

Illinois Environmental Protection Agency  
Bureau of Air, Permit Section  
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Project Summary for an Application from  
Vesuvius USA for a Federally Enforceable  
State Operating Permit (FESOP) for  
Refractory Product Manufacturing in  
Chicago Heights, Illinois

Site Identification No.: 031045AEW  
Permit Application No.: 07100085

Schedule

Public Comment Period Begins: February 3, 2011  
Public Comment Period Closes: March 5, 2011

Illinois EPA Contacts

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## **I. INTRODUCTION**

Vesuvius USA – Chicago Facility has applied for a Federally Enforceable State Operating Permit (FESOP) for its refractory product manufacturing facility at 333 State Street, Chicago, Cook County, Illinois, 60411. This facility requires an air pollution control operating permit because it is a source of air emissions. The Illinois EPA has prepared a draft of the permit that it would propose to issue for the facility. However, before issuing 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**

Vesuvius USA operates a refractory precast shapes manufacturing facility. The process consists of creating mold of various sizes and shapes from refractory castable products.

## **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.

This facility has requested to operate under a FESOP because the actual emissions of the facility are below the levels at which the facility would be considered a major source under Title V of the federal Clean Air Act. However, in the absence of federally enforceable limitations, the facility's potential emissions would be such that the facility would be considered a major source. The permit acts to restrict the facility potential emissions so that it need not be considered a major source. As a result, the source does not need to obtain a Clean Air Act Permit Program (CAAPP) permit for the facility, as would otherwise be required.

The FESOP limits the operation and annual emissions of the facility to below the major-source-thresholds of 100 tons for Particulate Matter Less than 10 microns (PM<sub>10</sub>), Volatile Organic Material (VOM), and 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 Nitrogen oxides (NOx), Volatile Organic Material, Particulate Matter (PM<sub>10</sub>), and Carbon Monoxide (CO) emission. The application shows that the facility is in compliance with applicable state and federal emission standards.

## **V. CONTENTS OF THE PERMIT**

The FESOP permit that the Illinois EPA is proposing to issue will identify specific emission standards that apply to the emission units at the facility. The conditions of this permit are intended to ensure that the source continues to comply with applicable emission standards.

The permit would also contain limitations and requirements to assure that this facility is operated as a non-major source. The permit would limit the operation and annual emissions of the facility to below the major-source-thresholds of 100 tons for PM<sub>10</sub>, VOM, and 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 the minimum control efficiency and the amount of natural gas and/or #2 fuel oil used at this facility. These limitations are consistent with the proposed operation of emission units at the facility.

The permit conditions would also 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 facility is being operated within the limitations set by the permit and the facility'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 the permit. The Illinois EPA is therefore proposing to issue 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.