

## Project Summary

### I. INTRODUCTION

This source has applied for a Clean Air Act Permit Program (CAAPP) operating permit for its existing operation. The CAAPP is the program established in Illinois for the operating permits for significant stationary sources required by the federal Clean Air Act, as amended in 1990. The conditions in a CAAPP permit are enforceable by both the Illinois Environmental Protection Agency (Illinois EPA) and the USEPA.

The MeadWestvaco Packaging Systems LLC located in Chicago, Cook County, Illinois (MEAD-Chicago) is located in a severe ozone nonattainment area, and is considered a major source based on potential volatile organic material (VOM) emissions in excess of 25 tons per year. The primary VOM emitting units at MEAD-Chicago are the flexographic and rotogravure printing presses. Potential emissions of all other regulated air contaminants from MEAD-Chicago are less than major source thresholds. MEAD-Chicago manufactures folding cartons used for secondary packaging primarily by the beverage industry. The cartons are manufactured from natural Kraft paperboard and coated Kraft paperboard. Rolls of paperboard are first printed with graphic arts using one of the printing presses at the plant. The paperboard then passes through a die cutter that cuts the printed paperboard to the size and shape for the package being produced. Cut paperboard then passes through a series of folders/glue lines, which fold the paperboard into the desired carton shape, and an adhesive may be applied to the carton so that it may maintain its final form. Finally, the cartons are packaged in boxes and stored until shipped.

### II. EMISSION UNITS

Significant emission units at this source are as follows:

Emission Unit	Description	Date Constructed	Emission Control Equipment
Unit 01	Flexographic Printing	12/80 Last	None

	Press #297 with 7.4 mmBtu/hr Natural Gas Fired Dryer	Modified 9/93	
	Rotogravure Printing Press #507 with 8.0 mmBtu/hr Natural Gas Fired Dryer	2/73 Last Modified 12/96	None
	Rotogravure Printing Press #417 with 8.0 mmBtu/hr Natural Gas Fired Dryer	2/73 Last Modified 7/93	None
Unit 02	By-Product Paperboard Separator (Recovery Unit)	7/95	Paperboard Baghouse
Unit 03	Natural Gas Fired Make-Up Heaters with Combined Maximum Firing Rate of 19.4 mmBtu/hr	11/91	None
Unit 04	Flexographic Printing Press #3120 with Natural Gas-Fired Drying Systems (Total Capacity: 7.5 mmBtu/hour)	June, 2002	None

### III. EMISSIONS

This source is required to have a CAAPP permit since it is a major source of emissions.

For purposes of fees, the source is allowed the following emissions:

#### Permitted Emissions of Regulated Pollutants

Pollutant	Tons/Year
Volatile Organic Material (VOM)	262.17
Sulfur Dioxide (SO <sub>2</sub> )	0.13
Particulate Matter (PM)	1.54
Nitrogen Oxides (NO <sub>x</sub> )	21.8
HAP, not included in VOM or PM	---
TOTAL	285.64

This permit is a combined Title I/CAAPP permit that may contain terms and conditions which address the applicability, and compliance if determined applicable, of Title I of the Clean Air Act and regulations promulgated thereunder, including 40 CFR 52.21 - federal Prevention of Significant Deterioration (PSD) and 35 IAC Part 203 - Major Stationary Sources Construction and Modification. Any such terms and conditions are identified within the permit by T1, T1R, or T1N. The source has requested that the Illinois EPA establish or revise such conditions in a Title I permit, consistent with the information provided in the CAAPP application. Any conditions established in a construction permit pursuant to Title I and not revised or deleted in this permit, remain in effect pursuant to Title I provisions until such time that the Illinois EPA revises or deletes them.

### IV. APPLICABLE EMISSION STANDARDS

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

All emission sources in Illinois must comply with the federal New Source Performance Standards (NSPS). The Illinois EPA is administering NSPS in Illinois on behalf of the United States EPA under a delegation agreement.

All emission sources in Illinois must comply with the federal National Emission Standards for Hazardous Air Pollutants (NESHAP). The Illinois EPA is administering NESHAP in Illinois on behalf of the United States EPA under a delegation agreement.

V. PROPOSED PERMIT

CAAPP

A CAAPP permit contains all conditions that apply to a source and a listing of the applicable state and federal air pollution control regulations that are the origin of the conditions. The permit also contains emission limits and appropriate compliance procedures. The appropriate compliance procedures may include inspections, work practices, monitoring, record keeping, and reporting to show compliance with these requirements. The Permittee must carry out these procedures on an on-going basis.

Title I

A combined Title I/CAAPP permit contains terms and conditions established by the Illinois EPA pursuant to authority found in Title I provisions, e.g., 40 CFR 52.21 - federal Prevention of Significant Deterioration (PSD) and 35 IAC Part 203 - Major Stationary Sources Construction and Modification. Notwithstanding the expiration date on the first page of the permit, the Title I conditions remain in effect pursuant to Title I provisions until the Illinois EPA deletes or revises them in accordance with Title I procedures.

Because this source is located in the Chicago ozone non-attainment area and emits volatile organic material (VOM), the permit includes conditions to implement the Emissions Reduction Market System (ERMS). The ERMS is a market-based program designed to reduce VOM emissions from stationary sources to contribute to reasonable further progress toward attainment, as further described in Section 6.0 of the permit. The permit contains the Illinois EPA's determination of the source's baseline emissions and allotment of trading units under the ERMS, and identifies units not subject to further reductions. The permit also

provides that the source must begin to operate under the ERMS following the initial issuance of allotment trading units to the source. This will occur for the 2000 seasonal allotment period (rather than the 1999 season as originally intended by the ERMS) due in part to delays in the initial issuance of CAAPP Permits. These delays, which have occurred nationally, are attributable to a variety of causes including the unforeseen complexity of processing these permits and gaps in national guidance. Even though operation under the ERMS will not officially start until the 2000 seasonal allotment period, detailed recordkeeping and reporting of seasonal emissions was required beginning in 1998, which will document emissions reductions achieved by sources in 1999 in preparation for the ERMS.

#### VI. REQUEST FOR COMMENTS

It is the Illinois EPA's preliminary determination that this source's permit application meets the standards for issuance of a CAAPP permit. The Illinois EPA is therefore proposing to issue a CAAPP permit, subject to the conditions proposed in the draft permit.

Comments are requested on this proposed action by the Illinois EPA and the proposed conditions on the draft permit. If substantial public interest is shown in this matter, the Illinois EPA will consider holding a public hearing in accordance with 35 Ill. Adm. Code Part 166.

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