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Facility Name: **Hamilton Foundry Division**

Application Number: **14-4529**

Date: **June 10, 1998**

GENERAL PERMIT CONDITIONS

TERMINATION OF PERMIT TO INSTALL

Substantial construction for installation must take place within 18 months of the effective date of this permit. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

NOTICE OF INSPECTION

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

CONSTRUCTION OF NEW SOURCE(S)

The proposed source(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed source(s) has already begun or has been completed prior to the date the Director of the Ohio Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of Ohio Administrative Code

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(OAC) Rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities prove to be inadequate or cannot meet applicable standards.

PERMIT TO INSTALL FEE

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 15 days of the effective date of this permit to install.

PUBLIC DISCLOSURE

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC Rule 3745-49-03.

APPLICABILITY

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

BEST AVAILABLE TECHNOLOGY

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

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PERMIT TO OPERATE APPLICATION

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be made at least 90 days prior to start-up of the source.

NINETY DAY OPERATING PERIOD

The facility will be permitted to operate during a 90-day period in accordance with OAC Rule 3745-35-02(C)(4)(b). The purpose of this period of operation is to fulfill the performance tests conditions used in the determination of compliance with the provisions of this Permit to Install or other applicable Ohio EPA rules.

SOURCE OPERATION AFTER COMPLETION OF CONSTRUCTION

This facility is permitted to operate each source described by this permit to install for period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies.

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
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AIR EMISSION SUMMARY

The air contaminant emissions units listed below comprise the Permit to Install for **Hamilton Foundry Division** located in **Hamilton** County. The emissions units 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.

<u>Ohio EPA Source Number</u>	<u>Source Identification Description</u>	<u>BAT Determination</u>
P907	Core making machine with wet scrubber	Core making machine with wet scrubber and drop out box
P908	and drop out box	Emissions captured and vented to wet scrubber and drop out box, visible emissions limitation, compliance with air toxics policy

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
				PM/hour 0.14 ton PM/year 0.03 pound PM ₁₀ /hour 0.14 ton PM ₁₀ /year 0.12 pound OC/hour 0.51 ton OC/year
	3745-31-05		0.03 pound PM/hour	
		3745-17-07 (A) (1)	0.14 ton PM/year 0.03 pound PM ₁₀ /hour 0.14 ton PM ₁₀ /year 0.12 pound OC/hour 0.51 ton OC/year	See Additional Special Term and Condition A.2.
Emissions capture and vented to wet scrubber and drop out box,		3745-17-07 (B)	0.14 ton PM ₁₀ /year 0.12 pound OC/hour 0.51 ton OC/year	See Additional Special Term and Condition A.3.
visible emissions limited ion, compliance with air toxics policy	3745-17-07 (A) (1)	3745-17-08 (B)	See Additional Special Term and Condition A.2.	See Additional Special Term and Condition B.1.
	3745-17-07 (B)	3745-17-11	See Additional Special Term and Condition A.3.	Less stringent.
	3745-17-08 (B) *	3745-21-07 (G) (2) *	Less stringent.	Less stringent.
	3745-17-11*	3745-15-07	Less stringent.	See General Terms.
	3745-21-07 (G) (2) *		Less stringent.	
	3745-15-07		See General Terms.	
	3745-31-05		0.03 pound	

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- * The emission limitation(s)/opacity restrictions established by these rules are less stringent than those established by Ohio Administrative Code rule 3745-31-05 (BAT).

SUMMARY

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
Organic Compound	1.02
PM	0.28*
PM ₁₀	0.28*

- * Assume PM = PM₁₀

REPORTING REQUIREMENTS

Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Hamilton County Dept. of Env. Services, 1632 Central Parkway, Cincinnati, OH 45210.**

WASTE DISPOSAL

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

MAINTENANCE OF EQUIPMENT

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This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

MALFUNCTION/ABATEMENT

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the **Hamilton County Dept. of Env. Services, 1632 Central Parkway, Cincinnati, OH 45210..**

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution sources.

CONSTRUCTION COMPLIANCE CERTIFICATION

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

A. Applicable Emission Limitations and/or Control Requirements

1. Emissions of PM, PM₁₀ and OC shall not exceed the amounts specified in the air emissions summary page of PTI 14-4529.
2. Visible particulate emissions from any stack shall not exceed twenty percent opacity, as a six-minute average, except as specified by rule.

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3. Visible particulate emissions from any fugitive dust source shall not exceed twenty percent opacity, as a three-minute average, except as specified by rule.

B. Operational Restrictions

1. Emissions shall be captured and vented to a drop out box and wet scrubber at all times when emissions units P907 and/or P908 are in operation with an overall VOC control efficiency of 96 percent and an overall PM control efficiency of 97 percent.

C. Monitoring and Recordkeeping Requirements

1. 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, unless otherwise specified in this permit. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized

D. Reporting Requirements

1. The permittee shall submit required reports in the following manner:
 - a. reports of any required monitoring and/or recordkeeping information shall be submitted to the Hamilton County Dept. of Env. Services; and,
 - b. except as 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

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be submitted to the Hamilton County Dept. of Env. Services. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter.

The reports shall be submitted quarterly i.e. by January 30, April 30, July 30, and October 30 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

E. Compliance Methods/Testing Requirements

1. Compliance with the emission limitation(s) in Section A of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation
20 percent Opacity for stack emissions

Applicable Compliance Method

Compliance with OAC rule 3745-17-07(A) shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B) (1).
 - b. Emission Limitation
20 percent Opacity for fugitive emissions

Applicable Compliance Method

Compliance with OAC rule 3745-17-07(B) shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B) (3).
 - c. Emission Limitation

Pounds per hour and tons per year limits for PM, PM₁₀ and OC.

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Applicable Compliance Method

Compliance with the emission limitations outlined in this permit shall be demonstrated by the emission factors, control efficiencies(if applicable)and the operational parameters as submitted in PTI application 14-4529 submitted 04/15/98.

F. Miscellaneous Requirements

1. If probable cause exists indicating the source is causing or contributing to a nuisance in violation of Ohio Administrative Code rule 3475-15-07, the owner or operator of this emissions unit shall be required to submit and implement a control program which will bring this source into compliance.
2. Emissions units P907 and P908's potential to emit is less than the allowable emission limitation(s) established in OAC rule 3745-21-07(G)(2). Therefore, no hourly and/or daily records are required to demonstrate compliance with these limits.