

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT -- NSPS SOURCE

PERMITTEE

TIN, Inc., d/b/a Temple-Inland
Attn: Steve Wolfe
139 East Fullerton Avenue
Carol Stream, Illinois 60188

Application No.: 05080042

I.D. No.: 043020AAQ

Applicant's Designation:

Date Received: August 15, 2005

Subject: Corrugated Container Plant

Date Issued: September 7, 2006

Expiration Date: September 7, 2011

Location: 139 East Fullerton Avenue, Carol Stream, DuPage County

This permit is hereby granted to the above-designated Permittee to OPERATE emission source(s) and/or air pollution control equipment consisting of one natural gas-fired boiler, starch storage silo, starch paste mixer, six flexographic printing/folding/cutting/gluing presses, and waste paper collection system controlled by a cyclone 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:
 - i. To limit the emissions of air pollutants from the source to less than major source thresholds (i.e., 100 tons/year for volatile organic material (VOM), 10 tons/year for a single hazardous air pollutant (HAP) and 25 tons/year for totaled HAPs). As a result, the source is excluded from the requirement to obtain a Clean Air Act Permit Program (CAAPP) permit.
 - ii. To limit the potential emissions of VOM from the source to less than 25 tons/year. As a result, the source is excluded from the requirement of 35 Ill. Adm. Code Part 205, Emission Reduction Market System. 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 permit(s) for this location.
- 2a. The boiler is subject to New Source Performance Standards (NSPS) for small Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60, Subparts A and Dc. The Illinois EPA is administering these standards in Illinois on behalf of the United States EPA under a delegation agreement.
- b. The Permittee shall fulfill applicable reporting and recordkeeping requirements of 40 CFR 60.48(c).

- c. At all times the Permittee shall, to the extent practicable, maintain and operate the boiler, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions.
- 3. This permit is issued based upon the flexographic printing presses not being subject to the control requirements of 40 CFR 63, Subpart KK - National Emission Standard for Hazardous Air Pollutants for the Printing and Publishing Industry. This is consequence of federally enforceable limitations of this permit restricting potential HAP emissions to below major source threshold levels defined in 40 CFR 63.2.
- 4a. This permit is issued based upon the flexographic printing and coating operations not being subject to the VOM control requirements of 35 Ill. Adm. Code 218.401: Flexographic and Rotogravure Printing. This is consequence of the maximum theoretical emission and potential to emit of VOM being limited to less than applicability thresholds of 100 and 25 tons per year, respectively, specified in Section 218.402(a).
- b. 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 unit, except as provided in 35 IAC 218.302, 218.303, 218.304, and the following exception: If no odor nuisance exists the limitation of 35 IAC 218 Subpart G shall apply only to photochemically reactive materials. [35 Ill. Adm. Code 218.301].
- 5a. VOM and HAP emissions from the flexographic printer/coater/glue operations shall not exceed 1.0 tons/month and 9.2 tons/year.

The VOM/HAP emissions from the flexographic printer/coater/glue shall be calculated as a product of VOM/HAP-containing materials usage times VOM/HAP content of the raw materials.

These limits are based on the maximum production capacity and material balance calculations. Compliance with annual limits shall be determined from running total of 12 months of data.

- b. 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) permit.
- 6. Operation and emissions of the boiler shall not exceed the following limits:

Natural Gas Usage: 16 mmscf/month, 183 mmscf/year

<u>Pollutant</u>	<u>Emission Factor</u> <u>(Lb/mmscf)</u>	<u>Emissions</u>	
		<u>(Tons/Mo)</u>	<u>(Tons/Yr)</u>
Nitrogen Oxides (NO _x)	100	0.8	9.2
Carbon Monoxide (CO)	84	0.7	7.7
Particulate Matter (PM)	7.6	0.06	0.7
Volatile Organic Material (VOM)	5.5	0.04	0.5

These limits are based on the maximum firing rate and standard emission factors. 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.

7. This permit is issued based on negligible emission of particulate matter from the waste paper collection system, starch silo and starch paste mixer. For this purpose, emission from each emission unit shall not exceed a nominal emission rate of 0.1 lb/hour and 0.44 tons/year.
- 8a. The Permittee shall collect and record all of the following information each year for each printing line pursuant to 35 Ill. Adm. Code 218.404(b) (2):
 - i. The name and identification number of each coating and ink as applied on each printing line.
 - ii. The VOM content and the volume of each coating and ink as applied each year on each printing line.
- b. The Permittee shall maintain monthly records of the following items:
 - i. Names and amounts of inks, adhesives, coatings and clean-up solvents used (tons/month, tons/year);
 - ii. VOM and HAP content of materials in item (a) (weight %);
 - iii. Natural gas usage (mmscf/month, mmscf/year); and
 - iv. CO, PM, NO_x, VOM and HAP emissions with supporting calculations (tons/month, tons/year).
9. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least five(5) 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 an Illinois EPA request for records during the course of a source inspection.
10. 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 and

Enforcement 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 exceedances or deviation 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 and Enforcement 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
9511 West Harrison
Des Plaines, Illinois 60016

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: IEPA, FOS Region 1
Lotus Notes

Attachment A - Emissions Summary

This attachment provides a summary of the maximum emissions from corrugated container manufacturing plant operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Agency used the annual operating scenario which results in maximum emissions from such a plant. The resulting maximum emissions are below the levels (100 tons per year of VOM, 10 tons/year for a single HAP and 25 tons/year for totaled 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 used and control measures are more effective than required in this permit.

<u>Emission Units</u>	<u>VOM</u>	<u>NO_x</u>	<u>Emissions (Tons/Year)</u>			<u>Total HAP</u>
			<u>CO</u>	<u>PM</u>	<u>Single HAP</u>	
Flexographic Presses	9.2	---	---	---		
Boiler	0.5	9.2	7.7	0.7		
Paper collection system, Starch Silo and Mixer	---	---	---	1.3		
Total	<u>9.7</u>	<u>9.2</u>	<u>7.7</u>	<u>2.0</u>	<u>< 10</u>	<u>< 25</u>

DES:VJB:psj