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Facility Name: **Brontel/Bearing Bronze Co.**

Application Number: **03-3148**

Date: **April 28, 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

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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.

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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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AIR EMISSION SUMMARY

The air contaminant emissions units listed below comprise the Permit to Install for **Brontel/Bearing Bronze Co.** located in **Crawford** 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

P901

P901
Cont'd

P902

P902
Cont'd

P903

P904

P904
Cont'd

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P908
Cont'd

P905
P906 P907

P905
Cont'd P908

P906
Cont'd

P907
Cont'd

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			P911	
P909				
	P909 Cont'd			
		P910 Cont'd		
			P911 Cont'd	
				P912
P910				
				P912 Cont'd

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P913

P914
Cont'd

P915

P914

P912
Cont'd

P913
Cont'd

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	Source Identification <u>Description</u>			
P916	Electric induction furnace (No. 1 lift swing furnace)	Electric induction furnace (No. 2 lift swing furnace)		

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Electric induction furnace (No. 3 lift swing furnace)	Electric induction furnace (4,000 pound tilt furnace)	Electric induction furnace (2,000 pound tilt furnace)	torches	
			Slagging station	
		Ladle preheat station with two		Small horizontal casting machine

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Small
horizontal
casting
machine

Small
vertical casting
machine

Small
vertical casting
machine

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Large
vertical casting
machine

Large
vertica
l
casting
machine

Large horizontal
casting machine

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Swing cut-off saw	Table cut-off saw	<p style="text-align: center;"><u>BAT Determination</u></p> <p>Compliance with Permit Allowable Emission Rate and use of baghouse</p>	Compliance with Permit Allowable Emission Rate and use of baghouse	Compliance with Permit Allowable Emission Rate and use of baghouse

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Ohio EPA Source <u>Number</u>	Source Identification <u>Number</u>	BAT <u>Determination</u>	Applicable Federal & OAC Rules	Permit Allowable Mass Emissions and/or Control/Usage <u>Requirements</u>
Compliance with Permit Allowable Emission Rate and use of baghouse	Compliance with Permit Allowable Emission Rate and use of baghouse	Compliance with Permit Allowable Emission Rate and use of baghouse	Compliance with Permit Allowable Emission Rate and use of baghouse	Compliance with Permit Allowable Emission Rate and use of baghouse

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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>
				Emission Rate and use of baghouse

Compliance
with Permit
Allowable
Emission Rate
and use of
baghouse

Compliance with
Permit Allowable
Emission Rate and
use of baghouse

Compliance with
Permit Allowable

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Ohio EPA Source <u>Number</u>	Source Identification <u>Number</u>	BAT <u>Determination</u>	Applicable Federal & OAC Rules	Permit Allowable Mass Emissions and/or Control/Usage <u>Requirements</u>
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Compliance with
Permit Allowable
Emission Rate and
use of baghouse

Compliance
with
Permit
Allowable
Emission
Rate
and use
of
baghouse

Compliance with
Permit Allowable
Emission Rate
and use of
baghouse

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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>
		<u>Applicable Federal & OAC Rules</u>		
Compliance with Permit Allowable Emission Rate and use of baghouse		3745-31-05	3745-31-05	3745-31-05
Compliance with Permit Allowable Emission Rate and use of baghouse				
		3745-17-11 (B)	3745-17-11 (B)	3745-17-11 (B)
		3745-17-07 (A)	3745-17-07 (A)	3745-17-07 (A)

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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>
	3745-17-07 (A)	(B) 3745-17-07 (A)	(B) 3745-17-07 (A)	
3745-31-05	3745-31-05	3745-31-05	3745-31-05	3745-17-11 (B) 3745-17-07 (A)
				3745-31-05
3745-17-11	(B) 3745-17-11	3745-17-11		

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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>
			(A)	
			3745-17-07 (A)	
3745-17-11				
(B)				
3745-17-07				
(A)				
			3745-31-05	
				3745-17-11 (A)
3745-31-05				3745-17-07 (A)
	3745-17-11 (B)			
	3745-17-07 (A)			
				3745-31-05
			3745-31-05	
				3745-17-11

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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>
		Permit Allowable Mass Emissions and/or Control/Usage Requirements	0.43 ton PE/year	PE/hour 0.43 ton PE/year
		0.0085 pound lead/hour; 0.032 ton lead/year	0.0085 pound lead/hour; 0.032 ton lead/year	0.0085 pound Lead/hour; 0.032 ton Lead/year
		0.01 grain per dry standard cubic foot	There shall be no visible emissions of fugitive dust from any building egress point as a result of the operation of this emissions unit	There shall be no visible emissions of fugitive dust from any building egress point as a result of the operation of this emissions unit
3745-17-11 (B)		0.114 pound PE/hour; 0.43 tons PE/year	* Visible particulate emissions from the baghouse shall not exceed 20 percent opacity as a six-minute average	* Visible particulate emissions from the baghouse shall not exceed 20 percent opacity as a six-minute average
3745-17-07 (A)		0.0085 pound lead/hour; 0.032 ton lead/year	* Visible particulate emissions from the baghouse shall not exceed 20 percent opacity as a six-minute average	* Visible particulate emissions from the baghouse shall not exceed 20 percent opacity as a six-minute average
	3745-17-11 (B)	Visible particulate emissions from the baghouse shall not exceed 20 percent opacity as a six-minute average.	Visible particulate emissions from the baghouse shall not exceed 20 percent opacity as a six-minute average	Visible particulate emissions from the baghouse shall not exceed 20 percent opacity as a six-minute average
	3745-17-07 (A)	Visible particulate emissions from the baghouse shall not exceed 20 percent opacity as a six-minute average.	Visible particulate emissions from the baghouse shall not exceed 20 percent opacity as a six-minute average	Visible particulate emissions from the baghouse shall not exceed 20 percent opacity as a six-minute average
3745-31-05		0.01 grain per dry standard cubic foot	0.01 grain per dry standard cubic foot	0.01 grain per dry standard cubic foot
		0.114 pound PE/hour;	0.114 pound	0.284 pound PE/hour

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1.06 tons PE/year	Visible particulate emissions from the baghouse shall not exceed 20 percent opacity as a six-minute average	unit *	0.01 grain per dry standard cubic foot	the baghouse shall not exceed 20 percent opacity as a six-minute average
0.0213 pound Lead/hour; 0.080 ton Lead/year	0.01 grain per dry standard cubic foot	Visible particulate emissions from the baghouse shall not exceed 20 percent opacity as a six-minute average	0.284 pound PE/hour 1.06 tons PE/year	0.01 grain per dry standard cubic foot
There shall be no visible emissions of fugitive dust from any building egress point as a result of the operation of this emissions unit *	0.01 grain per dry standard cubic foot	0.01 grain per dry standard cubic foot	0.0213 pound Lead/hour; 0.08 ton Lead/year	0.284 pound PE/hour; 1.06 tons PE/year
	0.284 pound PE/hour	0.095 pound PE/hour 0.36 ton PE/year	See Additional Special Terms and Conditions A.1. and B.2.	0.0213 pound Lead/hour; 0.08 ton Lead/year
	1.06 tons PE/year	0.0071 pound Lead/hour; 0.027 ton Lead/year	There shall be no visible emissions of fugitive dust from any building egress point as a result of the operation of this emissions unit *	0.014 pound SO _x /hour; 0.05 ton SO _x /year
	0.0213 pound Lead/hour; 0.080 ton Lead/year	There shall be no visible emissions of fugitive dust from any building egress point as a result of the operation of this emissions unit *		0.007 pound NO _x /hour; 0.03 ton NO _x /year
	There shall be no visible emissions of fugitive dust from any building egress point as a result of the operation of this emissions unit *	Visible particulate emissions from the baghouse shall not exceed 20 percent opacity as a six-minute average		0.098 pound OC/hour; 0.37 ton OC/year
	0.0213 pound Lead/hour; 0.080 ton Lead/year	Visible particulate emissions from the baghouse shall not exceed 20 percent opacity as a six-minute average	* Visible particulate emissions from	See Additional Special Terms and Conditions A.1., A.2. and B.2.

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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
There shall be no visible emissions of fugitive dust from any building egress point as a result of the operation of this emissions unit.	opacity as a six-minute average 0.01 grain per dry standard cubic foot 0.284 pound PE/hour; 1.06 tons PE/year 0.0213 pound Lead/hour; 0.08 ton Lead/year 0.014 pound SO _x /hour; 0.05 ton SO _x /year	A.1., A.2. and B.2. There shall be no visible emissions of fugitive dust from any building egress point as a result of the operation of this emissions unit. * Visible particulate emissions from the baghouse shall not exceed 20 percent opacity as a six-minute average 0.01 grain per dry standard cubic foot 0.284 pound PE/hour; 1.06 tons PE/year	0.79 ton OC/year See Additional Special Terms and Conditions A.1., A.2. and B.2. There shall be no visible emissions of fugitive dust from any building egress point as a result of the operation of this emissions unit. *	PE/hour; 1.06 tons PE/year 0.0213 pound Lead/hour; 0.08 ton Lead/year 0.030 pound SO _x /hour; 0.11 ton SO _x /year 0.015 pound NO _x /hour; 0.06 ton NO _x /year 0.210 pound OC/hour; 0.43 ton OC/year See Additional Special Terms and Conditions A.1., A.2. and B.2.
* Visible particulate emissions from the baghouse shall not exceed 20 percent	0.007 pound NO _x /hour; 0.03 ton NO _x /year 0.098 pound OC/hour; 0.37 ton OC/year See Additional Special Terms and Conditions	0.0213 pound Lead/hour; 0.08 ton Lead/year 0.030 pound SO _x /hour; 0.11 ton SO _x /year 0.015 pound NO _x /hour; 0.06 ton NO _x /year 0.210 pound OC/hour;	Visible particulate emissions from the baghouse shall not exceed 20 percent opacity as a six-minute average 0.01 grain per dry standard cubic foot 0.284 pound	There shall be no visible emissions of fugitive dust from any building egress point as a result of the operation of this emissions unit.

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*	Lead/year		*	
Visible particulate emissions from the baghouse shall not exceed 20 percent opacity as a six-minute average	0.090 pound SO _x /hour; 0.34 ton SO _x /year 0.045 pound NO _x /hour; 0.17 ton NO _x /year 0.630 pound OC/hour; 2.36 tons OC/year See Additional Special Terms and Conditions A.1., A.2. and B.2. There shall be no visible emissions of fugitive dust from any building egress point as a result of the operation of this unit.	Visible particulate emissions from the baghouse shall not exceed 20 percent opacity as a six-minute average 0.01 grain per dry standard cubic foot 0.284 pound PE/hour; 1.06 tons PE/year 0.0213 pound Lead/hour; 0.08 ton Lead/year 0.090 pound SO _x /hour; 0.34 ton SO _x /year 0.045 pound NO _x /hour; 0.17 ton NO _x /year 0.630 pound OC/hour; 2.36 tons OC/year See Additional Special Terms and Conditions A.1., A.2. and B.2. There shall be no visible emissions of fugitive dust from any building egress point as a result of this emissions unit.	Visible particulate emissions from the baghouse shall not exceed 20 percent opacity as a six-minute average 0.01 grain per dry standard cubic foot 0.284 pound PE/hour; 1.06 tons PE/year 0.0213 pound Lead/hour; 0.08 ton Lead/year 0.012 pound SO _x /hour; 0.04 ton SO _x /year 0.006 pound NO _x /hour; 0.02 ton NO _x /year 0.084 pound OC/hour; 0.31 ton OC/year	See Additional Special Terms and Conditions A.1., A.2. and B.2. There shall be no visible emissions of fugitive dust from any building egress point as a result of the operation of this emissions unit. * Visible particulate emissions from the baghouse shall not exceed 20 percent opacity as a six-minute average 0.01 grain per dry standard cubic foot 0.430 pound PE/hour; 1.61 tons PE/year 0.0320 pound

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Lead/hour; 0.12 ton Lead/year See Additional Special Terms and Conditions A.3. and B.3.	emissions unit. * Visible particulate emissions from the baghouse shall not exceed 20 percent opacity as a six-minute average 0.01 grain per dry cubic foot 0.430 pound PE/hour; 1.61 tons PE/year 0.0320 pound Lead/hour; 0.12 tons Lead/year See Additional Special Terms and Conditions A.3. and B.3.	There shall be no visible emissions of fugitive dust from any building egress point as a result of the operation of this emissions unit * Visible particulate emissions from the baghouse shall not exceed 20 percent opacity as a six-minute average.		

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- * The limits established in accordance with OAC 3745-31-05 are more stringent than those established by 3745-17-11.

SUMMARY

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
PE	6.440
Lead	0.483
SO _x	0.340
NO _x	0.170
OC	2.360

PERFORMANCE TEST REQUIREMENTS

The permittee shall conduct, or have conducted, performance testing on the air contaminant source(s) in accordance with procedures approved by the Agency. Two copies of the written report describing the test procedures followed and the results of such tests shall be submitted and signed by the person responsible for the test. The Director, or an Ohio EPA representative, shall be allowed to witness the test, examine testing equipment, and require the acquisition or submission of data and information necessary to assure that the source operation and testing procedures provide a valid characterization of the emissions from the source and/or the performance of the control equipment.

- A. A completed Intent to Test form shall be submitted to the appropriate Ohio EPA District Office or Local Air Pollution Control Agency where the original permit application was filed. This notice shall be made 30 days in advance and shall specify the source operating parameters, the proposed test procedures, and the time, date, place and person(s) conducting such tests.
- B. Two copies of the test results shall be submitted within 30 days after the completion of the performance test.

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C. Tests shall be performed for the following source(s) and pollutants(s):

<u>Source</u>	<u>Pollutant(s)</u>
P901, P902, P903, P904, P905, P906, P907, P908, P909, P910-P914, P915, P916	PE, Lead

REPORTING REQUIREMENTS

Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Ohio EPA, Northwest District Office, 347 North Dunbridge Road, Bowling Green, OH 43402.**

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

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 **Ohio EPA, Northwest District Office, 347 North Dunbridge Road, Bowling Green, OH 43402.**

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.

AIR POLLUTION NUISANCES PROHIBITED

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

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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.

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

Introduction

PTI No. 03-3148 serves to permit a new centrifugal bronze foundry (Brontel/Bearing Bronze Co.) in Galion, Ohio. Brontel/Bearing Bronze Co. will produce rough bronze bearings. The operation will consist of five electric induction furnaces (emissions units P901, P902, P903, P904, and P905), one ladle preheat station with two torches (P906), one ladle slagging station (P907), seven casting machines (P908, P909, P910, P911, P912, P913, and P914), and two cut-off saws (P915 and P916). All emissions units will be controlled by one 20,000 cfm baghouse.

Brontel/Bearing Bronze Co. will utilize primarily non-sand permanent molds. The lack of large quantities of sand and its associated organic additives greatly reduces the potential for fugitive emissions. Therefore, fugitive particulate emissions from emissions units P901 - P916 are expected to be generated in negligible levels.

Brontel/Bearing Bronze Co. is not subject to Title V permitting requirements.

A. Applicable Emission Limitations and/or Control Requirements

1. Combined emissions from emissions units P907, P908, P909, P910, P911, P912, P913, and P914 shall not exceed the following limits:

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- a. 0.284 pound of PE per hour and 1.06 tons of PE per year; and,
 - b. 0.0213 pound of lead per hour and 0.080 ton of lead per year.
2. Combined emissions from emissions units P908, P909, P910, P911, P912, P913, and P914 shall not exceed the following limits:
 - a. 0.090 pound of SO_x per hour and 0.34 ton of SO_x per year;
 - b. 0.045 pound of NO_x per hour and 0.17 ton of NO_x per year; and,
 - c. 0.630 pound of OC per hour and 2.36 tons of OC per year.
 3. Combined emissions from emissions units P915 and P916 shall not exceed the following limits:
 - a. 0.430 pound of PE per hour and 1.61 tons of PE per year; and,
 - b. 0.0320 pound of lead per hour and 0.12 ton of lead per year

B. Operational Restrictions

1. The permittee shall be limited to 7488 hours of facility operation each year.
2. The permittee shall not operate the ladle slagging station (emissions unit P907) and any of the casting machines (emissions units P908, P909, P910, P911, P912, P913, and P914) simultaneously. In addition, only one casting machine shall operate at any time.
3. The permittee shall not operate the cut-off saws (emissions units P015 and P016) simultaneously.
4. The pressure drop across the baghouse shall be maintained within the range of 1.5 - 9 inches of water while the emissions units are in operation.

C. Monitoring/Recordkeeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions units are in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.

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2. The permittee shall maintain monthly records summarizing the number of hours the facility operated. These records shall be maintained on a rolling monthly basis to demonstrate compliance with section B.1.
3. 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 hard copy or computerized form.

D. Reporting Requirements

1. The permittee shall submit quarterly written reports summarizing the following:
 - a. any deviations from emission limitations and operational restrictions that have been detected by testing, monitoring, and recordkeeping requirements specified in this permit;
 - b. all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified Section B.4;
 - c. the probable cause of such deviations; and,
 - d. any corrective actions or preventive measures that have been or will be taken.

If no deviations occurred during the calendar quarter, the permittee shall submit a quarterly report which states that no deviations occurred during the quarter.

The reports shall be submitted by January 31, April 30, July 31, and October 31 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). All reports shall be submitted to the Northwest District Office.

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2. The permittee shall also submit annual reports which specify the total lead emissions from the facility for the previous calendar year. These reports shall be submitted by January 31 of each year.

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E. Testing Requirements

1. Compliance with the emission limitations outlined in this permit shall be determined in accordance with the following method(s):

EMISSIONS UNITS P901, P902 & P903

- a. Emission Limitation - 0.114 pound of PE per hour (from each emissions unit)

Applicable Compliance Method - The lb/hr limitation was developed by using a baghouse performance standard of 0.01 gr/dscf (1.43×10^{-6} lb/dscf) and a maximum volumetric air flow rate of 1,200 cfm (72,000 cf per hour). Compliance shall be demonstrated by the emission testing requirements specified in E.2.

- b. Emission Limitation - 0.43 ton PE per year (from each emissions unit)

Applicable Compliance Method - The annual emission limitation was developed by multiplying the lb/hr limitation by a maximum operating schedule of 7,488 hrs/yr, and dividing by 2000 lbs/ton. Provided the permittee is in compliance with the hourly emission limitation, compliance shall be demonstrated by the recordkeeping requirements in C.2.

- c. Emission Limitation - 0.0085 pound of lead per hour (from each emissions unit)

Applicable Compliance Method - The lb/hr limitation was developed by applying a maximum lead content of 7.5 percent to the PE emission limitation of 0.114 lb per hour. Compliance shall be demonstrated by the emission testing requirements specified in E.2.

- d. Emission Limitation - 0.032 ton lead per year (from each emissions unit)

Applicable Compliance Method - The annual emission limitation was developed by multiplying the lb/hr limitation by a maximum operating schedule of 7,488 hrs/yr, and dividing by 2000 lbs/ton. Provided the permittee is in compliance with the hourly emission limitation, compliance shall be demonstrated by the recordkeeping requirements in C.2.

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EMISSIONS UNITS P904 & P905

- e. Emission Limitation - 0.284 pound of PE per hour (from each emissions unit)

Applicable Compliance Method - The lb/hr limitation was developed by using a baghouse performance standard of 0.01 gr/dscf (1.43×10^{-6} lb/dscf) and a maximum volumetric air flow rate of 3,000 cfm (180,000 cf per hour). Compliance shall be demonstrated by the emission testing requirements specified in E.2.

- f. Emission Limitation - 1.06 tons PE per year (from each emissions unit)

Applicable Compliance Method - The annual emission limitation was developed by multiplying the lb/hr limitation by a maximum operating schedule of 7,488 hrs/yr, and dividing by 2000 lbs/ton. Provided the permittee is in compliance with the hourly emission limitation, compliance shall be demonstrated by the recordkeeping requirements in C.2.

- g. Emission Limitation - 0.0213 pound of lead per hour (from each emissions unit)

Applicable Compliance Method - The lb/hr limitation was developed by applying a maximum lead content of 7.5 percent to the PE emission limitation of 0.284 lb per hour. Compliance shall be demonstrated by the emission testing requirements specified in E.2.

- h. Emission Limitation - 0.032 ton lead per year (from each emissions unit)

Applicable Compliance Method - The annual emission limitation was developed by multiplying the lb/hr limitation by a maximum operating schedule of 7,488 hrs/yr, and dividing by 2000 lbs/ton. Provided the permittee is in compliance with the hourly emission limitation, compliance shall be demonstrated by the recordkeeping requirements in C.2.

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EMISSIONS UNIT P906

- i. Emission Limitation - 0.095 pound of PE per hour

Applicable Compliance Method - The lb/hr limitation was developed by using a baghouse performance standard of 0.01 gr/dscf (1.43×10^{-6} lb/dscf) and a maximum volumetric air flow rate of 1,000 cfm (60,000 cf per hour). Compliance shall be demonstrated by the emission testing requirements specified in E.2.

- j. Emission Limitation - 0.36 ton of PE per year

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Applicable Compliance Method - The annual emission limitation was developed by multiplying the lb/hr limitation by a maximum operating schedule of 7,488 hrs/yr, and dividing by 2000 lbs/ton. Provided the permittee is in compliance with the hourly emission limitation, compliance shall be demonstrated by the recordkeeping requirements in C.2.

- k. Emission Limitation - 0.0071 pound of lead per hour

Applicable Compliance Method: The lb/hr limitation was developed by applying a maximum lead content of 7.5 percent to the PE emission limitation of 0.095 lb per hour. Compliance shall be demonstrated by the emission testing requirements specified in E.2.

- l. Emission Limitation - 0.027 ton lead per year

Applicable Compliance Method: The annual emission limitation was developed by multiplying the lb/hr limitation by a maximum operating schedule of 7,488 hrs/yr, and dividing by 2000 lbs/ton. Provided the permittee is in compliance with the hourly emission limitation, compliance shall be demonstrated by the recordkeeping requirements in C.2.

EMISSIONS UNITS P907, P908, P909, P910, P911, P912, P913 and P914

- m. Emission Limitation - Combined emission limitation of 0.284 pound of PE per hour

Applicable Compliance Method - The lb/hr limitation was developed by using a baghouse performance standard of 0.01 gr/dscf (1.43×10^{-6} lb/dscf) and a maximum volumetric air flow rate of 3,000 cfm (180,000 cf per hour). Compliance shall be demonstrated by the emission testing requirements specified in E.2.

- n. Emission Limitation - Combined emission limitation of 1.06 tons of PE per year

Applicable Compliance Method - The annual emission limitation

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was developed by multiplying the lb/hr limitation by a maximum operating schedule of 7,488 hrs/yr, and dividing by 2000 lbs/ton. Provided the permittee is in compliance with the hourly emission limitation, compliance shall be demonstrated by the recordkeeping requirements in C.2.

- o. Emission Limitation - Combined emission limitation of 0.0213 pound of lead per hour

Applicable Compliance Method: The lb/hr limitation was developed by applying a maximum lead content of 7.5 percent to the PE emission limitation of 0.284 lb per hour. Compliance shall be demonstrated by the emission testing requirements specified in E.2.

- p. Emission Limitation - Combined emission limitation of 0.080 ton of lead per year

Applicable Compliance Method: The annual emission limitation was developed by multiplying the lb/hr limitation by a maximum operating schedule of 7,488 hrs/yr, and dividing by 2000 lbs/ton. Provided the permittee is in compliance with the hourly emission limitation, compliance shall be demonstrated by the recordkeeping requirements in C.2.

EMISSIONS UNITS P908, P909, P910, P911, P912, P913 and P914

- q. Emission Limitation - Combined hourly emission limitations:

- i. 0.090 lb SO₂ per hour
- ii. 0.045 lb NO_x per hour
- iii. 0.630 lb OC per hour

Applicable Compliance Method: The emission limitations were developed using emission factors listed in AP-42, Chapter 12.10 (1/95) and a maximum metal charging capacity of 4.5 tons per hour. If required, compliance with the hourly limitations shall be determined in accordance with testing methods in 40 CFR Part 60, Appendix A.

- r. Emission Limitation - Combined annual emission limitations:

- i. 0.34 ton SO₂ per year

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- ii. 0.17 ton NO_x per year
- iii. 2.36 ton OC per year

Applicable Compliance Method: The annual emission limitations were developed by multiplying the lb/hr limitation by a maximum operating schedule of 7,488 hrs/yr, and dividing by 2000 lbs/ton. Provided the permittee is in compliance with the hourly emission limitation, compliance shall be demonstrated by the recordkeeping requirements in C.2.

EMISSIONS UNITS P915 and P916

- s. Emission Limitation - Combined emission limitation of 0.43 pound of PE per hour

Applicable Compliance Method - The lb/hr limitation was developed by using a baghouse performance standard of 0.01 gr/dscf (1.43×10^{-6} lb/dscf) and a maximum volumetric air flow rate of 4,500 cfm (270,000 cf per hour). Compliance shall be demonstrated by the emission testing requirements specified in E.2.

- t. Emission Limitation - Combined emission limitation of 1.61 tons of PE per year

Applicable Compliance Method - The annual emission limitation was developed by multiplying the lb/hr limitation by a maximum operating schedule of 7,488 hrs/yr, and dividing by 2000 lbs/ton. Provided the permittee is in compliance with the hourly emission limitation, compliance shall be demonstrated by the recordkeeping requirements in C.2.

- u. Emission Limitation - Combined emission limitation of 0.0320 pound of lead per hour

Applicable Compliance Method: The lb/hr limitation was developed by applying a maximum lead content of 7.5 percent to the PE emission limitation of 0.43 lb per hour. Compliance shall be demonstrated by the emission testing requirements specified in E.2.

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- v. Emission Limitation - Combined emission limitation of 0.12 ton of lead per year

Applicable Compliance Method: The annual emission limitation was developed by multiplying the lb/hr limitation by a maximum operating schedule of 7,488 hrs/yr, and dividing by 2000 lbs/ton. Provided the permittee is in compliance with the hourly emission limitation, compliance shall be demonstrated by the recordkeeping requirements in C.2.

EMISSIONS UNITS P901-P916 (facility-wide limitations)

- w. Emission Limitation - Visible particulate emissions from the baghouse stack serving these emissions units shall not exceed 20 percent opacity as a six-minute average

Applicable Compliance Method - Method 9 - 40 CFR Part 60, Appendix A

- x. Emission Limitation - There shall be no visible emission of fugitive dust from any building egress point

Applicable Compliance Method - Method 22 - 40 CFR Part 60, Appendix A

2. Emission testing requirements

The permittee shall conduct, or have conducted, emission testing for emissions units P901, P902, P903, P904, P905, P906, P907, P908, P909, P910, P911, P912, P913, P914, P915, and P916 in accordance with the following requirements:

- a. The emission testing shall be conducted within 6 months after start-up of the emissions units.
- b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission limitations for PE and lead.
- c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for PE -- Method 5; for Lead -- Method 29. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
- d. The test(s) shall be conducted while the emissions units are

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operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Northwest District Office.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northwest District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northwest District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northwest District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures

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provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Northwest District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA Northwest District Office.

F. MISCELLANEOUS REQUIREMENTS

None.