

217/782-2113

CONSTRUCTION PERMIT

PERMITTEE

ASF - Keystone, Inc.
Attn: Doug Stracke
1700 Walnut
Granite City, Illinois 62040

Application No.: 03020018
Applicant's Designation: 012403
Subject: Pep Set Coremaking Line 1 & 2
Date Issued:
Location: 1700 Walnut, Granite City

I.D. No.: 119040AAC
Date Received: February 10, 2003

Permit is hereby granted to the above-designated Permittee to CONSTRUCT emission source(s) and/or air pollution control equipment consisting of a new pep set core making line 2 and revised limits for pep set core making line 1 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 Core Making Lines 1 & 2

1.1.1 Description

These process units make 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 Units	Description	Emission Control Equipment
Pep Set Core Making Line 1 & 2	Equipment used to make cores	None

1.1.3 Applicability Provisions and Applicable Regulations

- a. The Pep set core making lines 1 & 2 are "affected units" 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 units are 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

Usage of resin shall not exceed 418.8 tons per year.

1.1.6 Emission Limitations

a. The affected units are subject to the following:

Emission Unit	Total VOM Emissions Tons/Month	Total VOM Emissions Tons/Year
Pep Set core making lines 1 & 2	3.0	24.5

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 units to demonstrate compliance with Conditions 1.1.3, and 1.1.6:

a. Hours of operation;

- b. Usage rate of resin (lbs/month and tons/year); and
- 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 units shall be calculated based on the following:

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

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.

Please note, this permit supersedes permit No. 99060086 as it pertains to Pep set core making line 1. The modification of pep set line 1 represents a decrease in permitted emissions for this unit.

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

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

DES:RBH:psj

cc: Region 3