Facility Name: **Akron Foundry Company**
Application Number: **16-1849**
Date: **February 24, 1999**

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 SOURCES

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 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 (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 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 30 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.

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 filed no later than thirty days after commencement of operation.

SOURCE OPERATION AFTER COMPLETION OF CONSTRUCTION

This facility is permitted to operate each source described by this permit to install for a 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 and regulations.

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Facility Name: **Akron Foundry Company**
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Ohio EPA Source Number	Source Identification Number	BAT Determination	Applicable Federal & OAC Rules	Permit Allowable Mass Emissions and/or Control/Usage Requirements

AIR EMISSION SUMMARY

The air contaminant emissions units listed below comprise the Permit to Install for **Akron Foundry Company** located in **Summit** 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.

Ohio EPA Source Number	Source Identification Description
B001	Air Compressor Engine No. 1
B001 cont'd	

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Ohio EPA Source Number	Source Identification Number	BAT Determination	Applicable Federal & OAC Rules	Permit Allowable Mass Emissions and/or Control/Usage Requirements
		BAT Determination		
		Fired with natural gas only.		

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Ohio EPA Source Number	Source Identification Number	BAT Determination	Applicable Federal & OAC Rules	Permit Allowable Mass Emissions and/or Control/Usage Requirements
			Applicable Federal & OAC Rules	
			3745-31-05	
			3745-17-11 (B)(5)	
			3745-17-07(A)	

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Ohio EPA Source Number	Source Identification Number	BAT Determination	Applicable Federal & OAC Rules	Permit Allowable Mass Emissions and/or Control/Usage Requirements
		emissions from any stack shall not exceed twenty percent opacity, as a six-minute average, except as allowed by rule.		
	Permit Allowable Mass Emissions and/or Control/Usage Requirements			
	3.8 pounds of nitrogen oxides (NO_X) per hour; 6.9 tons per year.			
	0.25 pound of carbon monoxide (CO) per hour; 0.46 ton per year.			
	0.025 pound of volatile organic compound (VOC) per hour; 0.046 ton per year.			
	0.33 pound of particulate matter (PM) per hour; 0.59 ton per year.			
	Visible particulate			

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Ohio EPA Source Number	Source Identification Number	BAT Determination	Applicable Federal & OAC Rules	Permit Allowable Mass Emissions and/or Control/Usage Requirements

SUMMARY
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

Pollutant	Tons/Year
Nitrogen Oxides (NO_X)	6.9
Carbon Monoxide (CO)	0.46
Volatile Organic Compounds (VOC)	0.046
Particulate Matter (PM)	0.59

CONSTRUCTION STATUS

The **Akron Air Pollution Control** shall be notified in writing as to (a) the construction starting date, (b) the construction completion date, and (c) the date the facilities were placed into operation for the following sources: **B001.**

REPORTING REQUIREMENTS

Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Akron Air Pollution Control, 146 South High Street, Room 904, Akron, Ohio 44308.**

MAINTENANCE OF EQUIPMENT

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.

AIR POLLUTION NUISANCES PROHIBITED

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

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. Additional Terms and Conditions

1. None

B. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.

2. The maximum annual operating hours for this emissions unit shall not exceed 3,640.

C. Monitoring and/or RecordKeeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of the fuel burned in this emissions unit.

2. The permittee shall maintain monthly records of the operating hours for this emissions unit.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

2. The permittee shall submit annual reports of the total operating hours for this emissions unit. These reports shall be submitted by January 31 of each year to the Director (District Office or Local Air Agency).

E. Testing Requirements

1. Compliance with the emission limitation(s) in Emissions Summary of this permit shall be determined in accordance with the following method(s):

   a. Emission Limitation

      3.8 pounds of NOx per hour and 6.9 tons of NOx per year

      Applicable Compliance Method

      The 3.8 pounds/hour emissions limitation was developed by multiplying the emission factor of 15.0 grams of NOx per brake horsepower hour times the brake horsepower of 115, divided by the conversion factor of 454 grams per pound. The 6.9 tons/year limitation was developed by multiplying the hourly emission rate limitation by the maximum annual operating schedule of 3,640 hours/year and dividing by the conversion factor of 2000 pounds per ton. Compliance shall be based upon the 12-month summation of the number of operating hours times the 3.8 lbs/hr emissions limitation, divided by 2,000 lbs/ton.

   b. Emission Limitation

      0.25 pound of CO per hour and 0.46 ton of CO per year

      Applicable Compliance Method

The 0.25 pound/hour emissions limitation was developed by multiplying the emission factor of 1.0 gram of CO per brake horsepower hour times the brake horsepower of 115, divided by the conversion factor of 454 grams per pound. The 0.46 ton/year limitation was developed by multiplying the hourly emission rate limitation by the maximum annual operating schedule of 3,640 hours/year and dividing by the conversion factor of 2000 pounds per ton. Compliance shall be based upon the 12-month summation of the number of operating hours times the 0.25 lb/hr emissions limitation, divided by 2,000 lbs/ton.

c. Emission Limitation

0.025 pound of VOC per hour and 0.046 ton of VOC per year

Applicable Compliance Method

The 0.025 pound/hour emissions limitation was developed by multiplying the emission factor of 0.1 gram of VOC per brake horsepower hour times the brake horsepower of 115, divided by the conversion factor of 454 grams per pound. The 0.046 ton/year limitation was developed by multiplying the hourly emission rate limitation by the maximum annual operating schedule of 3,640 hours/year and dividing by the conversion factor of 2000 pounds per ton. Compliance shall be based upon the 12-month summation of the number of operating hours times the 0.025 lb/hr emissions limitation, divided by 2,000 lbs/ton.

d. Emission Limitation

0.33 pound of PM per hour and 0.59 ton of PM per year

Applicable Compliance Method

The 0.33 pound/hour emissions limitation was developed by multiplying the emission factor of 0.310 pound of PM per million British Thermal Units (MMBTU) of actual heat input by the actual heat input at 100% load of 1.05 MMBTU per hour. The 0.59 ton/year limitation was developed by multiplying the hourly emission rate limitation by the maximum annual operating schedule of 3,640 hours/year and dividing by the conversion factor of 2000 pounds per ton. Compliance shall be based upon the 12-month summation of the number of operating hours times the 0.33 lb/hr emissions limitation, divided by 2,000 lbs/ton.

e. Emission Limitation

Visible particulate emission limitations for stack emissions:

i. Except as otherwise specified in (2), visible particulate emissions from any stack shall not exceed twenty per cent opacity, as a six-minute average.

ii. Visible particulate emissions from any stack may exceed twenty per cent opacity, as a six-minute average, for not more than six consecutive minutes in any sixty minutes, but shall not exceed sixty percent opacity, as a six-minute average, at any time.

Applicable Compliance Method

OAC rule 3745-17-03(B)(1)

F. Miscellaneous Requirements

1. None