

Illinois Environmental Protection Agency
Bureau of Air, Permit Section
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Project Summary for an Application from
St. Louis Auto Shredding for Renewal of the
Federally Enforceable State Operating Permit (FESOP) for
1200 North First Street
East St. Louis, Illinois 62201

Site Identification No.: 163100AAM
Application No.: 76010080

Illinois EPA Contacts

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I. INTRODUCTION

St. Louis Auto Shredding has applied for renewal of its Federally Enforceable State Operating Permit (FESOP) for their metal shredding and recovery facility at 1200 North First Street in National City. 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

St. Louis Auto Shredding uses 4 diesel fired generators to power its metal recycling operation. There is a Metal Shredding operation consisting of a hammermill, rotary magnet, and 2 sets of cascades and conveyors controlled by 2 cyclones that is used in recycling automobiles. Zinc and aluminum are recovered from the shredded metal through the operation of the Metal Separator and Armature Furnace.

Emissions of sulfur dioxide (SO₂), particular matter (PM) and PM₁₀), volatile organic matters (VOM), NO_x and CO are generated from the operation of the diesel fire generators through fuel combustion. Emissions of PM, PM₁₀, and VOM occur from the metal recovery operations.

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. The emission standard that limits the armature furnace, metal separator, auto shredder and trammel drum is 35 Ill. Adm. Code 212.321(a). This regulation requires that particulate matter emissions do not exceed certain levels based on the process weight rate of the emission units. These emissions are also subject to 35 Ill. Adm. 219.301. This regulation restricts the discharge of organic material to 8 pounds per hour per emission units. The application shows that the plant is in compliance with applicable state (AND FEDERAL) emission standards.

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 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. (Annual emissions of other pollutants from the plant are well below the 100 ton major source threshold.)

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.