

Illinois Environmental Protection Agency
Bureau of Air, Permit Section
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Project Summary for an Application from
The W. W. Henry Company for Renewal of the
Federally Enforceable State Operating Permit (FESOP) for
Its Adhesives, Floor Care and Cement Products Manufacturing Plant
In Bourbonnais, Illinois

Site Identification No.: 091015AAA
Application No.: 91100101

Schedule

Public Comment Period Begins: May 15, 2007
Public Comment Period Closes: June 14, 2007

Illinois EPA Contacts

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I. INTRODUCTION

The W.W. Henry Company has applied for renewal of its Federally Enforceable State Operating Permit (FESOP) for their adhesives, floor care products, cement products manufacturing facility. This plant requires an air pollution control operating permit because it is a source of emissions. The Illinois EPA has prepared a draft of the renewed permit that it would propose to issue for the plant. However, before renewing the permit, the Illinois EPA is holding a public comment period to receive comments on this proposed action and the terms and conditions of the draft permit that it would propose to issue.

II. SOURCE DESCRIPTION

The plant produces adhesives, epoxies, floor care products, and dry powdered products primarily for sale to commercial and industrial clients.

Operations at the facility are divided into three distinct areas: (1) adhesive products manufacturing, (2) floor care products manufacturing, and (3) powder products manufacturing. The adhesive and floor care product areas generally consist of numerous batch mixing tanks where various raw materials are combined to produce adhesives, grouts, rubber cements, resins, and floor care products. The finished materials are typically filled in small cans, buckets, and other containers for distribution. The adhesive and floor care operations are primarily a source of volatile organic material (VOM) emissions, particulate matter (PM) emissions, and hazardous air pollutant (HAP) emissions. The tanks emit VOM emissions. HAP and VOM emissions are uncontrolled. Particulate matter emissions from the adhesive and floor care operations are associated with charging dry materials to the mixers, and the particulate matter emissions are controlled by a series of four dust collection baghouses.

The powder products plant consists of mixing sand, cement, gypsum, and small amounts of other dry materials to form various dry products for sale and distribution. The powder plant is serviced by four storage silos and two powder product mixers. The powder plant is only a potential source of particulate matter emissions, and all emission points (i.e., the four silos, two cement product mixers, and the weigh hopper) are controlled by dust collecting baghouses. There are no VOM emissions associated with the powder plant.

III. GENERAL DISCUSSION

Federally Enforceable State Operating Permits (FESOPs) are federally enforceable, that is, the terms and conditions of the permits can be enforced by USEPA under federal law, as well as by Illinois government and the public under state law. These permits can establish federally enforceable limitations on the operation and emissions of a source that restrict the potential emissions of the source.

The source has been operating this plant under a FESOP because the actual emissions of the plant are below the levels at which the plant would be considered a major source under Title V of the federal Clean Air Act. However, in the absence of federally

enforceable limitations, the plant's potential emissions would be such that the plant would be considered a major source. The permit acts to restrict the plant potential emissions so that it need not be considered a major source. As a result, the source does not need not obtain a Clean Air Act Permit Program (CAAPP) permit for the plant, as would otherwise be required.

The FESOP limits the operation and annual emissions of the plant to below the major-source-thresholds of 100 tons for VOM, 100 tons for PM, 10 tons for an individual HAP and 25 tons for combined HAPs.

IV. APPLICABLE EMISSION STANDARDS

All emission units in Illinois must comply with state emission standards adopted by the Illinois Pollution Control Board. These emission standards represent the basic requirements for sources in Illinois. The board has standards for sources of Volatile Organic Material (VOM), and Particulate Matter (PM) emission. The application shows that the plant is in compliance with applicable state and federal emission standards.

The principal air contaminant of concern are particulate matter (PM) and volatile organic material (VOM) which is created by the plant mixers, silos, weight hoppers cement product, adhesive and floor care mixers, and tanks. The facility has limited their throughput that will keep the PM and VOM emissions below the major source threshold level of 100 tons per year for PM and 100 tons per year for VOM.

Other emissions of hazardous air pollutants (HAP) are also emitted; however, their levels are also depended on the amount of VOM and will remain below the major source threshold level of 10 ton per year for single HAP and 25 ton per year for combined total HAPs.

V. CONTENTS OF THE PERMIT

The renewed permit that the Illinois EPA is proposing to issue would continue to identify the specific emission standards that apply to the emission units at the plant.

The permit would also contain limitations and requirements to assure that this plant is operated as a non-major source. The permit would limit the operation and annual emissions of the plant to below the major-source-thresholds of 100 tons for VOM, 100 tons for PM, 10 tons for an individual HAP and 25 tons for combined HAPs. (Annual emissions of other pollutants from the plant are well below the 100 ton major source threshold.)

The permit would also set limitations on requirements to assure that this facility will be operated as a non-major source. The permit sets limitations on Adhesives, Floor Care and Cement Products Manufacturing Plant emissions. These limitations are consistent with the historical operation and capacity of the facility.

The permit conditions would also continue to require appropriate compliance procedures, including inspection practices as well as recordkeeping and reporting requirements. The source must carry out these procedures on an on-going basis to demonstrate that the plant is being operated within the limitations set by the permit and the plant's emissions are being properly controlled.

VI. REQUEST FOR COMMENTS

It is the Illinois EPA's preliminary determination that the source has met the requirements for renewal of its permit. The Illinois EPA is therefore proposing to renew the 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 IAC Part 166.