

V_i = VOM content of each material (lb/gallon)

These limits are based on maximum material usage and 100% emission of the VOM content of these materials. Compliance with the annual limit shall be determined monthly from the last 12 months of data.

- b. Total combined emissions of PM from the four liquid paint booths shall not exceed 0.43 tons/month and 4.25 tons/year. These limits are based on information provided in the application. Compliance with annual limits shall be determined from a running total of 12 months of data.
- c. Emissions and operation of the powder paint booth shall not exceed the following limits:

<u>Powder Paint Usage</u>		<u>PM Emissions</u>	
<u>(Tons/Month)</u>	<u>(Tons/Year)</u>	<u>(Tons/Month)</u>	<u>(Tons/Year)</u>
6.85	68.5	0.15	1.48

These limits are based on the maximum powder paint usage rate (17.125 lb/hour), maximum operating time (8,000 hour/year), and the derived PM emission factor (43.2 lb/ton). Compliance with annual limits shall be determined from a running total of 12 months of data.

- d. Emissions and operation of the air make-up units, washers, and ovens (combined) shall not exceed the following limits:

<u>Natural Gas Usage</u>	
<u>(mmscf/Mo)</u>	<u>(mmscf*/Yr)</u>
35	350

* 1 mmscf = 10,200 therms

<u>Pollutant</u>	<u>Emission Factor</u>	<u>Emissions</u>	
	<u>(Lb/mmscf)</u>	<u>(Tons/Mo)</u>	<u>(Tons/Yr)</u>
Nitrogen Oxides (NO _x)	100	1.8	17.5
Carbon Monoxide (CO)	84	1.5	14.7
Particulate Matter (PM)	7.6	0.2	1.4
Volatile Organic Material (VOM)	5.5	<u>0.1</u>	<u>1.0</u>
	Totals	3.6	34.6

These limits are based on the combined maximum firing rates (43.5 mmBtu/hr), maximum operating time (8,000 hr/yr), and standard AP-42 emission factors. Compliance with annual limits shall be determined from a running total of 12 months of data.

- e. 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.

3. The Permittee shall visually inspect the waterfall control devices and check for air flow drop on a regular basis in order to ensure proper operation of these devices.
4. No solvent additives containing any VOM or HAPs shall be used in the washers or pre-washer.
- 5a. Material insulated with polyvinyl chloride or asbestos, or scrap containing the fuming metals tin, zinc, or lead shall not be charged to the burn-off ovens.
- b. The afterburner shall be heated to an operating temperature of 1400°F before charging and this temperature shall be maintained during operation.
- c. The burn-off ovens shall be equipped with temperature indicators.
6. Testing for VOM content of coatings and other materials shall be performed in accordance with 35 IAC 215.208(a) and as follows:
 - a. Upon reasonable request by the Illinois EPA, the VOM content of specific coatings and cleaning solvents used on each affected coating line shall be determined according to USEPA Reference Method 24 or 24A of 40 CFR 60, Appendix A, and the procedures of 35 IAC 215.105(a).
 - b. This testing may be performed by the supplier of a material provided that the supplier provides appropriate documentation for such testing to the Permittee and the Permittee's records directly reflect the application of such material and separately account for any additions of solvent thinner.
7. The Permittee shall maintain monthly records of the following items:
 - a. Records of results of testing of the VOM content of the coatings and other materials performed pursuant to Condition No. 6.
 - b. Names, usage, VOM content, and HAP content of all VOM-containing materials used, including all coatings, thinners, and cleanup solvents (gallons/month, gallons/year, lb/gallon, lb/gallon).
 - c. Powder paint usage (tons/month and tons/year)
 - d. Natural gas usage (mmscf/month, mmscf/year).
 - e. VOM, single HAP, and combined HAPS emissions with supporting calculations (tons/month, tons/year).

8. The Permittee shall maintain daily records of the usage and VOM content of each liquid coating, as-applied (minus water and any compounds specifically exempted from the definition of VOM), including the applicable VOM content limit (lb/gallon) for each such coating applied, to ensure compliance with 35 Ill. Adm. Code 215.204(k)(2), Coating Operations for Heavy Off-Highway Vehicle Products, as follows:

<u>Liquid Coating Category</u>	<u>VOM Content (Lb/Gal)</u>
Extreme Performance Prime Coat	3.5
Extreme Performance Top Coat - Air Dried	4.3
Final Repair Coat - Air Dried	4.8

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
5415 North University
Peoria, Illinois 61614

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It should be noted that this permit incorporates operation of the equipment specified in Construction Permit 03090060.

It should be noted that the plasma/laser torch cutting and shot blasting operations are exempt from state permit requirements, pursuant to 35 Ill. Adm. Code 201.146(aa).

If you have any questions on this, please call Jim Kallmeyer 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 2
Lotus Notes

Attachment A - Emission Summary

This attachment provides a summary of the maximum emissions from this farm machinery and equipment manufacturing facility 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 below the levels, e.g., 100 tons/year of VOM, 10 tons per year of single HAP, and 25 tons per year of 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 less material is handled and control measures are more effective than required in this permit.

<u>Emission Units</u>	<u>Emissions (Tons/Year)</u>					
	<u>VOM</u>	<u>PM</u>	<u>NO_x</u>	<u>CO</u>	<u>Single HAP</u>	<u>Combined HAPs</u>
4 Liquid Booths & Cleanup	58.5	4.25			< 10	< 25
1 Powder Coating Booth		1.48				
Natural Gas-Fired Units	<u>1.0</u>	<u>1.40</u>	<u>17.5</u>	<u>14.7</u>		
Totals	59.5	7.13	17.5	14.7	< 10	< 25

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