

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT - REVISED

PERMITTEE

Gibraltar Chemical Works, Inc.
Attn: Rebecca Mason
114 East 168th Street
South Holland, Illinois 60473

Application No.: 98050062

I.D. No.: 031297ACY

Applicant's Designation: PAINT MFG

Date Received: January 19, 2007

Subject: Paint Manufacturer

Date Issued: November 7, 2008

Expiration Date: November 10, 2009

Location: 114 East 168th Street, South Holland, Cook County, 60473

This permit is hereby granted to the above-designated Permittee to OPERATE emission source(s) and/or air pollution control equipment consisting of a paint manufacturing facility: 14 mixing/blending tanks controlled by two filtration systems, two mill/mixer lines controlled by dust collector, and eight pigment dispersion machines pursuant to the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. This federally enforceable state operating permit is issued to limit the emissions of air pollutants from the source to less than major source thresholds (i.e., 25 tons/year for volatile organic material (VOM)). As a result the source is excluded from the requirement to obtain a Clean Air Act Permit Program (CAAPP) permit. The maximum emissions of this source, as limited by the conditions of this permit, are described in Attachment A.
- b. Prior to issuance, a draft of this permit has undergone a public notice and comment period.
- c. This permit supersedes all operating permits issued for this location.
2. This permit is issued based upon the paint manufacturing facility being subject to the requirements of 35 Ill. Adm. Code Part 218, Subpart AA: Paint and Ink Manufacturing, pursuant to Section 218.620 (b)(1).
 - a. The Permittee shall not operate an open-top mill, tank, vat or vessel, with a volume of more than 12 gallons for the production of paint unless:
 - i. The mill, tank, vat or vessel is equipped with a cover which completely covers the mill, tank, vat or vessel opening, except for an opening no larger than necessary to allow for safe clearance for a mixer shaft. Such cover shall extend at least 1/2 inch beyond the outer rim of the opening or be attached to the rim.

- ii. The cover remains closed, except when production, sampling, maintenance, or inspection procedures require access.
 - iii. The cover is maintained in good condition, such that when in place, it maintains contact with the rim of the opening for at least 90% of the circumference of the rim.
- b. The following conditions shall apply to storage tanks storing volatile organic liquid (VOL):
 - i. The tanks storing VOL with a vapor pressure greater than 1.5 psi at 68°F shall be equipped with pressure/vacuum conservation vents set as a minimum at +/-0.029 psi. This control shall be operated at all times.
 - ii. Stationary VOL storage containers with a capacity greater than 250 gallon shall be equipped with a submerged-fill pipe or bottom fill. This control shall be operated at all times.
- c. The Permittee shall, for the purpose of detecting leaks, pursuant to 35 Ill. Adm. Code 218.628, conduct an equipment monitoring program consistent with the following:
 - i. Each pump shall be checked by visual inspection each calendar week for indication of leaks, that is, liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, the pump shall be repaired as soon as practicable, no later than 15 calendar days after the leak is detected.
 - ii. Any pump valve, pressure relief valve, sampling connection, open-ended valve, and flange or connector containing a fluid which is at least 10 percent by weight volatile organic material which appears to be leaking on the basis of sight, smell, or sound shall be repaired as soon as practicable, but no later than 15 calendar days after the leak is detected.
 - iii. A weather proof, readily visible tag, in bright colors such as red or yellow, bearing an identification number and the date on which the leak was detected shall be attached to leaking equipment. The tag may be removed upon repair, that is, when the equipment is adjusted or otherwise altered to allow operation without leaking.
 - iv. When a leak is detected, the owner or operator shall record the date of detection and repair and the record shall be retained at the plant for at least 2 years from the date of each detection or each repair attempt. The record shall be made available to any person upon verbal or written request during business hours.

- d. The Permittee shall not clean paint manufacturing equipment with organic solvent unless the equipment being cleaned is completely covered or enclosed except for an opening no larger than necessary to allow safe clearance for proper operation of the cleaning equipment, considering the method and materials being used.
- e. The Permittee shall not store organic wash solvent in other than closed containers, unless closed containers are demonstrated to be a safety hazard, or dispose of organic wash solvent in a manner such that more than 20 percent by weight is allowed to evaporate into the atmosphere.

3a. Emissions of VOM and PM and operation of the paint manufacturing facility shall not exceed the following limits:

<u>VOM Usage</u>		<u>Emission Factor</u>	<u>VOM Emissions</u>	
<u>(Tons/Month)</u>	<u>(Tons/Year)</u>	<u>(Weight %)</u>	<u>(Tons/Month)</u>	<u>(Tons/Year)</u>
88	875	2.75	2.4	24.1

<u>Pigment Usage</u>		<u>Emission Factor</u>	<u>PM Emissions</u>	
<u>(Tons/Month)</u>	<u>(Tons/Year)</u>	<u>(Weight %)</u>	<u>(Tons/Month)</u>	<u>(Tons/Year)</u>
53	530	2.0	1.1	10.6

These limits define the potential emissions of VOM and PM and are based on the emission and usage limits as requested by the company.

- b. 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.
- 4. 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.
- 5. The Permittee shall maintain monthly records of the following items:
 - a. Paint production (gallons/month; gallons/year);
 - b. Names and amount of solvents used (tons/month; tons/year);
 - c. VOM and HAP content in the solvents (lbs/gallon; wt. %);
 - d. Names and amount of solid particulates used (tons/month; tons/year); and
 - e. VOM and HAP emission calculations (tons/month; tons/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 an Illinois EPA or USEPA request for records during the course of a source inspection.
7. If there is an exceedence 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 exceedence/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 exceedence or deviation, and efforts to reduce emissions and future occurrences.
8. 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

Please note that this permit is revised to incorporate the 2 mill/mixer lines with dust collector as described in Construction Permit 06070052.

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

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

Date Signed: _____

ECB:JPB:psj

cc: Illinois EPA, FOS Region 1
Lotus Notes

Attachment A - Emission Summary

This attachment provides a summary of the maximum emissions from the Paint 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. This is use of 875 tons of solvents (100% of VOM) and production of 1,405 tons of paint per year. The resulting maximum emissions are below the levels, i.e., 25 tons per year of VOM. 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.

1. VOM Emissions from the paint manufacturing facility:

VOM Emissions
(Tons/Year)

24.1

2. PM emissions from the paint manufacturing facility:

PM Emissions
(Tons/Year)

10.6

3. The emissions of HAPs as listed in Section 112(b) of the Clean Air Act do not equal or exceed 10 tons per year of any single HAP or 25 tons per year of any combination of such HAPs.

JPB:psj