

# Power Plant Approval 28964-D02-2024

Appendix 1 to Decision 28964-D01-2024

July 12, 2024

Kiwetinohk Energy Corp.  
Black Bear Combined-Cycle Power Plant

Proceeding 28964  
Application 28964-A001

Kiwetinohk Energy Corp. (KEC), by Application 28964-A001, registered on April 8, 2024, applied to the Alberta Utilities Commission for approval to construct and operate a 460-megawatt (MW) combined-cycle power plant approximately 24 kilometres southwest of Swan Hills.

The Commission, pursuant to sections 11 and 19 of the *Hydro and Electric Energy Act*, approved the application in Decision 28964-D01-2024,<sup>1</sup> and granted to KEC an approval to construct and operate the power plant, subject to the provisions of the *Hydro and Electric Energy Act* and the *Alberta Utilities Commission Act*, any regulations made under the acts, any orders made under the acts, the Commission rules made pursuant to the *Alberta Utilities Commission Act*, and the following terms and conditions:

1. The power plant shall be located in the southeast and southwest quarters of Section 15, Township 64, Range 11, west of the Fifth Meridian.
2. The power plant shall contain one Siemens STG6-9000HL natural gas-fired combustion turbine, one heat recovery steam generator, one Siemens SST-5000 steam turbine.
3. The approval is subject to the following conditions, which have been described in Decision 28964-D01-2024:
  - a. Kiwetinohk Energy Corp. shall file Alberta Environment and Protected Areas' final *Environmental Protection and Enhancement Act* industrial application approval with the Commission by October 12, 2024.
  - b. Kiwetinohk Energy Corp. shall file the outcome of any project review by the Impact Assessment Agency of Canada with the Commission by January 31, 2025.
  - c. During project construction, Kiwetinohk Energy Corp. shall implement noise mitigation measures to the heat recovery steam generator stack, as described in exhibits 28964-X0013 and 28964-X0023, or comparable measures, to achieve compliance of the project with Rule 012: *Noise Control*. Within one month of the project commencing operations, KEC shall submit a letter to the Commission

<sup>1</sup> Decision 28964-D01-2024: Kiwetinohk Energy Corp. - Black Bear Combined-Cycle Power Plant and Substation, Proceeding 28964, Applications 28964-A001 and 28964-A002, July 12, 2024.

detailing the configuration and material of the mitigation measures that KEC has implemented.

- d. Kiwetinohk Energy Corp. shall conduct a post-construction near-field sound level survey at the project. The near-field survey shall characterize sound emissions from the heat recovery steam generator stack and evaluate the effectiveness of the noise mitigation measures implemented to this stack. Within one year of the project commencing operations, Kiwetinohk Energy Corp. shall file a report with the Commission summarizing measurements and results of the post-construction near-field sound level survey.
  - e. Kiwetinohk Energy Corp. shall conduct a post-construction comprehensive sound level survey, including an evaluation of low frequency noise, at the most affected receptors along the 1.5 km boundary, BR1 and BR2. The post-construction comprehensive sound level survey must be conducted with all generating units operating simultaneously at full capacity and in accordance with Rule 012: *Noise Control*. Within one year of the project commencing operations, Kiwetinohk Energy Corp. shall file a report with the Commission presenting measurements and summarizing results of the post-construction comprehensive sound level survey.
4. KEC shall notify the Commission within 30 days of completing the power plant.
  5. Unless otherwise authorized by the Commission, the power plant shall be completed by December 31, 2028.
  6. KEC shall obtain Commission approval prior to making any material changes to the power plant or substantially varying the design and/or specifications of the power plant from what was stated in the application or from what the Commission has approved.
  7. This approval is not transferable unless approved by the Commission.

The Commission may cancel or suspend this approval, in whole or in part, in accordance with Section 41 of the *Hydro and Electric Energy Act* or may review this approval, in whole or in part, upon its own motion or upon an application by an interested party, in accordance with Section 10 of the *Alberta Utilities Commission Act*.

The Commission may, no later than 60 days of the date of this approval and without notice, correct typographical, spelling and calculation errors and other similar types of errors and post the corrected approval on its website.

### **Alberta Utilities Commission**

*(original signed by)*

Matthew Oliver, CD  
Commission Member