

217/782-2113

JOINT CONSTRUCTION AND LIFETIME OPERATING PERMIT

PERMITTEE

Illinois Municipal Electric Agency, Flora Diesel Generators
Attn: Mr. Tom VonDeBur, Operations Engineer
919 South Spring Street
Springfield, Illinois 62704

Application No.: 00020016

I.D. No.: 025010ABM

Applicant's Designation: FLORA-GEN

Date Received: February 4, 2000

Subject: Electric Generators

Date Issued: March 31, 2000

Operating Permit Expiration

Date: See Condition 1.

Location: # 2 Commercial Drive, Flora (Stanford), Clay County

This permit is hereby granted to the above-designated Permittee to CONSTRUCT and OPERATE emission unit(s) and/or air pollution control equipment consisting of:

An Electric Power Plant, Including 5 Internal Combustion Engines that Fire #2 Distillate Diesel Fuel, Nominal Capacity 1,825 Kwe Each (Units FG1, FG2, FG3, FG4 and FG5)

pursuant to the above-referenced application. This permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. Operation of the emission units included in this permit shall not begin until all associated air pollution control equipment has been constructed and is operational.
- b. This operating permit shall expire 180 days after the Illinois EPA sends a written request for the renewal of this permit.
- c. This permit shall terminate if it is withdrawn or is superseded by a revised permit.
- 2a. This permit is issued based on these internal combustion engine generators being operated for emergency purposes, operating when other resources are not available to meet electric loads and as needed to assure availability of reserve electric power.
- b. This permit is issued based on this source not being a CAAPP source as a result of the installation of these engines, because the potential emission of the source remain below the applicability thresholds of the CAAPP (Refer to Section 39.5(5) of the Act).

- 3a. The Permittee shall not operate more than 5 engines at any time. However, the Permittee may exchange and replace engines with Caterpillar Model 3516B engines, as originally installed, during the initial five years of this permit, i.e., until March 31, 2005.
- b. The annual consumption of fuel by the engines shall not exceed 322,500 gallons. This limit is based on firing 129 gallons per hour of oil and operation for 500 hours per year per engine, as indicated in the application. Compliance with this limitation shall be determined on a monthly basis from a running total of 12 months of data.
- c. Each engine shall not emit more than 57.0, 15.1, 0.88, 1.60 and 1.78 lbs/hour of nitrogen oxides (NO_x), carbon monoxide (CO), sulfur dioxide (SO₂), volatile organic material as hydrocarbon (TOC) and particulate matter (PM), respectively. These limits represent short-term emission limits based on data from representative testing performed by the manufacturer/supplier of the engines.
- d. Emissions from all 5 internal combustion engines combined, shall not exceed the following limits:

<u>NO_x</u> <u>(Ton/Yr)</u>	<u>CO</u> <u>(Ton/Yr)</u>	<u>SO₂</u> <u>(Ton/Yr)</u>	<u>TOC</u> <u>(Ton/Yr)</u>	<u>PM</u> <u>(Ton/Yr)</u>
71.2	18.9	1.12	2.00	2.22

These limits are based on the above hourly emission rates and operation of 500 hours per unit for a total of 2,500 hours operation per year. Compliance with annual limits shall be determined from a running total of 12 months of data.

- 4a. Fuels with a sulfur content greater than 0.05 weight percent shall not be fired in these engines, pursuant to the Permittee's representation that the units are exempt from the Acid Rain Program by meeting the new units exemption requirement of 40 CFR 72.7(a). The units are subject to the Acid Rain Program Provision of 40 CFR 72.2 through 72.7 and 72.10 through 72.13.
- b. The Illinois EPA shall be allowed to sample all fuels stored at the source.
- 5a. The Permittee shall maintain the following records for the engines:
 - i. A listing of the engines at the site, by serial number, with dates of installation and removal.
 - ii. A maintenance/repair log for each engine.

- b. The Permittee shall maintain the following operating records for the source:
 - i. Records for each shipment of fuel oil received, the amount, maximum sulfur content, and supplier.
 - ii. The sulfur content of the fuel oil supply to the engines, based on the weighted average of material in the storage tank, or the sulfur content of the supply shall be assumed to be the highest sulfur content in any shipment in the tank.
 - iii. Monthly and annual records of hours of operation of each engine and total hours of operation.
 - iv. Monthly and annual records of fuel consumption by the engines.
6. All records required by this permit shall be retained by the Permittee for at least three years and shall be readily available for inspections and copying by the Illinois EPA upon request.
7. If there is an exceedance of the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.
8. Two (2) copies of required reports and notifications concerning equipment operation or repairs, performance testing or a continuous monitoring system shall be sent to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

and one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency
Division of Air Pollution Control
2009 Mall Street
Collinsville, Illinois 62234

9. Persons with lifetime operating permits must obtain a revised permit for any of the following changes at the source:

- a. An increase in emissions above the amount the emission unit or the source is permitted to emit;
 - b. A modification;
 - c. A change in operations that will result in the source's noncompliance with conditions in the existing permit; or
 - d. A change in ownership, company name, or address, so that the application or existing permit is not longer accurate.
10. Notwithstanding Standard Condition 3(b), this permit shall only expire if the Permittee removes all the engines from the site for more than one year (12 months) and the Permittee fails to provide notice to the Illinois EPA that it is maintaining the facility in condition to be returned to service, which notice shall be provided on an annual basis.

It should be noted that the associated fuel oil storage tanks are exempt from state permit requirements, pursuant to 35 Ill. Adm. Code 201.146.

If you have any questions on this permit, please contact Youra Benofamil at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:YB:psj

cc: Region 3