



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL CERTIFIED MAIL
MEDINA COUNTY**

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 16-01998

DATE: 3/1/00

Seville Centrifugal Bronze Inc
David Banks Jr
22 Milton St
Seville, OH 44273

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

CC: USEPA

ARAQMD



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

Permit To Install

Issue Date: 3/1/00

FINAL PERMIT TO INSTALL 16-01998

Application Number: 16-01998
APS Premise Number: 1652070000
Permit Fee: **\$1800**
Name of Facility: Seville Centrifugal Bronze Inc
Person to Contact: David Banks Jr
Address: 22 Milton St
Seville, OH 44273

Location of proposed air contaminant source(s) [emissions unit(s)]:

**22 Milton St
Seville, Ohio**

Description of proposed emissions unit(s):

Four (4) induction melting furnaces, ladle pre-heat station, three (3) centrifugal casting cells.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency



Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

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 appropriate Ohio EPA District Office or local air agency.
- 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 be submitted to the appropriate Ohio EPA District Office or local air agency. 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 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.)

3. Records Retention Requirements

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 for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized

representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. 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.

9. Construction of New Sources(s)

The proposed emissions unit(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 emissions unit(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 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.

10. 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.

11. Applicability

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit to Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

12. 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.

13. Source Operation and Operating Permit Requirements 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, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

14. Construction Compliance Certification

Seville Centrifugal Bronze Inc
PTI Application: 16-01998
Issued: 3/1/00

Facility ID: 1652070000

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.

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
Particulate Matter	6.08
Lead	0.47
Organic Compounds	2.76
Sulfur Dioxide	0.40

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P903 - 650 lbs/hr. Electric Induction Furnace - cell 3.	OAC rule 3745-31-05	0.240 lbs/Hr particulate matter combined stack and fugitive. 1.05 tons/Yr particulate matter combined stack and fugitive. 0.02 lb/hr lead 0.08 ton/Yr lead Visible particulate emissions of fugitive dust shall not exceed ten percent opacity, as a three-minute average, except as specified by rule.
	OAC rule 3745-17-08	See 2.a and 2.b below.
	OAC rule 3745-17-11	Less stringent than the requirements of OAC rule 3745-31-05 and BAT.

2. Additional Terms and Conditions

- 2.a The Permittee shall employ control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust.
- 2.b Stack emission of shall not exceed 0.030 grain of particulate matter per dry standard cubic foot of exhaust gas or no visible particulate emissions from the exhaust stack, whichever is less stringent.

B. Operational Restrictions

1. The nonferrous metal melting furnace shall be charged with pure bar stock and dry, sawed-off pieces of solid metal, nonferrous metal chips and turnings from machining. Materials bearing oil, grease, paint, or paper shall not be employed.
2. The pressure drop across the baghouse shall be maintained within the range of 1.5 and 9.0 inches of water while the emissions unit is in operation.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions escaping from the building containing this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any abnormal visible emission incident; and,
 - e. any corrective actions taken to eliminate the abnormal visible emissions.
2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is 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.

D. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any abnormal visible fugitive particulate emissions were observed escaping from the building containing this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions. These reports shall be submitted to the Akron Regional Air Quality Management District (ARAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period. If no abnormal visible fugitive particulate emissions were observed during the period a negative declaration shall be submitted.

2. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These reports shall be submitted to the Akron Regional Air Quality Management District (ARAQMD) semi-annually with the written report specified above in section D.1.

E. Testing Requirements

The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

1. The emission testing shall be conducted within 3 months after issuance of the permit.
2. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for particulate matter and lead.
3. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): *for particulate matter, Method 5 of 40 CFR Part 60, Appendix A, for lead, Method 12 of 40 CFR Part 60, Appendix A.* Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
4. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency 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 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 appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

10

Seville

PTI A

Issued: 3/1/00

Emissions Unit ID: **P903**

5. Compliance with the emission limitations in sections A.1 and A.2 of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

0.258 lbs/Hr particulate matter combined stack and fugitive.
1.13 tons/Yr particulate matter combined stack and fugitive.

Applicable Compliance Method:

Multiply the particulate emission factor of 0.86 pounds of particulate emissions per ton of metal melted by the maximum hourly rate of metal melted and by the overall control efficiency of the control device, or use OAC rule 3745-17-03(B)(10). This particulate emission factors from SCC 3-04-003-03 for gray iron foundry since no EPA emission factors exist for nonferrous metal foundries.

b. Emission Limitation:

0.02 lb/hr lead
0.08 ton/Yr lead

Applicable Compliance Method:

Multiply the particulate emission rate by the factor of 0.075 pound of lead emissions per pound of particulate matter emitted from the emissions unit. This lead emission factors was supplied by Joseph A Guimond & Associates, Inc. Consultants for the permittee and was based on prior experiences at similar sources.

c. Emission Limitation:

10% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

F. Miscellaneous Requirements

1. Pursuant to Engineering Guide #69, modeling to demonstrate compliance with the Ohio EPA's Air Toxic Policy was not necessary since the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials,

Seville Centrifugal Bronze Inc

PTI Application: 16-01008

Issued

Facility ID: 1652070000

Emissions Unit ID: **P903**

or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P904 - 2000 lbs/hr Electric Induction Furnace Cell 1.	OAC rule 3745-31-05	0.257 lbs/Hr particulate matter combined stack and fugitive. 1.13 tons/Yr particulate matter combined stack and fugitive. 0.02 lb/hr lead 0.09 ton/Yr lead Visible particulate emissions of fugitive dust shall not exceed ten percent opacity, as a three-minute average, except as specified by rule.
	OAC rule 3745-17-08	See 2.a and 2.b below.
	OAC rule 3745-17-11	Less stringent than the requirements of OAC rule 3745-31-05 and BAT.

2. Additional Terms and Conditions

- 2.a The Permittee shall employ control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust.

- 2.b** Stack emission of shall not exceed 0.030 grain of particulate matter per dry standard cubic foot of exhaust gas or no visible particulate emissions from the exhaust stack, whichever is less stringent.

B. Operational Restrictions

1. The nonferrous metal melting furnace shall be charged with pure bar stock and dry, sawed-off pieces of solid metal, nonferrous metal chips and turnings from machining. Materials bearing oil, grease, paint, or paper shall not be employed.
2. The pressure drop across the baghouse shall be maintained within the range of 1.5 and 9.0 inches of water while the emissions unit is in operation.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions escaping from the building containing this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any abnormal visible emission incident; and,
 - e. any corrective actions taken to eliminate the abnormal visible emissions.
2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is 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.

D. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any abnormal visible fugitive particulate emissions were observed escaping from the building containing this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible

fugitive particulate emissions. These reports shall be submitted to the Akron Regional Air Quality Management District (ARAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period. If no abnormal visible fugitive particulate emissions were observed during the period a negative declaration shall be submitted.

2. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These reports shall be submitted to the Akron Regional Air Quality Management District (ARAQMD) semi-annually with the written report specified above in section D.1.

E. Testing Requirements

The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

1. The emission testing shall be conducted within 3 months after issuance of the permit.
2. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for particulate matter and lead.
3. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): *for particulate matter, Method 5 of 40 CFR Part 60, Appendix A, for lead, Method 12 of 40 CFR Part 60, Appendix A.* Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
4. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency 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 provide a valid

Emissions Unit ID: P904

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 appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

2. Compliance with the emission limitations in sections A.1 and A.2 of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:

1.0 lbs/hr of particulate emissions
 4.6 tons/Yr. particulate matter

Applicable Compliance Method:

Multiply the particulate emission factor of 0.86 pounds of particulate emissions per ton of metal melted by the maximum hourly rate of metal melted or use OAC rule 3745-17-03(B)(10). This particulate emission factors from SCC 3-04-003-03 for gray iron foundry since no EPA emission factors exist for nonferrous metal foundries.

- b. Emission Limitation:

0.05 lb/hr lead
 0.21 ton/Yr lead

Applicable Compliance Method:

Multiply the particulate emission rate by the factor of 0.075 pound of lead emissions per pound of particulate emissions from the emissions unit. This lead emission factors was supplied by Joseph A Guimond & Associates, Inc. Consultants for the permittee and was based on prior experiences at similar sources.

- c. Emission Limitation:

10% opacity as a 3-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(3)

F. Miscellaneous Requirements

1. Pursuant to Engineering Guide #69, modeling to demonstrate compliance with the Ohio EPA's Air Toxic Policy was not necessary since the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
P905 - Centrifugal Casting Machine Cell 1	OAC rule 3745-31-05 OAC rule 3745-17-08 OAC rule 3745-17-11

Seville

PTI A

Issued: 3/1/00

Emissions Unit ID: P905

Applicable Emissions
Limitations/Control Measures

0.3 lbs/Hr particulate matter
combined stack and fugitive.

1.3 tons/Yr particulate matter
combined stack and fugitive.

0.025 lb/hr lead
0.10 ton/Yr lead

0.03 lbs/Hr sulfur dioxide.
1.3 tons/Yr sulfur dioxide.

0.21 lbs/Hr organic compounds.
0.92 tons/Yr organic compounds.

Visible particulate emissions of
fugitive dust shall not exceed ten
percent opacity, as a three-minute
average, except as specified by rule.

See 2.a and 2.b below.

Less stringent than the
requirements of OAC rule
3745-31-05 and BAT.

2. Additional Terms and Conditions

- 2.a The Permittee shall employ control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust.

B. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 1.5 and 9.0 inches of water while the emissions unit is in operation.

C. Monitoring and/or Record keeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions escaping from the building containing this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any abnormal visible emission incident; and,
 - e. any corrective actions taken to eliminate the abnormal visible emissions.
2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is 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.

D. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any abnormal visible fugitive particulate emissions were observed escaping from the building containing this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions. These reports shall be submitted to the Akron Regional Air Quality Management District (ARAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period. For any 6-month period where no abnormal visible fugitive particulate emissions were observed escaping from the building containing this emissions unit a negative declaration shall be submitted to ARAQMD.

2. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These reports shall be submitted to the Akron Regional Air Quality Management District (ARAQMD) semi-annually with the written report specified above in section D.1.

E. Testing Requirements

1. Compliance with the emission limitations in sections A.1 and A.2 of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

0.3 lbs/hr of particulate emissions
1.3 tons/Yr. particulate matter

Applicable Compliance Method:

Multiply the particulate emission factor of 2.8 pounds of particulate emissions per ton of metal melted by the maximum hourly rate of metal melted and by the overall control efficiency of the control device, or use OAC rule 3745-17-03(B)(10). This particulate emission factors from SCC 3-04-003-20 for gray iron foundry since no EPA emission factors exist for nonferrous metal foundries. This particulate emission factors was selected by Joseph A Guimond & Associates, Inc. Consultants for the permittee and was based on prior experiences at similar sources.

b. Emission Limitation:

0.03 lb/hr of sulfur dioxide
0.15 Tons/Yr sulfur dioxide

Applicable Compliance Method:

Multiply the sulfur dioxide emission factor of 0.02 pounds of particulate emissions per ton of metal melted by the maximum hourly rate of metal melted. This sulfur dioxide emission factors from SCC 3-04-003-20 for gray iron foundry since no EPA emission factors exist for nonferrous metal foundries. This particulate emission factors was selected by Joseph A Guimond & Associates, Inc. Consultants for the permittee and was based on prior experiences at similar sources.

c. Emission Limitation:

0.21 lbs/hr organic compounds
0.92 tpy of organic compounds

Applicable Compliance Method:

Multiply the volatile organic compounds emission factor of 0.14 pounds of VOC per ton of aluminum poured by the total amount of aluminum poured in the emissions unit. This organic compounds emission factors from SCC 3-04-003-20 for gray iron foundry since no EPA emission factors exist for nonferrous metal foundries. This particulate emission factors was selected by Joseph A Guimond & Associates, Inc. Consultants for the permittee and was based on prior experiences at similar sources.

d. Emission Limitation:

10% opacity as a 3-minute average

Applicable Compliance Method:

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

F. Miscellaneous Requirements

1. Pursuant to Engineering Guide #69, modeling to demonstrate compliance with the Ohio EPA's Air Toxic Policy was not necessary since the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

- The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P906 - Centrifugal Casting Machine Cell 2.	OAC rule 3745-31-05	0.3 lbs/Hr particulate matter combined stack and fugitive. 1.3 tons/Yr particulate matter combined stack and fugitive. 0.025 lb/hr lead 0.10 ton/Yr lead 0.03 lbs/Hr sulfur dioxide. 1.3 tons/Yr sulfur dioxide. 0.21 lbs/Hr organic compounds. 0.92 tons/Yr organic compounds. Visible particulate emissions of fugitive dust shall not exceed ten percent opacity, as a three-minute average, except as specified by rule.
	OAC rule 3745-17-08	See 2.a and 2.b below.
	OAC rule 3745-17-11	Less stringent than the requirements

of OAC rule 3745-31-05 and BAT.

2. Additional Terms and Conditions

- 2.a The Permittee shall employ control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust.

B. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 1.5 and 9.0 inches of water while the emissions unit is in operation.

C. Monitoring and/or Record keeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions escaping from the building containing this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
- a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any abnormal visible emission incident; and,
 - e. any corrective actions taken to eliminate the abnormal visible emissions.
2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is 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.

D. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any abnormal visible fugitive particulate emissions were observed escaping from the building containing this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions. These reports shall be submitted to the Akron Regional Air Quality Management District(ARAQMD) by January 31 and July 31 of each year and shall cover the

24

Seville

PTI A

Issued: 3/1/00

Emissions Unit ID: **P906**

previous 6-month period. For any 6-month period where no abnormal visible fugitive particulate emissions were observed escaping from the building containing this emissions unit a negative declaration shall be submitted to ARAQMD.

2. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These reports shall be submitted to the Akron Regional Air Quality Management District (ARAQMD) semi-annually with the written report specified above in section D.1.

E. Testing Requirements

1. Compliance with the emission limitations in sections A.1 and A.2 of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

0.3 lbs/hr of particulate emissions
1.3 tons/Yr. particulate matter

Applicable Compliance Method:

Multiply the particulate emission factor of 2.8 pounds of particulate emissions per ton of metal melted by the maximum hourly rate of metal melted and by the overall control efficiency of the control device, or use OAC rule 3745-17-03(B)(10). This particulate emission factors from SCC 3-04-003-20 for gray iron foundry since no EPA emission factors exist for nonferrous metal foundries. This particulate emission factors was selected by Joseph A Guimond & Associates, Inc. Consultants for the permittee and was based on prior experiences at similar sources.

b. Emission Limitation:

0.03 lb/hr of sulfur dioxide
0.15 Tons/Yr sulfur dioxide

Applicable Compliance Method:

Multiply the sulfur dioxide emission factor of 0.02 pounds of particulate emissions per ton of metal melted by the maximum hourly rate of metal melted. This sulfur dioxide emission factors from SCC 3-04-003-20 for gray iron foundry since no EPA emission factors exist for nonferrous metal foundries. This particulate emission factors was selected by Joseph A Guimond & Associates, Inc. Consultants for the permittee and was based on prior experiences at similar sources.

c. Emission Limitation:

Seville Centrifugal Bronze Inc
PTI Application: 16-01008
Issued

Facility ID: 1652070000

Emissions Unit ID: P906

0.21 lbs/hr organic compounds
0.92 tpy of organic compounds

Applicable Compliance Method:

Multiply the volatile organic compounds emission factor of 0.14 pounds of VOC per ton of aluminum poured by the total amount of aluminum poured in the emissions unit. This organic compounds emission factors from SCC 3-04-003-20 for gray iron foundry since no EPA emission factors exist for nonferrous metal foundries. This particulate emission factors was selected by Joseph A Guimond & Associates, Inc. Consultants for the permittee and was based on prior experiences at similar sources.

d. Emission Limitation:

10% opacity as a 3-minute average

Applicable Compliance Method:

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

F. Miscellaneous Requirements

1. Pursuant to Engineering Guide #69, modeling to demonstrate compliance with the Ohio EPA's Air Toxic Policy was not necessary since the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

- The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P907 - Centrifugal Casting Machine Cell 3.	OAC rule 3745-31-05	0.3 lbs/Hr particulate matter combined stack and fugitive. 1.3 tons/Yr particulate matter combined stack and fugitive. 0.025 lb/hr lead 0.10 ton/Yr lead 0.02 lbs/Hr sulfur dioxide. 0.09 tons/Yr sulfur dioxide. 0.11 lbs/Hr organic compounds. 0.48 tons/Yr organic compounds. Visible particulate emissions of fugitive dust shall not exceed ten percent opacity, as a three-minute average, except as specified by rule.
	OAC rule 3745-17-08	See 2.a and 2.b below.
	OAC rule 3745-17-11	Less stringent than the requirements of OAC rule 3745-31-05 and BAT.

28

Seville

PTI A

Issued: 3/1/00

Emissions Unit ID: **P907**

2. Additional Terms and Conditions

- 2.a The Permittee shall employ control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust.

B. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 1.5 and 9.0 inches of water while the emissions unit is in operation.

C. Monitoring and/or Record keeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions escaping from the building containing this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
- a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any abnormal visible emission incident; and,
 - e. any corrective actions taken to eliminate the abnormal visible emissions.
2. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is 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.

D. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any abnormal visible fugitive particulate emissions were observed escaping from the building containing this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions. These reports shall be submitted to the Akron Regional Air Quality Management District (ARAQMD) by January 31 and July 31 of each year and shall cover the previous 6-month period. For any 6-month period where no abnormal visible fugitive particulate emissions were observed escaping from the building containing this emissions unit a negative

Seville Centrifugal Bronze Inc
PTI Application: 16-01008
Issued

Facility ID: 1652070000

Emissions Unit ID: **P907**

declaration shall be submitted to ARAQMD.

2. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These reports shall be submitted to the Akron Regional Air Quality Management District (ARAQMD) semi-annually with the written report specified above in section D.1.

E. Testing Requirements

1. Compliance with the emission limitations in sections A.1 and A.2 of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

0.3 lbs/hr of particulate emissions
1.3 tons/Yr. particulate matter

Applicable Compliance Method:

Multiply the particulate emission factor of 2.8 pounds of particulate emissions per ton of metal melted by the maximum hourly rate of metal melted and by the overall control efficiency of the control device, or use OAC rule 3745-17-03(B)(10). This particulate emission factors from SCC 3-04-003-20 for gray iron foundry since no EPA emission factors exist for nonferrous metal foundries. This particulate emission factors was selected by Joseph A Guimond & Associates, Inc. Consultants for the permittee and was based on prior experiences at similar sources.

b. Emission Limitation:

0.02 lb/hr of sulfur dioxide
0.09 Tons/Yr sulfur dioxide

Applicable Compliance Method:

Multiply the sulfur dioxide emission factor of 0.02 pounds of particulate emissions per ton of metal melted by the maximum hourly rate of metal melted. This sulfur dioxide emission factors from SCC 3-04-003-20 for gray iron foundry since no EPA emission factors exist for nonferrous metal foundries. This particulate emission factors was selected by Joseph A Guimond & Associates, Inc. Consultants for the permittee and was based on prior experiences at similar sources.

c. Emission Limitation:

0.11 lbs/hr organic compounds
0.48 tpy of organic compounds

Applicable Compliance Method:

Multiply the volatile organic compounds emission factor of 0.14 pounds of VOC per ton of aluminum poured by the total amount of aluminum poured in the emissions unit. This organic compounds emission factors from SCC 3-04-003-20 for gray iron foundry since no EPA emission factors exist for nonferrous metal foundries. This particulate emission factors was selected by Joseph A Guimond & Associates, Inc. Consultants for the permittee and was based on prior experiences at similar sources.

d. Emission Limitation:

10% opacity as a 3-minute average

Applicable Compliance Method:

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

F. Miscellaneous Requirements

1. Pursuant to Engineering Guide #69, modeling to demonstrate compliance with the Ohio EPA's Air Toxic Policy was not necessary since the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.