

<u>Pollutant</u>	Usage and Emissions	
	<u>(Tons/Month)</u>	<u>(Tons/Year)</u>
Non HAP VOM	4.9	48.9
Formaldehyde	1.0	9.5

These limits define potential emissions and are based on maximum VOM and HAP contents, all VOM and HAPS emitted and requested by the Permittee. Compliance with annual limits shall be determined from a running total of 12 months of data.

- b. Emissions of volatile organic material (VOM) and operation of the large panel line, charcoal filter operation, and air filter operation, including filter assembly lines 5013 and M1A1, and all clean-up operations shall not exceed the following limits:

<u>Material</u>	VOM Usage		VOM Emissions	
	<u>(Tons/Month)</u>	<u>(Tons/Year)</u>	<u>(Tons/Month)</u>	<u>(Tons/Year)</u>
Isopropyl Alcohol	0.07	0.7	0.07	0.7
Adhesives	1.6	16.0	1.6	16.0
Filter Media	0.7	6.7	0.7	6.7
Clean-Up Solvents	0.6	6.0	0.6	6.0
MEK	0.53	5.3	0.53	5.3
Xylene (HAP)	0.15	1.5	0.15	1.5
Vanishing Lube	0.4	4.0	0.4	4.0
			Total:	40.2

These limits define the potential emissions of VOM and are based on maximum material usages, maximum VOM content for each material, and VOM usage as determined by the equation in Special Condition 8(c).

- c. Emissions and operation of all fuel combustion emission sources shall not exceed the following limits:

Fuel Usage		<u>Pollutant</u>	Emission Factor <u>(Lbs/mmscf)</u>	Emissions	
<u>(mmscf/Mo)</u>	<u>(mmscf/Yr)</u>			<u>(Tons/Mo)</u>	<u>(Tons/Yr)</u>
20.53	205.3	NO _x	100.0	1.03	10.3
		CO	84.0	0.87	8.7
		PM	7.6	0.1	0.8
		VOM	5.5	0.1	0.6
		SO ₂	0.6	0.1	0.1

These limits are based on maximum fuel usage and standard emission factors.

- d. Natural gas shall be the only fuel(s) fired in all the fuel combustion emission sources. Use of any other fuel will require a revised permit.
- e. Compliance with the annual limits of this permit shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).

3. This permit is issued based on negligible emissions of particulate matter from the charcoal filter operation. For this purpose, emissions shall not exceed nominal emission rates of 0.1 lbs/hour and 0.44 tons/year.
4. This permit is issued based on negligible emissions of ozone from the charcoal filter operation. For this purpose, emissions shall not exceed nominal emission rates of 0.1 lbs/hour and 0.44 tons/year.
- 5a. Pursuant to 35 Ill. Adm. Code 215.301, no person shall cause or allow the discharge of more than 3.6 kg/hour (8 lbs/hour) of organic material into the atmosphere from any emission source, except as provided in 35 Ill. Adm. Code 215.302, 215.303, 215.304 and the following exception: If no odor nuisance exists the limitation of 35 Ill. Adm. Code 215 Subpart K shall apply only to photochemically reactive material.
- b. In the event that the operation of this source results in an odor nuisance, the Permittee shall take appropriate and necessary actions to minimize odors, including but not limited to, changes in raw material or installation of controls, in order to eliminate the nuisance.
6. No person shall cause or allow any visible emissions of fugitive particulate matter from any process, including any material handling or storage activity beyond the property line of the emission source, pursuant to 35 Ill. Adm. Code 212.301.
7. In the event that the operation of this emission unit results in an odor nuisance, the Permittee shall take appropriate and necessary actions to minimize odors, including but not limited to, changes in raw material or installation of controls, in order to eliminate the odor nuisance.
8. The Permittee shall maintain monthly records of the following items so as to demonstrate compliance with the conditions of this permit:
 - a. Identification and amount of each solvent, clean-up solvent, adhesive, vanishing lube, filter media used and any other material containing HAPs or VOM (lbs or gallons/month and ton or gallons/year);
 - b. VOM and individual HAP content of each solvent, clean-up solvent, adhesive, vanishing, lube, filter media and any other material containing HAPs or VOM (lbs VOM/gallon or % weight);
 - c. For plantwide calculations of VOM or HAPs usage and emissions, the following equation shall be used:

$$Te = \sum_i^n AiBi$$

where;

T_e = VOM or HAPs usage in units of lbs/month or gallons/month;

n = Number of different solvents, clean-up solvent, adhesives, vanishing lube, and filter medias used each month;

i = Subscript denoting an individual solvent, clean-up solvent, vanishing lube, adhesive, and filter media;

A_i = Weight of VOM or HAPs per volume of each solvent, clean-up solvent, vanishing lube, adhesive and filter media used each month in units of lbs VOM/gallons or weight percent of VOM of each solvent used each month (% weight); and

B_i = Amount of each solvent, clean-up solvent, adhesive, vanishing lube, and filter media used each month in units of gallons/month or lbs/month.

- d. Calculations of individual HAP usage and emissions from the plant using the same equation in Condition 11(c);
 - e. Monthly and annual emissions of VOM and HAPs from the plant with supporting calculations (tons/month and tons/year); and
 - f. Total natural gas usage for all fuel combustion emission sources (mmscf/month and mmscf/year).
9. Pursuant to 40 CFR 63.10(b)(3), if an owner or operator determines that his or her stationary source that emits (or has the potential to emit, without considering controls) one or more hazardous air pollutants regulated by any standard established pursuant to section 112(d) or (f) of the Clean Air Act, and that stationary source is in the source category regulated by the relevant standard, but that source is not subject to the relevant standard (or other requirement established under 40 CFR Part 63) because of limitations on the source's potential to emit or an exclusion, the owner or operator must keep a record of the applicability determination on site at the source for a period of 5 years after the determination, or until the source changes its operations to become an affected source, whichever comes first. The record of the applicability determination must be signed by the person making the determination and include an analysis (or other information) that demonstrates why the owner or operator believes the source is unaffected (e.g., because the source is an area source). The analysis (or other information) must be sufficiently detailed to allow the USEPA and/or Illinois EPA to make a finding about the source's applicability status with regard to the relevant standard or other requirement. If relevant, the analysis must be performed in accordance with requirements established in relevant subparts of 40 CFR Part 63 for this purpose for particular categories of stationary sources. If relevant, the analysis should be performed in accordance with USEPA guidance materials published to assist sources in making applicability determinations under Section 112 of the Clean Air Act, if any. The requirements to determine applicability of a standard under 40 CFR 63.1(b)(3) and to record the results of that determination under 40 CFR

63.10(b)(3) shall not by themselves create an obligation for the owner or operator to obtain a Title V permit.

10. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least five 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.
11. If there is an exceedance of or deviation from 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/deviation. 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 deviation and efforts to reduce emissions and future occurrences.
12. Two (2) copies of required reports and notifications 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

Please note the new filter media treatment operation from Construction Permit 05060056 has been added to this permit.

If you have any questions on this permit, please contact Bruce Beazly at 217/782-2113.

Edwin C. Bakowski, P.E.
Acting Manager, Permit Section
Division of Air Pollution Control

ECB:BDB:cjc

cc: Region 2

Attachment A - Emission Summary

This attachment provides a summary of the maximum emissions from the filter 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. The resulting maximum emissions are well below the levels, e.g., 100 tons per year of VOM, 25 tons per year of combined HAPs, and 10 tons per year of single 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>Operations</u>	E M I S S I O N S (Tons/Year)						
	<u>NO_x</u>	<u>CO</u>	<u>PM</u>	<u>VOM</u>	<u>HAPs</u>		
					<u>Single</u>	<u>Combined</u>	
Filter Media Treatment				58.4			
All Other Operations			0.44	40.2			
Natural Gas Combustion	<u>10.3</u>	<u>8.7</u>	<u>0.80</u>	<u>0.6</u>			
Totals	10.3	8.7	1.24	99.2	< 10	< 25	

BDB:cjc