

217/782-2113

JOINT CONSTRUCTION AND OPERATING PERMIT

PERMITTEE

American Steel Foundries
Attn: Doug Stralke
1700 Walnut
Granite City, Illinois 62040

Application No.: 99060086
Applicant's Designation: 062299
Subject: Pep Set Coremaking
Date Issued: November 16, 1999

I.D. No.: 119040AAC
Date Received: August 25, 1999

Operating Permit Expiration
Date: November 16, 2004

Location: 1700 Walnut, Granite City

Permit is hereby granted to the above-designated Permittee to CONSTRUCT and OPERATE emission source(s) and/or air pollution control equipment consisting of pep set as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

1.0 Unit Specific Conditions

1.1 Pep Set

1.1.1 Description

This process makes cores out of sand and resin. VOM and HAP emissions are generated by the volatilization of these pollutants from the resin.

1.1.2 List of Emission Units and Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
Pep Set	Equipment used to make cores	None

1.1.3 Applicability Provisions and Applicable Regulations

- a. The Pep Set is an "affected unit" for purposes of these unit-specific conditions.
- b. No person shall cause or allow the discharge of more than 3.6 kg/hr (8 lb/hr) of organic material into the atmosphere from any emission unit, except as provided in 35 IAC 219.302, 219.303, or 219.304 and the

following exemption: If no odor nuisance exists the limitation of 35 IAC 219 Subpart G shall only apply to photochemically reactive material [35 IAC 219.301].

1.1.4 Non-Applicability of Regulations of Concern

The affected unit is not subject to the control requirements of 35 IAC 219.986 because the facility falls under the classification of a steel production [35 IAC 219.980(e)].

1.1.5 Operational and Production Limits and Work Practices

None

1.1.6 Emission Limitations

a. The affected unit is subject to the following:

Emission Unit	Total VOM Emissions Tons/Month	Total VOM Emissions Tons/Year
Pep Set	3.3	39.5

Emissions of total VOM from the affected unit, as a whole, shall not exceed 39.5 tons per year and 3.3 tons per month, established at the request of the Permittee based on the limit of 675 tons of Resin. Compliance with annual limits shall be determined from a running total of 12 months of data.

b. This permit is issued based on the emissions of HAPS as listed in Section 112(b) of the CAA not being equal to or exceeding 10 tons per year of a single HAP or 25 tons per year of any combinations of such HAPS, so that this source is considered a minor source for HAPS.

1.1.7 Testing Requirements

None

1.1.8 Monitoring Requirements

None

1.1.9 Recordkeeping Requirements

The Permittee shall maintain records of the following items for the affected unit to demonstrate compliance with Conditions 1.1.3, and 1.1.6:

- a. Hours of operation
- b. Usage rate of resin (lbs/month)
- c. The monthly and yearly VOM emissions from the affected unit based on emission factors and resin usage and formulas with supporting calculations

1.1.10 Reporting Requirements

The Permittee shall notify the Illinois EPA of any record showing violation of emission limit in Condition 1.1.6 within 30 days of such an occurrence of the violation.

1.1.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

1.1.12 Compliance Procedures

Compliance with the emission limits shall be based on the recordkeeping requirements in Condition 1.1.9 and the formula listed below:

To determine compliance with Conditions 1.1.3 and 1.1.6, VOM emissions from the affected unit shall be calculated based on the following:

$$\text{VOM}(\text{lb/month}) = \text{Usage of resin (lb/month)} \times \text{EF}$$

where:

EF = emission factor of 0.0585 lb VOM/lb resin. This is based on the mix of sand and resin, with resin being at maximum of 2%. There is 2.34 lb VOC per ton of mixture.

If you have any questions on this, please call Robin Helmerichs at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:RBH:psj

cc: Region 3