

APPENDIX C AESO PIP

AI Rothbauer 321S Substation

Needs Identification Document

1.0 Participant Involvement Program (PIP)

From July to December 2015, the AESO conducted a Participant Involvement Program (PIP) to assist in preparing its AI Rothbauer 321S Substation Needs Identification Document (NID). The AESO directed transmission facility owner (TFO), AltaLink Management Ltd. (AltaLink), to assist the AESO in providing notification in accordance with NID14 and Appendix A2 of Alberta Utilities Commission Rule 007: *Applications for Power Plants, Substations, Transmission Lines, Industrial System Designations and Hydro Developments* (Rule 007).¹

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 (collectively, Stakeholders):

- Alberta Environment and Parks, Parks Land and Dispositions
- Alberta Environment and Parks, South Saskatchewan Region, Land Approvals
- Alberta Environment and Parks, South Saskatchewan Regional, Approvals Lethbridge
- Alberta Environment and Parks, South Saskatchewan Region, Resource Management Program
- Alberta Infrastructure, Land Planning
- Alberta Transportation
- Transport Canada
- Canadian Pacific Railway Limited
- City of Medicine Hat, Natural Gas Petroleum Resources
- City of Medicine Hat, Planning and Development
- City of Medicine Hat, Environment Department
- City of Medicine Hat, Electric Utility
- Medicine Hat Police Service

¹ AltaLink executed the AESO's direction as part of its combined PIP activities for the AI Rothbauer 321S substation and the related Southern Alberta Transmission Reinforcement (SATR) amendment facility proposals.

- Nav Canada
- TransCanada Pipelines Limited
- TELUS Communications Company

Other than the Stakeholders specifically listed above, the AESO did not identify any other Stakeholders outside of the notification area.

The AESO used a variety of methods to notify Stakeholders on the need for the Al Rothbauer 321S substation. 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/32310.html> on July 29, 2015 and a notice was published in the AESO Stakeholder Newsletter on July 30, 2015. 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 AltaLink's project-specific information package mailed on July 20, 2015 to the Stakeholders noted above. AltaLink's information brochure provided Stakeholders with information regarding the Al Rothbauer 321S substation and the related Southern Alberta Transmission Reinforcement (SATR) facility proposal amendment. Attachment 3 includes a copy of AltaLink's information brochure.

In addition, AltaLink held an open house on August 6, 2015 in the City of Medicine Hat² to provide further information to attendees on the Al Rothbauer 321S substation facility proposal and the SATR facility proposal amendment. An AESO employee staffed a booth at the AltaLink open house. Available at the AESO booth were the Need Overview for the Al Rothbauer 321S Substation and the Amendment Overview for the related SATR NID Approval Amendment. The open house was attended by two people. The AESO employee who staffed the booth did not receive any questions or comments from the attendees. A copy of the Amendment Overview for the related SATR NID Approval Amendment has been included as Attachment 4.

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

² The open house was held Best Western Plus Sun Country, 722 Redcliff Drive SW, Medicine Hat, Alberta, T1A 5E3.

committed to protecting Stakeholders' privacy, were included on the Need Overview related to this application.

As directed by the AESO, the TFO was required to direct any inquiries or concerns about the need for the AI Rothbauer 321S substation 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/32310.html> and a notice in the AESO Stakeholder Newsletter on November 17, 2015. Copies of the Public Notification of NID Filing posting and the AESO Stakeholder Newsletter notice have been included as Attachments 5 and 6, respectively.

1.3 Concerns and Objections Raised

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

1.4 List of Attachments

- Attachment 1 – AESO Need Overview
- Attachment 2 – AESO Stakeholder Newsletter Need Overview Notice
- Attachment 3 – AltaLink's Information Brochure – *AI Rothbauer 321S Substation Interconnection and Medicine Hat 138 kV Transmission Project amendment* (July 2015)
- Attachment 4 – Related AESO Amendment Overview for the Southern Alberta Transmission Reinforcement NID Approval Amendment
- Attachment 5 – AESO Public Notification of NID Filing (AESO Website Posting)
- Attachment 6 – AESO Stakeholder Newsletter NID Filing Notice

Attachment 1 – AESO Need Overview

Al Rothbauer 321S Substation in the Medicine Hat area

The City of Medicine Hat (City) currently connects to Alberta's transmission system through the Medicine Hat 41S substation. The City has applied to the Alberta Electric System Operator (AESO) to change its point of interconnection to a new substation it is planning to build north of the Medicine Hat 41S substation. The City's request can be met by the following solution:

> PROPOSED SOLUTION

- Construct a new switching substation, named Al Rothbauer 321S
- Modify local 138 kV transmission lines to connect the City to the transmission system

> NEXT STEPS

- The AESO is processing the City's request, including providing information to landowners, occupants, residents and agencies that may be near the proposed transmission development
- The AESO intends to apply to the Alberta Utilities Commission (AUC) for approval of the need for the Al Rothbauer 321S switching substation in late 2015
- 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:

- Plans the transmission system and enables access to it for qualified market participants including electricity generators and industrial customers
- Is regulated by the AUC and must apply to the AUC for approval of its NID application

> ALTALINK:

- Is the transmission facility owner in the Medicine Hat 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 application

> 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.



FAST FACT

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

> 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.

Laurie Hunka

AESO Stakeholder Relations

stakeholder.relations@aeso.ca

1-888-866-2959

2500, 330 – 5th Avenue SW

Calgary, Alberta T2P 0L4

poweringalberta.ca

aeso.ca

youtube.com/TheAESO

Attachment 2 – AESO Stakeholder Newsletter Need Overview Notice

AI Rothbauer 321S Substation – Need for Substation in the Medicine Hat area

The City of Medicine Hat (City) has applied to the AESO to change its point of interconnection to a new substation it is planning to build north of the Medicine Hat 41S substation. The City's request can be met by constructing a new switching substation, named AI Rothbauer 321S, and modifying local 138 kV transmission lines to connect the City to the transmission system.

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 > AI Rothbauer 321S Substation.

Attachment 3 – AltaLink’s Information Brochure – Al Rothbauer
321S Substation Interconnection and Medicine Hat 138 kV
Transmission Project amendment (July 2015)

Electric system improvements near you

Al Rothbauer 321S Substation Interconnection¹
and Medicine Hat 138 kV Transmission Project amendment

DID YOU KNOW?

AltaLink's transmission system efficiently delivers electricity to 85% 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 potential Al Rothbauer 321S Substation Interconnection and Medicine Hat 138 kV Transmission Project amendment and we want your input.

Electrical developments proposed by the City of Medicine Hat require AltaLink to modify two existing **transmission** lines and develop a new electrical switching station, called the Al Rothbauer Substation, as well as salvage equipment from an existing substation.

The City of Medicine Hat will be working with AltaLink to ensure residents in the area continue to have a reliable supply of electricity. Amendments to the approved Medicine Hat 138 kV Transmission Project will also be required as a result of the Al Rothbauer 321S Substation Interconnection.

We are providing you with:

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

DEFINITIONS

Transmission

Transmission lines make up Alberta's electric highway, linking the places where power is generated to where power is used. Transmission lines transport large amounts of power over long distances across the province. The transmission system connects diverse sources of power generation including wind, high-efficiency coal, natural gas and more.

CONTACT US

1-877-269-5903

stakeholderrelations@altalink.ca

www.altalink.ca/projects

1. In connection to the Medicine Hat 321S/MHS-7 AIES Interconnection project need described in the attached AESO Need Overview.

DEFINITION

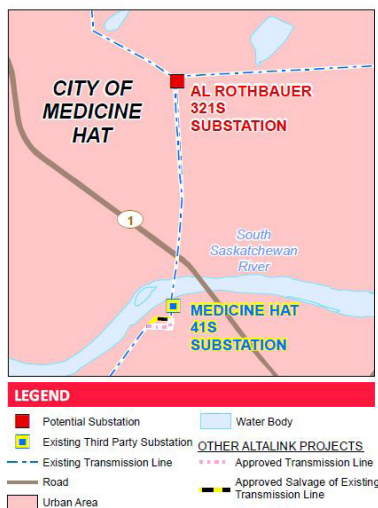
Substation

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

DEFINITION

Switching station

Switching stations connect two or more transmission lines so power can be re-routed and transported across the province to where it's needed.



The Al Rothbauer Substation will look similar to the image on the right.

Al Rothbauer 321S Substation Interconnection: Project details

The Al Rothbauer 321S **Substation** Interconnection project is located within the City of Medicine Hat, south of 23rd Street NE, as shown on the included maps. This project will connect the City's proposed MHS-7 substation to the proposed Al Rothbauer Substation. You may receive information regarding the City's MHS-7 substation at a later date.

WORK AT THE PROPOSED AL ROTHBAUER SUBSTATION:

- constructing a new **switching station**, to be named the Al Rothbauer Substation
- connecting the 675L line to the new Al Rothbauer Substation
- renaming a segment of the 892L line to 880L and connecting it to the Al Rothbauer Substation
- salvaging approximately 120 metres (395 feet) of the existing 892L line and 140 metres (460 feet) of the existing 674L line

WORK AT THE EXISTING MEDICINE HAT SUBSTATION:

- disconnecting the existing 880L line from the Medicine Hat Substation and connecting it to the 892L transmission line (renamed as 880L)
- salvaging all AltaLink substation equipment at the existing Medicine Hat Substation

New switching station

AltaLink is proposing to construct a new switching station, to be named the Al Rothbauer Substation, near the intersection of Brier Park Place and 23 Street NW (in NE2-13-6-W4). The Al Rothbauer Substation will include a control building, three 138 kV circuit breakers and other associated equipment. The substation site's lease boundary will be approximately 65 by 80 metres (215 by 260 feet), and be on land leased from the City of Medicine Hat. The Al Rothbauer Substation will ensure that residents continue to have a dependable source of power.



Transmission lines and substation interconnection

To connect the proposed Al Rothbauer Substation to the electric system, modifications will need to be made to nearby transmission lines. The 880L transmission line will be disconnected from the existing Medicine Hat Substation, and connected to a section of the existing 892L transmission line by adding approximately 60 metres (200 feet) of new 138 kV transmission line through the Medicine Hat Substation site. Refer to the enclosed FP1-DP1 map for details.

Once this is complete, the segment of 892L line between the Medicine Hat Substation and the Al Rothbauer Substation will be renamed 880L. This renamed line segment will then be connected to the proposed Al Rothbauer Substation. Approximately 100 metres (330 feet) of new 138 kV transmission line, composed of three to four new wood structures (shown at A10-B11 on the enclosed FP2-DP1 map), will be required to connect this segment of 880L to the Al Rothbauer Substation.

The new transmission structures mentioned above:

- will be approximately 15 to 28 metres (50 to 90 feet) tall
- may be supported by guy wires
- exist in a right-of-way of approximately 20 metres (60 feet)

To facilitate these transmission line connections, approximately 100 metres (300 feet) of the existing 892L line and approximately 140 metres (460 feet) of the 674L line will be salvaged near the proposed location of the Al Rothbauer Substation.

The 675L transmission line, previously approved as part of the Medicine Hat 138 kV Transmission Project is also proposed to be connected to the proposed Al Rothbauer Substation, as shown on the included DP1 map. Approximately 30 metres (100 feet) of new 138 kV transmission line will be required to make this connection. Fibre optic cable will be strung on these structures for telecommunication purposes.

The required number of structures and need for guy wires will be determined after further detailed engineering is complete. All new transmission structures and temporary workspaces for the Al Rothbauer 321S Substation Interconnection project will be located on property owned by the City of Medicine Hat.



The existing 892L transmission line.

DID YOU KNOW?

Modern technologies, like digital recording devices, are a large drain on the power system. Some home entertainment configurations use more power than a new refrigerator. The average home has more and more gadgets continuously drawing power from the grid. Transmission lines bring power from where it's created to where it's needed so you can power your quality of life. Canada, including Alberta, are working to reinforce their aging electric systems so they can continue to provide customers with reliable power.

Equipment salvage

Once the AI Rothbauer Substation is constructed and the associated transmission line modifications are complete, we will be removing AltaLink's substation equipment from the existing Medicine Hat Substation. This equipment, including one transformer and three 138 kV circuit breakers, will no longer be needed and will be removed. After the salvage, AltaLink will not own any substation equipment at the Medicine Hat Substation site.

City of Medicine Hat's MHS-7 Substation

The City of Medicine Hat is planning to construct a new substation, to be called MHS-7, directly adjacent to the proposed AI Rothbauer Substation. MHS-7 will be connected to the existing 674L line. You may be contacted by the City of Medicine Hat regarding this separate project.

Medicine Hat 138 kV Transmission Project amendment

In April 2015, you may have received information regarding the Medicine Hat 138 kV Transmission Project. The approved upgrade portion of the project included the salvage of a 21 kilometre (13 mile) portion of the existing 674L transmission line and a two kilometre (one mile) section of the existing 892L transmission line. A new double-circuit 138 kV transmission line would then be constructed from the Medicine Hat Substation to the Bowmanton Substation (located northeast of the City of Medicine Hat).

AltaLink no longer plans to salvage two kilometres (one mile) of the 892L and 674L lines located in the Brier Park industrial area between the Medicine Hat Substation and 23rd Street. If the AI Rothbauer 321S Substation Interconnection and the Medicine Hat 138 kV Transmission Project amendment are approved, these sections of line will remain in-service, with 892L connected to the proposed AI Rothbauer Substation and 674L connected to the City's MHS-7 substation.

Route and substation site selection

When identifying route and substation site options, AltaLink takes several factors into consideration in an effort to find routes or sites with the lowest overall impact. Some of the factors we take into consideration include:

Important Criteria		
	Agricultural	<ul style="list-style-type: none">• Impact on crop production• Reduced efficiency of field operations
	Residential	<ul style="list-style-type: none">• Proximity to residences• Impact on developable lands and constraints on future development
	Environmental	<ul style="list-style-type: none">• Alteration of natural areas and impacts to environmental features
	Cost	<ul style="list-style-type: none">• Construction cost and land acquisition costs
	Electrical	<ul style="list-style-type: none">• Reliability and reparability of the line
	Visual	<ul style="list-style-type: none">• Visual impact of structures and lines as seen from residences and recreational areas
	Special considerations	<ul style="list-style-type: none">• Electrical interference with radio transmitting stations and other telecommunication equipment etc.

How to provide your input

Stakeholder input is important to us. You can provide your input in any of the following ways.

ATTEND OUR INFORMATION SESSION

Please join us at our information session below. We will be available to share information, gather your input and respond to any questions or concerns you might have.

Date	Location	Address	Time
August 6, 2015	Best Western Plus Sun Country	722 Redcliff Drive SW, Medicine Hat	4 p.m. – 7 p.m.

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 the World Health Organization and Health Canada 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: 866-451-7817

DEFINITION

Alberta Utilities Commission

The Alberta Utilities Commission (AUC) ensures the fair and responsible delivery of Alberta's utility services. AltaLink submits applications for new transmission projects to the AUC and the AUC reviews them in a public process.

DEFINITION

Alberta Electric System Operator

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 you may contact the AESO directly.

PARTICIPATE IN A ONE-ON-ONE CONSULTATION

We will contact all occupants, residents and landowners who are on or directly adjacent to the Medicine Hat Substation and Al Rothbauer Substation project areas to gather input through one-on-one consultations.

During the one-on-one process we will document the information you provide and respond to any questions or concerns you may have about the project.

AltaLink is committed to sharing information about its projects and working with the public to gather and respond to stakeholder input and concerns. A summary of stakeholder comments will be incorporated into the application we submit to the AUC.

CONTACT US DIRECTLY

You can contact us by telephone, email, mail or through our website. Our contact information is on the front and back pages of this newsletter.

Next steps

AltaLink plans to file an amendment regarding the approved Medicine Hat 138 kV Transmission Project and a Facilities Application for the Al Rothbauer 321S Substation Interconnection with the Alberta Utilities Commission (AUC). The AUC can approve, approve with conditions, or deny the amendment and Facility Application. Details regarding the AUC process can be found in the AUC brochure included in this package. If you have any questions or concerns about this amendment or Facility Application, please contact us at 1-877-269-5903 or stakeholderrelations@altalink.ca.

Information on the Medicine Hat 138 kV Transmission Project can be found at www.altalink.ca/satr and the Al Rothbauer 321S Substation Interconnection at www.altalink.ca/regionalprojects.

The Alberta Electric System Operator (AESO) determined this transmission system development is needed and will file a Needs Application with the AUC. The AUC will review the Needs Application, Facilities Application and the amendment through a process in which stakeholders can participate.

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 Needs or Facilities Applications.

Anticipated project schedule

Notify and consult with stakeholders	July - August 2015
File applications with Alberta Utilities Commission (AUC)	December 2015
Start construction of AI Rothbauer 321S Substation Interconnection, if approved	Spring/Summer 2016
Completed construction	June 2017

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

Projects in the area

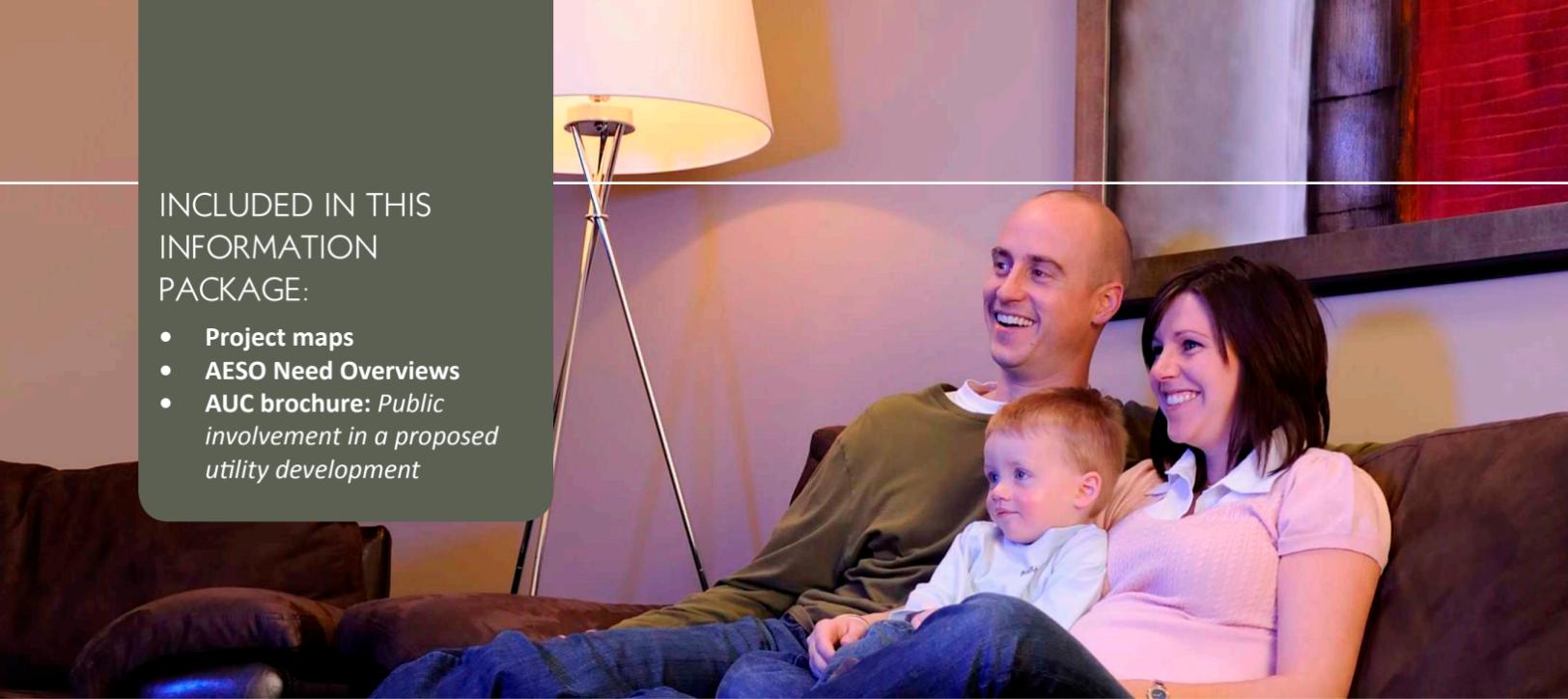
AltaLink is working on several projects in the area to make sure your lights come on at the flick of the switch.

Project name	Description	Status
880L Transmission Line Relocation	AltaLink is working with the City of Medicine Hat to relocate the 880L transmission line to make way for the City's future electrical infrastructure developments. The project proposes to relocate a section of the line that is south of the South Saskatchewan River and is not part of the AI Rothbauer 321S Substation Interconnection project.	Project approved
Medicine Hat 138 kV Transmission Project	AltaLink is upgrading the transmission system in the Medicine Hat area, including the construction of a new transmission line and connecting wind-generated power to the electric grid. The Medicine Hat 138 kV project was approved in October 2013 and is part of the Southern Alberta Transmission Reinforcement (SATR).	Project approved

PRIVACY COMMITMENT

AltaLink is committed to protecting your privacy. Your personal information is collected and 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 the Alberta Utilities Commission (AUC).

For more information about how AltaLink protects your personal information, visit our website at www.altalink.ca/privacy or contact us directly via e-mail privacy@altalink.ca or phone at 1-877-267-6760.



INCLUDED IN THIS
INFORMATION
PACKAGE:

- **Project maps**
- **AESO Need Overviews**
- **AUC brochure:** *Public involvement in a proposed utility development*

Contact us

To learn more about the proposed Al Rothbauer 321S Substation Interconnection, please contact:

ALTALINK

1-877-269-5903 (toll-free)

Email: stakeholderrelations@altalink.ca

Website: www.altalink.ca/regionalprojects

To learn more about the City's proposed MHS-7 substation, please contact:

CITY OF MEDICINE HAT

Nigel Pimblett, Manager of Electrical Utility Engineering

403-529-8258

Email: nigpim@medicinehat.ca

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



2611 - 3rd Avenue SE
Calgary, Alberta T2A 7W7

ALBERTA ELECTRIC SYSTEM OPERATOR (AESO)

1-888-866-2959 (toll-free)

Email: stakeholder.relations@aeso.ca

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 you may contact the AESO directly or you can make your concerns known to an AltaLink representative who will communicate them to the AESO on your behalf.

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

ALBERTA UTILITIES COMMISSION (AUC)

780-427-4903

(You can call toll-free by dialing 310-0000 before the number).

Email: utilitiesconcerns@auc.ab.ca

Let's talk transmission

[www.facebook.com/
altalinktransmission](http://www.facebook.com/altalinktransmission)



www.twitter.com/altalink



**Attachment 4 – Related AESO Amendment Overview for the
Southern Alberta Transmission Reinforcement NID Approval
Amendment**

Amendment: Southern Alberta Transmission Reinforcement Needs Identification Document

138 kV Upgrades in the Medicine Hat area

The Alberta Electric System Operator (AESO) advises you of its intention to file an application with the Alberta Utilities Commission (AUC) to amend the Southern Alberta Transmission Reinforcement Needs Identification Document (SATR NID) Approval No. U2014-461 (SATR NID Approval).

> BACKGROUND

- The SATR NID Approval includes various upgrades to the 138 kV transmission system in the Medicine Hat area including construction of a new 138 kV transmission line, named 675L, as one side of the 675L/892L double circuit 138 kV transmission line between the Bowmanton 244S and Medicine Hat 41S substations
- The Medicine Hat 41S substation will no longer connect directly to the transmission system and so the AESO is now proposing to terminate the 675L/892L transmission line at the future AI Rothbauer 321S switching substation, which reduces the length of 675L/892L by approximately two kilometres

> NEXT STEPS

- The AESO is providing information to landowners, occupants, residents and agencies in the area that may be affected by the proposed change in transmission development
- The AESO intends to apply to the AUC for approval of this amendment in late 2015
- The AESO's amendment to the SATR NID Approval 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:

- Plans the transmission system and enables access to it for qualified market participants including electricity generators and industrial customers
- Is regulated by the AUC and must apply to the AUC for approval of its NID application

> ALTALINK:

- Is the transmission facility owner in the Medicine Hat 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 application

> WHO IS THE AESO?

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FAST FACT

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

> 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.

Laurie Hunka

AESO Stakeholder Relations

stakeholder.relations@aeso.ca

1-888-866-2959

2500, 330 – 5th Avenue SW

Calgary, Alberta T2P 0L4

poweringalberta.ca

aeso.ca

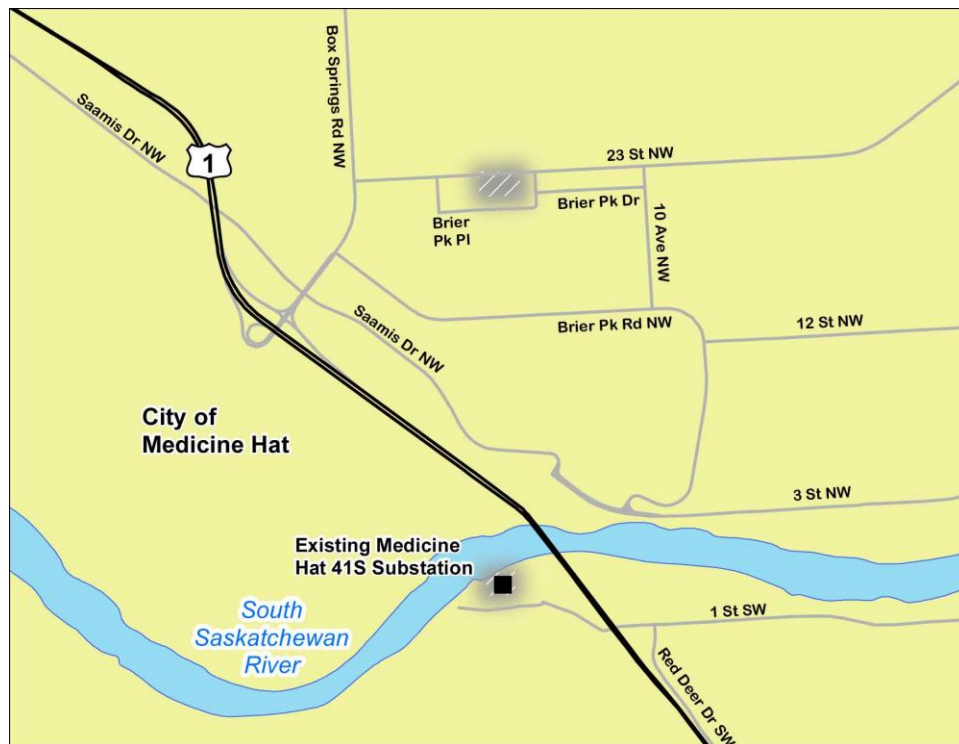
[youtube.com/TheAESO](https://www.youtube.com/TheAESO)

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

AESO Public Notification of NID Filing Addressing the Need for the AI Rothbauer 321S Substation in the City of Medicine Hat

The Alberta Electric System Operator (AESO) advises you that it intends to file a Needs Identification Document (NID) for the AI Rothbauer 321S substation with the Alberta Utilities Commission (AUC) on or after December 2, 2015.

The City of Medicine Hat (COMH) has applied to the AESO for transmission system access to move its Point of Connection with the Alberta Interconnected Electric System (AIES) to improve reliability of its electricity supply. The COMH's request can be met by: building the AI Rothbauer 321S substation, which includes three 138 kV breakers, and associated equipment; connecting the AI Rothbauer 321S substation to a proposed COMH substation; and modifying and connecting the 138 kV transmission lines 675L and 880L to the AI Rothbauer 321S substation.



The shaded area in the map indicates the approximate area where transmission development is needed. Existing substations where modifications are required are also shown. In a separate application called a Facilities Application, AltaLink Management Ltd, the transmission facilities owner (TFO) in the Medicine Hat area, will describe the specific routes they propose to implement the transmission system development, and request AUC approval to construct and operate the specific transmission facilities. The specific line routes applied for by the TFO may extend beyond the area shown.

The AESO presented this need to stakeholders, including residents, occupants and landowners, from July 2015 to November 2015. The AESO will apply to the AUC for approval of the need for this transmission development. Once filed, the NID will be posted on the AESO website at <http://www.aeso.ca/transmission/32310.html>

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

Attachment 6 – AESO Stakeholder Newsletter NID Filing Notice

AI Rothbauer 321S Substation – Notice of NID Filing

The City of Medicine Hat (COMH) has applied to the AESO for transmission system access to move its point of connection with the Alberta Interconnected Electric System (AIES) to improve reliability of its electricity supply. The COMH's request can be met by: building the AI Rothbauer 321S substation, which includes three 138 kV breakers, and associated equipment; connecting the AI Rothbauer 321S substation to a proposed COMH substation; and modifying and connecting the 138 kV transmission lines 675L and 880L to the AI Rothbauer 321S substation.

The AESO intends to file the AI Rothbauer 321S Substation Needs Identification Document (NID) application with the Alberta Utilities Commission (AUC) on or after December 2, 2015, requesting that the AUC approve this NID.

The AESO has posted the public notification for its NID filing on its website for the AI Rothbauer 321S Substation. Please [click here](#) to view the document or visit the AESO website at www.aeso.ca and follow the path Transmission > Needs Identification Documents > AI Rothbauer 321S Substation in the Medicine Hat area to see all the relevant documents, including the NID application once it is filed with the AUC.