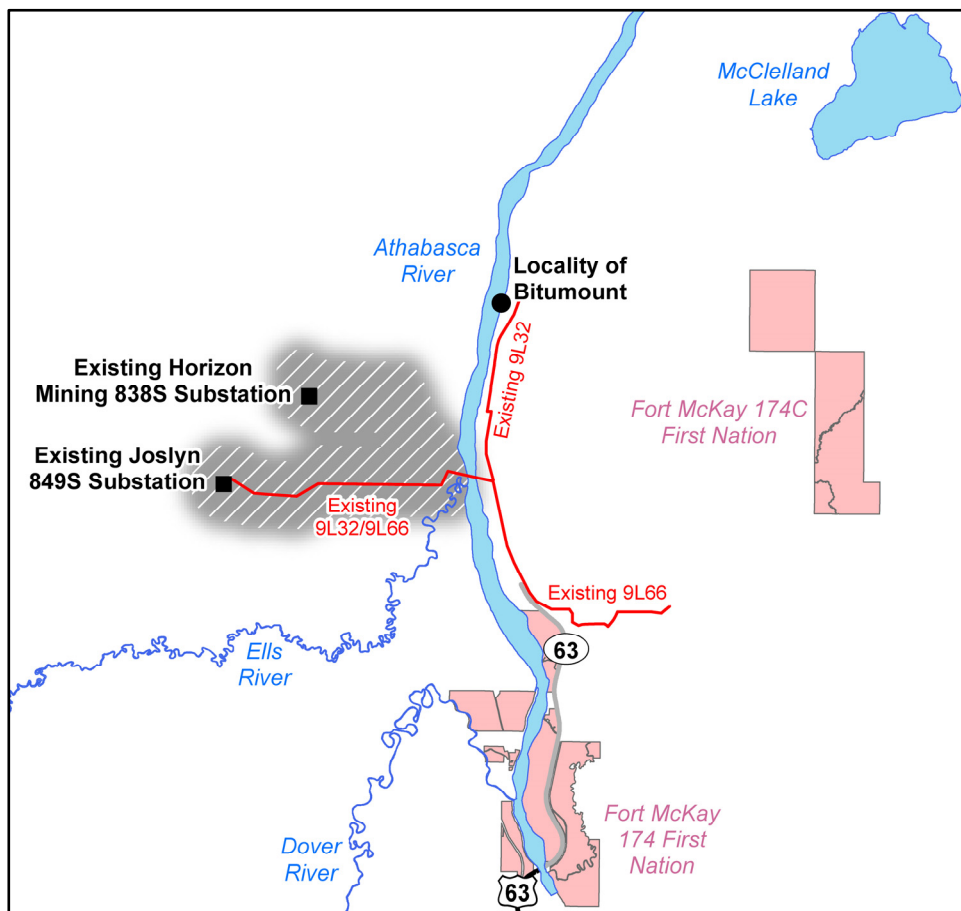


Notification of Needs Identification Document Filing Addressing the Need for the Horizon Mining 838S Substation Modification in the Fort MacKay Area

The Alberta Electric System Operator (AESO) advises you that it intends to file a Needs Identification Document (NID) for the Horizon Mining 838S Substation Modification with the Alberta Utilities Commission (AUC) on or after May 4, 2021.

Canadian Natural Resources Limited (CNRL) has applied to the AESO for transmission system access to relocate an existing 240 kV transmission line in the Fort MacKay area. CNRL's request can be met by the following solution:

- Modify the existing Horizon Mining 838S substation including adding six 240 kV circuit breakers.
- Add two segments of 240 kV transmission line (9L32 and 9L66) between the Horizon Mining 838S substation and the existing 240 kV transmission lines 9L32 and 9L66.
- Remove a segment of the existing 240 kV transmission lines 9L32 and 9L66 between the existing Joslyn 849S substation and the connection point with the new segments of 9L32 and 9L66.
- Add or modify associated equipment as required for the above transmission developments.



The black squares on the map indicate the approximate location of the existing Horizon Mining 838S and Joslyn 849S substations, which is at SE-24-96-12W4 and NW-3-96-12W4. The grey shaded area on the map indicates the approximate location of the proposed transmission developments, including the 240 kV transmission lines. The specific transmission facilities may extend beyond the grey shaded area shown.

ATCO Electric Ltd. is the transmission facility owner (TFO) in the Fort MacKay area. In November 2020, the AESO and the TFO began presenting this need to stakeholders, including residents, occupants, and landowners. The AESO will apply to the AUC for approval of the need for this transmission development. Once filed with the AUC, the NID will be posted on the AESO website at <https://www.aeso.ca/grid/projects/horizon-mining-838s-substation-modification/>

In a separate application, called a Facility Application, the TFO will provide more details about the specific facilities associated with the AESO's proposed transmission development, and will request AUC approval to construct and operate these facilities.

For more information, please visit our website, www.aeso.ca or contact us at 1-888-866-2959 or stakeholder.relations@aes0.ca.