

Illinois Environmental Protection Agency
Bureau of Air, Permit Section
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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.: 09090006

Illinois EPA Contacts

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Important Dates:

Application Received: September 8, 2009
Public Comment Period Begins: October 19, 2009
Public Comment Period Closes: November 18, 2009

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 a decrease in emissions of volatile organic material (VOM) that occurred when certain existing equipment was shutdown. The shutdown equipment has been removed from the site.

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 established requirements for other coating units at the plant, as identified in the source's CAAPP permit. In particular, the coating units would be subject to 35 IAC Part 218 Subpart F: Coating Operations, which requires that coatings meet 2.3 pounds of VOM per gallon of coating.

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 35.56 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	1/2010	09090006	76.06
Contemporaneous Increases			
Transportable Solvent Recycle Unit	10/2004	04080009	0.44
Gluer	9/2008	08080035	0.10
Gluer	9/2009	09050056	0.10
Increases Subtotal			0.64
Contemporaneous Decreases			
Shutdown Rotogravure Press #9	9/2009	09090006	16.49
Shutdown Rotogravure Press #10	12/2004	09090006	24.64
Transportable Solvent Recycle Unit	12/2005	09090006	0.01
Decreases Subtotal			41.14
NET EMISSIONS CHANGE			35.56
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 units that are part of this project. 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.

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.

¹The contemporaneous time period begins September 2004.