

Illinois Environmental Protection Agency
Bureau of Air, Permit Section
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Project Summary
Renewal of their Federally Enforceable State Operating Permit (FESOP)
TSC Pyroferric International, Inc.
Toledo, Illinois

Site Identification No.: 035020AAK
Application No.: 93060092

Schedule

Public Comment Period Begins: June 19, 2014
Public Comment Period Closes: July 19, 2014

Illinois EPA Contacts

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I. INTRODUCTION

TSC Pyroferric International, Inc. has applied for a renewal of their Federally Enforceable State Operating Permit (FESOP) for its iron powder core manufacturing processes at the Toledo, Illinois location. 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 renewal 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

TSC Pyroferric International, Inc. is an iron powder core manufacturer for high frequency transformers and inductors, power conversion, line filters and radio frequency applications. The emission units at this plant that require an operating permit include mixers, electric powder drying ovens for mixing powder, acetone, and phosphatizing solution; chopping, sifting, and lubricating controlled by a baghouse; natural gas-fired curing ovens; coating booths; core grinding operations with coolant usage of a mixture of aliphatic hydrocarbon and a metalworking fluid which is primarily oil; sludge drying oven; rising/air drying process; acetone storage tanks; gas space heaters; and air make-up gas furnaces. These units are sources of emissions because volatile organic material (VOM) generated from the coolant usage, in the grinding operations and coating booths, and emissions from the iron powder process and fuel combustion.

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, 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. 35 Ill. Adm. Code 215.204(j) specifies the volatile organic material allowed in coating materials for miscellaneous metal parts and products coating. 35 Ill. Adm. Code 215.301 specifies limits of organic material discharge into the atmosphere from any emission source. The application shows that the plant is in compliance with applicable state emission standards.

V. CONTENTS OF THE PERMIT

The permit that the Illinois EPA is proposing to issue would identify the specific emission standards that apply to the emission units at the plant. As explained, the coating and printing operations are subject to 35 Ill. Adm. Code 215.204(j), and 215.301, which limits volatile organic materials in coatings and volatile organic materials into the atmosphere. 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 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, 10 tons for an individual HAP and 25 tons for combined HAPs.

The permit conditions would 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.