July 2024)

Attachment 1 – AESO Need Overview (May 2025)

Need for Transmission Enhancements in the Fort McMurray area

ATCO Electric Ltd. (ATCO) has applied to the AESO for transmission system access to reliably serve growing demand for electricity in the Fort McMurray area. ATCO's request can be met by the following solution:

PROPOSED SOLUTION

- Add a substation, designated as Armistead 2102S, including two 240/25 kilovolt (kV) transformers, and two 240 kV circuit breakers.
- Add one 240 kV transmission line to connect the proposed Armistead 2102S substation to the existing 240 kV transmission line 9L74 in a T-tap configuration.
- Add or modify associated equipment as required for the above transmission developments

NEXT STEPS

- In late 2025, the AESO may consider the need for this project for approval under section 501.3 of the ISO rules, *Abbreviated Needs Approval Process* (ANAP Rule), or apply to the Alberta Utilities Commission (AUC) for approval of the need.
- The AESO will notify stakeholders via the AESO's website at www.aeso.ca/grid/transmission-projects prior to the project being considered under the ANAP Rule or when filing a needs identification document (NID) application with 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.
- Can approve eligible projects through the ANAP Rule and for non-eligible projects, the AESO will prepare and submit a NID to the AUC for approval.

ATCO

- Is the transmission facility owner in Fort McMurray area.
- Is responsible for detailed siting and routing, constructing, operating, and maintaining the transmission facilities.
- Is regulated by the AUC and must apply to the AUC for approval of its transmission facilities applications.

WHO IS THE AESO?

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

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.

CONTACT US

Alberta Electric System Operator

AESO Stakeholder Relations
stakeholder.relations@aeso.ca
 1-888-866-2959

3000, 240-4th Avenue SW
 Calgary, AB T2P 4H4
 Phone: 403-539-2450

www.aeso.ca | [@theaeso](https://x.com/theaeso)

Attachment 2 – AESO Stakeholder Newsletter Need Overview Notice (May 7, 2025)

GRID

Need Overview | Transmission Enhancements - Fort McMurray Area

ATCO Electric Ltd. (ATCO) has applied to the AESO for transmission system access to reliably serve the growing demand for electricity in the Fort McMurray area.

Click here for the proposed transmission development and Need Overview document or visit aeso.ca:

Grid > Transmission Projects > Need for Transmission Enhancements in the Fort McMurray Area (2741).

**Attachment 3 – TFO Project Newsletter – Armistead Substation Transmission Project Connection
(April 2025)**

ATCO

SHAPE the conversation



April 2025

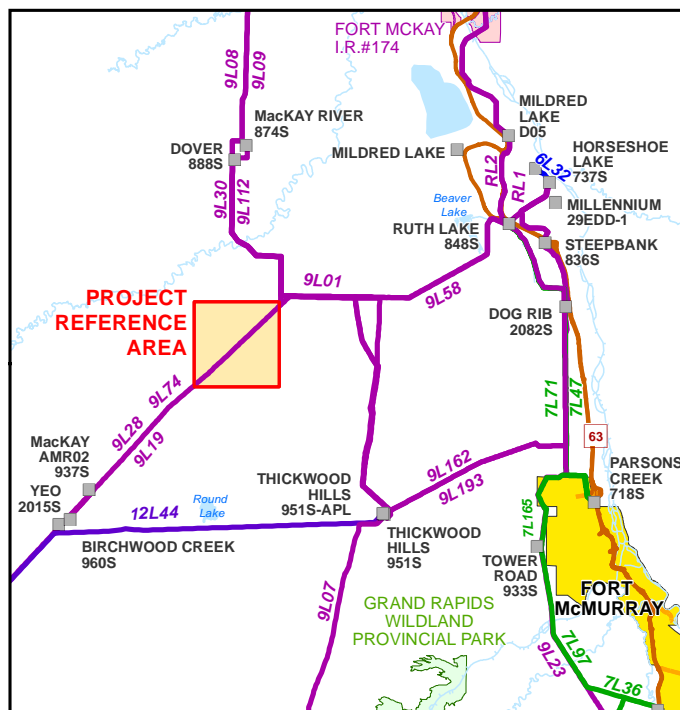
ARMISTEAD SUBSTATION TRANSMISSION PROJECT

This newsletter provides you with information about electric transmission facilities being proposed in your area. This package provides important project information and outlines our public consultation process. We invite any comments, questions, or concerns you may have.

The proposed ATCO Electric Ltd. (ATCO) Armistead Substation Transmission Project (the Project) will be located within the Municipality of Wood Buffalo, Alberta and is needed to serve growing demand for electricity in the area.

If approved, the Project will include the construction of the Armistead substation (to be designated as 2102S) and approximately 410 meters (m) of single circuit 240 kilovolt (kV) transmission line (to be designated as 9LA74) to connect the new substation to the electrical grid. The Project also requires modifications to existing transmission line 9L74 to accommodate the T-tap connection of the proposed transmission line 9LA74. Please refer to the enclosed materials for further details.

ATCO is seeking your input on how this project may affect you. If you are in direct vicinity of the planned facility, ATCO will contact you in the coming weeks.



Project Need

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 this package or visit www.aeso.ca.

If you have any questions or concerns about the need for this project or the proposed transmission development to meet the need, you may contact the AESO directly. You can also make your questions or concerns known to an ATCO 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.

Included in this package:

- Technical Details
- Telecommunication Tower newsletter
- Proposed Site Layout
- AUC Brochure: *Participating in the AUC's independent review process to consider facility applications*
- AESO Need Overview
- Reply form and postage paid envelope

CONTACT INFORMATION

Your comments and concerns are important to us. Please contact us if you would like to learn more about this project or if you would like to share information with us.

- Call us toll free at: **1-855-420-5775** or
- Contact the planner directly:

John Naughton

Land Planning
ATCO Electric Ltd.
10035 - 105 Street
Edmonton, AB T5J 1C8

Email: consultation@atcoelectric.com
Website: www.electric.atco.com

Alberta Electric System Operator (AESO)

Phone: 1-888-866-2959
Email: stakeholder.relations@aeso.ca
Website: www.aeso.ca

Alberta Utilities Commission (AUC)

Phone: 780-427-4903
(For toll-free, dial 310-0000 first)
Email: consumer-relations@auc.ab.ca
Website: www.auc.ab.ca

ATCO

Proposed Timeline

April 2025

Notification to landholders, agencies and other interested parties.

April/May 2025

Consultation with landholders, agencies and other interested parties will commence.

May 30, 2025

Deadline for submission of public comment for the proposed telecommunications tower (see telecommunication tower newsletter for further details).

September 2025

Submission of applications to the Alberta Utilities Commission (AUC) and Innovation, Science and Economic Development (ISED).

July 2026

If approved, construction will commence.

December 2026

Facilities completed and operating

Regulatory Process

Alberta's electrical system is regulated by the Alberta Utilities Commission (AUC). The AUC is an agency of the province that ensures the services provided by ATCO and other Alberta utilities take place in a fair and responsible manner and are in the public's interest. Before ATCO can begin construction on a project, the AUC must approve our facility application.

For more information about how you can participate in the approval process required by the AUC, please refer to the enclosed brochure entitled *Participating in the AUC's independent review process to consider facility applications*.

Next Steps

The consultation process for this project is ongoing. Please let us know if you have any questions, concerns or suggestions regarding this Project. You can provide feedback and share other information by contacting us (toll free) at **1-855-420-5775** or by email at consultation@atcoelectric.com.

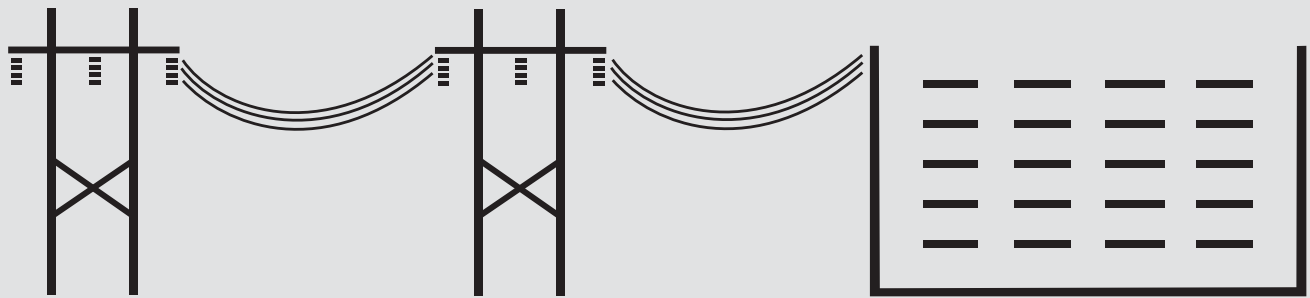
To learn more about the Kiwetinohk Black Bear Transmission Project, you can visit the project website at

<https://electric.atco.com/en-ca/community/projects/armistead-substation-transmission-project.html>

April 2025

ARMISTEAD SUBSTATION TRANSMISSION PROJECT

The technical details of facilities associated with the Armistead Substation Transmission Project are described in this fact sheet. Designs may vary as plans are finalized



Existing 240 kV Transmission Line 9L74

The Project will require alterations to the existing single-circuit 240 kV transmission line 9L74.

New 240 kV Transmission Line 9LA74

Approximately 410 m of new single circuit 240 kV transmission line (to be called 9LA74) will connect to the proposed Armistead 2102S substation.

New Armistead 2102S Substation

The Project will require a new substation, located within the Municipality of Wood Buffalo, Alberta in NE 18-91-12 W4M.

THE DETAILS

If approved, alterations will occur at existing transmission line 9L74 to accommodate the T-tap configuration to connect to proposed transmission line 9LA74.

A Temporary bypass is required to minimize service interruptions to connected customers while construction activities are underway.

The bypass will consist of 7 new temporary structures along 9L74, spanning the proposed 9LA74 tap location.

THE DETAILS

If approved, the new 9LA74 transmission line will consist of:

- Three (3) bundled conductor wires
- Two (2) overhead shield wires
- Wood pole H-frame structures

Transmission line 9LA74 will connect the proposed Armistead 2102S substation to the electrical grid.

THE DETAILS

If approved, the work will include the installation of the following new equipment (please refer to the back of this fact sheet for definitions):

- Two (2) 240 kV transformers
- Two (2) 240 kV circuit breakers with associated disconnect switches
- Control building
- Telecommunication tower 58.6 m

The equipment described above will be installed within the proposed Armistead 2102S substation site (please see enclosed site layout diagram).

What It Will Look Like

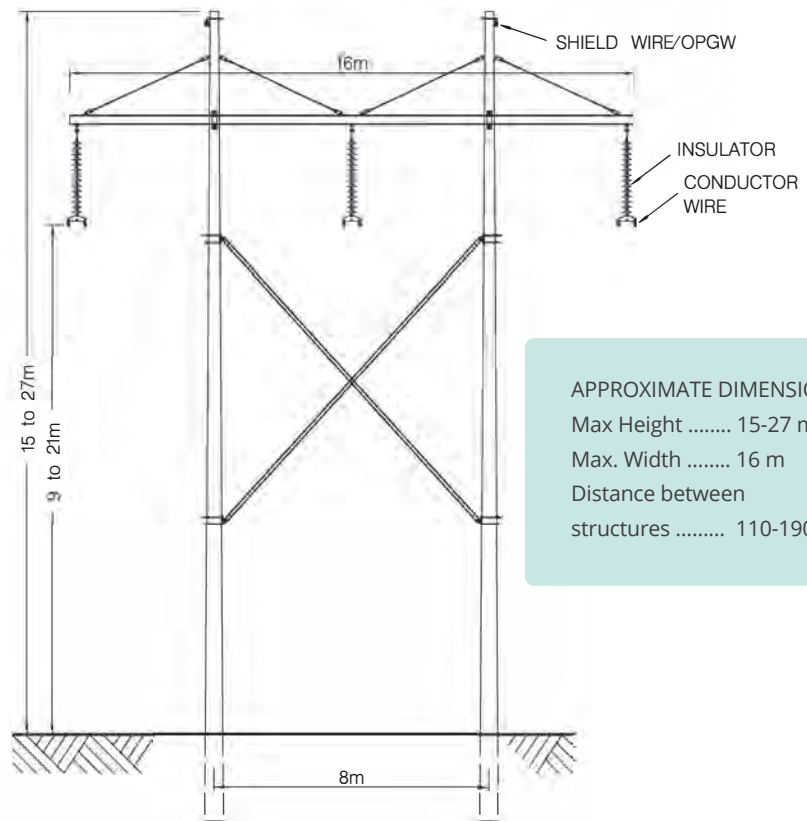
If approved by the AUC, the new 240 kV transmission line (to be called 9LA74) will be built with wood H-frame structures similar to the one shown here.

Structures will be single-circuit. This means they will have three conductor wires strung across them, plus two overhead shield wires at the top of the structure. The typical distance between structures will be approximately 110-190 metres (m).

Non-typical structures may be taller in height or have wider bases.

Guy wires and anchors may be required where the line ends, bends, goes around corners or avoids obstacles. In all cases, minimum clearance will meet or exceed provincial safety regulations.

Note: Details may change as the project develops and designs are finalized.



APPROXIMATE DIMENSIONS

Max Height 15-27 m

Max. Width 16 m

Distance between
structures 110-190 m

Typical right-of-way for this project – 34 metres

Rights-of-way are cleared of trees, bush and debris to allow access for construction and ongoing maintenance.

Definitions

Capacitor: A device that stores electrical energy by accumulating electrical charges on two closely spaced surfaces that are insulated from each other.

Circuit: A circuit is a group of wires electricity flows through. ATCO's transmission lines can be single or double circuit. A single-circuit line has three wires and a double-circuit line has six. A transmission line may also have one or two shield wires on the top of the structures to protect the line from lightning.

Circuit Breaker: A circuit breaker is an automatic switch that is designed to protect an electrical circuit from overloading by shutting off the flow of electricity.

Consultation: A consultation is a meeting where advice, information and views are exchanged.

Kilovolt (kV): A kilovolt is equal to one thousand volts. This unit of measurement is most commonly used when describing transmission and distribution lines.

Distribution and transmission lines in Alberta carry between 4-kV (4,000 volts) and 500-kV (500,000 volts).

Right-of-way: A right-of-way is the use of a strip of land acquired for the construction and operation of a transmission line. The term right-of-way is also used to refer to the physical space a transmission line encompasses including areas on either side of the line.

Transformer: An electrical device that increases or decreases the voltage of electricity in an electrical substation.



10035-105 Street, Edmonton, Alberta, T5J 1C8

SHAPE THE CONVERSATION

ARMISTEAD SUBSTATION TRANSMISSION PROJECT REPLY FORM

CONTACT INFORMATION

Date (DD/MM/YYYY): _____

First Name: _____

Last Name: _____

Company/Organization Name (if applicable):

Mailing Address: _____

Home Phone: _____

Cell Phone: _____

Business Phone: _____

Email: _____

Please help us identify new contacts

You were contacted about this project because ATCO identified you or your company/organization as having a land interest in the vicinity of the project. Is there anyone else associated with your property, such as other owners, renters or occupants, who we should also contact? If so, please provide the name(s), contact information and their land interest.

☐ I would like to receive all future correspondence about this project by Email (If this is your preference, please check the box)

AN IMPORTANT MESSAGE ABOUT PRIVACY: *The information on this form is being collected to identify concerns with proposed changes to and/or the siting of power transmission facilities, and to comply with the Alberta Utilities Commission (AUC) rules regarding the submission of transmission facilities applications. This information may be provided to electric facility owners, Alberta's Land & Property Rights Tribunal, and the Alberta Electric System Operator. Your comments and personal information may also be publicly accessible through the AUC website, should it be submitted to the AUC as part of a transmission facility application – subject to Alberta's Freedom of Information and Protection of Privacy Act. **If you wish to keep your information confidential, you must make a request to the AUC (403-592-4376).** If you have questions or concerns about your information or how it may be used or disclosed as part of this process, please contact us (see contact information below).*

Please let us know by checking a box below if either statement applies to you:

☐ I do not have concerns with the Project based on the information provided

☐ I have concerns with the Project based on the information provided

Please share any comments or concerns that you have about the Project:

ATCO

SHAPE the conversation

April 2025

ARMISTEAD SUBSTATION TELECOMMUNICATION TOWER

This newsletter provides you with information about electric transmission facilities being proposed in your area. This package provides important project information and outlines our public consultation process. We invite any comments, questions, or concerns you may have.

ATCO Electric Ltd. (ATCO) is proposing to construct a new telecommunication tower within the proposed Armistead 2102S substation site located in NE 18-91-12 W4M (please see enclosed Proposed Site Layout diagram). The proposed telecommunication tower is needed to maintain the safety and reliability of the electric system in the area.

ATCO is seeking your input on how this project may affect you. Once feedback has been considered and the project details are finalized, we will submit applications to Innovation, Science and Economic Development Canada (ISED) and other agencies as required for the construction and operation of the proposed tower.

Tower Details

The new telecommunication tower will be a self-supported lattice tower that will be approximately 59 metres (m) tall, including two (2) antennas and installation of related electrical and telecommunication equipment. The tower will only support ATCO.

ATCO evaluated the Project area for opportunities to share or use existing infrastructure; however, there are no suitable, pre-existing structures or towers within the area. For this reason, a new telecommunication structure is proposed for this Project.

Impacts

No significant environmental effects are expected. Neighbouring landholders may notice some increased traffic and noise during construction. An environmental assessment under the *Canadian Environmental Assessment Act* is not required for this project.

Design Requirements

The radio installation described in this notification package will be installed and operated on an ongoing basis so as to comply with Health Canada's Safety Code 6, as may be amended from time to time, for the protection of the general public, including any combined effects of nearby installations within the local radio environment. Design and construction will meet applicable standards, including Transport Canada's aeronautical safety requirements, and will follow best engineering practices including structural integrity.

Regulatory Process

Alberta's electrical system is regulated by the Alberta Utilities Commission (AUC). The AUC is an agency of the province that ensures the services provided by ATCO and other Alberta utilities take place in a fair and responsible manner and are in the public's interest. Before ATCO can begin construction on a project, the AUC must approve our facility application.

For more information about how you can participate in the approval process required by the AUC, please refer to the enclosed brochure entitled *Participating in the AUC's independent review process to consider facility applications*.

An additional approval process is required by ISED and proponents must follow the appropriate municipal processes, where available. ATCO's consultation process will meet the requirements of the Municipality of Wood Buffalo, as well as ISED's default public consultation process.

For general information relating to antenna systems and public consultation, please contact ISED or consult the Spectrum Management and Telecommunication website at www.ic.gc.ca/spectrum.

CONTACT INFORMATION

Your comments and concerns are important to us. Please contact us if you would like to learn more about this project or if you would like to share information with us.

- Call us toll free at: **1-855-420-5775**
- or Contact the planner directly:

John Naughton

Land Planning
ATCO Electric Ltd.
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Email: consultation@atcoelectric.com
Website: www.electric.atco.com

Project Website: <https://electric.atco.com/en-ca/community/projects/armistead-substation-transmission-project.html>

ATCO

Proposed Timeline

April 2025

Notification to landholders, agencies and other interested parties.

April/May 2025

Consultation with landholders, agencies and other interested parties will commence.

May 30, 2025

Deadline for submission of public comment for the proposed telecommunication tower (see telecommunication tower newsletter for further details).

September 2025

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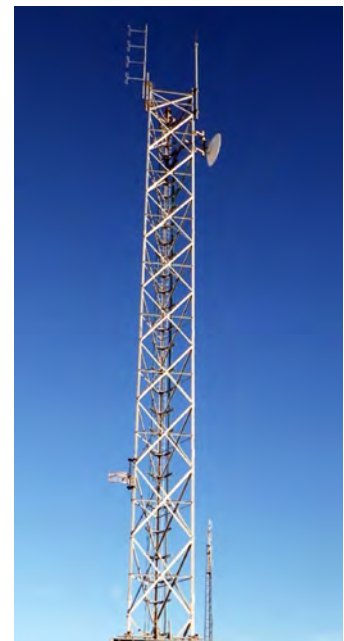
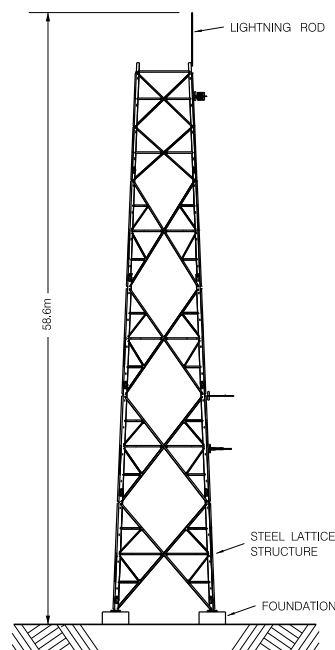
July 2026

If approved, construction will commence.

December 2026

Facilities completed and operating

Proposed Telecommunication Tower Diagram and Image



Designs may vary as plans are finalized.

Next Steps

The consultation process for this project is ongoing. Please let us know if you have questions, concerns or suggestions regarding the project. You can provide feedback and share other information using the enclosed reply form and postage paid envelope, by contacting us (toll free) at **1-855-420-5775** or by emailing us at consultation@atcoelectric.com.

To participate in the ISED approval process, please call ISED toll free at **1-800-461-2646**. You can also contact them by email at ic.spectrum@edmonton-edmontonspectre.ic@canada.ca.

To contact the Municipality of Wood Buffalo for their consultation requirements, please call **1-780-743-7000**.



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ARMISTEAD SUBSTATION TELECOMMUNICATION TOWER REPLY FORM

CONTACT INFORMATION

Date (DD/MM/YYYY): _____

First Name: _____

Last Name: _____

Company/Organization Name (if applicable):

Mailing Address: _____

Home Phone: _____

Cell Phone: _____

Business Phone: _____

Email: _____

Please help us identify new contacts

You were contacted about this project because ATCO identified you or your company/organization as having a land interest in the vicinity of the project. Is there anyone else associated with your property, such as other owners, renters or occupants, who we should also contact? If so, please provide the name(s), contact information and their land interest.

☐ I would like to receive all future correspondence about this project by Email (If this is your preference, please check the box)

AN IMPORTANT MESSAGE ABOUT PRIVACY: *The information on this form is being collected to identify concerns with proposed changes to and/or the siting of power transmission facilities, and to comply with the Alberta Utilities Commission (AUC) rules regarding the submission of transmission facilities applications. This information may be provided to electric facility owners, Alberta's Land & Property Rights Tribunal, and the Alberta Electric System Operator. Your comments and personal information may also be publicly accessible through the AUC website, should it be submitted to the AUC as part of a transmission facility application – subject to Alberta's Freedom of Information and Protection of Privacy Act. **If you wish to keep your information confidential, you must make a request to the AUC (403-592-4376).** If you have questions or concerns about your information or how it may be used or disclosed as part of this process, please contact us (see contact information below).*

Please let us know by checking a box below if either statement applies to you:

☐ I do not have concerns with the Project based on the information provided

☐ I have concerns with the Project based on the information provided

Please share any comments or concerns that you have about the Project:

ATCO

FAÇONNER le dialogue

Avril 2025

TOUR DE TÉLÉCOMMUNICATION DU POSTE ÉLECTRIQUE D'ARMISTEAD

Cette infolettre a pour but de vous renseigner sur les installations de transport d'électricité qui ont été proposées dans votre région. Ce dossier fournit des renseignements importants sur le projet et décrit notre processus de consultation publique. Nous vous invitons à nous faire part de vos commentaires, questions ou préoccupations.

ATCO Electric Ltd. (ATCO) propose de construire une nouvelle tour de télécommunication au sein du poste électrique Armistead 2102S proposé situé en NE 18-91-12 W4M (veuillez consulter le schéma Proposition d'aménagement du site ci-joint). La tour de télécommunication proposée est nécessaire au maintien de la sécurité et de la stabilité du système électrique dans la zone.

ATCO souhaite connaître vos commentaires concernant l'impact de ce projet sur vous. Une fois les commentaires pris en compte et les détails du projet finalisés, nous allons soumettre des demandes à Innovation, Science et Développement économique Canada (ISDE) et à d'autres agences, au besoin, pour la construction et l'exploitation de la tour proposée.

Les détails de la tour

La nouvelle tour de télécommunication sera un pylône à treillis autoportant d'environ 59 mètres (m) de haut comprenant quatre (2) antennes ainsi que l'installation des équipements électriques et de télécommunication connexes. La tour prendra en charge uniquement les équipements d'ATCO.

ATCO a évalué la zone du projet pour voir s'il était possible de partager ou d'utiliser l'infrastructure existante; cependant, aucune structure ou tour préexistante appropriée ne se trouve dans la zone. C'est pourquoi nous proposons une nouvelle structure de télécommunication pour ce projet.

L'impact

Il ne devrait y avoir aucun effet significatif sur l'environnement. Les propriétaires fonciers voisins pourraient constater une augmentation du trafic et du bruit pendant la construction. Ce projet ne nécessite pas d'évaluation environnementale au titre de la Loi canadienne sur les évaluations environnementales.

Les caractéristiques exigées

L'installation radio décrite dans le présent dossier de déclaration sera installée et exploitée en permanence, de manière à respecter le Code de sécurité 6 de Santé Canada, qui peut être modifié de temps à autre, pour la protection du grand public, y compris l'effet combiné des installations voisines dans l'environnement radioélectrique local. La conception et la construction seront conformes aux normes applicables, notamment aux exigences de sécurité aéronautique du ministère des Transports, et suivront les meilleures pratiques d'ingénierie, y compris en matière d'intégrité structurale.

Processus réglementaire

Le système électrique de l'Alberta est régulé par l'Alberta Utilities Commission (AUC). L'Alberta Utilities Commission (AUC) est une agence de la province qui veille à ce que les services d'ATCO et d'autres fournisseurs de l'Alberta soient fournis de manière juste et responsable, et qu'ils soient dans l'intérêt général. Avant qu'ATCO puisse commencer la construction d'un projet, l'AUC doit approuver notre demande d'installation.

Pour obtenir plus d'informations sur les manières dont vous pouvez participer au processus d'approbation requis par l'AUC, veuillez vous reporter à la brochure ci-jointe intitulée *Participer au processus d'examen indépendant de l'AUC pour étudier les demandes d'installation*.

Un processus d'approbation supplémentaire est requis par ISDE et les auteurs de la demande doivent suivre les procédures municipales appropriées, le cas échéant. Le processus de consultation d'ATCO répondra aux exigences de la municipalité de Wood Buffalo, ainsi que le processus de consultation publique par défaut d'ISDE.

Pour des renseignements généraux concernant les systèmes d'antennes et la consultation publique, veuillez contacter ISDE ou consulter le site Web de la gestion du spectre et des télécommunications à <https://ised-isde.canada.ca/site/gestion-spectre-telecommunications/fr?>.

COORDONNÉES

Nous tenons à connaître vos commentaires et vos préoccupations. Veuillez nous contacter si vous souhaitez en savoir plus sur ce projet ou si vous souhaitez partager des informations avec nous.

- Appelez-nous sans frais au :
1-855-420-5775
- Ou contactez directement le planificateur :

John Naughton

Plans fonciers
ATCO Electric Ltd.
10035 - 105 Street
Edmonton, AB T5J 1C8

Courriel : consultation@atcoelectric.com
Site Web : www.electric.atco.com

Site Web du projet :
<https://electric.atco.com/en-ca/community/projects/armistead-substation-transmission-project.html>

ATCO

Échéancier proposé

Avril 2025

Avis aux propriétaires fonciers, aux agences et aux autres parties intéressées.

Avril/mai 2025

Début de la consultation avec les propriétaires fonciers, les agences et les autres parties intéressées.

30 mai 2025

Date limite pour la soumission des commentaires du public sur la tour de télécommunication proposée (voir l'infolettre sur la tour de télécommunication pour plus de détails)

Septembre 2025

Soumission des demandes auprès de l'Alberta Utilities Commission (AUC) et Innovation, Sciences et Développement économique (ISDE).

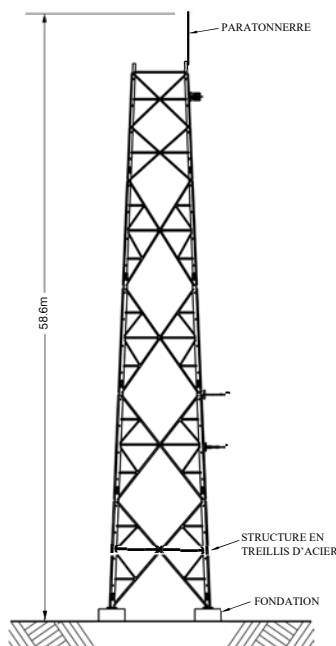
Juillet 2026

Si elle est approuvée, la construction débutera.

Décembre 2026

Les installations achevées et opérationnelles.

Schéma et image de la tour de télécommunication proposée



La conception peut être amenée à changer selon la finalisation des plans

Les prochaines étapes

Le processus de consultation de ce projet est en cours. Veuillez nous faire part de toute question, préoccupation ou suggestion concernant le projet. Vous pouvez nous faire part de vos commentaires et partager d'autres informations en utilisant le formulaire de réponse et l'enveloppe préaffranchie ci-joints, en nous contactant (sans frais) au **1-855-420-5775** ou en nous envoyant un courriel à consultation@atcoelectric.com.

Pour participer à la procédure d'approbation d'ISDE, veuillez appeler ISDE sans frais au **1-800-461-2646**. Vous pouvez également les contacter par courriel à ic.spectrum@edmonton-edmontonspectre.ic@canada.ca.

Pour connaître les exigences de la municipalité de Wood Buffalo en matière de consultation, veuillez téléphoner au **1-780-743-7000**.



10035-105 Street, Edmonton, Alberta, T5J 1C8

FAÇONNER LE DIALOGUE

TOUR DE TÉLÉCOMMUNICATION DU POSTE ÉLECTRIQUE D'ARMISTEAD

FORMULAIRE DE RÉPONSE

COORDONNÉES

Date (DD/MM/YYYY): _____

Prénom: _____

Nom de famille: _____

Nom de la compagnie/de l'organisation (le cas échéant): _____

Adresse postale: _____

Téléphone domicile: _____

Téléphone cellulaire: _____

Téléphone d'affaires: _____

Courriel: _____

Aidez-nous à identifier de nouveaux contacts

On vous a contacté au sujet de ce projet parce qu'ATCO vous a identifié, vous ou votre entreprise/organisation, comme ayant un intérêt foncier aux alentours du projet. Y a-t-il d'autres personnes associées à votre propriété, par exemple d'autres propriétaires, locataires ou occupants, que nous devrions également contacter? Dans ce cas, veuillez indiquer le(s) nom(s), les coordonnées et l'intérêt foncier qu'il(s) représente(nt).

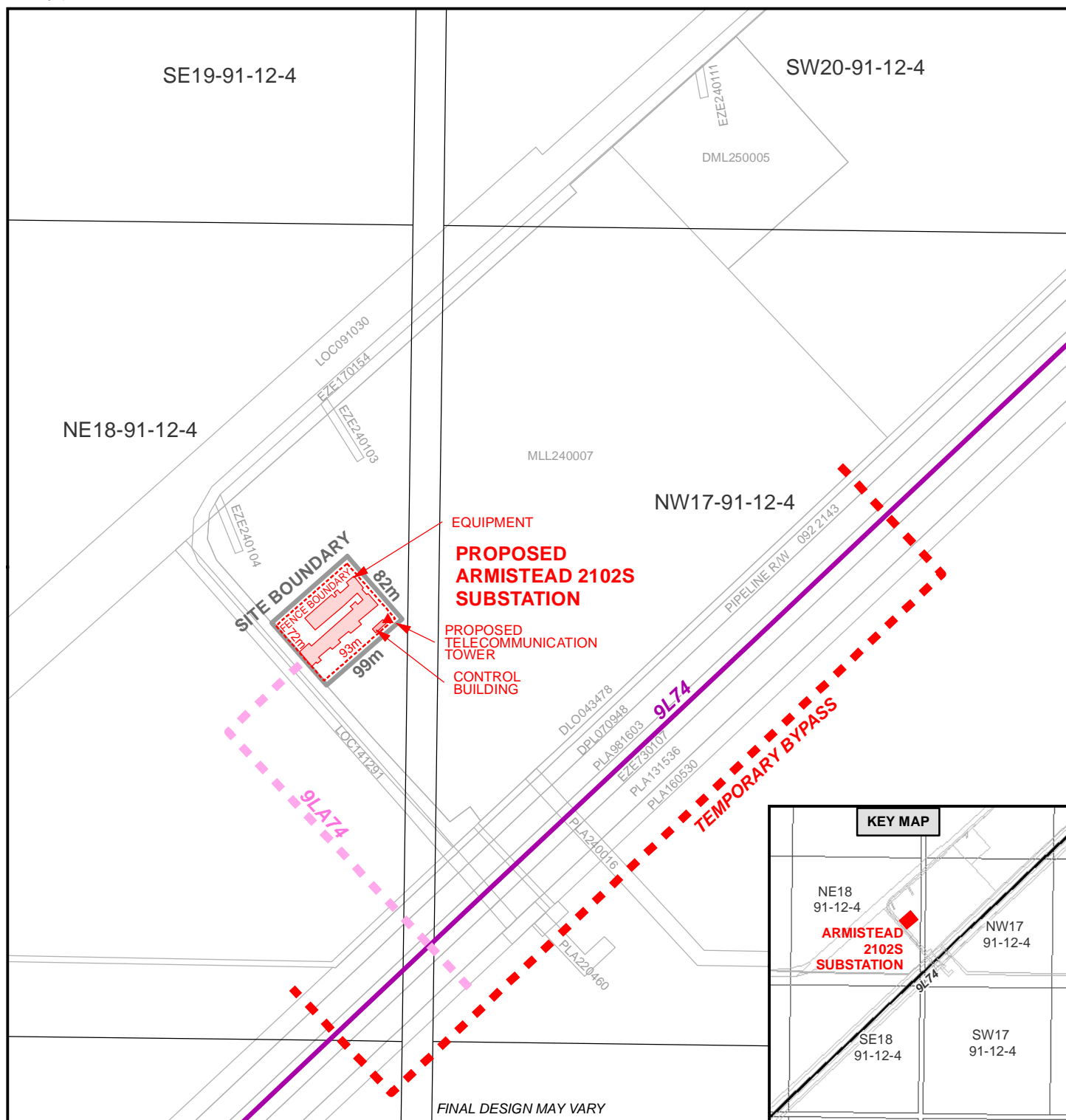
☐ Je souhaite recevoir toute correspondance ultérieure concernant ce projet par courriel (Si c'est ce que vous préférez, veuillez cocher la case correspondante)

UN MESSAGE IMPORTANT SUR LA VIE PRIVÉE : Les renseignements inscrits sur ce formulaire sont collectés dans le but de cerner les préoccupations relatives aux changements proposés et/ou à l'emplacement des installations de transport d'électricité, et de se conformer aux règles de l'Alberta Utilities Commission (AUC) relatives à la soumission des demandes d'installations de transport d'électricité. Ces renseignements peuvent être communiqués aux propriétaires d'installations électriques, au Tribunal des droits fonciers et de propriété de l'Alberta et à l'opérateur du réseau électrique de l'Alberta. Vos commentaires et renseignements personnels peuvent également être accessibles au public via le site Web de l'AUC, s'ils sont soumis à l'AUC dans le cadre d'une demande d'installation de transmission — en vertu de la Loi sur l'accès à l'information et la protection de la vie privée de l'Alberta. **Si vous souhaitez que vos renseignements demeurent confidentiels, vous devez en faire la demande auprès de l'AUC (403-592-4376).** Si vous avez des questions ou des préoccupations concernant vos renseignements ou la manière dont ils peuvent être utilisés ou divulgués dans le cadre de ce processus, veuillez nous contacter (voir les coordonnées ci-dessous).

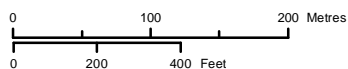
Veuillez nous faire savoir, en cochant une case ci-dessous, si l'une ou l'autre de ces affirmations s'applique à vous:

- ☐ Compte tenu des informations fournies, je n'ai pas d'inquiétudes concernant le projet
- ☐ Compte tenu des informations fournies, j'ai certaines inquiétudes concernant le projet

Veuillez nous faire part de tout commentaire ou de toute préoccupation concernant le projet:



- ▲ Proposed Telecommunication Tower
- Proposed 240 kV Transmission Line
- Proposed Temporary Bypass
- Proposed Fence
- Proposed Equipment / Control Building
- Proposed Site Boundary
- Existing 240 kV Transmission Line



NOTES:
- Only facilities in the vicinity of the project are shown.

ATCO Energy Systems

Armistead Substation Transmission Project

PROPOSED SITE LAYOUT

CREDIT NOTES
Alberta Data Partnership

This map is the property of ATCO. This map is not intended to be used in place of Alberta One Call.
Always practice extreme caution when near power lines!

April 2025

RS-2102S - N1 - 02



Participating in the AUC's independent review process to consider facility applications

www.auc.ab.ca

The AUC regulatory review process to consider facility applications for utility projects



The AUC uses an established process to review social, economic and environmental impacts of facility projects to decide if approval of a project is in the public interest.

The AUC considers applications requesting approval of the need for transmission development and facilities applications seeking approval to construct, operate, alter and decommission electric and natural gas facilities. Applications, as specified in AUC Rule 007, are required for:

- The need for transmission upgrades.
- The route and location of transmission facilities.
- The siting of power plants.
- The construction of a battery storage system.
- The designation of an industrial system.
- The need for and siting of natural gas utility pipelines.

Sometimes the Alberta Electric System Operator's needs identification document application is considered together with a facility application in a single proceeding; sometimes separate proceedings are held to consider each application.

Application review process



- Step 1: Public consultation prior to applying to the AUC
- Step 2: Application filed to the AUC
- Step 3: Public notice
- Step 4: Public submissions to the AUC
- Step 5: Consultation and negotiation
- Step 6: The public hearing process
- Step 7: The decision
- Step 8: Opportunity to appeal
- Step 9: Construction, operation and compliance

Application review process

Step 1: Public consultation prior to applying to the AUC



An applicant seeking approval of a proposed utility development project is required to engage in a participant involvement program prior to filing an application with the AUC. The public involvement program involves consultation with persons whose rights may be directly and adversely affected by the proposed project so that concerns may be raised, addressed and, if possible, resolved.

The application guidelines and requirements for facility applications can be found in AUC Rule 007: *Applications for Power Plants, Substations, Transmission Lines, Industrial System Designations, Hydro Developments and Gas Utility Pipelines*.

Potentially affected parties are strongly encouraged to participate in the public consultation, also called a participant involvement program. Early, active and ongoing discussions with an applicant may lead to greater influence on project planning and what is submitted to the AUC for approval.

Step 2: Application filed to the AUC



When the applicant has concluded its consultation with potentially affected parties and the participant involvement requirements have been completed, the applicant files its application through the AUC online public filing system, called the eFiling System.

AUC staff members review each application submitted to verify that all of the application requirements in Rule 007 have been met before an application is deemed complete. If all of the required information is not provided, the application may be closed or missing information will be requested of the applicant. Rule 007 specifies, among other requirements, that applicants must submit the results of a public involvement program in its application that includes information about how applicants consulted and notified stakeholders and Indigenous groups and identifies any unresolved objections and concerns about the project.

Step 3: Public notice



When the AUC receives an application it is assigned a proceeding number and the AUC generally mails a notice of application directly to those who live, operate a business or occupy land in the project area who may be directly and adversely affected if the AUC approves the application. The notice initiates the opportunity for formal intervention in the proceeding to consider an application or applications. The notice of application will also set out important dates and information about where to find the application and other items being considered. The five-digit eFiling System proceeding number in the notice is the most efficient way to find information about a proposed project through the AUC website.

Step 4: Public submissions to the AUC



Prior to the submission deadline provided in the notice, formal submissions of outstanding concerns and unresolved objections about a project may be submitted to the AUC. To submit a concern, participants will need to register to participate in the proceeding, which involves providing a brief written statement called a statement of intent to participate. Submissions are filed electronically through the eFiling System. The information filed becomes part of the public record and is an important part of the process to ensure that outstanding concerns are heard, understood and considered.

The AUC uses the information gathered through statement of intent to participate submissions to decide whether to hold a hearing on the application(s). The AUC must hold a hearing if a concerned person can demonstrate that they have rights that may be directly or adversely affected by the AUC's decision on the application. Such a person is said to have standing before the AUC. If the AUC decides to hold a hearing, the AUC will provide further opportunities for participants with standing to ask the applicant questions on the public record and present their position on the application either in writing or in person. Hearings may

be held in writing, in person or virtually through web-conference software.

AUC eFiling System

The eFiling System is the online tool that the AUC uses to manage applications and submissions in its proceeding-based review. The eFiling System gives access to all public documents associated with an application. The system is also used to submit your concerns and provide input to the AUC and can be used to monitor related proceeding filings. Those who do not have access to the internet can send submissions, evidence and other material by mail and the AUC will upload the submission on their behalf.

Step 5: Consultation and negotiation (if applicable)



The AUC supports efforts to reach a mutually agreeable outcome among the applicant and affected parties. The AUC encourages the applicant and those who have filed a statement of intent to participate to continue to attempt to resolve any outstanding issues. If all concerns can be satisfactorily resolved this may eliminate the need for a formal hearing. However, if there continues to be unresolved issues, those matters will typically be addressed in an AUC hearing.

Step 6: The public hearing process



The AUC will issue a notice of hearing if a person with standing continues to have legitimate unresolved concerns with the application. The notice of hearing will provide a hearing date and location, or specify if the hearing will be held in writing or virtually. When the AUC holds a public hearing, registered parties are given the opportunity to express their views directly to a panel of Commission members. Any member of the public can listen to an in-person or virtual oral hearing. An oral public hearing operates similar to a court proceeding.

www.auc.ab.ca

Participants in a hearing can either represent themselves or be represented by a lawyer. In addition, participants may hire experts to assist in preparing and presenting evidence to support their position.

Cost assistance



A person determined by the AUC to have standing or a local intervener can apply for reimbursement of reasonable costs. Those who hire a lawyer or technical experts must be aware that while reimbursement for the costs of legal and technical assistance is available under AUC Rule 009: *Rules on Local Intervener Costs*, recovery of costs is subject to the AUC's assessment of the value of the contribution provided by the lawyer and technical experts in assisting the AUC to understand the specifics of the case. It is also subject to the AUC's published scale of costs.

People with similar interests and positions are expected and encouraged to work together to ensure that expenditures for legal or technical assistance are minimized and costs are not duplicated.

Step 7: The decision



The AUC's goal is to issue its written decision no more than 90 days after the close of record. The AUC can approve, or deny an application and can also make its approval conditional upon terms or conditions. AUC decisions are publicly available through the AUC website at www.auc.ab.ca.

Step 8: Opportunity to appeal



An applicant or participant in a proceeding may formally ask the Court of Appeal of Alberta for permission to appeal an AUC decision. An application for permission to appeal must be filed within 30 days from the date the decision is issued.

An applicant or participant in a proceeding can also ask the AUC to review its decision. An application to review a decision must be filed within 30 days from the date the decision is issued and satisfy the limited grounds described in AUC Rule 016: *Review of Commission Decisions*.

Step 9: Construction, operation and compliance



An applicant that receives approval to build and operate a facility from the AUC is expected to follow through on any commitments it has made to parties and must adhere to any conditions that were set out in that approval. If concerns about compliance with approval conditions and post-construction operations cannot be resolved with the applicant, they can be brought to the AUC's attention for consideration. The AUC has significant compliance and enforcement powers for all approved applications. Additional information is available on the AUC website.

The Alberta Utilities Commission is an independent, quasi-judicial agency of the government of Alberta that ensures the delivery of Alberta's utility services take place in a manner that is fair, responsible and in the public interest.

We are committed to ensuring that Albertans whose rights may be directly and adversely affected by a utility development project are informed of the application and have the opportunity to have their concerns heard, understood and considered.



Contact us

Phone: 310-4AUC
1-833-511-4282 (outside Alberta)
info@auc.ab.ca
www.auc.ab.ca

Eau Claire Tower
1400, 600 Third Avenue S.W.
Calgary, Alberta T2P 0G5

Updated March 2024

Need for Transmission Enhancements in the Fort McMurray area

ATCO Electric Ltd. (ATCO) has applied to the AESO for transmission system access to reliably serve growing demand for electricity in the Fort McMurray area. ATCO's request can be met by the following solution:

PROPOSED SOLUTION

- Add a substation, designated as Armistead 2102S, including two 240/25 kilovolt (kV) transformers, and two 240 kV circuit breakers.
- Add one 240 kV transmission line to connect the proposed Armistead 2102S substation to the existing 240 kV transmission line 9L74 in a T-tap configuration.
- Add or modify associated equipment as required for the above transmission developments

NEXT STEPS

- In late 2025, the AESO may consider the need for this project for approval under section 501.3 of the ISO rules, *Abbreviated Needs Approval Process* (ANAP Rule), or apply to the Alberta Utilities Commission (AUC) for approval of the need.
- The AESO will notify stakeholders via the AESO's website at www.aeso.ca/grid/transmission-projects prior to the project being considered under the ANAP Rule or when filing a needs identification document (NID) application with 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.
- Can approve eligible projects through the ANAP Rule and for non-eligible projects, the AESO will prepare and submit a NID to the AUC for approval.

ATCO

- Is the transmission facility owner in Fort McMurray area.
- Is responsible for detailed siting and routing, constructing, operating, and maintaining the transmission facilities.
- Is regulated by the AUC and must apply to the AUC for approval of its transmission facilities applications.

WHO IS THE AESO?

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

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.

CONTACT US

Alberta Electric System Operator

AESO Stakeholder Relations
stakeholder.relations@aeso.ca
 1-888-866-2959

3000, 240-4th Avenue SW
 Calgary, AB T2P 4H4
 Phone: 403-539-2450

www.aeso.ca | [@theaeso](https://x.com/theaeso)

Attachment 4 – Stage 1 Early Rate Payer Engagement Letter and Summary (November 2023)

Thursday, November 30, 2023

[Rate-Payer Name]
[Rate Payer Email Address]

Attention: [Contact Name]

Dear [Contact Name]:

Re: P2741 Great Plains Load Rate-Payer Involvement Summary and Comment Matrix

Please find attached for your review and comment, the Summary and Comment Matrix for the above noted Project. The AESO is seeking feedback from Rate-Payer Groups with respect to the proposed six Transmission Alternative(s) considered and the proposed Preferred Alternative 1(A).

Feedback will be accepted over a two-week period as indicated in the attached Comment Matrix.

To review the Rate-Payer Involvement Terms of Participation please visit DFO Connection Projects at [AESO.ca](https://www.aeso.ca)

With kind regards,

[Project Manager]

Stage 1 – Summary of Alternatives

P2741 Great Plains Load

Date: Nov. 20, 2023

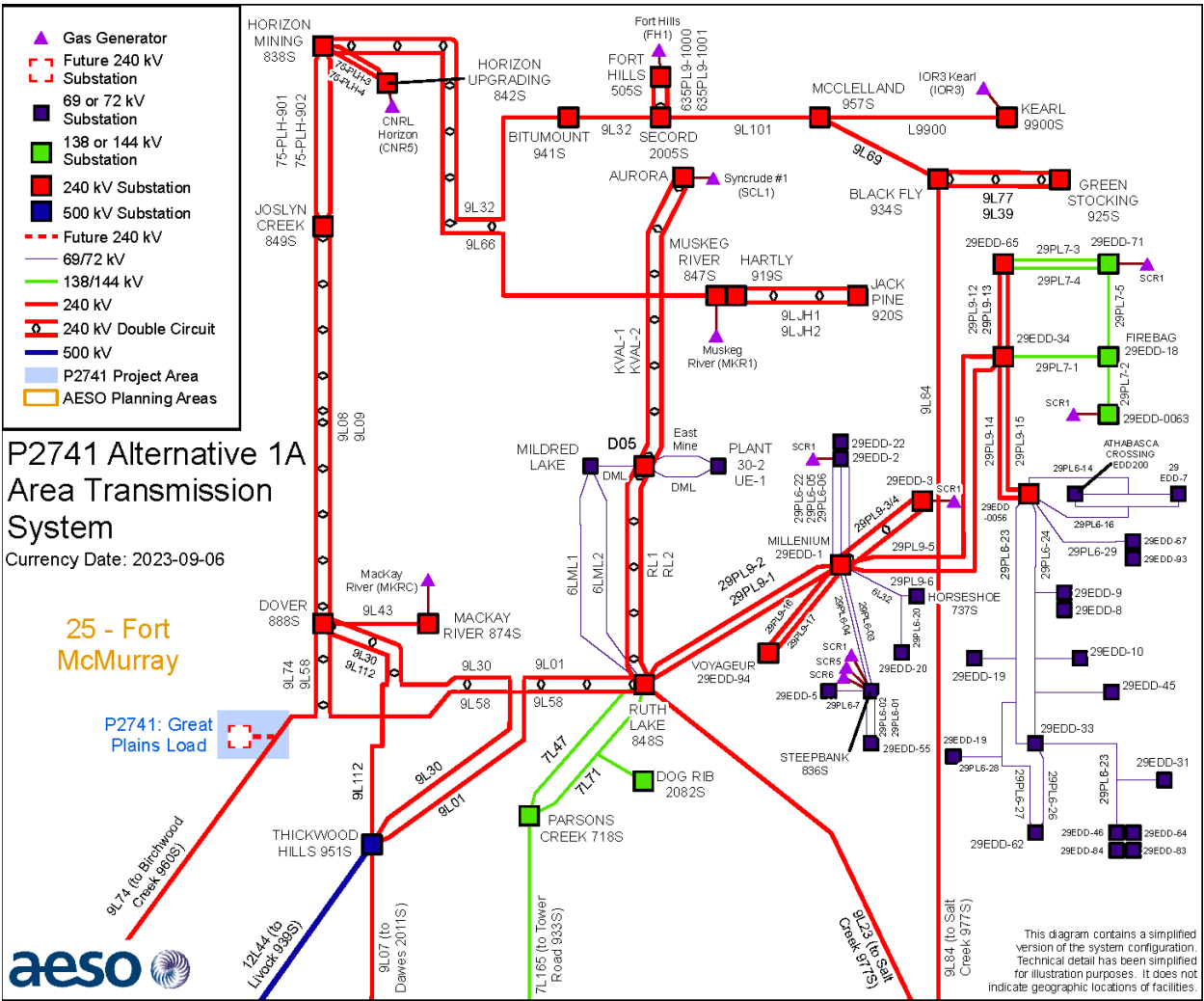
Alternatives Developed

Criteria	Alternative 1		Alternative 2		Alternative 3	Alternative 4
Alternative Name	(A) New 240/25kV Point of Delivery with a T-Tap Connected to 9L74	(B) New 240/25kV Point of Delivery with an In-and-Out Connected to 9L74	(A) New 240/25kV Point of Delivery with a T-Tap Connected to 9L58	(B) New 240/25kV Point of Delivery with an In-and-Out Connected to 9L58	New Point of Delivery with a Radial connection to Dover 888S Substation	Upgrade Dover 888S Substation
Scope*	<ul style="list-style-type: none"> Add a new 240/25kV Point of Delivery (POD) substation, including two 240/25kV transformers and three 25kV feeder breakers; Add one 240 kV circuit, approximately 0.1 km in length, to connect the proposed substation to the existing 240 kV transmission line 9L74 (between Birchwood Creek 960S and Dover 888S substations) using a T-tap configuration; and 	<ul style="list-style-type: none"> Add a new 240/25kV Point of POD substation, including two 240/25kV transformers and three 25kV feeder breakers; Add one 240 kV circuit, approximately 0.1km in length, to connect the proposed substation to the existing 240 kV transmission line 9L74 (between Birchwood Creek 960S and Dover 888S substations) using an in-and-out configuration; and 	<ul style="list-style-type: none"> Add a new 240/25kV POD substation, including two 240/25kV transformers and three 25kV feeder breakers; Add one 240 kV circuit, approximately 4.2 km in length, to connect the proposed substation to the existing 240 kV transmission line 9L58 (between Dover 888S and Ruth Lake 848S substations) using a T-tap configuration; and 	<ul style="list-style-type: none"> Add a new 240/25kV Point of POD substation, including two 240/25kV transformers and three 25kV feeder breakers; Add one 240 kV circuit, approximately 4.2km in length, to connect the proposed substation to the existing 240 kV transmission line 9L58 (between Dover 888S and Ruth Lake 848S substations) using an in-and-out configuration 	<ul style="list-style-type: none"> Add a new 240/25kV Point of Delivery (POD) substation, including two 240/25kV transformers and three 25kV feeder breakers; Add one 240 kV circuit, approximately 20.3 km in length, to connect the proposed substation to the existing Dover 888S substation using a radial configuration 	<ul style="list-style-type: none"> Upgrade the existing Dover 888S substation, including adding two 240/25kV transformers and three 25kV feeder breakers** The customer has requested redundant transformers in the substation for reliability purposes.
To be Studied	Yes	No	No	No	No	No

*All the alternatives might require adding or modifying associated equipment as required for the outlined transmission developments.

** The customer has requested redundant transformers in the substation for reliability purposes.

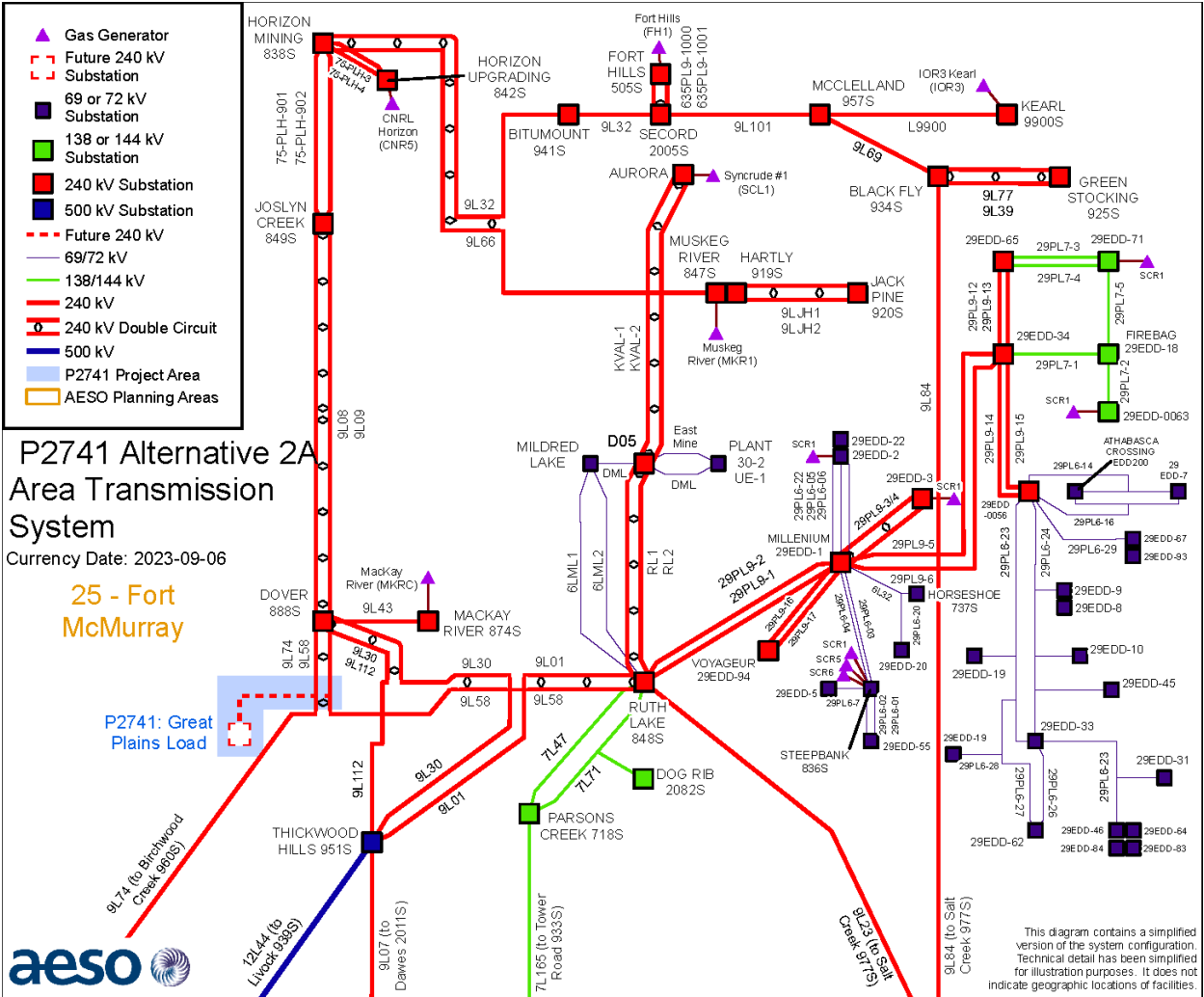
Alternative 1A - Single Line Diagram



aeso 



Alternative 2A - Single Line Diagram



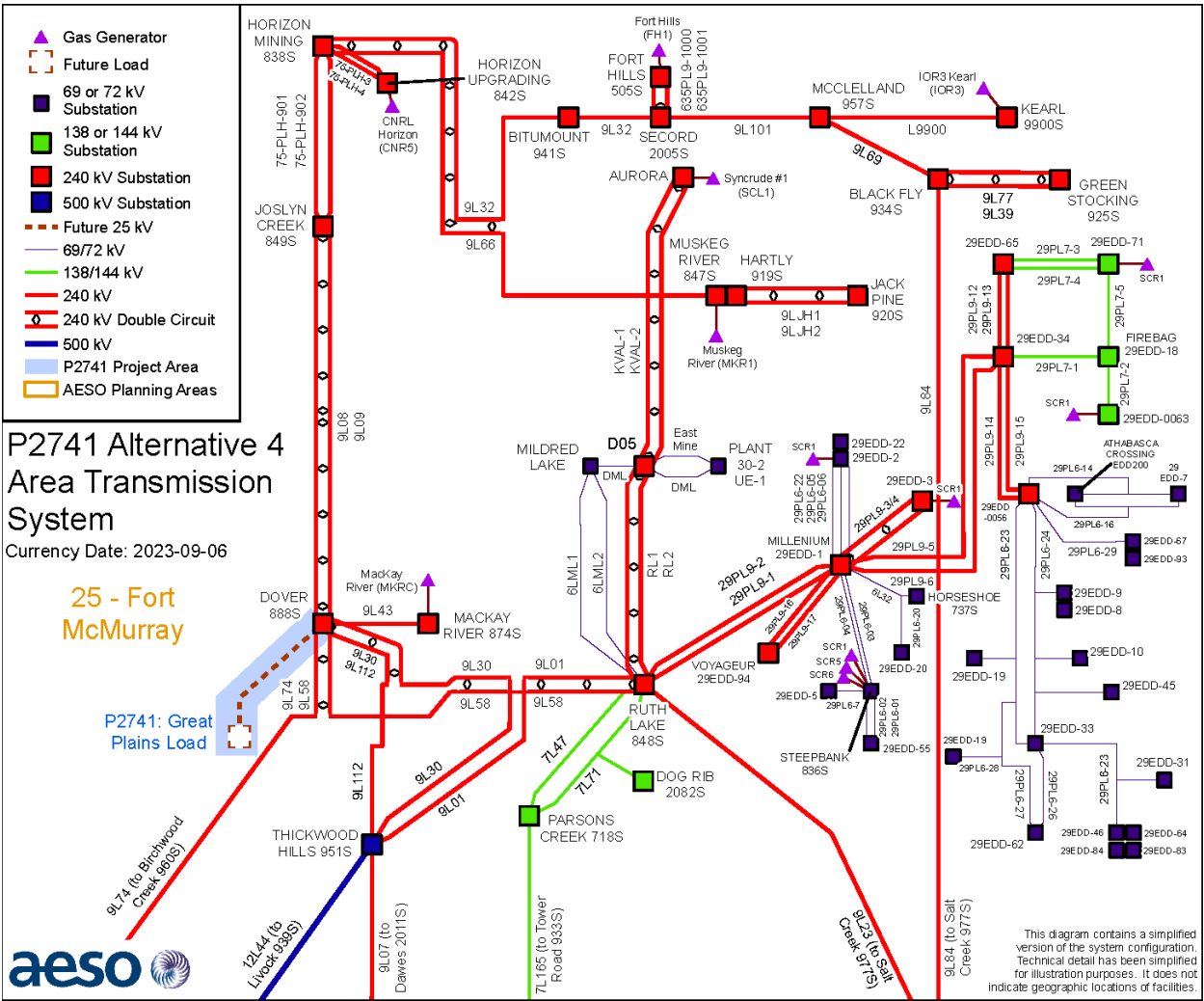
aeso 



aeso 



Alternative 4 - Single Line Diagram



Attachment 5 – Stage 2 Early Rate Payer Engagement Letter and Summary (July 2024)

Tuesday, July 23, 2024

[Rate-Payer Name]
[Rate Payer Email Address]

Dear [Contact Name]:

Re: P2741 Great Plains Load_Rate-Payer Involvement Summary and Comment Matrix

During 2020 and 2021, the AESO hosted a series of workshops around Distribution and Transmission project coordinated planning, involving TFOs, DFOs, and rate-payer interest groups. In response to this engagement, the AESO implemented the Earlier Rate-Payer Group Involvement initiative in our connection process. The goal of early rate-payer group involvement is to increase transparency, improve trust, optimize regulatory efficiency, and develop the most economical and cost-effective solution through timely and meaningful collaboration. To review the Rate-Payer Involvement [Terms of Participation](#) please visit DFO Connection Projects at [AESO.ca](#).

Regarding the Great Plains Load project (The Project), ATCO Electric Ltd. has applied to the AESO for transmission system access to reliably serve new load in the Fort McMurray area. Their request includes a Demand Transmission Service (DTS) contract capacity of 34 MW.

The Project is currently in Stage 2 of the AESO Connection Process. Please find attached the Preferred Alternative to respond to the System Access Service Request. As per the Terms of Participation, we are seeking your feedback. Feedback will be accepted over a two-week period as indicated in the attached Comment Matrix. Please provide your input by August 6, 2024. Note that cost information is not available at this time, however, costs will be provided in Stage 3 to support the needs approval application as required.

If you have any questions, please let me know.

Sincerely,

[Project Manager]

Rate-Payer Group – Comment Matrix

Preferred Alternative Selected for DFO Project P2741



Period of Comment: (To be completed by PM)	7/23/2024	through	8/6/2024		
Comments from: (To be completed by Rate-Payer)	Company Name:	Phone:		Contact:	
Date:	Click or tap to enter a date.			Email:	

Instructions:

1. Please complete the section above as indicated.
2. Please refer to the Summary provided with this Comment Matrix.
3. Please respond to the questions provided below and provide your specific comments.

Stage 2 - The AESO is seeking feedback from Rate-Payer Groups on the proposed Preferred Alternative.

Feedback will be accepted over the two-week period as indicated above. Based on the complexity and feedback the AESO may facilitate a discussion on the transmission alternative(s) considered.

Questions		Stakeholder Comments
1.	Stage 2 – Do you have any comments on the rationale used to select the preferred alternative?	
2.	Do you have any other comments on the alternative not addressed above?	
3.		



Stage 2 –Preferred Alternative P2741 Great Plains Load

Date: Jun. 11, 2024

Selection of the Preferred Alternative

- The selected preferred alternative is noted in the table below

Criteria	Alternative 1-A
Alternative Name	New 240/25kV Point of Delivery (POD) with a T-Tap Connected to 9L74
Scope*	<ul style="list-style-type: none">Add a new 240/25kV POD substation, including two 240/25kV transformers, two 25kV feeder breakers, and two 240 kV circuit breakers.Add one 240 kV circuit, approximately 0.1 km in length, to connect the proposed substation to the existing 240 kV transmission line 9L74 (between Birchwood Creek 960S and Dover 888S substations) using a T-tap configuration.Add or modify associated equipment as required for the outlined transmission developments
Studied	Yes
Technical	Technically acceptable
Selection Decision and Rationale	<p>The alternative is selected as the preferred Alternative. The preferred connection alternative does not adversely affect the performance of the AIES while accommodating the requested DTS. Additionally, compared to Alternatives 1B, 2, and 3, examined in Stage 1, this alternative would involve less transmission development scope and hence, reduced cost. DFO has advised that, due to standard violations observed from modeling the customer load, Alternative 4, examined in Stage 1, is not acceptable. Therefore, Alternative 4 is not selected for further study.</p>

Preferred Alternative - Single Line Diagram

