

Illinois Environmental Protection Agency
Bureau of Air, Permit Section

Project Summary for an Application for a
Construction Permit from Rowe Foundry, Inc. for
Two Paint Booths at its
Cast Iron Foundry in
Martinsville, Illinois

Site Identification No.: 023015AAD
Permit No.: 13110053

Illinois EPA Contacts

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Important Dates:

Application Received: November 25, 2013
Public Comment Period Begins: January 17, 2014
Public Comment Period Closes: February 16, 2014

I. INTRODUCTION

Rowe Foundry, Inc. ("Rowe") operates a foundry in Martinsville. Rowe has requested a construction permit for two paint booths. The paint booths would be used to paint finished castings.

The Illinois EPA has reviewed the request and made a preliminary determination that it meets applicable requirements. Accordingly, the Illinois EPA has prepared a draft of the air pollution control construction permit that it would now propose to issue for this project. However, before issuing this permit, the Illinois EPA is holding a public comment period to receive written comments on the proposed issuance of this permit and the terms and conditions of the draft of the permit.

II. SOURCE DESCRIPTION AND PROJECT DESCRIPTION

Rowe operates a cast iron foundry. It specializes in making counterweights for heavy equipment and farm implements.

This project involves installation of two paint booths that would be used to paint the finished castings. The booths would be equipped with filters for control of particulate emissions.

III. EVALUATION OF THE CHANGE IN EMISSIONS

Rowe is located in Martinsville in Clark County, an area in which proposed projects are regulated under the federal Prevention of Significant Deterioration of Air Quality (PSD) program. Rowe's existing operations qualify the facility as major source under the PSD rules.

As a major source under the PSD rules based on its potential emissions, the emissions for this project have been evaluated against the PSD rules to determine whether it is a major project. The applicable major modification thresholds for this project are: (i) volatile organic material (VOM), 40 tons/year; (ii) particulate matter (PM), 25 tons/year; (iii) particulate matter less than 10 microns (PM₁₀), 15 tons/year; and (iv) particulate matter less than 2.5 microns (PM_{2.5}), 10 tons/year. To avoid triggering these thresholds, Rowe has requested permitted emissions within these rates, i.e., 39.2 tons/year of VOM and 0.44 tons per year of PM/PM₁₀/PM_{2.5}; therefore, the project is not subject to PSD.

IV. CONTENTS OF PERMIT

The conditions of the proposed permit contain limits and requirements to assure that this project would not be a major project pursuant to the PSD rules.

For VOM emissions, the VOM contained in the coatings applied would be limited to 39.2 tons/year. For particulate emissions, the permit would require the use of filters, which would serve to assure emissions are not significant.

The draft permit would also address applicability of other federal and state rules. In particular, the new painting operation would be subject to the state rules for Miscellaneous Metal Parts and Products Coatings, which limits the weight of VOM per gallon of coating applied.

V. REQUEST FOR COMMENTS

It is the Illinois EPA's preliminary determination that this application for a construction permit meets all applicable state and federal air pollution control requirements, subject to the conditions in the draft permit. Comments are requested by the Illinois EPA on this proposed issuance of a permit.

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