

Illinois Environmental Protection Agency
Bureau of Air, Permit Section
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Project Summary for an Application from
Xylem Inc., Residential and Commercial Water for a
Federally Enforceable State Operating Permit (FESOP) Renewal for
8200 North Austin Avenue
Morton Grove, Illinois 60053

Site Identification No.: 031195ABT
Application No.: 96030036

Illinois EPA Contacts
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I. INTRODUCTION

Xylem Inc., Residential and Commercial Water Division has applied for a Federally Enforceable State Operating Permit (FESOP) renewal for its facility at 8200 North Austin Avenue in Morton Grove. This facility requires an air pollution control operating permit because it is a source of emissions. The Illinois EPA has prepared a draft of 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

Xylem Inc. manufactures centrifugal pumps and various hydraulic components for heating ventilating, and air conditions applications. These products are produced by machining raw castings, assembling the resulting product to manufactured and/or purchased components (i.e., motors), painting, packaging and shipping the assembled product to various customers.

The largest source of air pollutants from this source is generated from the coating of metal industrial pumps. The coatings contain organic solvents which are emitted to the atmosphere during the coating process as VOM. These materials also contain components that are considered hazardous air pollutants.

The source operates a 10 million Btu per hour boiler and other small natural gas burning units.

The principal air contaminant emitted from fuel combustion is nitrogen oxides. Nitrogen oxides are formed thermally by a combination of oxygen and nitrogen in the air at a temperature at which fuel is burned. In addition, sulfur dioxides (SO₂), carbon monoxide (CO), particulate matter (PM) and volatile organic material (VOM) are emissions formed by combustion processes. CO is formed by the incomplete combustion of fuel. SO₂ emissions are mostly generated during the combustion of fuel oil.

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 is seeking 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 Illinois Pollution Control Board has specific standards for units emitting volatile organic material in the Greater Chicago Area. The specific standards for this company is 35 Ill. Adm. Code 218 Subpart F Regulations for Coating Operations. These regulations limit the amount of VOM that may be in the coatings used. The specific regulation is 35 Ill. Adm. Code 218.204(q)(1) extreme performance air dried metal parts coatings. This regulation requires the coatings cannot contain more than 3.5 pound of VOM per gallon of coating. There is a National Emission Standard for Hazardous Air Pollutants (NESHAP) for surface coating of miscellaneous metal parts. The requirements of the NESHAP apply to major sources of hazardous air pollutants. This source has emission limits in its permit that keep the amount of hazardous air pollutants below major levels, therefore the NESHAP regulations do not apply. The application shows that the plant is in compliance with applicable state and federal emission standards.

V. CONTENTS OF THE PERMIT

This permit that the Illinois EPA is proposing to issue will 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 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 issuance of its 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.

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