

AIR EMISSION SUMMARY

The air contaminant sources listed below comprise the Permit to Install for The General Casting Co.-West Liberty located in Logan County. The sources listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

OHIO EPA SOURCE #	SOURCE DESCRIPTION	BAT DETERMINATION	APPLICABLE FEDERAL & OAC RULES	PERMIT ALLOWABLE MASS EMISSIONS & CONTROL & USAGE REQUIREMENTS
P025	Core Wash Booth	Compliance with applicable rule/specified allowable emissions; use of non-photochemically reactive materials	3745-31-05	140.4 lbs/day, 4352.4 lbs/month, 25.6 TPY OC
			3745-21-07 (G) (2)	refer to B.1. of Additional Special Terms and Conditions

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS	
POLLUTANT	TONS/YEAR
Organic Compounds (OC)	25.6

Facility Name: The General Casting Company-West Liberty  
 OEPA Facility ID #: 0546000081  
 PTI #05-8886

**Additional Special Terms and Conditions**

**A. Applicable Emissions Limitations and/or Control Requirements**

This permit allows the use of core wash specified by the permittee in the PTI [05-8886] for this emissions unit. In conjunction with the best available technology requirements of OAC rule 3745-31-05, the organic compound emission limitation specified in this permit was established in

accordance with the Ohio EPA's "Air Toxics Policy" and is based on material employed formulation data and the design parameters of the emissions unit's exhaust system, as specified in the application. Compliance with the Ohio EPA's "Air Toxics Policy" was demonstrated for each pollutant based on the SCREEN 3.0 model and a comparison of the predicted 1-hour maximum ground-level concentration to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for each pollutant:

Pollutant:	Xylene
TLV (ug/m3):	434,000
Maximum Hourly Emission Rate (lbs/hr):	5.85
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3):	419.7
MAGLC (ug/m3)	10,333

As long as the application of the "Air Toxics Policy" continues to show compliance with the applicable MAGLC, the permittee may implement any of the following changes with prior notification to and approval from the appropriate Ohio EPA District Office or local air agency:

- a. any changes in the composition of the core wash, or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value specified in the above table;
- b. any change to the emissions unit or its exhaust parameters (e.g., increased emission rate, reduction of exhaust gas flow rate, and decreased stack height);
- c. any change in the composition of the core wash, or use of new materials, that would result in the emission of any of the exempted organic compounds included in the definition of "VOC" [OAC rule 3745-21-01(B)(6)]; and
- d. any change in the composition of the core wash, or use of new materials, that would result in an increase in emissions of any "Hazardous Air Pollutants" as defined in OAC rule 3745-77-01(V).

## **B. Operational Restrictions**

1. The use of photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), in this emissions unit is prohibited.

Prior to employing any photochemically reactive materials, the permittee shall provide written notification to, and obtain approval from, the Ohio EPA field office. Such notification shall include information sufficient to determine that the emissions associated with the proposed change in materials will comply with the emission limits and/or control requirements as defined in OAC 3745-21-07(G)(2). This notification, at a minimum, shall include the company identification of the new material to be employed, the solvent composition of the material, and the

maximum amount to be used, in pounds per hour.

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall collect and record the following information for each month for P025:
  - a. The company identification for the core wash employed.
  - b. The number of gallons of core wash employed.
  - c. The organic compound (OC) content of the core wash, in lbs/gallon.
  - d. The total OC emission rate for the core wash, in lbs/month.
  - e. The total number of days the emissions unit was in operation.
  - f. The average daily OC emission rate for the core wash, i.e., (d)/(e), in lbs/day.
2. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings, if a strip-chart recorder is employed, for continuous monitoring instrumentation, and copies of all reports required by the permit. Such records may be maintained in computerized form.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. An identification of each day during which the average OC emissions from the core wash employed exceeded 140.4 lbs/day, and the actual average OC emissions for each such day.
  - b. An identification of each month during which the OC emissions from the core wash employed exceeded 4352.4 lbs/month, and the actual OC emissions for each such month.
2. The permittee shall also submit annual reports which specify the total OC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.
3. The permittee shall submit required reports in the following manner:
  - a. Reports of any required monitoring and/or recordkeeping information shall be submitted to Ohio EPA's Southwest District Office.

- b. Except otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Ohio EPA's Southwest District Office. If no deviations occurred during a calendar quarter, the permittee shall submit a report which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by February 15, May 15, August 15, and November 15 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude such deviations resulting from malfunction reported in accordance with OAC rule 3745-15-06.)

## **E. Testing Requirements**

1. Compliance with the following emission limitations shall be determined in accordance with the following methods:
  - a. Emission Limitation-  
140.4 lbs OC/day  
  
Applicable Compliance Method-  
Compliance shall be based on the record keeping requirements as specified in term C.1.
  - b. Emission Limitation-  
4352.4 lbs OC/month  
  
Applicable Compliance Method-  
Compliance shall be based on the record keeping requirements as specified in term C.1.
  - c. Emission Limitation-  
25.6 TPY of OC  
  
Applicable Compliance Method-  
Compliance shall be based on the record keeping requirements as specified in term C.1 and shall be the sum of the 12 monthly emission rates for the calendar year.
2. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the core wash.

Date:

11/17/98