

Facility ID: 1652070000 Issuance type: Final State Permit To Operate

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

- [Go to Part II for Emissions Unit P903](#)
- [Go to Part II for Emissions Unit P904](#)
- [Go to Part II for Emissions Unit P905](#)
- [Go to Part II for Emissions Unit P906](#)
- [Go to Part II for Emissions Unit P907](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1652070000 Emissions Unit ID: P903 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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. Electric Induction Furnace - cell 3.	OAC rule 3745-31-05	0.28 lbs/Hr. particulate matter combined stack and fugitive.
		1.22 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

- (a) The Permittee shall employ control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. Stack emission 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 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. 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**
1. 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, and the control efficiency.
 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.
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:

0.28 lbs/Hr particulate matter combined stack and fugitive.
1.22 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, 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.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1652070000 Emissions Unit ID: P904 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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 Electric Induction Furnace Cell 1.	OAC rule 3745-31-05	0.34 lbs/Hr particulate matter combined stack and fugitive.
		1.47 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**
 - (a) The Permittee shall employ control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. 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 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. 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

1. 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, and the control efficiency.
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.

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:

0.34 lbs/hr of particulate emissions
1.47 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.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1652070000 Emissions Unit ID: P905 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
P905 - Centrifugal Casting Machines Cell 1	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**
 - (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:
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.

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.

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.

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.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1652070000 Emissions Unit ID: P906 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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 Machines 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**
 - (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:

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.

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.

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.

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.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1652070000 Emissions Unit ID: P907 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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 Machines 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.

2. Additional Terms and Conditions

- (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:
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.

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.

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.

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.