

- c. Combined fuel usage and fuel combustion emissions from the 3 small boilers (with firing rate less than 10 mmBtu/hr) shall not exceed the following limits:

<u>Pollutant</u>	<u>Fuel Usage</u>		<u>Emission Factor</u> (Lb/10 ³ Therm)	<u>Emissions</u>	
	(10 ³ Therm/Mo)	(10 ³ Therm/Yr)		(T/Mo)	(T/Yr)
NO _x	242	2,420	10.0	1.21	12.10
CO	242	2,420	2.1	0.25	2.54
PM	242	2,420	1.2	0.15	1.45

- d. These limits are based upon the maximum total natural gas usage indicated in the permit application and standard AP-42 emission factors as indicated above. A conversion factor of 100 scf/therm was used.

- 3a. Diesel fuel oil shall be the only fuel(s) fired in the 4 emergency generators.

- b. The operating hours and emissions from Generator #1 shall not exceed the following limits:

<u>Pollutant</u>	<u>Power Output</u>	<u>Emission Factor</u> (Lb/Hp-Hr)	<u>Operating Hours</u>		<u>Emissions</u>	
	(Hp)		(Hr/Mo)	(Hr/Yr)	(T/Mo)	(T/Yr)
NO _x	2,010	0.03100	750	750	23.37	23.37
CO	2,010	0.00668	750	750	5.04	5.04
VOM	2,010	0.00251	750	750	1.89	1.89
SO ₂	2,010	0.00205	750	750	1.55	1.55
PM	2,010	0.00220	750	750	1.66	1.66

- c. The operating hours and combined emissions from Generators #2, #3, and #4 shall not exceed the following limits:

<u>Pollutant</u>	<u>Combined Power Output</u>	<u>Emission Factor</u> (Lb/Hp-Hr)	<u>Operating Hours of Each Generator</u>		<u>Emissions</u>	
	(Hp)		(Hr/Mo)	(Hr/Yr)	(T/Mo)	(T/Yr)
NO _x	8,300	0.03100	125	125	16.08	16.08
CO	8,300	0.00668	125	125	3.47	3.47
VOM	8,300	0.00251	125	125	1.30	1.30
SO ₂	8,300	0.00205	125	125	1.06	1.06
PM	8,300	0.00220	125	125	1.14	1.14

- d. These limits are based upon the combined maximum fuel input and maximum hours of operation as indicated in the permit application, and standard AP-42 emission factors as indicated above.

4. Compliance with annual limits shall be determined on a monthly basis from a running total of 12 months of data (i.e., the sum of the data from the previous month plus the preceding 11 months).
- 5a. The Permittee shall maintain records of the following items for the facility:
 - i. Natural gas usage (therm/month and therm/year) for the 5 large boilers.
 - ii. Natural gas usage (therm/month and therm/year) for the 2 small boilers.
 - iii. Operating hours (hour/month and hour/year) of each of the 4 emergency generators.
- b. 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.
6. 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.
7. This permit is issued based on negligible emissions of volatile organic material from each storage tank. For this purpose, emissions from each tank shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/year.
8. The gasoline storage tank shall comply with the following requirements of 35 Ill. Adm. Code Part 218, Subpart Y: GASOLINE DISTRIBUTION, Section 218.583 Gasoline Dispensing Operations - Storage Tank Filling Operations:
 - a. The tank is equipped with a submerged loading pipe;
 - b. The vapors displaced from the storage tank during filling are processed by a vapor collection system;

- c. All tank vent pipes are equipped with pressure/vacuum relief valves with the following design specifications:
 - i. The pressure/vacuum relief valve shall be set to resist a pressure of at least 3.5 inches water column and to resist a vacuum of no less than 6.0 inches water column;
 - ii. The owner or operator of a gasoline dispensing operation demonstrates compliance with subsection 2(c)(i) above, at least annually, by measuring and recording the pressure indicated by a pressure/vacuum gauge at each tank vent pipe. The test shall be performed on each tank vent pipe within two hours after product delivery into the respective storage tank. For manifold tank vent systems, observations at any point within the system shall be adequate. The owner and operator shall maintain any records required by this subsection for a period of three years.
- 9. The Permittee shall submit the following additional information with the Annual Emissions Report, due May 1st of each year:
 - a. Natural gas usage (therm/year) for the 5 large boilers.
 - b. Natural gas usage (therm/year) for the 4 small boilers.
 - c. Operating hours (hour/year) of each of the 5 emergency generators.

If there have been no exceedances during the prior calendar year, the Annual Emission Report shall include a statement to that effect.

- 10. 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)
1340 North Ninth Street
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
Eisenhower Tower
1701 South First Avenue
Maywood, Illinois 60153

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It should be noted that this permit has been revised to no longer include operation of two boilers and one diesel engine.

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

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

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cc: Illinois EPA, FOS Region 1
Illinois EPA, Compliance Section
Lotus Notes

Attachment A - Emission Summary

This attachment provides a summary of the maximum emissions from the boilers, emergency generators, and storage tanks 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. This is a maximum usage of natural gas for the boilers and maximum operating hours for the generators. The resulting maximum emissions are well below the level, 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. Emissions from the 4 large boilers (greater than 10 mmBtu/hr):

<u>Pollutant</u>	<u>Fuel Usage</u>		<u>Emission</u>	<u>Emissions</u>	
	<u>(10³ Therm/Mo)</u>	<u>(10³ Therm/Yr)</u>	<u>Factor</u>	<u>(T/Mo)</u>	<u>(T/Yr)</u>
NO _x	527	5,270	14.0	3.69	36.89
CO	527	5,270	3.5	0.92	9.22
PM	527	5,270	1.4	0.37	3.69

2. Emissions from the 3 small boilers (less than 10 mmBtu/hr):

<u>Pollutant</u>	<u>Fuel Usage</u>		<u>Emission</u>	<u>Emissions</u>	
	<u>(10³ Therm/Mo)</u>	<u>(10³ Therm/Yr)</u>	<u>Factor</u>	<u>(T/Mo)</u>	<u>(T/Yr)</u>
NO _x	242	2,420	10.0	1.21	12.10
CO	242	2,420	2.1	0.25	2.54
PM	242	2,420	1.2	0.15	1.45

3. Emissions from Generator #1:

<u>Pollutant</u>	<u>Power Output</u>	<u>Emission Factor</u>	<u>Operating Hours</u>		<u>Emissions</u>	
	<u>(Hp)</u>	<u>(Lb/Hp-Hr)</u>	<u>(Hr/Mo)</u>	<u>(Hr/Yr)</u>	<u>(T/Mo)</u>	<u>(T/Yr)</u>
NO _x	2,010	0.03100	750	750	23.37	23.37
CO	2,010	0.00668	750	750	5.04	5.04
VOM	2,010	0.00251	750	750	1.89	1.89
SO ₂	2,010	0.00205	750	750	1.55	1.55
PM	2,010	0.00220	750	750	1.66	1.66

4. Emissions from Generators #2, #3, and #4:

<u>Pollutant</u>	<u>Combined</u>		<u>Operating Hours</u>		<u>Emissions</u>	
	<u>Power Output</u> <u>(Hp)</u>	<u>Emission Factor</u> <u>(Lb/Hp-Hr)</u>	<u>of Each Generator</u> <u>(Hr/Mo)</u>	<u>(Hr/Yr)</u>	<u>(T/Mo)</u>	<u>(T/Yr)</u>
NO _x	8,300	0.03100	125	125	16.08	16.08
CO	8,300	0.00668	125	125	3.47	3.47
VOM	8,300	0.00251	125	125	1.30	1.30
SO ₂	8,300	0.00205	125	125	1.06	1.06
PM	8,300	0.00220	125	125	1.14	1.14

5. This permit is issued based on negligible emissions of volatile organic material from each storage tank. For this purpose, emissions from each tank shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/year.

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