

# Needs identification document checklist application

**Date:** Sep 8, 2022 **Applicant reference:** P479 and P693 Wild Rose 1 and 2 Wind Power Project Connection NID Approval Amendment

<p><b>Identification</b></p> <p><b>Company name:</b> Alberta Electric System Operator</p> <p><b>Name, position and contact information of applicant contact:</b></p> <p>Michelle Jackson Regulatory Administrator 403-539-2850 Michelle.Jackson@aeso.ca</p>
<p><b>Project details</b></p> <p><b>This application is for:</b></p> <p>Generation connection <input checked="" type="checkbox"/> Non-distribution facility owner load <input type="checkbox"/></p>
<p><b>Project written description, including the need, nature and extent of the project and the Alberta Electric System Operator's (AESO) preferred option:</b></p> <p>The AESO is applying to amend Needs Identification Document Approval No. 20496-D01-2015<sup>1</sup> (NID Approval) by cancelling the Wild Rose 1 Wind Power Project connection and amending the Wild Rose 2 Wind Power Project connection, as follows:</p> <p>Remove the entirety of part 1:</p> <p>1. <del>Interconnection of Wild Rose 1 power plant:</del></p> <p>(a) <del>Construction of a new 240-kilovolt (kV) single-circuit transmission line from Wild Rose 1 547S substation to Elkwater-264S switching station designated as 978L.</del></p> <p>(b) <del>Alteration of Bowmanton 244S substation and Elkwater 264S switching station.</del></p> <p>(c) <del>Other associated equipment as more particularly described in the application and the previous application.</del></p> <p>And amend part 2 to reflect the latest transmission facility names, as follows:<sup>2</sup></p> <p>2. Interconnection of Wild Rose 2 power plant:</p> <p>(a) Construction of a new Elkwater 264S switching station.</p> <p>(b) <del>Construction of a new 240-kV single-circuit transmission line from Eagle Butte 274S substation to Elkwater 264S switching station designated as 1076L.</del></p> <p>(c) Alteration of 240-kV transmission line 983L to connect to Elkwater 264S switching station.</p> <p>(d) Other associated equipment as more particularly described in the application and the previous application.</p> <p>The above transmission development is required to respond to the request for system access service submitted by Wild Rose 2 Wind LP (Wild Rose) to connect its approved Wild Rose 2 Wind Power Project (Facility) in the Dunmore area (AESO</p>

<sup>1</sup> Appendix 1 to Decision 20496-D01-2015, *Wild Rose 1 and 2 Wind Energy Interconnection Amendment* (August 28, 2015).

<sup>2</sup> The collector substation for the Wild Rose 2 Wind Power Project is no longer designated as Eagle Butte 274S; rather it is designated as the Wild Rose 2 Wind LP owned portion of the Elkwater 264S substation. The 240 kV connection between the AltaLink owned portion of the Elkwater 264S substation and the Wild Rose 2 Wind LP owned portion of the Elkwater 264S substation is no longer designated as a transmission line; and is therefore not numbered.

Planning Area 4, Medicine Hat, which is part of the AESO South Planning Region). The Facility includes Wild Rose's portion of the approved Elkwater 264S substation. Wild Rose expects the Facility to be commercially operational by December 31, 2023.

Wild Rose's request includes a new Rate STS, *Supply Transmission Service*, contract capacity of 192 MW and a new Rate DTS, *Demand Transmission Service*, contract capacity of 4 MW.

On July 4, 2022 Wild Rose 1 Wind LP submitted a request to the AESO to cancel its request for system access service to connect the Wild Rose 1 Wind Power Project. On July 12, 2022 the AESO cancelled this system access service request.

**Applicable ratings/capability of any proposed major elements:**

n/a

**Proposed in-service date:**

June 30, 2023

**Cost estimate for the preferred option for the project is attached.**

Yes  No

Not applicable as this is a NID approval amendment for a previously approved connection. The facilities required to connect the Wild Rose 2 Wind Power project are not being altered, only the facility names have changed to align with the AESO's latest naming standards.

**Technical considerations**

**Single line diagram(s) of the proposed development and study area is attached.**

Yes  No

**The AESO has conducted appropriate studies and considers that the project will not result in adverse impacts to the Alberta Interconnected Electric System.**

Yes  No

Not applicable as this is a NID approval amendment for a previously approved connection. The facilities required to connect the Wild Rose 2 Wind Power project are not being altered, only the facility names have changed to align with the AESO's latest naming standards.

Additional project specific connection studies were not completed as the project is in Stage 5 of the AESO connection process. Prior to energization of the Wild Rose 2 Wind Power Project connection, operational planning studies will be completed as part of the AESO connection process. The impacts of the Wild Rose 2 Wind Power Project connection are expected to be similar to other projects connecting in the Medicine Hat planning area (Area 4), such as the Forty Mile Wind Power Project connection (see Exhibit 27492-X0003).

**List any new or exacerbated Category B system impacts that occur as a result of the project and provide a description of how they will be addressed (e.g. description of remedial action schemes that will be used):**

Not applicable as this is a NID approval amendment for a previously approved connection. The facilities required to connect the Wild Rose 2 Wind Power project are not being altered, only the facility names have changed to align with the AESO's latest naming standards. The impacts of the Wild Rose 2 Wind Power Project connection are expected to be similar to other projects connecting in the Medicine Hat planning area (Area 4), such as the Forty Mile Wind Power Project connection (see Exhibit 27492-X0003).

**Briefly describe any alternatives to the AESO's preferred option that the AESO considered and why they were ruled out:**

Not applicable as this is a NID approval amendment for a previously approved connection. The facilities required to connect the Wild Rose 2 Wind Power project are not being altered, only the facility names have changed to align with the AESO's latest naming standards.

<b>Participant involvement requirements</b>
<b>Notification requirements have been met and there are no unresolved objections.</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<b>Environmental requirements</b>
<b>The AESO does not anticipate significant environmental effects as a result of the project.</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<b>Other considerations</b>
<b>If you answered no to any of the questions above, please explain:</b> See explanation above.
<b>The project raises issues not addressed by the preceding questions.</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
<b>If yes, please explain:</b> n/a