



Total: 2.42 24.14

- \* VOM usage shall be calculated using the equation in Condition 8(c).

These limits define the potential emissions of VOM and are based on maximum usages and maximum VOM content as provided in the information by the company. Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months.

- b. This permit is issued based on negligible emissions of PM from the grit blast machine and coating operation. For this purpose, emissions shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/year per emission source.
3. The emissions of Hazardous Air Pollutants (HAP) as listed in Section 112(b) of the Clean Air Act shall be less than 10 tons/year of any single HAP and 25 tons/year of any combination of such HAPs. As a result of this condition, this permit is issued based on the emissions of all HAPs from this source not triggering the requirements to obtain a Clean Air Act Permit Program Permit (CAAPP), and Section 112(G) of the Clean Air Act.
4. Pursuant to 35 Ill. Adm. Code 218.204(j)(2), any coatings including primers applied at any time in the coating operation shall not exceed 3.5 lb VOM per volume (gal) of coating (minus water and any other compounds which are specifically exempted from the definition of VOM) as applied at each applicator.
5. Pursuant to 35 Ill. Adm. Code 218.182(c), the Permittee shall not operate a cold cleaning degreaser with a solvent vapor pressure which exceeds 2.0 mmHg (0.038 psi) measured at 20°C (68°F).
6. The Permittee shall comply with the following operating requirements for cold cleaning degreasers, pursuant to 35 Ill. Adm. Code 218.182:
  - a. Waste solvent shall be stored in covered containers only and not disposed of in such a manner that more than 20% of the waste solvent (by weight) is allowed to evaporate into the atmosphere;
  - b. The cover of the degreaser shall be closed when parts are not being handled and parts are drained until dripping ceases;
  - c. The degreaser must be equipped with a cover which is closed whenever parts are not being handled in the cleaner;
  - d. The degreaser shall be equipped with a device for draining cleaned parts;
  - e. A permanent conspicuous label summarizing the operating procedure must be affixed to the degreaser; and
  - f. If a solvent spray is used, the degreaser must be equipped with a

solid fluid stream spray, rather than a fine, atomized or shower spray.

7. The Permittee shall maintain monthly records of the following for cold cleaning degreasers, pursuant to 35 Ill. Adm. Code 218.182:
  - a. The name and address of the solvent supplier;

- b. The date of purchase;
- c. The type of solvent; and
- d. The vapor pressure of the solvent measured in mmHg at 20EC (68EF).

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

- a. Amount of each coating (primer) and solvent used in the coating operation and degreasers (ton/month and ton/year) or (gal/mo and gal/yr).
- b. VOM content of each coating (primer) and solvent used in the coating operation and degreasers (percent weight of VOM) or (lb VOM /gal).
- c. Calculations of VOM usage for the spray paint booth. The following equation shall be used to calculate VOM usage:

$$Te = \sum_i^n AiBi$$

Where:

Te = VOM usage in units of lb/mo;

n = Number of different coatings used each month;

i = Subscript denoting an individual coating;

Ai = Weight of VOM per volume of each coating used each month in units of lbs VOM/gal or weight percent of VOM of each coating used each month (% weight); and

Bi = Amount of each coating used each month in units of gal/mo or lb/mo.

- d. Detailed calculations of plantwide VOM emissions.
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  
9511 West Harrison  
Des Plaines, Illinois 60016

12. The Permittee shall submit the following additional information with the Annual Emissions Report, due May 1st of each year:
  - a. Amount of each primer and solvent used in the coating operation and degreasers (ton/month and ton/year);
  - b. VOM content of each primer and solvent used in the coating operation and degreasers (percent weight of VOM); and
  - c. Detailed calculations of VOM emissions from the coating operation and degreasers (ton/month and ton/year).

It should be noted that the gas fired furnace, air make-up unit, and welding machines are exempt from state permit requirements, pursuant to 35 Ill. Adm. Code 201.146(d) and (aa), respectively.

It should be noted that this permit has been revised to incorporate the Construction Permit #01030017 for a replacement spray paint booth and to revise the emission limits for the coating operation.

If you have any questions on this, please call Tara T. Nguyen-Ede 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 metal products manufacturing facility operating in compliance with the requirements of this federally enforceable permit 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 well below the levels, e.g., 25 tons per year of VOM, 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.

- 1a. Emissions of volatile organic material (VOM) and operation of the coating operation and two degreasers shall not exceed the following limits:

<u>Equipment</u>	<u>Material</u>	<u>Usage</u>		<u>VOM Content</u>	<u>VOM Emissions</u>	
		<u>(Per/Mo)</u>	<u>(Per/Yr)</u>		<u>(T/Mo)</u>	<u>(T/Yr)</u>
Spray Paint Booth	* VOM	2.0 Tons	20.0 Tons	-----	2.0	20.0
Coating Operation	Clean-Up Solution	102 Gals	1,020 Gals	7.2 lb/gal	0.37	3.7
2 Degreasers	Cleaning Solvent	0.60 Tons	5.93 Tons	0.25 wt. %	<u>0.05</u>	<u>0.44</u>
Total:					2.42	24.14

\* VOM usage shall be calculated using the equation in Condition 8(c).

These limits define the potential emissions of VOM and are based on maximum usages and maximum VOM content as provided in the information by the company. Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months.

- b. This permit is issued based on negligible emissions of PM from the grit blast machine and coating operation. For this purpose, emissions shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/year per emission source.
2. The emissions of Hazardous Air Pollutants (HAP) as listed in Section 112(b) of the Clean Air Act shall be less than 10 tons/year of any single HAP and 25 tons/year of any combination of such HAPs. As a result of this condition, this permit is issued based on the emissions of all HAPs from this source not triggering the requirements to obtain a Clean Air Act Permit Program Permit (CAAPP), and Section 112(G) of the Clean Air Act.

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