

SENT VIA EMAIL

October 25, 2018

[Notified Market Participant]
[Notified Market Participant Street Address]
[Notified Market Participant City],[Notified Market Participant Province]
[Notified Market Participant postal code]
[Notified Market Participant country (if outside Canada)]

Dear **[Notified Market Participant Primary Contact]**:

Re: **Planned Generating Facility Connections in the AESO's South Planning Region**

The Alberta Electric System Operator (AESO) would like to advise you that Forty Mile Granlea Wind GP Inc. (Forty Mile GP), a wholly owned subsidiary of Suncor Energy Inc., has applied for transmission system access to connect its planned generating facility to the transmission system in the AESO's South Planning Region.

Forty Mile GP has requested two connections to the transmission system through two separate system access service requests (SASRs), each for the connection of 200 MW of capacity for the Suncor Forty Mile Wind Power Project. The AESO is addressing the SASRs through the following AESO connection projects:

- the Suncor Forty Mile Wind Power Project 964L Connection; and
- the Suncor Forty Mile Wind Power Project Whitla Connection.

Planning for the connection of the Suncor Forty Mile Wind Power Project is undertaken by the AESO as part of the AESO's Connection Process. In late 2018, the AESO plans to file separate Needs Identification Document (NID) applications for each of the above described connection projects. The AESO has produced a Need Overview document for each of the connection projects that describe the proposed transmission development to connect the Suncor Forty Mile Wind Power Project to the transmission system. Copies of the Need Overview documents are attached for your information.

The purpose of this letter is to advise you that the AESO has identified that, under some potential system conditions, the operation of the **[Notified Market Participant Facility]** may be affected following one or more connections of the planned Suncor Forty Mile Wind Power Project.¹

Connection Assessment Findings

Engineering connection assessments were carried out by the AESO in order to assess the transmission system performance following the connection of the Suncor Forty Mile Wind Power Project. The connection assessments identified the potential for system performance issues, under some future system conditions, following one or more connections of the Suncor Forty Mile Wind Power Project.

¹ The studies were performed assuming the following Rate STS, *Supply Transmission Service*, contract capacities: the Suncor Forty Mile Wind Power Project 964L Connection, Rate STS of 200 MW; and the Suncor Forty Mile Wind Power Project Whitla Connection, Rate STS of 200 MW.

Transmission Constraint Management

To mitigate these potential system performance issues, planned remedial action schemes (RASs) may be modified and new RASs may be required.

The AESO may also 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). 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 assessments have identified source assets, including the **[Notified Market Participant Facility]**, that are effective in mitigating the potential transmission constraints.

Renewable Generation Integration

The actual impacts of these connection projects depend on their actual energization timing, as well as the energization timing of other planned renewable generation connection projects in the area. The AESO will ensure plans are in place when impacts of the Suncor Forty Mile Wind Power Project and the other planned renewable generation connection projects in the area become certain. As mentioned in the AESO's *Transmission Capability Assessment for Renewables Integration* report,² renewable integration capability could be achieved through use of RASs, which is consistent with the findings of the engineering connection assessments.

The Need for a Section 15(2) Application

If the AESO anticipates that congestion under system normal (Category A) conditions will arise on the transmission system, then the AESO is required to file and obtain approval from the Alberta Utilities Commission (AUC) 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, and will address the frequency, magnitude and duration of any anticipated congestion at that time.

For Further Information

The engineering connection assessment will be included in the AESO's Suncor Forty Mile Wind Power Project 964L Connection NID application and Suncor Forty Mile Wind Power Project Whitla Connection NID application. Following submission to the AUC of these NID applications, the NID applications will be posted on the AESO website at: <https://www.aeso.ca/grid/projects/>

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

Yours truly,

"Electronically signed by"

Maz Mazadi, PhD, P.Eng., SMIEEE
Manager, Project and System Access Studies

Attachments:

AESO Need Overview Update: *Need for the Suncor Forty Mile Wind Power Project 964L Connection in the Maleb area*

AESO Need Overview Update II: *Need for the Suncor Forty Mile Wind Power Project Whitla Connection in the Maleb area*

² Available on the AESO website at: <https://www.aeso.ca/assets/Uploads/Transmission-Capability-Assessment-for-Renewables-Integration-Final.pdf>

Need for the Suncor Forty Mile Wind Power Project 964L Connection in the Maleb area

Forty Mile Granlea Wind GP Inc. (Forty Mile GP), a wholly owned subsidiary of Suncor Energy Inc. has submitted two applications to the Alberta Electric System Operator (AESO) for transmission system access to connect its proposed Suncor Forty Mile Wind Power Project (Facility) in the Maleb area.

One of these requests can be met by a connection to the existing Whitla 251S substation, as further described in the AESO Need Overview Update (October 2018), "Need for the Suncor Forty Mile Wind Power Project Whitla Connection in the Maleb area".

Separately, the AESO described its proposed solution to meet Forty Mile GP's other request in the previous version of this AESO Need Overview, originally distributed in October 2017. Since that time, the date the AESO intends to apply to the Alberta Utilities Commission (AUC) for approval of the need has changed. The AESO's proposed solution to connect the Facility has not changed.

Forty Mile GP's request can be met by the following solution:

PROPOSED SOLUTION

- Add one 240 kV transmission line to connect the Facility to the existing 240 kV transmission line 964L.
- Add or modify associated equipment as required for the above transmission developments.

REVISED NEXT STEPS

- The AESO intends to apply to the Alberta Utilities Commission (AUC) for approval of the need in late-2018.
- The AESO's needs identification document (NID) application will be available on the AESO's website at www.aeso.ca/grid/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 Maleb 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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Need for the Suncor Forty Mile Wind Power Project Whitla Connection in the Maleb area

Forty Mile Granlea Wind GP Inc. (Forty Mile GP), a wholly owned subsidiary of Suncor Energy Inc. has submitted two applications to the Alberta Electric System Operator (AESO) for transmission system access to connect its proposed Suncor Forty Mile Wind Power Project (Facility) in the Maleb area.

One of these requests can be met by a connection to the existing 240 kV transmission line 964L, as further described in the AESO Need Overview Update (October 2018), "Need for the Suncor Forty Mile Wind Power Project 964L Connection in the Maleb area".

Separately, the AESO described its proposed solution to meet Forty Mile GP's other request in the previous version of this AESO Need Overview Update, originally distributed in August 2017. Since that time, Suncor has withdrawn its request to connect the Suncor Forty Mile Solar Power Project and the date the AESO intends to apply to the Alberta Utilities Commission (AUC) for approval of the need has changed. The AESO's proposed solution to connect the Facility has not changed.

Forty Mile GP's request can be met by the following solution:

PROPOSED SOLUTION

- Modify the existing Whitla 251S substation, including adding one 240 kilovolt (kV) circuit breaker.
- Add one 240 kV transmission line to connect the Facility to the Whitla 251S substation.
- 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 late-2018.
- The AESO's needs identification document (NID) application will be available on the AESO's website at www.aeso.ca/grid/projects at the time of its application to the AUC.

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