

Facility ID: 1652100044 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 F003](#)
- [Go to Part II for Emissions Unit P005](#)
- [Go to Part II for Emissions Unit P006](#)
- [Go to Part II for Emissions Unit P007](#)

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

Facility ID: 1652100044 Emissions Unit ID: F003 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>
#1 induction furnace with a fabric filter	OAC rule 3745-31-05 (PTI 16-1308)	Combined stack emissions from 1652100044P005, P006, P007, P012, F001, F002, F003, and the shot casting areas shall not exceed the following: 7.0 lbs/hr of particulates 0.03 lb/hr of chromium compounds 0.001 lb/hr of lead compounds See A.2.a, A.2.e, and A.2.f below. See A.2.g below.
	OAC rule 3745-17-07	See A.2.g below.
	OAC rule 3745-17-08	See A.2.g below.
	OAC rule 3745-17-11	

2. Additional Terms and Conditions

- (a) The permittee shall employ best available technology (BAT) to control particulate emissions from this emissions unit. The control technology shall include the following:
 - i. the employment of a properly installed fabric filter, in accordance with the manufacturer's recommendations, instructions, and operating manual(s), to adequately control particulate emissions; and
 - ii. the employment of properly installed hoods, ducts, fans, and other equipment, in accordance with the manufacturer's recommendations, instructions, and operating manual(s), to adequately enclose, contain, capture, and vent particulate emissions to the fabric filter.
The permittee shall implement a preventive maintenance and malfunction abatement plan for the fabric filter which is designed to prevent, detect, and correct malfunctions or equipment failures which could result in emissions exceeding any applicable law. The preventive maintenance and malfunction abatement plan shall be in writing and include the following:
 - i. a comprehensive preventive maintenance program, including a description of the items or conditions that will be inspected, the frequency of these inspections or repairs, and an identification of the types and quantities of the replacement parts which will be maintained in inventory for quick replacement;
 - ii. an identification of the source and operating outlet variables of the air pollution control equipment that will be monitored in order to detect a malfunction or failure, the normal operating range of these variables, and a description of the monitoring or surveillance procedures and of the method of informing operating personnel of any malfunction, including alarm systems, lights and/or other indicators; and,

iii. a description of the corrective procedures that will be taken in the event of a malfunction or failure in order to achieve compliance with any applicable law as expeditiously as practical.

The permittee shall maintain operation and maintenance records to demonstrate that any preventive maintenance and malfunction abatement plan is fully implemented.

The Ohio EPA or local air agency retains the right to require the permittee to modify the preventive maintenance and malfunction abatement plan, should operating experience show that modification is necessary.

Visible particulate emissions from the fabric filter stacks shall not exceed 1% opacity as a 6-minute average.

The permittee shall not allow any visible particulate emissions from the ventilation system, doors or windows of the building enclosing this emissions unit.

The particulate emission limitations required by OAC rules 3745-17-07, 3745-17-08, and 3745-17-11 are less stringent than the particulate emission limitations specified as best available technology.

B. Operational Restrictions

1. #1 induction furnace (F003) shall be used for standby purposes only. At no time shall there be more than two (2) melting furnaces in operation at the facility.
2. Combined steel production, at the facility, shall not exceed 28,000 lbs/hr.
3. The fabric filter shall be employed at all times when the emissions unit is in operation.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the following information:
 - a. the steel production rate for this emissions unit and the total steel production rate for the facility, in pounds;
 - b. the hours of operation for this emissions unit; and
 - c. the average steel production rate for the facility, in lbs/hr.
2. The permittee shall perform two daily checks (one in the morning and one in the afternoon) of at least fifteen minutes in duration per check, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the fabric filter serving 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 visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

D. Reporting Requirements

1. The permittee shall submit steel production rate deviation (excursion) reports that identify all periods of time during which steel production exceeded the allowable rate specified above.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition 3 of this permit.
3. The permittee shall submit quarterly written reports which (a) identify all days, periods, and duration of incidents during which any visible particulate emissions were observed from the fabric filter serving this emissions unit; (b) the color of the emissions; (c) whether the emissions are representative of normal operations; (d) if the emissions are not representative of normal operations, the cause of the abnormal emissions; and (e) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31, April 30, July 31, October 31 of each year and shall cover the previous 3-month period.

E. Testing Requirements

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

The emission testing shall be conducted within 6 months prior to permit renewal.

The emission testing shall be conducted to demonstrate compliance with the applicable mass emission rate limitations for particulates, chromium compounds, and lead compounds.

The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: for particulates, Method 5 of 40 CFR Part 60; for chromium compounds, Method 29 of 40 CFR Part 60; and for lead compounds, Method 12 or 29 of 40 CFR Part 60. Alternative USEPA approved test methods may be used with prior approval from the Ohio EPA.

The tests 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 tests date, 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 and date of the tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, 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 tests 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 tests. 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 rate limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods (if applicable, alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA):
Emission Limitation:

7.0 lbs/hr of particulates (fabric filter outlet emission rate)

Applicable Compliance Method:

OAC rule 3745-17-03(B)(10)
Emission Limitation:

0.03 lb/hr of chromium compounds (fabric filter outlet emission rate)

Applicable Compliance Method:

Methods 1 - 4 and 29 of 40 CFR Part 60, Appendix A
Emission Limitation:

0.001 lb/hr of lead compounds (fabric filter outlet emission rate)

Applicable Compliance Method:

Methods 1 - 4 and 12 or 29 of 40 CFR Part 60, Appendix A
Emission Limitation:

1% opacity as a 6-minute average

Applicable Compliance Method:

OAC rule 3745-17-03(B)(1)
Emission Limitation:

no visible particulate emissions

Applicable Compliance Method:

OAC rule 3745-17-03(B)(4)

F. Miscellaneous Requirements

- 1. None

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

Facility ID: 1652100044 Emissions Unit ID: P005 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>
#301 natural gas-fired rotary steel shot dryer with a fabric filter	OAC rule 3745-31-05 (PTI 16-1308)	Combined stack emissions from 1652100044P005, P006, P007, P012, F001, F002, F003, and the shot

casting areas shall not exceed the following:

7.0 lbs/hr of particulates
0.03 lb/hr of chromium compounds
0.001 lb/hr of lead compounds

See A.2.a, A.2.e, and A.2.f below.

See A.2.g below.

OAC rule 3745-17-07

See A.2.g below.

OAC rule 3745-17-08

See A.2.g below.

OAC rule 3745-17-11

2. Additional Terms and Conditions

(a) The permittee shall employ best available technology (BAT) to control particulate emissions from this emissions unit. The control technology shall include the following:

i. the employment of a properly installed fabric filter, in accordance with the manufacturer's recommendations, instructions, and operating manual(s), to adequately control particulate emissions; and

ii. the employment of properly installed hoods, ducts, fans, and other equipment, in accordance with the manufacturer's recommendations, instructions, and operating manual(s), to adequately enclose, contain, capture, and vent particulate emissions to the fabric filter.

The permittee shall implement a preventive maintenance and malfunction abatement plan for the fabric filter which is designed to prevent, detect, and correct malfunctions or equipment failures which could result in emissions exceeding any applicable law. The preventive maintenance and malfunction abatement plan shall be in writing and include the following:

i. a comprehensive preventive maintenance program, including a description of the items or conditions that will be inspected, the frequency of these inspections or repairs, and an identification of the types and quantities of the replacement parts which will be maintained in inventory for quick replacement;

ii. an identification of the source and operating outlet variables of the air pollution control equipment that will be monitored in order to detect a malfunction or failure, the normal operating range of these variables, and a description of the monitoring or surveillance procedures and of the method of informing operating personnel of any malfunction, including alarm systems, lights and/or other indicators; and,

iii. a description of the corrective procedures that will be taken in the event of a malfunction or failure in order to achieve compliance with any applicable law as expeditiously as practical.

The permittee shall maintain operation and maintenance records to demonstrate that any preventive maintenance and malfunction abatement plan is fully implemented.

The Ohio EPA or local air agency retains the right to require the permittee to modify the preventive maintenance and malfunction abatement plan, should operating experience show that modification is necessary.

Visible particulate emissions from the fabric filter stacks shall not exceed 1% opacity as a 6-minute average.

The permittee shall not allow any visible particulate emissions from the ventilation system, doors or windows of the building enclosing this emissions unit.

The particulate emission limitations required by OAC rules 3745-17-07, 3745-17-08, and 3745-17-11 are less stringent than the particulate emission limitations specified as best available technology.

B. Operational Restrictions

1. #1 induction furnace (F003) shall be used for standby purposes only. At no time shall there be more than two (2) melting furnaces in operation at the facility.

2. Combined steel production, at the facility, shall not exceed 28,000 lbs/hr.

3. The fabric filter shall be employed at all times when the emissions unit is in operation.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the following information:

a. the steel production rate for this emissions unit and the total steel production rate for the facility, in pounds;

b. the hours of operation for this emissions unit; and

c. the average steel production rate for the facility, in lbs/hr.

2. The permittee shall perform two daily checks (one in the morning and one in the afternoon) of at least fifteen minutes in duration per check, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the fabric filter serving 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 visible emission incident; and

e. any corrective actions taken to eliminate the visible emissions.

D. Reporting Requirements

1. The permittee shall submit steel production rate deviation (excursion) reports that identify all periods of time during which steel production exceeded the allowable rate specified above.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition 3 of this permit.
3. The permittee shall submit quarterly written reports which (a) identify all days, periods, and duration of incidents during which any visible particulate emissions were observed from the fabric filter serving this emissions unit; (b) the color of the emissions; (c) whether the emissions are representative of normal operations; (d) if the emissions are not representative of normal operations, the cause of the abnormal emissions; and (e) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31, April 30, July 31, October 31 of each year and shall cover the previous 3-month period.

E. Testing Requirements

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

The emission testing shall be conducted within 6 months prior to permit renewal.

The emission testing shall be conducted to demonstrate compliance with the applicable mass emission rate limitations for particulates, chromium compounds, and lead compounds.

The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: for particulates, Method 5 of 40 CFR Part 60; for chromium compounds, Method 29 of 40 CFR Part 60; and for lead compounds, Method 12 or 29 of 40 CFR Part 60. Alternative USEPA approved test methods may be used with prior approval from the Ohio EPA.

The tests 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 tests date, 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 and date of the tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, 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 tests 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 tests. 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 rate limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods (if applicable, alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA):
Emission Limitation:

7.0 lbs/hr of particulates (fabric filter outlet emission rate)

Applicable Compliance Method:

OAC rule 3745-17-03(B)(10)

Emission Limitation:

0.03 lb/hr of chromium compounds (fabric filter outlet emission rate)

Applicable Compliance Method:

Methods 1 - 4 and 29 of 40 CFR Part 60, Appendix A

Emission Limitation:

0.001 lb/hr of lead compounds (fabric filter outlet emission rate)

Applicable Compliance Method:

Methods 1 - 4 and 12 or 29 of 40 CFR Part 60, Appendix A

Emission Limitation:

1% opacity as a 6-minute average

Applicable Compliance Method:

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

Emission Limitation:

no visible particulate emissions

Applicable Compliance Method:

OAC rule 3745-17-03(B)(4)

F. Miscellaneous Requirements

1. None

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

Facility ID: 1652100044 Emissions Unit ID: P006 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>
#302 natural gas-fired rotary steel shot dryer with a fabric filter	OAC rule 3745-31-05 (PTI 16-1308)	Combined stack emissions from 1652100044P005, P006, P007, P012, F001, F002, F003, and the shot casting areas shall not exceed the following: 7.0 lbs/hr of particulates 0.03 lb/hr of chromium compounds 0.001 lb/hr of lead compounds See A.2.a, A.2.e, and A.2.f below. See A.2.g below.
	OAC rule 3745-17-07	See A.2.g below.
	OAC rule 3745-17-08	See A.2.g below.
	OAC rule 3745-17-11	

2. Additional Terms and Conditions

- (a) The permittee shall employ best available technology (BAT) to control particulate emissions from this emissions unit. The control technology shall include the following:
 - i. the employment of a properly installed fabric filter, in accordance with the manufacturer's recommendations, instructions, and operating manual(s), to adequately control particulate emissions; and
 - ii. the employment of properly installed hoods, ducts, fans, and other equipment, in accordance with the manufacturer's recommendations, instructions, and operating manual(s), to adequately enclose, contain, capture, and vent particulate emissions to the fabric filter.
The permittee shall implement a preventive maintenance and malfunction abatement plan for the fabric filter which is designed to prevent, detect, and correct malfunctions or equipment failures which could result in emissions exceeding any applicable law. The preventive maintenance and malfunction abatement plan shall be in writing and include the following:
 - i. a comprehensive preventive maintenance program, including a description of the items or conditions that will be inspected, the frequency of these inspections or repairs, and an identification of the types and quantities of the replacement parts which will be maintained in inventory for quick replacement;
 - ii. an identification of the source and operating outlet variables of the air pollution control equipment that will be monitored in order to detect a malfunction or failure, the normal operating range of these variables, and a description of the monitoring or surveillance procedures and of the method of informing operating personnel of any malfunction, including alarm systems, lights and/or other indicators; and,
 - iii. a description of the corrective procedures that will be taken in the event of a malfunction or failure in order to achieve compliance with any applicable law as expeditiously as practical.
The permittee shall maintain operation and maintenance records to demonstrate that any preventive maintenance and malfunction abatement plan is fully implemented.

The Ohio EPA or local air agency retains the right to require the permittee to modify the preventive maintenance and malfunction abatement plan, should operating experience show that modification is necessary.

Visible particulate emissions from the fabric filter stacks shall not exceed 1% opacity as a 6-minute average.

The permittee shall not allow any visible particulate emissions from the ventilation system, doors or windows of the building enclosing this emissions unit.

The particulate emission limitations required by OAC rules 3745-17-07, 3745-17-08, and 3745-17-11 are less stringent than the particulate emission limitations specified as best available technology.

B. Operational Restrictions

1. #1 induction furnace (F003) shall be used for standby purposes only. At no time shall there be more than two (2) melting furnaces in operation at the facility.
2. Combined steel production, at the facility, shall not exceed 28,000 lbs/hr.
3. The fabric filter shall be employed at all times when the emissions unit is in operation.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the following information:
 - a. the steel production rate for this emissions unit and the total steel production rate for the facility, in pounds;
 - b. the hours of operation for this emissions unit; and
 - c. the average steel production rate for the facility, in lbs/hr.
2. The permittee shall perform two daily checks (one in the morning and one in the afternoon) of at least fifteen minutes in duration per check, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the fabric filter serving 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 visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

D. Reporting Requirements

1. The permittee shall submit steel production rate deviation (excursion) reports that identify all periods of time during which steel production exceeded the allowable rate specified above.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition 3 of this permit.
3. The permittee shall submit quarterly written reports which (a) identify all days, periods, and duration of incidents during which any visible particulate emissions were observed from the fabric filter serving this emissions unit; (b) the color of the emissions; (c) whether the emissions are representative of normal operations; (d) if the emissions are not representative of normal operations, the cause of the abnormal emissions; and (e) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31, April 30, July 31, October 31 of each year and shall cover the previous 3-month period.

E. Testing Requirements

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

The emission testing shall be conducted within 6 months prior to permit renewal.

The emission testing shall be conducted to demonstrate compliance with the applicable mass emission rate limitations for particulates, chromium compounds, and lead compounds.

The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: for particulates, Method 5 of 40 CFR Part 60; for chromium compounds, Method 29 of 40 CFR Part 60; and for lead compounds, Method 12 or 29 of 40 CFR Part 60. Alternative USEPA approved test methods may be used with prior approval from the Ohio EPA.

The tests 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 tests date, 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 and date of the tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, 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 tests 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 tests. 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 rate limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods (if applicable, alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA):
 Emission Limitation:
 7.0 lbs/hr of particulates (fabric filter outlet emission rate)
 Applicable Compliance Method:
 OAC rule 3745-17-03(B)(10)
 Emission Limitation:
 0.03 lb/hr of chromium compounds (fabric filter outlet emission rate)
 Applicable Compliance Method:
 Methods 1 - 4 and 29 of 40 CFR Part 60, Appendix A
 Emission Limitation:
 0.001 lb/hr of lead compounds (fabric filter outlet emission rate)
 Applicable Compliance Method:
 Methods 1 - 4 and 12 or 29 of 40 CFR Part 60, Appendix A
 Emission Limitation:
 1% opacity as a 6-minute average
 Applicable Compliance Method:
 OAC rule 3745-17-03(B)(1)
 Emission Limitation:
 no visible particulate emissions
 Applicable Compliance Method:
 OAC rule 3745-17-03(B)(4)

F. Miscellaneous Requirements

1. None

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

Facility ID: 1652100044 Emissions Unit ID: P007 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>
#303 natural gas-fired rotary steel shot dryer with a fabric filter	OAC rule 3745-31-05 (PTI 16-1308)	Combined stack emissions from 1652100044P005, P006, P007, P012, F001, F002, F003, and the shot casting areas shall not exceed the following: 7.0 lbs/hr of particulates 0.03 lb/hr of chromium compounds 0.001 lb/hr of lead compounds

See A.2.a, A.2.e, and A.2.f below.

See A.2.g below.

OAC rule 3745-17-07

See A.2.g below.

OAC rule 3745-17-08

See A.2.g below.

OAC rule 3745-17-11

2. Additional Terms and Conditions

(a) The permittee shall employ best available technology (BAT) to control particulate emissions from this emissions unit. The control technology shall include the following:

i. the employment of a properly installed fabric filter, in accordance with the manufacturer's recommendations, instructions, and operating manual(s), to adequately control particulate emissions; and

ii. the employment of properly installed hoods, ducts, fans, and other equipment, in accordance with the manufacturer's recommendations, instructions, and operating manual(s), to adequately enclose, contain, capture, and vent particulate emissions to the fabric filter.
The permittee shall implement a preventive maintenance and malfunction abatement plan for the fabric filter which is designed to prevent, detect, and correct malfunctions or equipment failures which could result in emissions exceeding any applicable law. The preventive maintenance and malfunction abatement plan shall be in writing and include the following:

i. a comprehensive preventive maintenance program, including a description of the items or conditions that will be inspected, the frequency of these inspections or repairs, and an identification of the types and quantities of the replacement parts which will be maintained in inventory for quick replacement;

ii. an identification of the source and operating outlet variables of the air pollution control equipment that will be monitored in order to detect a malfunction or failure, the normal operating range of these variables, and a description of the monitoring or surveillance procedures and of the method of informing operating personnel of any malfunction, including alarm systems, lights and/or other indicators; and,

iii. a description of the corrective procedures that will be taken in the event of a malfunction or failure in order to achieve compliance with any applicable law as expeditiously as practical.

The permittee shall maintain operation and maintenance records to demonstrate that any preventive maintenance and malfunction abatement plan is fully implemented.

The Ohio EPA or local air agency retains the right to require the permittee to modify the preventive maintenance and malfunction abatement plan, should operating experience show that modification is necessary.

Visible particulate emissions from the fabric filter stacks shall not exceed 1% opacity as a 6-minute average.

The permittee shall not allow any visible particulate emissions from the ventilation system, doors or windows of the building enclosing this emissions unit.

The particulate emission limitations required by OAC rules 3745-17-07, 3745-17-08, and 3745-17-11 are less stringent than the particulate emission limitations specified as best available technology.

B. Operational Restrictions

1. #1 induction furnace (F003) shall be used for standby purposes only. At no time shall there be more than two (2) melting furnaces in operation at the facility.
2. Combined steel production, at the facility, shall not exceed 28,000 lbs/hr.
3. The fabric filter shall be employed at all times when the emissions unit is in operation.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the following information:
 - a. the steel production rate for this emissions unit and the total steel production rate for the facility, in pounds;
 - b. the hours of operation for this emissions unit; and
 - c. the average steel production rate for the facility, in lbs/hr.
2. The permittee shall perform two daily checks (one in the morning and one in the afternoon) of at least fifteen minutes in duration per check, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the fabric filter serving 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 visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

D. Reporting Requirements

1. The permittee shall submit steel production rate deviation (excursion) reports that identify all periods of time during which steel production exceeded the allowable rate specified above.
2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition 3 of this permit.

3. The permittee shall submit quarterly written reports which (a) identify all days, periods, and duration of incidents during which any visible particulate emissions were observed from the fabric filter serving this emissions unit; (b) the color of the emissions; (c) whether the emissions are representative of normal operations; (d) if the emissions are not representative of normal operations, the cause of the abnormal emissions; and (e) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31, April 30, July 31, October 31 of each year and shall cover the previous 3-month period.

E. Testing Requirements

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

The emission testing shall be conducted within 6 months prior to permit renewal.

The emission testing shall be conducted to demonstrate compliance with the applicable mass emission rate limitations for particulates, chromium compounds, and lead compounds.

The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: for particulates, Method 5 of 40 CFR Part 60; for chromium compounds, Method 29 of 40 CFR Part 60; and for lead compounds, Method 12 or 29 of 40 CFR Part 60. Alternative USEPA approved test methods may be used with prior approval from the Ohio EPA.

The tests 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 tests date, 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 and date of the tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, 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 tests 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 tests. 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 rate limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods (if applicable, alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA):
Emission Limitation:

7.0 lbs/hr of particulates (fabric filter outlet emission rate)

Applicable Compliance Method:

OAC rule 3745-17-03(B)(10)

Emission Limitation:

0.03 lb/hr of chromium compounds (fabric filter outlet emission rate)

Applicable Compliance Method:

Methods 1 - 4 and 29 of 40 CFR Part 60, Appendix A

Emission Limitation:

0.001 lb/hr of lead compounds (fabric filter outlet emission rate)

Applicable Compliance Method:

Methods 1 - 4 and 12 or 29 of 40 CFR Part 60, Appendix A

Emission Limitation:

1% opacity as a 6-minute average

Applicable Compliance Method:

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

Emission Limitation:

no visible particulate emissions

Applicable Compliance Method:

OAC rule 3745-17-03(B)(4)

F. Miscellaneous Requirements

1. None