

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT - REVISED

PERMITTEE

American Litho, Inc.
Attn: Michael Fontana
160 East Elk Trail
Carol Stream, IL 60188

<u>Application No.:</u> 96040126	<u>I.D. No.:</u> 031489AAB
<u>Applicant's Designation:</u> PRESSROOM	<u>Date Received:</u> February 8, 2010
<u>Subject:</u> Printing Facility	
<u>Date Issued:</u> January 11, 2011	<u>Expiration Date:</u> January 11, 2016
<u>Location:</u> 1110 Morse Avenue, Schaumburg, Cook County, 60193	

This permit is hereby granted to the above-designated Permittee to OPERATE emission unit(s) and/or air pollution control equipment consisting of two coldset sheetfed lithographic printing lines 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 of volatile organic, 10 tons/year for any individual Hazardous Air Pollutant (HAP), and 25 tons/year of any combination of such 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. Pursuant to 35 Ill. Adm. Code 218.301, 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 unit, except as provided in 35 Ill. Adm. Code 218.302, 218.303, or 218.304 and the following exception:
If no odor nuisance exists the limitation of 35 Ill. Adm. Code 218 Subpart G shall only apply to photochemically reactive material.
- b. Pursuant to 35 Ill. Adm. Code 218.405(c)(2), on and after August 1, 2010, 35 Ill. Adm. Code 218.411(a)(1)(A) and (a)(2) and all applicable provisions of 35 Ill. Adm. Code 218.409 through 218.410 shall apply to all owners or operators of heatset web offset, non-heatset web offset, or sheet-fed offset lithographic printing line(s), unless the combined emissions of VOM from all lithographic printing line(s) at the source

(including solvents used for cleanup operations associated with the lithographic printing line(s)) never exceed 6.8 kg/day (15 lbs/day) as determined in accordance with 35 Ill. Adm. Code 218.411(b)(1)(B), before the application of capture systems and control devices.

- c. 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 odor nuisance.
3. Pursuant to 35 Ill. Adm. Code 218.407(a)(3), No owner or operator of lithographic printing lines subject to the requirements shall:
- a. Cause or allow the operation of any sheet-fed offset lithographic printing line unless:
 - i. The VOM content of the as-applied fountain solution is 5 percent or less, by weight; or
 - ii. The VOM content of the as-applied fountain solution is 8.5 percent or less, by weight, and the temperature of the fountain solution is maintained below 15.6°C (60°F), measured at the reservoir or the fountain tray;
 - b. Cause of allow the use of a cleaning solution on any lithographic printing line unless:
 - i. The VOM content of the as-used cleaning solution is less than or equal to:
 - A. 30 percent, by weight; or
 - B. On and after August 1, 2010, for owners or operators of sources that meet the applicability criteria in Section 218.405(c)(3) and do not certify pursuant to Section 218.411(g)(1)(B) that the source will not make use of any of the exclusions in Section 218.405(c)(3), 70 percent, by weight; or

Note: The use of cleaning solutions with a VOM content above 30 percent, by weight, requires lithographic printing emissions to never exceed 100 lbs/day.
 - ii. The VOM composite partial vapor pressure of the as-used cleaning solution is less than 10 mmHg at 20°C (68°F);
 - c. Cause or allow VOM containing cleaning materials, including used cleaning towels, associated with any lithographic printing line to be kept, stored or disposed of in any manner other than in closed containers, except when specifically in use.
- 4a. The VOM emissions from the two coldest lithographic printing lines shall not exceed 2.42 tons/month and 19.35 tons/year. The VOM emissions shall be calculated using the following equations:

$$E = \sum(I_m \times V_{Im} \times 0.05) + \sum(CS_1 \times V_{CS1} R_{C1}) + \sum(S_n \times V_{Sn})$$

where:

E = VOM emissions (tons);

CS₁ = Manual cleaning solution usage (tons);

R_{C1} = Manual cleaning solution emission adjustment factor = 0.5 for low vapor pressure materials <10 mmHg, 1.0 for all other cleaning solutions;

V_{CS1} = VOM content of manual cleaning solution (% by weight);

I_m = Non-heatset ink usage (tons);

V_{I_m} = VOM content of non-heatset ink (% by weight);

S_n = Other VOM-containing materials used (tons);

V_{S_n} = VOM content of other VOM-containing materials (% by weight).

These limits are based on the maximum production rate and emission calculations based on 35 Ill Adm. Code 218.411(b)(1)(B).

- b. The emissions of Hazardous Air Pollutants (HAPs) as listed in Section 112(b) of the Clean Air Act from the source shall not exceed 0.9 tons/month and 9.0 tons/year of any single HAP and 2.42 tons/month and 19.35 tons/year of any combination of such HAPs. 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
 - c. 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.
- 5a. Pursuant to 35 Ill. Adm. Code 201.282, every emission source or air pollution control equipment shall be subject to the following testing requirements for the purpose of determining the nature and quantities of specified air contaminant emissions and for the purpose of determining ground level and ambient air concentrations of such air contaminants:
- i. Testing by Owner or Operator. The Illinois EPA may require the owner or operator of the emission source or air pollution control equipment to conduct such tests in accordance with procedures adopted by the Illinois EPA, at such reasonable times as may be specified by the Illinois EPA and at the expense of the owner or operator of the emission source or air pollution control equipment. The Illinois EPA may adopt procedures detailing methods of testing and formats for reporting results of testing. Such procedures and revisions thereto, shall not become effective until filed with the Secretary of State, as required by the APA Act. All such tests shall be made by or under the direction of a person qualified by training and/or experience in the field of air pollution testing. The Illinois EPA shall have the right to observe all aspects of such tests.

- ii. Testing by the Illinois EPA. The Illinois EPA shall have the right to conduct such tests at any time at its own expense. Upon request of the Illinois EPA, the owner or operator of the emission source or air pollution control equipment shall provide, without charge to the Illinois EPA, necessary holes in stacks or ducts and other safe and proper testing facilities, including scaffolding, but excluding instruments and sensing devices, as may be necessary.
 - b. Testing required by Condition 5 shall be performed upon a written request from the Illinois EPA by a qualified independent testing service.
6. 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.
7. Pursuant to 35 Ill. Adm. Code 218.411(g)(2), an owner or operator of lithographic printing line(s) using any of the exclusions set forth in 35 Ill. Adm. Code 218.411 shall collect and record the information in 35 Ill. Adm. Code 218.411(g)(2)(A) for all lithographic printing lines at the source:
- a. Calculations which demonstrate that combine emissions of VOM from all lithographic printing lines (including inks, fountain solutions, and solvents used for cleanup operations associated with the lithographic printing lines) at the source never exceed 45.5 kg/day (100 lbs/day) before the use of capture systems and control devices, determined in accordance with the calculations in 35 Ill. Adm. Code 218.411(b)(1)(B);

- b. The amount of cleaning materials used on lithographic printing lines at the source that does not comply with the cleaning material limitations in 35 Ill. Adm. Code 218.407(a)(4).
- 8a. The Permittee shall maintain records of the following items so as to demonstrate compliance with the conditions of this permit:
- i. Name and amount of inks used (lbs/month and tons/year);
 - ii. VOM and HAP content of inks used (% by weight);
 - iii. Name and amount of coatings used (lbs/month and tons/year);
 - iv. VOM and HAP content of coatings used (% by weight);
 - v. Name and amount of fountain solution used (lbs/month and tons/year);
 - vi. VOM and HAP content of fountain solution used (% by weight);
 - vii. Name and amount of all solvents used (lbs/month and tons/year);
 - viii. VOM and HAP content of solvents used (% by weight);
 - ix. Name and amount of other VOM containing materials used (lbs/month and tons/year);
 - x. VOM and HAP content of other VOM containing materials used (% by weight);
 - xi. The molecular weight, density and VOM composite partial vapor pressure of each cleaning solvent (complying with the VOM composite vapor pressure option);
 - xii. Number of days each month the printing lines operated; and
 - xiii. Monthly and annual emissions of VOM and HAP from the source with supporting calculations (lbs/month and tons/year).
- b. 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 storage device) 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.
9. Pursuant to 35 Ill. Adm. Code 218.411(g)(2)(B), an owner or operator of lithographic printing line(s) subject to one or more of the exclusions set forth in 35 Ill. Adm. Code 218.405(c)(3) shall notify the Illinois EPA in writing if the combined emissions of VOM from all lithographic printing lines (including inks, fountain solutions, and solvents used for cleanup operations associated with the lithographic printing lines) at the source ever exceed 45.5 kg/day (100 lbs/day), before the use of

capture systems and control devices, within 30 days after the event occurs.

10a. If there is an exceedance of or a 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 or 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.

b. 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
9511 West Harrison
Des Plaines, Illinois 60016

It should be noted this permit has been revised to remove material usage limitations and reduce VOM emissions.

If you have any questions on this, please call David Hulskotter at 217/782-2113.

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

Date Signed: _____

ECB:DWH:psj

cc: Illinois EPA, FOS Region 1
Lotus Notes

Attachment A - Emission Summary

This attachment provides a summary of the maximum emissions from the Printing 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. The resulting maximum emissions are well below the levels (e.g., 100 tons per year of VOM, 10 tons per year for any single HAP, and 25 tons per year for any combination of such HAP) 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.

		E M I S S I O N S (Tons/Year)		
		<u>VOM</u>	<u>Single HAP</u>	<u>Total HAPs</u>
2 Coldset Lithographic				
Printing Lines		<u>19.35</u>	<u>9.0</u>	<u>19.35</u>
	Total	19.35	9.0	19.35