

Illinois Environmental Protection Agency  
Bureau of Air, Permit Section  
1021 N. Grand Avenue East  
P.O. Box 19506  
Springfield, Illinois 62794-9506

Project Summary for an Application from  
Allied Metal Company for a Federally Enforceable State Operating Permit (FESOP) for  
a Secondary Aluminum Smelting Facility located at  
4528 West Division Street, Chicago

Site Identification No.: 031600ADP  
Application No.: 95120165

Schedule

Public Comment Period Begins: August 5, 2011

Public Comment Period Closes: September 4, 2011

Illinois EPA Contacts

Permit Analyst: German Barria

Community Relations Coordinator: Brad Frost

## **I. INTRODUCTION**

Allied Metal Company applied for a Federally Enforceable State Operating Permit (FESOP) for its facility located at 4528 West Division Street, Chicago, Cook County, 60651. This facility requires an air pollution control operating permit because it is a source of Particulate Matter less than 10 microns (PM<sub>10</sub>), Carbon Monoxide (CO), Nitrogen Oxides (NO<sub>x</sub>), and HAPs emissions. The Illinois EPA has prepared a draft 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**

Allied Metal Company operates a Secondary Aluminum Smelting Facility located at 4528 West Division Street, Chicago, Cook County, 60651. Aluminum or precious metals bearing scrap is shredded, sorted and fed into the various smelting furnaces. Allied Metal Company employs different kinds of furnaces (rotary, reverberatory, induction, etc.) for recovery of different metals, rotary scrap crusher, molten pot preheaters, and other heating units are used for recovery of precious metals. This facility requires an Air permit because of its Particulate Matter less than 10 microns (PM<sub>10</sub>), Carbon Monoxide (CO), Nitrogen Oxides (NO<sub>x</sub>), Volatile Organic compound (VOM), Sulfur Dioxide (SO<sub>2</sub>), and HAPs emissions. The principal pollutants of concern here are PM<sub>10</sub>, CO, NO<sub>x</sub>, and VOM that is generated from its plant operation.

## **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 will be operating 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 PM<sub>10</sub>, CO, NO<sub>x</sub>, and VOM.

## **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 Particulate Matter (PM<sub>10</sub>), Carbon Monoxide (CO), Nitrogen oxides (NO<sub>x</sub>), Volatile Organic

Material, Sulfur Dioxide (SO<sub>2</sub>) emission, and HAPs. The application shows that the facility is in compliance with applicable state (AND FEDERAL) emission standards.

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

The permit that the Illinois EPA is proposing to issue identifies specific emission standards that apply to the emission units at the facility. The conditions of this permit are intended to ensure that the source complies 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 limits the operation and annual emissions of the facility to below the major-source-thresholds of 100 tons for PM<sub>10</sub>, CO, NO<sub>x</sub>, and VOM (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 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 this 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.