



3. Operation and emissions of the fuel combustion equipment shall not exceed the following limits:

a. Boilers (combined):

Natural Gas Usage: 88 mmscf/Mo, 374 mmscf/Yr

<u>Pollutant</u>	<u>Emission Factor</u> (lb/mmscf)	<u>Emissions</u>	
		(Ton/Mo)	(Ton/Yr)
Nitrogen Oxides (NO <sub>x</sub> )	100	4.4	18.7
Carbon Monoxide (CO)	84	3.6	15.7
Particulate Matter (PM)	7.6	0.3	1.1
Volatile Organic Materials (VOM)	5.5	0.2	0.8

b. Natural gas fired engines (combined):

Natural Gas Usage: 1.5 mmscf/month, 1.5 mmscf/year

<u>Pollutant</u>	<u>Emission Factor</u>		<u>Emissions</u>	
	(Ton/Mo)	(Ton/Yr)	(Lb/mmscf)	
Nitrogen Oxide (NO <sub>x</sub> )	4,598		3.4	3.4
Carbon Monoxide (CO)	7,739		5.8	5.8
Volatile Organic Material (VOM)	619		0.5	0.5

c. Diesel engines (combined):

Diesel fuel usage 280,000 gal/Mo, 280,000 gal/Yr

<u>Pollutant</u>	<u>Emission Factor</u> (Lb/10 <sup>3</sup> gal)	<u>Emissions</u>	
		(Ton/Mo)	(Ton/Yr)
Nitrogen Oxide (NO <sub>x</sub> )	444.0	62.2	62.2
Carbon Monoxide (CO)	99.0	13.9	13.9
Sulphur Dioxide (SO <sub>2</sub> )	7.1	1.0	1.0
Particulate Matter (PM)	7.3	1.0	1.0
Volatile Organic Material (VOM)	2.3	0.3	0.3

These limits define potential emissions and are based on the standard emission factors for the boilers, manufacturers= emission factors for the engines and maximum sulphur content of diesel fuel 0.05%. Compliance with annual limits shall be determined on a monthly basis from a running total of 12 months of data.

4. Plant-wide clean-up solvent usage and VOM emissions shall not exceed 1.0 ton/month and 5.0 ton/year. Compliance with annual limits shall be determined on a monthly basis from a running total of 12 months of data.

5. The Permittee shall maintain monthly records of the following items:

Natural gas usage (mmscf/month and mmscf/year);

Diesel fuel usage (gal/month and gal/year);

Clean-up solvent usage (ton/month and ton/year).

6. 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 the Illinois EPA or USEPA request for records during the course of a source inspection.
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 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. The Permittee shall submit the following additional information from the prior calendar year, along with the Annual Emissions Report, due May 1st of each year: natural gas usage (mmscf/year) and diesel fuel usage (gal/year).
9. 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, IL 62794-9276

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

Illinois Environmental Protection Agency  
Division of Air Pollution Control - Regional Office  
9511 West Harrison  
Des Plaines, Illinois 60016

It should be noted that coating and soldering operations are exempt from state permit requirements pursuant to 35 Ill. Adm. Code 201.146(g) and (y), respectively.

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It should also be noted that the number of small natural gas-fired boilers and heaters has been corrected from 95 to 97.

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

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

DES:RBS:psj

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 electronic components manufacturing and assembly plant 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 usage of 374 mmscf of natural gas and 280,000 gallons of diesel fuel per year. The resulting maximum emissions are well below 100 tons per year of NO<sub>x</sub> 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 material is handled, and control measures are more effective than required in this permit.

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