

3. This permit is issued based on negligible emissions of particulate matter from the resin and abrasives mixing operations. For this purpose, emissions shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/year.
4. The emissions of 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 by 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.
5. Operation and emissions of the fuel combustion equipment shall not exceed the following limits:

Natural Gas Usage: 50 mmscf/Mo, 450 mscf/Yr

<u>Pollutant</u>	<u>Emission Factors</u> (lb/mmscf)	<u>Emissions</u>	
		(Ton/Mo)	(Ton/Yr)
Nitrogen Oxides (NO _x)	100	2.5	22.5
Carbon Monoxide (CO)	84	2.1	18.9
Particulate Matter (PM)	7.6	0.2	1.7
Volatile Organic Materials (VOM)	5.5	0.1	1.2

6. The Permittee shall maintain monthly records of the following items:
 - a. Names and amounts of raw materials (resins, coatings, solvents, etc.) processed at the facility (tons/mo, tons/yr);
 - b. HAP content of raw materials in item (a) (wt %);
 - c. HAP emission calculations (tons/mo, tons/yr);
 - d. Natural gas consumption (mmscf/mo, mmscf/yr).
7. All records and logs required by this permit shall be retained at a easily 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 and 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 request for records during the course of a source inspection.
8. If there is an exceedance of the requirements of this permit as determined by the record 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 record keeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.

9. The Permittee shall submit the following additional information with the Annual Emissions Report, due May 1st of each year: names and amounts of HAP-containing raw materials used (tons/year) and their HAP content (wt %).
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)
P.O. Box 19276
Springfield, IL 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 - Regional Office
5415 North University
Peoria, Illinois 61614

It should be noted that the coating operations consuming less than 5,000 gallons of coating per year, welding operations and cutting, machining and grinding equipment are exempt from state permit requirements pursuant to 35 Ill. Adm. Code 201.146 (g),(y) and (aa), respectively.

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

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

DES:VJB:psj

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

Attachment A - Emissions Summary

This attachment provides a summary of the maximum emission from the Abrasive Grinding Wheels & Machines Manufacturing 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 usage of 350 tons of phenolic resin per year. The resulting maximum emissions are well below the levels, e.g., 10 tons per year for a single HAP, and 25 tons per year for combined HAPs 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.

1. Operation and emissions from grinding wheels molding and curing operations shall not exceed the following limits:

Phenolic Resin Usage: 35 tons/mo, 350 tons/yr

<u>Pollutant</u>	<u>Emission Factor</u> (Lb/Ton)	<u>Emissions</u> (Ton/Mo) (Ton/Yr)	
Formaldehyde	55.4	1.0	9.7
Phenol	24.8	0.4	4.3

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

Natural Gas Usage: 50 mmscf/Mo, 450 mmscf/Yr

<u>Pollutant</u>	<u>Emission Factors</u> (lb/mmscf)	<u>Emissions</u> (Ton/Mo) (Ton/Yr)	
Nitrogen Oxides (NO _x)	100	2.5	22.5
Carbon Monoxide (CO)	84	2.1	18.9
Particulate Matter (PM)	7.6	0.2	1.7
Volatile Organic Materials (VOM)	5.5	0.1	1.2