

Facility ID: 0857041183 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 P009](#)
[Go to Part II for Emissions Unit P048](#)
[Go to Part II for Emissions Unit P083](#)

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

Facility ID: 0857041183 Emissions Unit ID: P009 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>
Mechanical shakeout, with baghouse control	OAC rule 3745-17-11(B)(1) OAC rule 3745-17-07(A)(1)	The particulate emissions (PE) from this emissions unit shall not exceed 7.58 pounds per hour (lbs/hour). Visible particulate emissions shall not exceed 20% opacity, as a six-minute average from the baghouse exhaust.

2. **Additional Terms and Conditions**
 - (a) None

B. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 1 - 6 inches of water while the emissions unit is in operation.

C. Monitoring and/or Record Keeping Requirements

1. 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 quarterly 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 quarterly deviation (excursion) reports shall be submitted to the Ohio EPA Central District Office or local air agency by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarter. If no deviations occurred during the calendar quarter, the permittee shall submit a report which states that no deviations occurred during the calendar quarter.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
 - Emissions Limitation -
The PE from this emissions unit shall not exceed 7.58 lbs/hour
 - Applicable Compliance Method -
The allowable hourly emissions rate is based upon the maximum uncontrolled emissions rate and Table I found in OAC rule 3745-17-11. The maximum hourly uncontrolled emissions rate is determined by multiplying the maximum production rate of 2.53 tons of metal processed/hour by 3.2 lbs PE/ton of metal processed (AP-42, Section 12.10: Gray Iron Foundries, Table 12.10-7, revised 5/03). If required, compliance with this mass emission limitation shall be based on stack testing per OAC rule 3745-17-03(B)(10).
 - Emissions Limitation -
Visible particulate emissions shall not exceed 20% opacity, as a six-minute average from the baghouse exhaust

Applicable Compliance Method -
 Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(3) using the methods and procedures specified in USEPA Reference Method 9.

F. Miscellaneous Requirements

- 1. None

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

Facility ID: 0857041183 Emissions Unit ID: P048 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>
Shell molding, pouring, and shakeout, with two baghouse controls	OAC rule 3745-31-05(A)(3) PTI 08-632	The particulate emissions (PE) from this emissions unit shall not exceed 1.0 pound per hour (lb/hour).
	OAC rule 3745-17-11(B)(1)	Visible particulate emissions shall not exceed 5% opacity, as a six-minute average from the baghouse exhaust.
	OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

- 2. **Additional Terms and Conditions**
 - (a) None

B. Operational Restrictions

- 1. The pressure drop across each baghouse shall be maintained within the range of 1 - 5 inches of water while the emissions unit is in operation.

C. Monitoring and/or Record Keeping Requirements

- 1. 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 quarterly 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 quarterly deviation (excursion) reports shall be submitted to the Ohio EPA Central District Office or local air agency by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarter. If no deviations occurred during the calendar quarter, the permittee shall submit a report which states that no deviations occurred during the calendar quarter.

E. Testing Requirements

- 1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
 Emissions Limitation -
 The PE from this emissions unit shall not exceed 1.0 lb/hour

Applicable Compliance Method -

The allowable hourly emissions rate is based upon the maximum uncontrolled emissions rate and Table I found in OAC rule 3745-17-11. The maximum hourly uncontrolled emissions rate is determined by multiplying the maximum production rate of 2.53 tons of metal processed/hour by 3.2 lbs PE/ton of metal processed (AP-42, Section 12.10: Gray Iron Foundries, Table 12.10-7, revised 5/03). If required, compliance with this mass emission limitation shall be based on stack testing per OAC rule 3745-17-03(B)(10).

Emissions Limitation -

Visible particulate emissions shall not exceed 5% opacity, as a six-minute average from the baghouse exhaust.

Applicable Compliance Method -

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(3) using the methods and procedures specified in USEPA Reference Method 9.

F. **Miscellaneous Requirements**

1. None

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

Facility ID: 0857041183 Emissions Unit ID: P083 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>
7.3 MMBTU/hr natural gas-fired burnout pusher furnace with thermal incinerator	OAC rule 3745-31-05(A)(3) (PTI 08-1755)	The particulate emissions (PE) from this emissions unit shall not exceed 10.32 tons per year (TPY). The organic compound (OC) emissions from this emissions unit shall not exceed 5.58 tons per year. Visible particulate emissions shall not exceed 5% opacity, as a six-minute average from the thermal incinerator exhaust.
	OAC rule 3745-17-09(B)	The particulate emissions (PE) from this emissions unit shall not exceed 0.10 pound per 100 pounds (0.10 lbs/100 lbs) of salvageable material charged.
	OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. **Additional Terms and Conditions**

- (a) None

B. **Operational Restrictions**

1. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1600 degrees Fahrenheit.

C. **Monitoring and/or Record Keeping Requirements**

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.
2. The permittee shall collect and record the following information for each day:

a. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was less than 1600 degrees Fahrenheit.

b. A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.

These quarterly deviation (excursion) reports shall be submitted to the Ohio EPA Central District Office or local air agency by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarter. If no deviations occurred during the calendar quarter, the permittee shall submit a report which states that no deviations occurred during the calendar quarter.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

Emissions Limitation -

The PE from this emissions unit shall not exceed 0.10 lbs/100 lbs of salvageable material charged

Applicable Compliance Method -

Compliance was demonstrated during an October 24, 1989 stack test, with an average hourly emission rate of 0.043 lb/100 lbs salvageable material charged. If again required, compliance with this mass emission limitation shall be based on stack testing per OAC rule 3745-17-03(B)(8).

Emissions Limitation -

The PE from this emissions unit shall not exceed 10.32 TPY

Applicable Compliance Method -

Compliance shall be determined by multiplying the maximum rated capacity of the emissions unit (2350 lbs of material charged/hour) by the average lb/100 lbs salvageable material charged from the stack test performed on October 24, 1989 (0.043 lb particulate/100 lbs material charged) and the maximum operating schedule of 8760 hours/year, divided by 2,000 pounds per ton.

Emissions Limitation -

The OC emissions from this emissions unit shall not exceed 5.58 tons per year.

Applicable Compliance Method -

Compliance shall be determined by multiplying the average hourly wax loading into the pusher furnace (50 lbs wax/hour per application) by the organic compound content of the wax (0.35 lb OC/lb wax) a control efficiency of 93% (1 - 0.93). This product is then multiplied by the maximum operating schedule of 8760 hours/year and divided by 2,000 pounds per ton.

Emissions Limitation -

Visible particulate emissions shall not exceed 5% opacity, as a six-minute average from the thermal incinerator exhaust

Applicable Compliance Method -

Compliance shall be determined by visible emissions evaluations performed in accordance with OAC rule 3745-17-03(B)(3) using the methods and procedures specified in USEPA Reference Method 9.

F. Miscellaneous Requirements

1. None