

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT  
RENEWAL

PERMITTEE

Lake Land College  
Attn: Durward Askew  
5001 Lake Land Boulevard  
Mattoon, Illinois 61938

Application No.: 75010022

I.D. No.: 029809AAB

Applicant's Designation: B0096554

Date Received: January 14, 2000

Subject: Boilers and Generator

Date Issued: June 5, 2000

Expiration Date: June 5, 2005

Location: 5001 Lake Land Boulevard, Mattoon

This permit is hereby granted to the above-designated Permittee to OPERATE emission unit(s) and/or air pollution control equipment consisting of two natural-gas-fired boilers and one oil-fired generator pursuant to the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. This federally enforceable state operating permit is issued to limit the emissions of air pollutants from the source to less than major source thresholds (i.e., less than 100 tons per year of nitrogen oxides, carbon monoxide and sulfur dioxide). As a result the source is excluded from the requirement to obtain a Clean Air Act Permit Program (CAAPP) permit. The maximum emissions of this source, as limited by the conditions of this permit, are described in Attachment A.
- b. Prior to issuance, a draft of this permit has undergone a public notice and comment period.
- c. This permit supersedes all operating permits issued for this location.
2. The emissions from this facility shall not exceed the following limits:  
Nitrogen Oxide (NO<sub>x</sub>): 2700 lbs/month, and 16.6 tons/year.
- 3a. Operation of the two boilers shall not exceed the following limits:  
Natural Gas Usage: 20 x 10<sup>6</sup> scf/month, and 147 x 10<sup>6</sup> scf/year.
- b. This permit is issued based on the usage of natural gas as the only fuel combusted in the boilers. Use of any other fuel in this equipment will require a revision of this permit.

4a. Operation of the diesel generator shall not exceed the following limits:

Fuel Oil Usage: 30,000 gallon/year.

- b. This permit is issued based on the use of a 50/50 blend (by volume) of No. 1 and No. 2 fuel oils as the only fuel combusted in the generator. Use of any other fuel in this equipment will require a revision of this permit.
- c. Organic liquid by-products or waste materials shall not be used at the above location.
- d. The Illinois EPA shall be allowed to sample all fuels stored at the above location.

5. Compliance with annual limits shall be determined from a running total of twelve months of data.

6. At all times, the Permittee shall to the extent practicable, maintain and operate the above-referenced emission sources, in a manner consistent with good air pollution control practice for minimizing emissions.

- a. Natural gas usage for each emission unit covered by this permit ( $10^6$  scf/month and  $10^6$  scf/year);
- b. Fuel oil usage for each emission unit covered by this permit ( $10^3$  gallon/month and  $10^3$  gallon/year);
- c. Hours of operation for the generator including startup and shutdown time;
- d. Fuel analysis sheets indicating sulfur content and Btu value for each shipment of fuel oil; and
- e.  $SO_2$ , CO and  $NO_x$  emissions (as calculated by AP-42 emission factors and the actual natural gas and fuel oil usage) in terms of lbs/month and lbs/year).

7a. Within 30 days of a written request from the Illinois EPA, the Permittee shall submit data on the sulfur content by weight of representative fuel oil, determined by laboratory analysis.

- b. The submitted data shall include the sulfur content by weight of the fuel oil, a justification of why it is a representative sample, and a description of the sampling procedures and documentation for the analysis.

- c. The Illinois EPA may provide additional time to perform testing upon receipt of a written request from the Permittee which shows that it is not feasible to perform the representative testing within the 30 day period.
- 8. The sulfur content of fuel oil shall not exceed 0.28 wt. percent.
- 9. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA or USEPA request for records during the course of a source inspection.
- 10. 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.
- 11. 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

- 12. The Permittee shall submit the following additional information with the Annual Emissions Report, due May 1st of each year: natural gas usage, fuel oil usage, sulfur dioxide, carbon monoxide, and nitrogen oxide emissions from the prior calendar year.

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If you have any questions on this, please call John Blazis at 217/782-2113.

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

DES:JPB:psj

cc: Illinois EPA, FOS Region 3  
Illinois EPA, Compliance Section  
Lotus Notes

Attachment A - Emission Summary

This attachment provides a summary of the maximum emissions from the boilers and generators operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Illinois EPA used the annual operating scenario which results in maximum emissions from such a plant. The resulting maximum emissions are well below the levels, i.e., less than 100 tons per year of nitrogen oxides, carbon monoxide and sulfur dioxide at which this source would be considered a major source for purposes of the Clean Air Act Permit Program. Actual emissions from this source will be less than predicted in this summary to the extent that less material is handled, and control measures are more effective than required in this permit.

1. Natural gas combustion emissions of nitrogen oxide (NO<sub>x</sub>), carbon monoxide (CO), volatile organic material (VOM), sulfur dioxide (SO<sub>2</sub>), and particulate matter (PM) from the boiler:

<u>Pollutant</u>	<u>Fuel Usage (10<sup>6</sup> scf/yr)</u>	<u>Emission Factor (lb/10<sup>6</sup> scf)</u>	<u>Emissions (tons/year)</u>
NO <sub>x</sub>	147	140.0	10.26
CO	147	35.0	2.57
VOM	147	2.8	0.21
SO <sub>2</sub>	147	0.6	0.04
PM	147	6.2	0.45

This table defines the maximum actual emissions of the two boilers and are based on the combined natural gas combusted and standard emission factors at the maximum annual fuel usage indicated in the permit application.

2. Fuel oil combustion emissions of nitrogen oxide (NO<sub>x</sub>), carbon monoxide (CO), volatile organic material (VOM), sulfur dioxide (SO<sub>2</sub>), and particulate matter (PM) from the emergency diesel generator:

<u>Pollutant</u>	<u>Fuel Usage (10<sup>3</sup> gal/yr)</u>	<u>Emission Factor (lb/10<sup>3</sup> gal)</u>	<u>Emissions (tons/year)</u>
NO <sub>x</sub>	30	604.2	6.36
CO	30	130.2	1.66
VOM	30	48.0	0.18
SO <sub>2</sub>	30	39.7	0.58
PM	30	42.5	0.13

This table defines the maximum actual emissions from the generators and are based on the type and quantity of fuel fired and on standard emission factors at the maximum annual fuel usage indicated in the permit application.