

ENVIRONMENTAL PROTECTION NOTICE

Application for a Permit Under The Provisions of the *Environmental Management Act*

Aitken Creek Gas Storage Ltd. intends to submit an amendment application to the Director to update the authorized discharge of air emissions from the Aitken Creek Gas Storage Facility (facility code 160 & 161). The existing permit (PA-08462) was issued on December 6, 1989, and amended on March 16, 2001, under the provisions of the Waste Management Act which is now superseded by the Environmental Management Act.

The following equipment has been decommissioned:

- “B” Vapor Recovery standby compressor drive
- “C” booster standby compressor drive
- Generator Drive (Waukesha VGR330U)
- K920 recycle compressor drive
- K930 standby recycle compressor drive
- G-1 Generator drive Waukesha VHP5108G
- Standby G-2 generator drive CAT398NA
- Standby G-3 generator drive Waukesha VHPL7042G
- Standby G-4 generator drive Waukesha VHPL7042G
- One Glycol Regeneration Unit

The following new or updated equipment will be included as authorized discharges:

New Equipment:

- Three 642 kW generator drive
- Two 242 kW recycle compressor drive (one as backup unit)
- One H-100 hot oil heaters
- One H-2500 hot oil heaters
- Two flare stacks
- One 258 kW diesel standby generator
- One reboiler, one line heater and incinerator which are disaggregated from the Glycol/ Selexol Regeneration Unit
- One glycol dehydration regeneration incinerator

Updated Equipment:

- Three 1977 kW sales injection compressor drive
- One 3728 kW compressor drive
- One 293 kW oil treater
- One 293 kW hot oil heater
- One flare stack
- Two 1930 kW sales injection compressor drivers
- Two 557 kW refrigeration compressor drivers
- Five 1930 kW booster compressor drivers
- One 14.1 MW Turbine compressor driver

The land upon which the facility is situated, and the discharge will occur is d-44-L/94-A-13, Parcel A, Plan PGP4662, District Lot 3964 & 4013, Peace River Land District and Lot 1 Plan BCP4381, District Lot 794 & 4088, Peace River Land District. The facility is located 100 kilometres (km) northwest of Fort St John, British Columbia (BC).

The maximum total discharge rate of air emissions from all equipment at this facility will be $308.34 \times 10^3 \text{ m}^3/\text{h}$ (@1 atm, 20 °C, dry). The operating period for this facility is 24 hours/day, 7 days/week. The characteristics of the discharged are that of sweet natural gas combustion and include emissions of oxides of nitrogen (NO_x), sulphur dioxide (SO_2), particulate matter ($\text{PM}_{2.5}$), carbon monoxide (CO), and volatile organic compounds (VOC). Maximum emission rates from all equipment at this facility will be as follows.

- NO_x 31.72 g/s
- SO_2 0.18 g/s
- $\text{PM}_{2.5}$ 1.17 g/s
- CO 118.79 g/s
- VOC 3.59 g/s

The type of treatment applied to the discharge include,

- NO_x emissions control for the turbine compressors and reciprocating engine power generators to meet requirements of the *Guidelines for the Reduction of Nitrogen Oxide Emissions from Natural Gas – fuelled Stationary Combustion Turbines and the Multi-Sector Air Pollutant Regulation, respectively.*

Air quality dispersion modelling of facility NO_x emissions predicts that values greater than the provincial ambient air objective may occur within approximately 100 m of the facility and neighbour facility fencelines, over a localized area of about 2 ha. However, NO_2 concentrations decrease rapidly with distance from the emission sources.

Enbridge has completed the installation of the Air-Fuel-Ratio control system on the three sales injection compressor drive units and catalyst treatment for two refrigeration compressor drive units. This will result in a substantial NO_x reduction at the facility and will meet the NO_x requirement of Multi-Sector Air Pollutant Regulation.

Any person who may be adversely affected by the proposed discharge of waste and wishes to provide relevant information may, within 30 days after the last date of posting, publishing, service or display, send written comments to the applicant, with a copy to the Director, Environmental Stewardship, at the BC Energy Regulator, 6534 100th Avenue, Fort St. John, B.C, V1J 8C5, or email Waste.Management@bc-er.ca. The identity of any respondents and the contents of anything submitted in relation to this application will become part of the public record.

Dated this 1 day of October, 2025

Jade Rowe


(Signature)

Contact person: Jonathan Wright Telephone No.: 403-5429355

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