

May 08, 2020

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

Dear **Notified Market Participant Primary Contact:**

Re: **Cascade Power Plant Project Connection**

The Alberta Electric System Operator (AESO) would like to advise you that Cascade Power Project Limited Partnership (Cascade Power) has applied for transmission system access to connect its approved Cascade Power Plant Project (approved Facility) to the Alberta interconnected electric system (AIES) in the AESO Central Planning Region.

A copy of 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, and the AESO's next steps, which include submitting a needs identification document (NID) application to the Alberta Utilities Commission (AUC) for approval.

The purpose of this letter is to advise you that the AESO has identified that, under credible worse case forecast conditions, the operation of the **[Effective Generation Facility Name] ([Effective Generation Facility Asset ID])** may be affected following the connection of the approved Facility.¹

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. The connection assessment identified the potential for marginal thermal criteria violations, under credible worse case forecast conditions, with all transmission facilities in service (Category A). Thermal criteria violations were also identified when a single transmission facility is out of service (Category B).

Transmission Constraint Management

Should the AESO determine that mitigation is required to address potential marginal thermal criteria violations under Category A conditions, the AESO may develop operational procedures or other mitigation measures. In addition, to address potential thermal criteria violations under Category B conditions, the AESO may implement new remedial action schemes (RASS) or other mitigations, as required.

The AESO may also make use of real-time operational procedures to mitigate these potential thermal criteria violations, in accordance with Section 302.1 of the ISO rules, *Real Time Transmission Constraint Management* (TCM Rule). When applied, the TCM Rule could result in the AESO issuing directives for curtailment to source assets that are effective in managing a constraint.

¹ The studies were performed assuming the Rate STS, *Supply Transmission Service*, contract capacity of 900 MW.

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

At this time, the identified thermal criteria violations are not expected to result in congestion under Category A conditions. However, closer to the in-service date, if the AESO determines that congestion will arise under Category A conditions, the AESO will make an application to the Alberta Utilities Commission 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 AUC for approval of such an exception.

For Further Information

The engineering connection assessment will be included in the AESO’s Cascade Power Plant Project Connection NID application. Following submission of the NID application to the AUC, the NID application will be posted on the AESO website at: <https://www.aeso.ca/stakeholder-engagement/transmission-projects/>

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: *Need for the Cascade Power Plant Project Connection in the Edson area*

Need for the Cascade Power Plant Project Connection in the Edson area

Cascade Power Project Limited Partnership (Cascade Power) has applied to the AESO for transmission system access to connect its approved Cascade Power Plant Project (Facility) in the Edson area. Cascade Power's request can be met by the following solution:

PROPOSED SOLUTION

- Add three 240 kilovolt (kV) transmission lines to connect the Facility to the existing Bickerdike 39S substation.
- Modify the existing Bickerdike 39S substation, including adding four 240 kV circuit breakers.
- Add or modify associated equipment as required for the above transmission developments.

NEXT STEPS

- The AESO intends to apply to the Alberta Utilities Commission (AUC) for approval of the need in early 2020.
- The AESO's needs identification document (NID) application will be available on the AESO's website at www.aeso.ca/stakeholder-engagement/transmission-projects at the time of its application to the AUC.

The following organizations have key roles and responsibilities in providing access to the transmission system:

THE AESO

- Must plan the transmission system and enable access to it for generators and other qualified customers.
- Is regulated by the AUC and must apply to the AUC for approval of its NID.

ALTALINK

- Is the transmission facility owner in the Edson 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

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