

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

BUREAU OF AIR

DIVISION of AIR POLLUTION CONTROL

PERMIT SECTION

PROJECT SUMMARY for the
DRAFT TITLE V - CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT

Sun Chemical - General Printing Ink Division
135 West Lake Street
Northlake, Illinois 60164

Permit Engineer/Technical Contact: Jonathan Sperry, 217/782-2113

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Springfield, Illinois

I. INTRODUCTION

This source has applied for a renewal of the Title V - Clean Air Act Permit Program (CAAPP) operating permit (I.D. 031471AAE, Permit #96030098,) for its existing operation. The CAAPP is the program established in Illinois for operating permits for significant stationary sources as required by the federal Clean Air Act, as amended in 1990, and 40 CFR Part 70. Unlike state operating permits, the conditions in a CAAPP permit are enforceable by both the Illinois Environmental Protection Agency (Illinois EPA) and the USEPA. This document is for informational purposes only and does not shield the Permittee from enforcement actions or its responsibility to comply with applicable regulations. This document shall not constitute a defense to a violation of the Act or any rule or regulation.

A Title V permit contains conditions listing the applicable state and federal air pollution control regulations that apply to a source. The permit conditions also establish emission limits, appropriate compliance procedures, and specific operational flexibility. The appropriate compliance procedures may include monitoring, record keeping, and reporting to show compliance with these requirements. The Permittee must carry out these procedures on an on-going basis to demonstrate that the source is operating in accordance with the requirements of the permit.

II. SOURCE DESCRIPTION INFORMATION

a. Location and nature of business

The Sun Chemical - General Printing Ink Division is located at 135 West Lake Street in Northlake, IL. The source manufactures printing inks, coatings, wax compounds, and varnish. Bulk liquids are stored on site in storage tanks and are transferred to any of seven departments. Departments vary by equipment, process parameters, and products, and are identified as follows: ball mills, regular grinding, bulk grinding, cutters, blending, compounds, and ultraviolet. Base produced in one department may be further finished in another department. Base differs from finished ink in that finished ink refers to a final product that is shipped to a customer, whereas base is a concentrated form of ink and is used as a raw material in another process line or packaged and shipped to another location for further processing.

b. National Ambient Air Quality Standard status for this area

This source is located in an area that is in non-attainment of the National Ambient Air Quality Standards for ozone and attainment for all other pollutants.

c. Major source status

The proposed permit is based on:

1. The source requiring a CAAPP permit as a major source of VOM emissions.

d. Significant emission units

Emission Unit	Description	Date Constructed	Emission Control Equipment
Ball Mills			
01	3 Ball Mills (MBM20-21 and MBM33)	Prior to 1972 (MBM33: 2002)	Dust Collector #2 (DC02)
02	6 Ball Mills (MBM 22-23, 25-26, 31-32)	Prior to 1972	Dust Collector #3 (DC03)
Regular Grinding			
03	2 Premixers (MPM1-2), 2 Mixers (PM5-6), and Basket Mill Premixer	Prior to 1972 (Basket Mill Premixer: 2000, PM5-6: 2002)	Dust Collector #2 (DC02)
04	6 Air Mixers (MAM1-6)	Prior to 1972	None
05	2 Horizontal Mills (MHM5-6)	Prior to 1972	None
06	6 Tubs (MT1-6)	Prior to 1972	None
07	3 Let Down Mixers (MLD1-3)	Prior to 1972	None
22	4 Vertical Shot Mills (VM1-4)	2002	None
Bulk Grinding			
08	4 Premix Tanks (M1A-M4A)	1992	Dust Collector #1 (DC01)
09	5 Horizontal Mills (M1BA, M1B-M4B)	1992	None
10	4 Letdown Tanks (M1C-M4C)	1992	None
11	Drum Filler and Tote Filler (M5A-M5B)	1992	None
Cutters			
12	21 Cutters (MC1-21)	Prior to 1972 (MC1-19 modified in 1992, MC20-21 constructed in 2002)	Dust Collector #1 (DC01)
Blending			

Emission Unit	Description	Date Constructed	Emission Control Equipment
13	2 Blending Mixers (MBL01-02)	Prior to 1972	Dust Collector #1 (DC01)
Compound Operations			
19	2 Compound Tanks (MCPD1-2)	Prior to 1972	None

Emission Unit	Description	Date Constructed	Emission Control Equipment
UV Coating Operations			
20	5 UV Mixers (UV1-5)	1990	UV Wet Plate Scrubber (SCRB03)

III. EMISSIONS INFORMATION

The proposed permit limits the source wide maximum annual emissions from significant emission units at the source. Insignificant activities at this source are not accounted for in the source-wide limit. Further unit specific emission unit limitations are found within Sections 5 and 7 of the proposed permit.

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

Pollutant	Tons/Year
Volatile Organic Material (VOM)	182.32
Sulfur Dioxide (SO ₂)	0.00
Particulate Matter (PM)	3.27
Nitrogen Oxides (NO _x)	0.00
Hazardous Air pollutant (HAP), not included in VOM or PM	----
Total	185.59

This proposed permit contains terms and conditions that address the applicability, and, if determined applicable, substantive requirements of Title I of the Clean Air Act (CAA) and regulations promulgated thereunder, including 40 CFR 52.21, 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 proposed permit by T1, T1R, or T1N. Any conditions established in a construction permit [T1] pursuant to Title I and not revised or deleted in this proposed permit, remain in effect pursuant to Title I provisions until such time that the Illinois EPA revises or deletes them. Where the source has requested that the Illinois EPA establish new [T1N] or revise [T1R] such conditions in a Title I permit, those conditions are consistent with the information provided in the Title V application and will remain in effect pursuant to Title I provisions until such time that the Illinois EPA revises or deletes them.

This proposed permit does establish newly revised [T1R] requirements.

IV. EMISSIONS CONTROL PROGRAMS INFORMATION

a. Emissions Reduction Market System (ERMS)

Because this source is located in the Chicago ozone non-attainment area and emits volatile organic material (VOM), the proposed 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 proposed permit. The proposed 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.

V. COMPLIANCE ASSURANCE MONITORING (CAM) PLAN INFORMATION

The Compliance Assurance Monitoring (CAM) plan is a program for pollutant-specific emission units which use an add-on control device to achieve compliance with an emission limitation or standard, has potential pre-control device emissions of the applicable regulated air pollutant that are equal to or greater than major source threshold levels, and is not specifically exempt by 40 CFR Part 64. There are no specific emission units that require a CAM plan as identified in the Monitoring Requirements of Subsection 8 for each Section 7, Unit Specific Conditions for Specific Emission Units.

VI. OTHER PERTINENT INFORMATION

a. Risk Management Plan (RMP)

A risk management plan (RMP) is a program required for a source affected by Chemical Accident Prevention for reducing the levels of emissions during an emergency, consistent with safe operating procedures. If the Permittee becomes subject to the RMP then the Permittee would be required to immediately implement the appropriate steps described in this plan should an emergency be declared. The Permittee then would be required to maintain and have this plan on file with the Illinois EPA.

b. Episode Action Plan (EAP)

An episode action plan (EAP) is a program for reducing the levels of emissions during yellow alerts, red alerts, and emergencies, consistent with safe operating procedures. The Permittee is required to immediately implement the appropriate steps described in this plan should an air pollution alert or emergency be declared. The Permittee is required to maintain and have this plan on file with the Illinois EPA.

VII. COMPLIANCE INFORMATION

The source has certified compliance with all applicable rules and regulations; therefore, a compliance schedule is not required for this source.

VIII. REQUEST FOR COMMENTS

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

Comments are requested by the Illinois EPA for the proposed 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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