

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT  
REVISED

PERMITTEE

Bowne of Chicago, Inc.  
Attn: James Cowe  
325 West Ohio Street  
Chicago, Illinois 60610

<u>Application No.:</u> 95030053	<u>I.D. No.:</u> 031600FVC
<u>Applicant's Designation:</u>	<u>Date Received:</u> September 20, 2001
<u>Subject:</u> Printing Operation	
<u>Date Issued:</u> November 28, 2001	<u>Expiration Date:</u> September 13, 2005
<u>Location:</u> 325 West Ohio Street, Chicago, 60610	

This permit is hereby granted to the above-designated Permittee to OPERATE emission unit(s) and/or air pollution control equipment consisting of 7 non-heatset sheetfed printing presses and 1 non-heatset offset web printing presses 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., volatile organic material (VOM) to less than 25 tons/year, single hazardous air pollutant (HAP) to less than 10 tons/year, and combined hazardous air pollutants (HAPs) to less than 25 tons/year). 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. 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. Emissions and operation of the 7 non-heatset sheetfed and 1 non-heatset offset web printing presses shall not exceed the following limits:

<u>Coating</u>	<u>Usage</u>		<u>Maximum</u>	<u>VOM Emissions</u>	
	<u>(Lb/Mo)</u>	<u>(Lb/Yr)</u>	<u>Content</u>	<u>(Lb/Mo)</u>	<u>(Ton/Yr)</u>
			<u>(wt%)</u>		
Solvent-Based Ink	4,373	52,474	35	76.53	0.46
Soy-Based Ink	4,213	50,553	2	4.21	0.03
Wash Solvent	1,964	23,568	100	1964.00	11.78
Clean-Up Solvent	500	6,000	100	500.00	3.00

These limits are based on 95% retention of VOM content of printing inks in the web and complete volatilization of VOM from all other washes and solvents. Compliance with annual limits shall be determined from a running total of 12 months of data.

4. The combined emissions of volatile organic material (VOM) from all lithographic printing lines at this source shall never exceed 100 lb/day, as determined in accordance with 35 Ill. Adm. Code 218.411(a)(1)(B), before the application of capture and control devices.
5. The Permittee shall maintain monthly and annual records of the following:
- Usage (lb/month and lb/year), VOM and HAP content (lb/gallon or wt%), VOM and HAP emissions (lb/month and tons/year) of the following:
- a. Printing inks
  - b. Solvents (including washes and clean-up)
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 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.

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

9. The Permittee shall submit the following additional information with the Annual Emissions Report, due May 1st of each year:
- a. Printing ink usage (lb/year);
  - b. Solvent usage (lb/year); and
  - c. Records of compliance with Condition #4.

Please note that this permit has been revised to reflect the removal of 3 lithographic printing presses.

If you have any questions on this, please call Eric Jones 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 the printing operation 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 usage limitations seen below. The resulting maximum emissions are well below the levels, e.g., volatile organic material (VOM) to less than 25 tons/year, single hazardous air pollutants (HAP) to less than 10 tons/year, and combined hazardous air pollutants (HAPs) to less than 25 tons/year, 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.

1. Emissions and operation of the 7 non-heatset sheetfed and 1 non-heatset offset web printing presses shall not exceed the following limits:

<u>Coating</u>	<u>Usage</u>		<u>Maximum VOM Content (wt%)</u>	<u>VOM Emissions</u>	
	<u>(Lb/Mo)</u>	<u>(Lb/Yr)</u>		<u>(Lb/Mo)</u>	<u>(Ton/Yr)</u>
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2. The combined emissions of volatile organic material (VOM) from all lithographic printing lines at this source shall never exceed 100 lb/day, as determined in accordance with 35 Ill. Adm. Code 218.411(a)(1)(B), before the application of capture and control devices.

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## I. Introduction

Bowne of Chicago, Inc., for a Printing Operation, has submitted an Application for a Federally Enforceable State Operating Permit (FESOP). This Application has been submitted in order to incorporate federally enforceable limits. These limits would prevent the facility from being a major source of Volatile Organic Material (VOM) and Hazardous Air Pollutants (HAPs), and thereby relieving them of having to obtain a Clean Air Act Permit Program (CAAPP). Included with these federally enforceable limits would be specific recordkeeping and reporting requirements to assure that the facility is operated as a non-major source. These conditions would be enforced by both the USEPA and Illinois EPA.

## II. Source Description

Bowne of Chicago, Inc. is located in Chicago, Illinois. This facility prints various pieces of media. Various inks and solvents are applied to the substrate, as determined by individual customer needs.

## III. Emissions

Emissions of VOM and Hazardous Air Pollutants (HAPs) from the printing operations will occur when the VOM and HAP contained in the various printing inks and clean-up solvents volatilize.

## IV. Applicable Emission Standards

All emission sources in Illinois must comply with the emission standards set by the Illinois Pollution Control Board. The Pollution Control Board's emission standards represent the basic requirements for sources in Illinois. The Pollution Control Board has emission standards for VOM and HAPs. The Bowne of Chicago, Inc. readily complies with all emission standards set forth by the Pollution Control Board.

## V. Proposed Permit

The conditions in this FESOP are designed to ensure that this facility is continually operated as a non-major source. This permit has conditions that limit the usage of inks, coatings, adhesives and clean-up solvents. This permit also contains conditions of specific recordkeeping and reporting requirements. Bowne of Chicago, Inc. must carry out these procedures on an ongoing basis to demonstrate compliance with the limits set forth in this FESOP.

VI. Request for Comments

It is the Illinois EPA preliminary determination that the facility meets all applicable state and federal air pollution control regulations. The Illinois EPA is therefore proposing the issuance of this FESOP with all of the specific requirements contained in the permit. Comments are requested on this proposed action by the Illinois EPA and the proposed conditions on this draft FESOP. If substantial interest is shown in this matter, the Illinois EPA will consider holding a public hearing in accordance with 35 Ill. Ad. Code Part 166.

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