

I. INTRODUCTION

This source has applied for the renewal of its 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.

Minnesota Diversified Products, Incorporated is located at 1101 Lori Lane in Mendota. The source manufactures polystyrene boardstock. This process consists of expanding polystyrene beads by heating them with steam and injecting a blowing agent into the softened beads until the desired density of the mix is reached. The beads are then stored to allow for curing. After curing, the bead mix is transferred to a molding machine. Molding consists of filling a mold with cured beads, softening the bead mix by steam heating, and injecting more blowing agent into the mix to further expand the material. Once the molded mix has cured, the material is then cut to the desired size and shape by hot wires.

II. EMISSION UNITS

Significant emission units at this source are as follows:

| Emission Unit | Description | Maximum Firing Rate | Date of Construction | Emission Control Equipment |
|---------------|--|--|--|----------------------------|
| 01 | Two Natural Gas Fired Steam Producing Boilers, B1 and B2 | B1 = 16.738 mmBtu/hr B2 = 10.043 mmBtu/hr | B1 = Prior to 1987 B2 = Prior to 1987 | None |
| 02 | Two Pre-Expanders and Curing | ----- | E1 = 1995 E2 = 1997 | None |
| | Molders, M1 and M2 and Curing | ----- | M1 = 1995 M2 = Prior to 1987 | None |

| | | | | |
|----|---|-------|-------------------------|-------------------------------|
| | Hot Wire Cutter | ----- | Prior to 1987 | None |
| 04 | Routers (A, B, And C), Kerfer and Grinder Deduster | ----- | After April 14, 1972 | Cyclones and Bag Filter |
| 05 | Hot Melt Glue Laminator | ----- | September 1, 1997 | 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) | 248.00 |
| Sulfur Dioxide (SO ₂) | 0.1 |
| Particulate Matter (PM) | 10.70 |
| Nitrogen Oxides (NO _x) | 16.50 |
| HAP, not included in VOM or PM | ----- |
| Total | 275.27 |

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.

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.