

Participant Involvement Program Summary

Peace Butte Wind Power Project Connection

Date: March 31, 2025

Version: V1

Classification: Public

1. Introduction

From August 2024 to November 2024, the AESO conducted a Participant Involvement Program (PIP) for the *Peace Butte Wind Power Project Connection Needs Identification Document*. The AESO directed the legal owner of transmission facilities (TFO), in this case AltaLink Management Ltd., in its capacity as general partner of AltaLink L.P., (AltaLink), 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 <https://www.aeso.ca/grid/transmission-projects/peace-butte-wind-power-project-connection-2467> and a notice was published in the AESO Stakeholder Newsletter on August 21, 2024. 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 metres of the proposed transmission line right-of-way, within 100 metres of the existing right-of-way boundary, as well as within 100 metres of the proposed underground fibre optic line, as recommended by the Commission in Appendix A1 of AUC Rule 007.¹

¹ AltaLink has identified its facility application to be of the type: *Overhead transmission line and new substation development – rural or industrial setting; Minor transmission line replacements within the original right-of-way – rural and industrial*, as categorized in AUC Rule 007, Appendix A1, Section 5.

The TFO notified a total of approximately 27 Stakeholders, of which 5 were classified as private or individual landowners. The other 14 notified Stakeholders and the 8 notified Indigenous groups are listed below:

- Alberta Culture and Tourism Land Use Planning
- Alberta Environment and Protected Areas – Fish and Wildlife
- Alberta Environment and Protected Areas – Lands Delivery and Coordination
- ATCO Gas and Pipelines
- Aura Power Renewables Ltd.
- Blood Tribe
- Cypress County
- FortisAlberta Inc. Operations Planning
- Forty Mile Gas Co-op
- NAV Canada AIS Data Collection Unit and Land Use Office
- Nekanee First Nation
- Piikani Nation
- Pteragen Canada Inc.
- Siksika Nation
- Stoney (Bearspaw) Band
- Stoney (Chiniki) Band
- Stoney (Goodstoney) Band
- Suncor Energy Inc.
- Telus Communications (ECAP)
- Transport Canada Civil Aviation
- Tsuut'ina Nation
- Yangarra Resources Corporation

Attachment 3 includes the TFO's project newsletter, which was included with the AESO Need Overview in the TFO project-specific information package that was distributed to the Stakeholders and Indigenous groups described above between August 19, 2024, and August 29, 2024. The TFO's project newsletter and the AESO Need Overview were also posted on the TFO's project-specific webpage at <https://www.altalink.ca/project/pteragen-peace-butte-wind-facility-connection/> on August 19, 2024. The TFO's project newsletter 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. Stakeholders Notified by the AESO

The AESO also notified 13 market participants that the AESO determined may have an interest in the Peace Butte Wind Power Project Connection. The AESO identified that, under certain potential system conditions, these market participants may be affected following the connection of the Peace Butte Wind Power Project Connection. A Market Participant Notification Letter, which included the AESO Need Overview, was sent to the notified Market Participants on November 6, 2024.

The thirteen notified market participants are:

- ATCO Forty Mile Solar GP Ltd.
- Aura Power Renewables Ltd.
- CI V Aira Solar LP, on behalf of its general partner CI V Aira Solar GP Ltd.
- City of Medicine Hat
- Cypress Renewable Energy Centre LP.
- Dunmore Solar Inc.
- EDF Renewables Development Inc.
- ENGIE Development Canada L.P.
- Forty Mile Granlea Wind GP Inc.
- RESC Forty Mile Wind LP
- Whitla 2 Wind Generation L.P.
- Wild Rose 2 Wind LP
- Winnifred Wind Project LP

A generic version of the Market Participant Notification Letter was posted to the AESO website on November 4, 2024 at <https://www.aeso.ca/grid/transmission-projects/peace-butte-wind-power-project-connection-2467>. A copy has been included as Attachment 4.

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 (2500, 330 5th Ave. SW, Calgary) and website address (www.aeso.ca), and a privacy statement that described how the AESO is committed to protecting Stakeholders' privacy.

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 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 (August 2024)
- Attachment 2 – AESO Stakeholder Newsletter Need Overview Notice (August 21, 2024)
- Attachment 3 – TFO's Project Newsletter – Pteragen Peace Butte Wind Facility Connection (August 2024)
- Attachment 4 – AESO Market Participant Notification Letter (November 6, 2024)

Attachment 1 – AESO Need Overview (August 2024)

Need for the Pteragen Peace Butte Wind Power Project Connection in the City of Medicine Hat Area

Pteragen Canada Inc. (Pteragen Wind) has applied to the AESO for transmission system access to connect its approved Peace Butte Wind Project (Facility) in the Medicine Hat area. Pteragen Wind's request can be met by the following solution:

PROPOSED SOLUTION

- Add one 138 kilovolt (kV) transmission line to connect the Facility to the existing 138 kV transmission line 600L using a T-tap configuration.
- Add or modify associated equipment as required for the above transmission developments.

NEXT STEPS

- In late 2024, 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 prior to 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.

ALTALINK

- Is the transmission facility owner in the Medicine Hat 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

2500, 330-5th Avenue SW
Calgary, AB T2P 0L4
Phone: 403-539-2450

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

Attachment 2 – AESO Stakeholder Newsletter Need Overview Notice (August 21, 2024)



GRID

Need Overview | Peace Butte Wind Power Project Connection

Pteragen Canada Inc. (Pteragen Wind) has applied to the AESO for transmission system access to connect its approved Peace Butte Wind Project (facility) in the Medicine Hat area. Pteragen Wind's request can be met by the following solution:

- Add one 138 kilovolt (kV) transmission line to connect the facility to the existing 138 kV transmission line 600L using a T-tap configuration.
- Add or modify associated equipment, as required, for the above transmission development.

The AESO has posted a Need Overview for this project on its website. To view the document, [click here](#) or visit www.aeso.ca and follow the path: Grid > Transmission-Projects > Peace Butte Wind Power Project Connection (2467).

Attachment 3 – Market Participant’s Project Newsletter – Pteragen Peace Butte Wind Facility Connection (August 2024)

AUGUST 2024

Pteragen Peace Butte Wind Facility Connection

You are receiving this newsletter because you are near the Pteragen Peace Butte Wind Facility Connection, and we want your input.

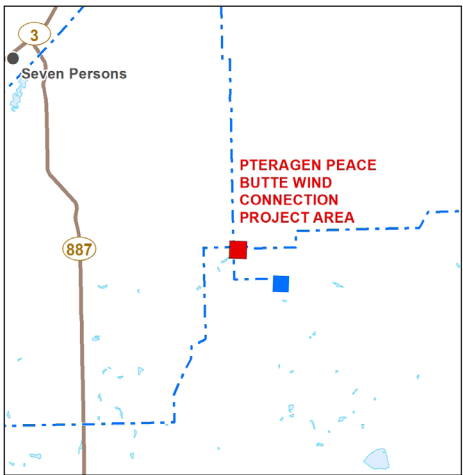
To connect Pteragen Canada Inc.'s (Pteragen's) Pteragen Peace Butte Wind Facility to the grid, AltaLink is proposing changes to its transmission system. The project is located in Cypress County, approximately 22 kilometres south of Medicine Hat.

AltaLink's and Pteragen's projects are separate. Pteragen will consult on their proposed project. For more information about Pteragen's project, see their contact information included in this newsletter.

Project details

To connect their proposed Pteragen Peace Butte Wind Facility to the grid, Pteragen is constructing a new **substation**, called Tothill. AltaLink is proposing three changes to accommodate the connection of Pteragen's project, including:

- constructing approximately 230 metres of new 138 kilovolt (kV) transmission line (to be named 600AL)
- modifying AltaLink's existing 600L transmission line to connect to 600AL
- installing approximately two kilometres of underground **fibre optic cable** between the 964L/983L transmission line and Pteragen's proposed substation



ANTICIPATED PROJECT SCHEDULE

AUGUST TO NOVEMBER 2024
Notify and consult with stakeholders



DECEMBER 2024
File application with Alberta Utilities Commission (AUC)



JUNE 2026
Start construction if project is approved



NOVEMBER 2026
Construction completed

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.

Proposed structures

Two new structures will be installed for the 600AL transmission line. The structures are proposed to include one new monopole structure and one new H-frame structure. These are proposed to be between 15 and 30 metres tall and may be made from wood or steel.

The modifications to the existing 600L transmission line will include the addition of two new monopole structures. These are proposed to be between 15 and 30 metres tall and may be made from wood or steel.

The structures will be located primarily on land owned by Pteragen, with some located one metre within the road allowance. Please see the included map for more details.



The monopole structures will look similar to the photo on the left, and the H-frame structure will look similar to the photo on the right.

The underground conduit box will look similar to the image to the right.



Fibre optic cable

As part of this project, AltaLink is proposing to install approximately two kilometres of fibre optic cable between the 964L/983L transmission line and Pteragen's proposed Tothill Substation, within an existing transmission line right-of-way.

In certain locations, an underground conduit box may be required to facilitate construction and maintenance of the cable. The conduit boxes are approximately 90 centimetres long by 60 centimetres wide. These locations will be determined following detailed engineering and discussions with landowners.

Providing your input

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

After our consultation and notification process is complete, we will file an application with the Alberta Utilities Commission (AUC). The AUC ensures the fair and responsible delivery of Alberta's utility services and will review the application through a process in which stakeholders can participate.

We will notify stakeholders when we file the application and again once the AUC has reached a decision about the project. To learn more about the AUC process and how you can become involved, please refer to the brochure included in this package titled *Participating in the AUC's independent review process to consider facility applications*.

DEFINITIONS:

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.

Fibre optic cable | This allows us to communicate effectively between a customer connection point or substation and our control centre. It provides valuable data that is used to maintain the reliability of Alberta's electric system.

INCLUDED IN THIS INFORMATION PACKAGE:

- Project map
- AESO need overview
- AUC brochure: *Participating in the AUC's independent review process to consider facility applications*
- Electric and Magnetic Fields Information

Contact us

To learn more about the proposed project please contact:

ALTALINK

1-877-267-1453 (toll-free)

Email: stakeholderrelations@altalink.ca

To subscribe to this project:

Visit www.altalink.ca/projects, search for the project title, and click 'subscribe to updates'

For more information about how AltaLink protects your personal information:

Visit our website at www.altalink.ca/privacy or contact us directly via email (privacy@altalink.ca) or phone (1-877-267-6760).

To learn more about the Pteragen Peace Butte Wind Facility, please contact:

Arcadis, on behalf of Pteragen Canada Inc.

Dylan Grove

403-888-7129

Email: dylan.grove@arcadis.com

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

Alberta Electric System Operator (AESO)

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

Email: stakeholder.relations@aeso.ca

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

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

Alberta Utilities Commission (AUC)

780-427-4903 (toll-free by dialing

310-0000 before the number)

Email: consumer-relations@auc.ab.ca

Let's talk transmission



www.facebook.com/altalinktransmission



www.twitter.com/altalink

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CONTACT US

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



Electric and Magnetic Fields (EMF) Information

Electric and Magnetic Fields (EMF)

AltaLink recognizes that people may have concerns about exposure to EMF and we take those concerns seriously.

Everyone in our society is exposed to power frequency EMF from many sources, including:

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

National and international organizations such as Health Canada and the World Health Organization (WHO) have been conducting and reviewing research on exposure to EMF for more than 40 years. Based on this research, these agencies have not recommended that the general public needs to take steps to limit their everyday exposure to EMF from high voltage transmission lines, including individuals that are located on the edge of a power line right-of-way.

If you have any questions about EMF please contact us.

Website: www.altalink.ca/emf

Email: emfdialogue@altalink.ca

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



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

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.

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 60 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

Attachment 4 – AESO Market Participant Notification Letter (November 6, 2024)

SENT VIA EMAIL

November 06, 2024

Notified Market Participant Corporate Legal Name
Address Line 1.
Address Line 2.
City, Province, Postal Code

Dear Notified Market Participant Primary Contact,

Re: Peace Butte Wind Power Project Connection

The Alberta Electric System Operator (AESO) would like to advise you that Pteragen Canada Inc. (Pteragen) has applied for transmission system access to connect its approved Peace Butte Wind Power Project (approved Facility) to the Alberta interconnected electric system (AIES) in the AESO South Planning Region.

The purpose of this letter is to advise you that the AESO has identified that, under credible worse case forecast conditions, **[Effective Generation Facility Name] ([Effective Generation Facility Asset ID])** may be curtailed following the connection of the approved Facility.

Connection Assessment Findings

An engineering connection assessment was carried out by the AESO to assess the transmission system performance following the connection of the approved Facility.¹ The connection assessment identified the potential for thermal criteria violations and the potential for voltage criteria violations on the Cassils-Bowmantown-Whitla (CBW) transmission path (240 kV transmission lines 1034L/1035L and 964L/983L), following the connection of the approved Facility, under credible worse case forecast conditions, with all transmission facilities in service (Category A).

The approved Bowmantown 244S Substation Voltage Support Project will help to alleviate the voltage criteria violations at the Bowmantown 244S substation under Category A conditions. Furthermore, the AESO has initiated system transmission development projects in the south-east and south-west planning regions that will address system performance issues².

In addition, a Category A thermal criteria violation was observed pre-Project on the 240 kV transmission line 924L and is exacerbated with the addition of the approved Facility. New Category A thermal criteria violations are observed following the connection of the approved Facility on the 138/240 kV transmission lines 880L and 927L, and 240/138 kV Bowmantown 244S T1/T2 Transformers. The AESO is developing system plans to address thermal criteria violations on the 240 kV transmission lines 924L and 927L.³ Should the AESO

¹ The studies were performed assuming the Rate STS, *Supply Transmission Service*, contract capacity of 120 MW and a Rate DTS, *Demand Transmission Service*, contract capacity of 2 MW.

² More information about these projects was provided at AESO Stakeholder Symposium held on November 30, 2023; symposium materials are available on the AESO website.

³ More information about this plan was provided at the Grid Reliability Update Stakeholder Session held on November 23, 2023; session materials are available on the AESO website

determine that mitigation is required to address potential thermal criteria violations under Category A conditions, the AESO may develop operational procedures or other mitigation measures.

In addition, thermal and voltage criteria violations were also identified when a single transmission facility is out of service (Category B) following the connection of the approved Facility. To mitigate these potential system performance issues, existing RASs 176 and 164 will be used. The total megawatts tied to RAS 164 exceeds the Maximum Severe Single Contingency (MSSC) limit. Therefore, pre-contingency curtailment of projects assigned to the RAS may be required under the Category A condition, to prevent generation curtailment above the MSSC limit during Category B conditions..

The AESO will make use of real-time operational measures to mitigate these potential system performance issues, in accordance with [Section 302.1 of the ISO rules, Real Time Transmission Constraint Management](#) (TCM Rule), which is in effect today. When applied, the TCM Rule could result in the AESO issuing directives for curtailment to source assets that are effective in managing a constraint.

The connection assessment identified source assets, including **[Effective Generation Facility Asset ID]**, which are effective in mitigating the potential transmission constraints.

The AESO will continue to monitor the pace of generation development and will notify market participants if it determines that it is necessary to obtain approval for an “exception” under Section 15(2) of the Transmission Regulation. The AESO will notify market participants if and when the AESO determines it is necessary to apply to the Alberta Utilities Commission (AUC) for approval of such an exception.

For Further Information

The AESO Need Overview document is attached for your information. The AESO Need Overview describes the AESO’s proposed transmission development to connect the approved Facility to the AIES.

The engineering connection assessment will be included in the AESO’s Peace Butte Wind Power Project Connection needs identification document (NID) application. Following submission of the NID application to the Alberta Utilities Commission, the NID application will be posted on the AESO website at: <https://www.aeso.ca/grid/transmission-projects/>. Stakeholders will be notified when this occurs via the AESO stakeholder newsletter.

If you have any questions or concerns, please contact the AESO at 1-888-866-2959 or stakeholder.relations@aeso.ca

Attachments:

AESO Need Overview: Peace Butte Wind Power Project Connection

Need for the Pteragen Peace Butte Wind Power Project Connection in the City of Medicine Hat Area

Pteragen Canada Inc. (Pteragen Wind) has applied to the AESO for transmission system access to connect its approved Peace Butte Wind Project (Facility) in the Medicine Hat area. Pteragen Wind's request can be met by the following solution:

PROPOSED SOLUTION

- Add one 138 kilovolt (kV) transmission line to connect the Facility to the existing 138 kV transmission line 600L using a T-tap configuration.
- Add or modify associated equipment as required for the above transmission developments.

NEXT STEPS

- In late 2024, 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 prior to 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.

ALTALINK

- Is the transmission facility owner in the Medicine Hat 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

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