

- 3a. The only fuel fired in turbines shall be natural gas and the only fuel used for the engines shall be distillate fuel oil.
- b. The sulfur content of the diesel fuel oil shall not exceed 0.36 weight percent.
4. Emissions of volatile organic material (VOM) from storage and handling of fuel oil shall not exceed 2.0 ton per year. This limit is based on standard USEPA emission factors for breathing and working losses and information provided in the permit application.
5. The emissions of Hazardous Air Pollutants (HAPs) as listed in Section 112(b) of the Clean Air Act shall not equal or exceed 10 tons per year of any single HAP or 25 tons per year of any combination of such HAPs, or such lesser quantity as USEPA may establish in rule which would require the Permittee to obtain a CAAPP permit from the Illinois EPA. As a result of this condition, this permit is issued based on the emissions of any HAP from this source not triggering the requirement to obtain a CAAPP permit from the Illinois EPA.
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.
7. Organic liquid by-products or waste materials shall not be used in any internal combustion gas turbine and engine without written approval from the Illinois EPA.
8. The Illinois EPA shall be allowed to sample all fuels stored at the above location.
9. The Permittee shall maintain records of the following items:
 - a. Fuel usage for the gas turbines (mmscf/month and mmscf/year);
 - b. Fuel usage for the diesel engines (gallons/month and gallons/year);
 - c. Hours of operation for each unit (hours/month and hours/year) including startup and shutdown time; and
 - d. Fuel analysis sheets indicating the sulfur content and Btu value for each shipment of fuel.
10. 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.

- 11a. The Permittee shall submit an Annual Emissions Statement to the Agency by May 1st of each year. This report shall include as a minimum: fuel oil consumption, natural gas consumption, and emissions of Nitrogen Oxide, Carbon Monoxide, and Sulfur Dioxide. If there have been no exceedance during the prior calendar year, the Annual Emissions Statement shall include a statement to that effect.
- b. 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.
12. 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

Telephone: 217/782-5811 Facsimile: 217/782-6348

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
5415 North University
Peoria, Illinois 61614

Telephone: 309/693-5461 Facsimile: 309/693-5467

If you have any questions concerning 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:jar

cc: Illinois EPA, Region 2
Illinois EPA, Compliance Section
Lotus Notes

I.D. No.: 143065AMW
Application No.: 73010481
Facility: AES/CILCO

Attachment A

This attachment provides a summary of the maximum emissions from the source operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Illinois EPA used the annual operating scenario that results in maximum emissions from this source. This is handling 576 mmscf/year of natural gas and 1,825 gallons of distillate fuel oil. The resulting maximum emissions are well below the levels, e.g., 100 tons per year of NO_x 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 Fired Turbines:

Limit on Total Fuel Usage: 576 mmscf/Year

<u>Pollutant</u>	<u>Emission Rate (Lb/mmBtu)</u>	<u>Emissions (Ton/Yr)</u>
NO _x	0.32	94.00
CO	0.082	24.09
SO ₂	0.00085	0.25
VOM	0.011	3.23
PM	0.0066	1.94

These emissions reflect, AP-42 emission factors for internal combustion units, and a heat content of 1,020 Btu/scf for natural gas fuel.

2. Diesel Engines:

Limit on Total Fuel Usage: 1,825 Gallons/Year

<u>Pollutant</u>	<u>Emission Rate (Lb/mmBtu)</u>	<u>Emissions (Tons/Yr)</u>
NO _x	4.41	0.57
CO	0.95	0.12
SO ₂	0.29	0.04
VOM	0.36	0.05
PM	0.31	0.04

These emissions reflect AP-42 emission factors for internal combustion units and a conversion factor of 19,430 Btu per pound of distillate oil.

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