AUC
Alberta Utilities Commission

October 7, 2024 **Decision 29356-D01-2024**

Fire Technology Corp.
571 Wentworth Place S.W.
Calgary, Alta. T3H 4L6

Attention: Zhixiang Zhang
President

9.9-Megawatt Natural Gas-Fired Power Plant
Proceeding 29356
Application 29356-A001

Power plant application

1. Fire Technology Corp., by Application 29356-A001, registered on September 27, 2024, applied to the Alberta Utilities Commission for approval to construct and operate a 9.9-megawatt (MW) natural gas-fired thermal power plant, located in Stettler County No. 6.

2. The power plant will consist of nine 1.1-MW generating units for a total capability of 9.9 MW. Fire stated that the power plant will be located within an existing oil and gas lease, owned by Ember Resources. A natural gas compressor station, operated by Ember Resources, currently located on site will be the source of the natural gas required by the power plant.

3. Fire stated that construction is scheduled to commence on August 1, 2025, and be completed on November 30, 2025, and that the in-service date is anticipated to be December 1, 2025.

4. As part of the checklist application, Fire provided a noise impact assessment (NIA) prepared by Patching Associates Acoustical Engineering Ltd. and a Keyhole Markup Language (.kmz) map file.

5. The NIA concluded that the nighttime cumulative sound level at the most affected receptor, R01, is 39.2 dBA which is compliant with the nighttime permissible sound level of Rule 012: *Noise Control*. At Receptor R01, the noise level from the project is predicted to be greater than the assumed ambient sound level and greater than the noise levels from the baseline case facilities. The NIA recommended the following noise mitigation measures be implemented for the power plant:

- To install sound attenuated enclosures for the proposed gensets.
- To house the mining equipment in self-contained mining containers.

6. Given that the cumulative sound level is predicted to be close to the nighttime permissible sound level at the most affected receptor and that the NIA results were premised upon the implementation of noise mitigation measures, the Commission imposes the following conditions of approval:

a. Fire shall implement the mitigation measures as recommended in the project's noise impact assessment or alternative mitigation measures that meet or exceed the acoustic specifications described in the noise impact assessment, to ensure the power plant complies with Rule 012: *Noise Control*. Within 30 days after the construction completion date, Fire shall file a report with the Commission detailing the mitigation measures it has implemented.

b. Fire shall conduct a post-construction comprehensive sound level (CSL) survey, including an evaluation of low frequency noise at the most affected receptor, R01. The post-construction CSL survey must be conducted under representative conditions of the project and the Ember Resources compressor station and in accordance with Rule 012: *Noise Control*. Within one year after the project commences operations, Fire shall file a report with the Commission presenting measurements and summarizing results of the post-construction CSL survey.

7. Fire has provided information respecting the nature, extent, location, ownership and the timing of the power plant. Fire confirmed that it will fulfil the requirements of all other agencies with jurisdiction over the project. Fire has confirmed that the power plant will comply with Rule 012, no other person is directly and adversely affected by the power plant and no adverse environmental impact will be caused by the power plant.

8. The Commission approves the power plant. Approval 29356-D02-2024 is attached.

9. The Commission's approval of the application is solely for the electrical components that comprise the power plant equipment. The Commission has no approval authority over the cryptocurrency mining and data centre operations.

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

Alberta Utilities Commission

(original signed by)

Rita Chan
Director – Power Plants, Facilities Division
On behalf of the Alberta Utilities Commission

Attachment