

Illinois Environmental Protection Agency
Bureau of Air, Permit Section
1021 N. Grand Avenue East
P.O. Box 19506
Springfield, Illinois 62794-9506
217/782-2113

Project Summary for a
Construction Permit Application from
Graphic Packaging International, Inc. for
Two Lithographic Presses and Coating Units
at Its Existing Facility in
Carol Stream, Illinois

Site Identification No.: 043020AAC
Application No.: 11080040

Illinois EPA Contacts

Permit Analyst: Jason Schnepf
Community Relations Coordinator: Brad Frost

Important Dates:

Application Received: August 16, 2011
Public Comment Period Begins: September 9, 2011
Public Comment Period Closes: October 9, 2011

I. INTRODUCTION

Graphic Packaging International, Inc. (GPII) manufactures folding cartons. GPII has applied for a construction permit for installation of two new lithographic sheet-fed presses (Press #6 and #7) each with a flexographic coating unit.

The Illinois EPA has reviewed the application and made a preliminary determination that this application meets applicable requirements. Accordingly, the Illinois EPA has prepared a draft of the air pollution control construction permit that it would propose to issue for this project. However, before issuing this permit, the Illinois EPA is holding a public comment period to receive written comments on the proposed issuance of this permit and the terms and conditions of the draft permit.

II. PROJECT DESCRIPTION

This project involves installation of two new lithographic sheet-fed presses (Press #6 and #7) each with a flexographic coating unit. The presses will apply inks and coatings on folding cartons. In addition to printing inks, fountain solutions, cleaning solvents and solutions are used. The presses will also include a flexographic coating unit. The flexographic coating units will apply a water-based coating after the printing process. Hot air knives and an infrared dryer will dry the coatings.

As part of this project, GPII is relying on decreases in emissions of volatile organic material (VOM) at certain existing equipment. The existing equipment has either been removed from the site or will be decommissioned prior to startup of the new presses.

GPII had previously applied for a project to install Press #6 and #7 (Permit No. 09090006 issued November 2009), but construction for that project never commenced.

III. APPLICABLE EMISSION STANDARDS

All emission sources in Illinois must comply with Illinois Pollution Control Board emission standards. The Board's emission standard represents the basic requirements for sources in Illinois.

For the new printing lines, the Permittee would be required to comply with the established requirements for presses, as identified in the source's CAAPP permit. In particular, the new presses would be subject to 35 IAC Part 218 Subpart H: Printing and Publishing, which requires use of low VOM content fountain solutions and cleaning solvents. The coating units on each press would be required to comply with the

state's Use of Organic Material rule, which limits organic material emissions to below 8 pounds per hour.

IV. EVALUATION OF THE CHANGE IN EMISSIONS

The proposed project is not a major project for purposes of Major Stationary Sources Construction and Modification (MSSCAM), 35 IAC Part 203, also known as nonattainment New Source Review. In particular, GPII has chosen to evaluate the net change in VOM emissions at the source. This evaluation involves summing all creditable increases and decreases for the project as well as other increases and decreases that have occurred over the contemporaneous¹ time period. The results of this evaluation show that the net changes in emissions for this project will be less than significant, i.e., an increase of only 30.4 tons/year compared to the 40 tons/year significant emission rate for VOM. A summary of this evaluation follows:

VOM Netting Analysis (Tons/Year)

	Date	Permit	VOM
Project Emissions Increase	Est. 10/2011	11080040	41.6
Contemporaneous Increases			
Gluer	9/2008	08080035	0.1
Gluer	9/2009	09050056	0.1
Increases Subtotal			0.2
Contemporaneous Decreases			
Lithographic Press #4	Est. 10/2011	11080040	6.4
Shutdown Rotogravure Press #9	9/2009	11080040	5.0
Decreases Subtotal			11.4
NET EMISSIONS CHANGE			30.4
Significance Threshold			40
Greater Than Significant			No

V. CONTENTS OF PERMIT

The permit contains appropriate conditions for implementation of the applicable state standards for VOM emissions from the new presses. These standards require testing, monitoring, recordkeeping, and reporting to verify compliance.

VI. REQUEST FOR COMMENTS

It is the Illinois EPA's preliminary determination that this proposed project meets all applicable state and federal air pollution control requirements, subject to the conditions proposed in the draft permit.

¹The contemporaneous time period begins August 16, 2006.

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Comments are requested by the Illinois EPA on this proposed issuance of a permit for the proposed project. If substantial public concern is shown in this matter the Illinois EPA will consider holding a public hearing in accordance with 35 IAC Part 166.

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