

Facility ID: 1431233202 Issuance type: Title V Draft Permit

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 III" and before "I. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

Part II - Specific Facility Terms and Conditions

a State and Federally Enforceable Section

1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

b State Only Enforceable Section

1. The following insignificant emissions units are located at this facility:

P006 - Grinders and Finishing Castings
P010 - Core Making Machine with Packed Tower Scrubber
P905 - Core Making and Sand Mixing

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within a permit to install for the emissions unit.

- [Go to Part III for Emissions Unit F001](#)
- [Go to Part III for Emissions Unit F002](#)
- [Go to Part III for Emissions Unit F003](#)
- [Go to Part III for Emissions Unit F006](#)
- [Go to Part III for Emissions Unit F007](#)
- [Go to Part III for Emissions Unit F008](#)
- [Go to Part III for Emissions Unit F016](#)
- [Go to Part III for Emissions Unit F018](#)
- [Go to Part III for Emissions Unit P001](#)
- [Go to Part III for Emissions Unit P002](#)
- [Go to Part III for Emissions Unit P005](#)
- [Go to Part III for Emissions Unit P007](#)
- [Go to Part III for Emissions Unit P008](#)
- [Go to Part III for Emissions Unit P011](#)
- [Go to Part III for Emissions Unit P901](#)
- [Go to Part III for Emissions Unit P904](#)
- [Go to Part III for Emissions Unit P906](#)
- [Go to Part III for Emissions Unit P907](#)
- [Go to Part III for Emissions Unit P908](#)

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1431233202 Emissions Unit ID: F001 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. 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>
Coreless Induction Melting Furnace No. 1	OAC rule 3745-17-07(B)(1)	Visible particulate emissions of fugitive dust shall not exceed twenty percent opacity, as a three-minute average, except as specified by rule.
	OAC rule 3745-17-08(B)*	Reasonably available control measures to minimize or eliminate visible particulate emissions of fugitive dust. (No control measures have been identified as being reasonably available for this emissions unit.) * This emissions unit is located in a non-Appendix A area, but is subject to this rule per OAC rule 3745-17-08(A)(2).

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

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. Operational Restrictions

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily 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.

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any 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 Hamilton County Department of Environmental Services by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. 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):

Emission Limitation:

20% opacity

Applicable Compliance Method:

Compliance with OAC rule 3745-17-07(B)(1) shall be determined by the method outlined in OAC rule 3745-17-03(B)(3).
2. Compliance with OAC rule 3745-17-08(B) shall be determined by the method outlined in OAC rule 3745-17-08 (C).

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. Miscellaneous Requirements

1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

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

Facility ID: 1431233202 Emissions Unit ID: F001 Issuance type: Title V Draft Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. 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>
Coreless Induction Melting Furnace No. 1		

2. **Additional Terms and Conditions**

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. Operational Restrictions

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. Monitoring and/or Record Keeping Requirements

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. Reporting Requirements

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. Testing Requirements

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. Miscellaneous Requirements

- 1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1431233202 Emissions Unit ID: F002 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. 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>
Coreless Induction Melting Furnace No. 2	OAC rule 3745-17-07(B)(1)	Visible particulate emissions of fugitive dust shall not exceed twenty percent opacity, as a three-minute average, except as specified by rule. Reasonably available control measures to minimize or eliminate visible particulate emissions of fugitive dust. (No control measures have been identified as being reasonably available for this emissions unit.) * This emissions unit is located in a non-Appendix A area, but is subject to this rule per OAC rule 3745-17-08(A)(2).
	OAC rule 3745-17-08(B)*	

2. Additional Terms and Conditions

- (a) None

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. Operational Restrictions

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily 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.

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any 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 Hamilton County Department of Environmental Services by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. 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):

Emission Limitation:

20% opacity

Applicable Compliance Method:

Compliance with OAC rule 3745-17-07(B)(1) shall be determined by the method outlined in OAC rule 3745-17-03(B)(3).
2. Compliance with OAC rule 3745-17-08(B) shall be determined by the method outlined in OAC rule 3745-17-08 (C).

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. Miscellaneous Requirements

1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

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

Facility ID: 1431233202 Emissions Unit ID: F002 Issuance type: Title V Draft Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. 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>
---	--------------------------------------	--

Coreless Induction Melting Furnace No. 2

2. **Additional Terms and Conditions**

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. **Operational Restrictions**

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

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

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. **Reporting Requirements**

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. **Testing Requirements**

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1431233202 Emissions Unit ID: F003 Issuance type: Title V Draft Permit

A. **State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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>
---	--------------------------------------	--

Coreless Induction Melting Furnace No. 3 OAC rule 3745-17-07(B)(1)

Visible particulate emissions of fugitive dust shall not exceed twenty percent opacity, as a three-minute

OAC rule 3745-17-08(B)*

average, except as specified by rule.

Reasonably available control measures to minimize or eliminate visible particulate emissions of fugitive dust. (No control measures have been identified as being reasonably available for this emissions unit.)

* This emissions unit is located in a non-Appendix A area, but is subject to this per OAC rule 3745-17-08(A) (2).

2. **Additional Terms and Conditions**

- (a) None

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. **Operational Restrictions**

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

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

1. The permittee shall perform daily 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:
- the color of the emissions;
 - whether the emissions are representative of normal operations;
 - if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - the total duration of any abnormal visible emission incident; and
 - any corrective actions taken to eliminate the abnormal visible emissions.

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. **Reporting Requirements**

1. The permittee shall submit semiannual written reports which (a) identify all days during which any 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 Hamilton County Department of Environmental Services by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. **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):
- Emission Limitation:
- 20% opacity
- Applicable Compliance Method:
- Compliance with OAC rule 3745-17-07(B)(1) shall be determined by the method outlined in OAC rule 3745-17-03(B)(3).
2. Compliance with OAC rule 3745-17-08(B) shall be determined by the method outlined in OAC rule 3745-17-08 (C).

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

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

Facility ID: 1431233202 Emissions Unit ID: F003 Issuance type: Title V Draft Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. 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>
Coreless Induction Melting Furnace No. 3		

2. Additional Terms and Conditions

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. Operational Restrictions

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. Monitoring and/or Record Keeping Requirements

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. Reporting Requirements

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. Testing Requirements

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. Miscellaneous Requirements

- 1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1431233202 Emissions Unit ID: F006 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. 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>
Ductile iron inoculation	OAC rule 3745-17-07(B)(1)	Visible particulate emissions of fugitive dust shall not exceed twenty percent opacity, as a three-minute average, except as specified by rule.
	OAC rule 3745-17-08(B)*	Reasonably available control measures to minimize or eliminate visible particulate emissions of fugitive dust. (No control measures have been identified as being reasonably available for this emissions unit.) * This emissions unit is located in a non-Appendix A area, but is subject to this rule per OAC rule 3745-17-08(A)(2).

2. Additional Terms and Conditions

- (a) None

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. Operational Restrictions

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily 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.

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any 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 Hamilton County Department of Environmental Services by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. 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):

Emission Limitation:

20% opacity

Applicable Compliance Method:

Compliance with OAC rule 3745-17-07(B)(1) shall be determined by the method outlined in OAC rule 3745-17-03(B)(3).
2. Compliance with OAC rule 3745-17-08(B) shall be determined by the method outlined in OAC rule 3745-17-08 (C).

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

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

Facility ID: 1431233202 Emissions Unit ID: F006 Issuance type: Title V Draft Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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>
Ductile iron inoculation		
2. Additional Terms and Conditions		
1. None		

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. **Operational Restrictions**

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

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

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. **Reporting Requirements**

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. **Testing Requirements**

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1431233202 Emissions Unit ID: F007 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. 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>
Core Making Machines	OAC rule 3745-17-07(B)(1)	Visible particulate emissions of fugitive dust shall not exceed twenty percent opacity, as a three-minute average, except as specified by rule.
	OAC rule 3745-17-08(B)*	Reasonably available control measures to minimize or eliminate visible particulate emissions of fugitive dust. (No control measures have been identified as being reasonably available for this emissions unit.)
	OAC rule 3745-21-07(G)	Emissions of organic compounds shall not exceed 8 lbs/hr and 40 lbs/day, unless reduced by at least 85 percent, on any day when photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), are employed.

* This emissions unit is located in a non-Appendix A area, but is subject to this per OAC rule 3745-17-08(A)(2).

2. Additional Terms and Conditions

- (a) None

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. Operational Restrictions

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall keep the following records each day this emissions unit operates while using any photochemically reactive material:
 - a. the company identification of each liquid organic material used;
 - b. the amounts (pounds) of each liquid organic material and sand mixed;
 - c. the number of hours of operation;
 - d. an estimate of the daily organic compound emission rate (pounds), using an emission factor of 1.17 pounds OC per ton of sand employed (1.17 x total tons sand mixed); and
 - e. the average hourly organic compound emission rate (pounds) (d/c).
2. The permittee shall perform daily 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.

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. **Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day during which the average hourly organic compound emission rate exceeded 8 pounds per hour, and the actual average hourly organic compound emission rate for each such day; and
 - b. an identification of each day during which the organic compound emission rate exceeded 40 pounds per day, and the actual organic compound emission rate for each such day.
2. The permittee shall submit semiannual written reports which (a) identify all days during which any 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 Hamilton County Department of Environmental Services by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. **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):
 - a. Emission Limitation:

20% opacity

Applicable Compliance Method:

Compliance with OAC rule 3745-17-07(B)(1) shall be determined by the method outlined in OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:

40 lbs organic compounds per day

Applicable Compliance Method:

To determine the actual emission rate in lbs/day for organic compounds, the following equation shall be used:

$$E_d = \text{sand usage rate (in tons per day)} \times 1.17 \text{ lbs/ton sand}$$

where

$$E_d = \text{organic compound emission rate (lbs/day)}$$

1.17 = emission factor (lbs OC per ton of sand) for phenolic urethane no-bake binder system, from Ohio Cast Metal Association study, and tons of sand per day, from the records required by section A.III.1.b.
 - c. Emission Limitation:

8 lbs organic compounds per hour

Applicable Compliance Method:

To determine the actual average emission rate in lbs/hr for organic compounds, the following equation shall be used:

$$E_h = E_d / H$$

where

$$E_h = \text{average organic compound emission rate (lbs/hr)}$$

$$E_d = \text{daily organic compound emission rate, as determined in A.V.2., in lbs/day}$$

$$H = \text{hours of operation each day from records provided by A.III.c.}$$
2. Compliance with OAC rule 3745-17-08(B) shall be determined by the method outlined in OAC rule 3745-17-08 (C).

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

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

Facility ID: 1431233202 Emissions Unit ID: F007 Issuance type: Title V Draft Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. 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>
Core Making Machines		

2. **Additional Terms and Conditions**

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. Operational Restrictions

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. Monitoring and/or Record Keeping Requirements

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. Reporting Requirements

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. Testing Requirements

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. Miscellaneous Requirements

- 1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1431233202 Emissions Unit ID: F008 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. 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>
Core making machines with wet scrubber	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed twenty percent opacity, as a six-minute average, except as specified by rule.
Core making fugitive emissions	OAC rule 3745-17-07(B)(1)	Visible particulate emissions of fugitive dust shall not exceed twenty percent opacity, as a three-minute average, except as specified by rule.
Core making fugitive emissions	OAC rule 3745-17-08(B)*	Reasonably available control measures to minimize or eliminate visible particulate emissions of fugitive dust. (No control measures have been identified as being reasonably available for this emissions unit.)
Core making stack emissions from the wet scrubber	OAC rule 3745-17-11	* This emissions unit is located in a non-Appendix A area, but is subject to this rule per OAC rule 3745-17-08(A)(2).
	OAC rule 3745-21-07(G)	6.52 lbs particulate emissions/hr from stack (based on Table I of OAC rule 3745-17-11) Emissions of organic compounds shall not exceed 8 lbs/hr and 40 lbs/day, unless reduced by at least 85 percent, on any day when photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), are employed.

2. Additional Terms and Conditions

- (a) None

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. Operational Restrictions

1. The pH of the scrubber liquor shall be maintained at or below a value of 4.0 at all times while the emissions unit is in operation.
2. The pressure drop across the scrubber shall be continuously maintained within the range of 1 to 6 inches of water at all times while the emissions unit is in operation.
3. All emissions from the core machines shall be vented to the wet scrubber.

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly install, operate and maintain equipment to continuously monitor and record the pH of the scrubber liquor while the emissions unit is in operation. The pH monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:

- a. the pH of the scrubber liquor, on a once/day basis; and
- b. a log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

2. The permittee shall properly install, operate and maintain equipment to continuously monitor the static pressure drop across the scrubber while the emissions unit is in operation. The monitoring device and any recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:

- a. the pressure drop across the scrubber, in inches of water, on a once/day basis; and

- b. the operating times for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.
- 3. The permittee shall keep the following records for all core making machines each day this emissions unit operates while using any photochemically reactive material:
 - a. the company identification of each liquid organic material used;
 - b. the amounts (pounds) of each liquid organic material and sand mixed;
 - c. the maximum number of hours that any one machine operated during the day;
 - d. an estimate of the daily organic compound emission rate (pounds), using an emission factor of 1.17 pounds OC per ton of sand employed (1.17 x total tons sand mixed); and
 - e. the average hourly organic compound emission rate (pounds) (d/c).
- 4. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit and 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.

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. Reporting Requirements

- 1. The permittee shall submit pH deviation (excursion) reports that identify all periods of time during which the scrubber liquor pH did not comply with the pH restriction specified above.
- 2. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the pressure drop across the scrubber was not maintained within the required range.
- 3. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification of each day during which any photochemically reactive materials were used and the average hourly organic compound emission rate exceeded 8 pounds per hour, and the actual average hourly organic compound emission rate for each such day; and
 - b. an identification of each day during which any photochemically reactive materials were used and the organic compound emission rate exceeded 40 pounds per day, and the actual organic compound emission rate for each such day.
- 4. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions from the stack serving this emission unit or any visible fugitive particulate emissions escaping from the building containing this emissions unit were observed and (b) describe any corrective actions taken to eliminate the abnormal visible emissions. These reports shall be submitted to the Hamilton County Department of Environmental Services by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. 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):
 - a. Emission Limitation:
 - 20% opacity, as a six-minute average
 - Applicable Compliance Method:
 - Compliance with OAC rule 3745-17-07(A)(1) shall be determined by the method outlined in OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:
 - 20% opacity, as a three-minute average
 - Applicable Compliance Method:
 - Compliance with OAC rule 3745-17-07(B)(1) shall be determined by the method outlined in OAC rule 3745-17-03(B)(3).

- c. Emission Limitation:
- 6.52 lbs particulate emissions (PE)/hr
- Applicable Compliance Method:
- The particulate emission rate shall be determined by using the following equation except as otherwise provided below:
- $$\text{Lbs PE/hr} = (A) \times (B) \times (100 - C)/100$$
- where:
- A = particulate emission factor of 0.35 lb/ton of cores produced, from Ohio EPA reference document entitled RACM, Section 2.7;
 B = hourly production rate, tons of cores produced; and
 C = percent control efficiency of wet scrubber (the design efficiency of the scrubber, except if actual efficiency is available from stack test data).
- If testing is required to demonstrate compliance with the allowable emission limitation of 6.52 lbs PE/hr, then testing shall be conducted using the following method:
- 40 CFR, Part 60, Appendix A, Method 5.
- d. Emission Limitation:
- 40 lbs organic compounds per day
- Applicable Compliance Method:
- The following equation shall be used to determine the actual emission rate in lbs/day for organic compounds except as provided below:
- $$\text{Lbs/hr organic compounds} = (A) \times (B)$$
- where:
- A = sand usage rate, tons per day; and
 B = emission factor (1.17 lbs OC per ton of sand) for phenolic urethane no-bake binder system, from Ohio Cast Metal Association study.
- If testing is required to demonstrate compliance with the allowable emission limitation of 40 lbs OC/day, then testing shall be conducted using the following method and multiplying the tested hourly OC emission rate by the hours of operation during the day:
- 40 CFR, Part 60, Appendix A, Method 25.
- e. Emission Limitation:
- 8 lbs organic compounds per hour
- Applicable Compliance Method:
- The following equation shall be used to determine the actual emission rate in lbs/hr for organic compounds except as otherwise provided below:
- $$\text{Lbs/hr organic compounds} = (A) \times (H)$$
- where:
- A = daily organic compound emission rate, as determined in A.V.5.
 H = hours of operation each day from records provided by A.III.
- If testing is required to demonstrate compliance with the allowable emission limitation of 8 lbs OC/hr, then testing shall be conducted using the following method:
- 40 CFR, Part 60, Appendix A, Method 25.
2. Compliance with OAC rule 3745-17-08(B) shall be determined by the method outlined in OAC rule 3745-17-08 (C).

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

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

Facility ID: 1431233202 Emissions Unit ID: F008 Issuance type: Title V Draft Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. 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>
Core Making Machines with Wet Scrubber		
2. Additional Terms and Conditions		
<ul style="list-style-type: none"> 1. None 		

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. Operational Restrictions

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. Monitoring and/or Record Keeping Requirements

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. Reporting Requirements

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. Testing Requirements

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. Miscellaneous Requirements

- 1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1431233202 Emissions Unit ID: F016 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. 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>
Coreless Induction Melting Furnace No. 4	OAC rule 3745-17-07(B)(1)	Visible particulate emissions from any fugitive dust source shall not exceed twenty percent opacity, as a three-minute average, except as specified by rule.
	OAC rule 3745-17-08(B)*	Reasonably available control measures to minimize or eliminate visible particulate emissions of fugitive dust. (No control measures have been identified as being reasonably available for this emissions unit.)

* This emissions unit is located in a non-Appendix A area, but is subject to this rule per OAC rule 3745-17-08(A)(2).

2. Additional Terms and Conditions

- (a) None

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. Operational Restrictions

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. 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.

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. Reporting Requirements

- 1. The permittee shall submit semiannual written reports which (a) identify all days during which any 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 Hamilton County Department of Environmental Services by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. 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):
 - Emission Limitation:
 - 20% opacity
 - Applicable Compliance Method:
 - Compliance with OAC rule 3745-17-07(B)(1) shall be determined by the method outlined in OAC rule 3745-17-03(B)(3).
- 2. Compliance with OAC rule 3745-17-08(B) shall be determined by the method outlined in OAC rule 3745-17-08

(C).

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

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

Facility ID: 1431233202 Emissions Unit ID: F016 Issuance type: Title V Draft Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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>
Coreless Induction Melting Furnace No. 4	OAC rule 3745-31-05 (PTI 14-1995)	3.8 lbs particulate emissions/hr*, 9.0 tons particulate emissions/yr

* The lb/hr emission limit is equal to or less than the emissions unit's potential to emit. Therefore, no daily recordkeeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limit.

2. **Additional Terms and Conditions**
 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. **Operational Restrictions**

1. The maximum throughput of iron at emissions unit F016 shall not exceed 20,000 tons per year.

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

[Go to the top of Part III for this Emissions Unit](#)

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

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

1. The permittee shall maintain monthly records of the tons of iron processed per month.

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. **Reporting Requirements**

1. The permittee shall submit annual reports that identify any exceedances of the annual production rate limitation, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. **Testing Requirements**

1. Compliance with the iron throughput limitation specified in B.II.1. ensures compliance with the 9.0 TPY particulate emission limit (i.e., the throughput limitation established in PTI 14-1995 is the basis for the

emission limitation).

2. Compliance with the operational limitation in Section B.II. of these terms and conditions shall be demonstrated by the recordkeeping requirements of Section B.III. above.

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1431233202 Emissions Unit ID: F018 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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>
Gray Iron Pouring and Cooling Line with Fabric Filter	OAC rule 3745-31-05 (PTI 14-4107)	See Section A.2.
Gray Iron Pouring and Cooling Line fabric filter discharge	OAC rule 3745-17-07(A)(1)	The opacity restrictions established by this rule are less stringent than that established by Ohio Administrative Code rule 3745-31-05 (BAT).
Gray Iron Pouring and Cooling Line fugitive emissions	OAC rule 3745-17-07(B)(1)	The opacity restriction established by this rule is less stringent than that established by Ohio Administrative Code rule 3745-31-05 (BAT).
Gray Iron Pouring and Cooling fugitive emissions	OAC rule 3745-17-08(B)*	The control measures established by this rule are less stringent than that established by Ohio Administrative Code rule 3745-31-05 (BAT).
Gray Iron Pouring and Cooling Line fabric filter discharge	OAC rule 3745-17-11	* This emissions unit is located in a non-Appendix A area, but is subject to this rule per OAC rule 3745-17-08(A)(2). The particulate emission restriction established by this rule is less stringent than that established by Ohio Administrative Code rule 3745-31-05 (BAT).

2. **Additional Terms and Conditions**

- a. Particulate emissions (PE) and particulate matter emissions less than or equal to 10 microns (PM-10) from the fabric filter serving emissions unit F018 shall not exceed the following:
 - (a) 6.43 lbs PE/hr, 14.28 tons PE/yr,
3.15 lbs PM-10/hr, 7.00 tons PM-10/yr.
 - b. Emissions from emissions unit F018 shall be captured to the extent possible with good engineering design and vented to a fabric filter. The capture and control system shall have an overall efficiency of at least 83% for particulate emissions and for PM-10.
 - c. Opacity from the discharge stack of the control device for emissions unit F018 shall not exceed zero percent as a three-minute average.
 - d. There shall be no visible emissions from the roof vents exhausting emissions unit F018.

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 6 inches of water while the emissions unit is in operation.
2. The total amount of iron poured in emissions unit F018 shall not exceed 40,000 tons per year based on a rolling, twelve-month summation.

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. 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.
2. This facility shall maintain monthly records of the amount of iron poured in emissions unit F018 and the updated rolling, 12-month summation of iron poured.
3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit and 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.

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. Reporting Requirements

1. The permittee shall submit semi-annual pressure drop deviation (excursion) reports that identify 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 Hamilton County Department of Environmental Services by February 15 and August 15 of each year and cover the previous six calendar months.
2. This facility shall submit semi-annual reports to the Hamilton County Department of Environmental Services which contain monthly summaries of the updated rolling, 12-month summation of iron poured and the PM emissions from emissions unit F018. These reports shall be submitted by February 15 and August 15 of each year and cover the previous six calendar months.
3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions from the stack serving this emission unit or any visible fugitive particulate emissions escaping from the building containing this emissions unit were observed and (b) describe any corrective actions taken to eliminate the abnormal visible emissions. These reports shall be submitted to the Hamilton County Department of Environmental Services by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. 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):
 - a. Emission Limitation:

0% opacity

Applicable Compliance Method:

Compliance shall be demonstrated by the method outlined in Method 9 of 40 CFR, Part 60, Appendix A, except that three-minute averages of opacity readings shall be employed in lieu of six-minute averages.
 - b. Emission Limitation:

no visible emissions from roof vents exhausting emissions unit F018

Applicable Compliance Method:

Compliance with the no visible emissions from roof vents limitation shall be demonstrated by the method outlined in Method 22 of 40 CFR, Part 60, Appendix A.

- c. Fabric Filter Emission Limitation:
- 6.43 lbs particulate emissions/hr, 14.28 tons particulate emissions/yr,
3.15 lbs PM-10/hr, 7.00 tons PM-10/yr.
- Applicable Compliance Method:
- The following equations shall be used to determine the particulate emission and PM-10 emission rates from the fabric filter, except as otherwise provided below:
- Lbs particulate emissions/hr = (A) x (C)
Tons particulate emissions/yr = (A) x (D) x 0.0005
- Lbs PM-10/hr = (B) x (C)
Tons PM-10/yr = (B) x (D) x 0.0005
- where:
A = particulate emission factor, from most recent stack test which demonstrated compliance, lbs/ton iron poured;
B = PM-10 emission factor, from most recent stack test which demonstrated compliance, lbs/ton of iron poured;
C = hourly production rate, tons of iron poured; and
D = annual production rate, tons of iron poured.
- If testing is required to demonstrate compliance with the allowable emission limitation of 6.43 lbs PE/hr, then testing shall be conducted using the following method:
- 40 CFR, Part 60, Appendix A, Method 5.
- If testing is required to demonstrate compliance with the allowable emission limitation of 3.15 lbs PM-10/hr, then testing shall be conducted using the following method:
- 40 CFR, Part 60, Appendix A, Method 201.
2. 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 approximately within 3 months after permit issuance and within 6 months prior to permit expiration.
 - The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for PE and PM-10, and the overall control efficiency of 83 percent (assuming 85% capture efficiency for PE and for PM-10).
 - The control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined by simultaneous testing at the inlet and outlet of the control system (assuming 85% capture efficiency).
 - The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulate emissions, Method 5 of 40 CFR, Part 60, Appendix A; for PM-10, Method 201. Alternative U.S. EPA approved test methods may be used with prior approval from the Hamilton County Department of Environmental Services.
 - The testing shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Hamilton County Department of Environmental Services. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Hamilton County Department of Environmental Services. 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 Hamilton County Department of Environmental Services' refusal to accept the results of the emission test(s).
- Personnel from the Hamilton County Department of Environmental Services 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 Hamilton County Department of Environmental Services 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 Hamilton County Department of Environmental Services.
- 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 Hamilton County Department of Environmental Services.
- Personnel from the Hamilton County Department of Environmental Services 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.

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

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

Facility ID: 1431233202 Emissions Unit ID: F018 Issuance type: Title V Draft Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. 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>
Gray Iron Pouring and Cooling Line with Fabric Filter	OAC rule 3745-31-05 (PTI 14-4107)	See term B.I.2.a.

2. **Additional Terms and Conditions**
 - a. Mass emissions from the fabric filter serving emissions unit F018 shall not exceed the following:
 1. 0.18 lb SO2/hr, 0.40 ton SO2/yr,
0.09 lb NOx/hr, 0.20 ton NOx/yr,
3.77 lbs OC/hr, 8.39 ton OC/yr,
0.03 lb ammonia/hr, 0.07 ton ammonia/yr,
0.22 lb hydrogen sulfide/hr, 0.49 ton hydrogen sulfide/yr,
0.01 lb chromium/hr, 0.03 ton chromium/yr,
0.02 lb manganese/hr, 0.03 ton manganese/yr,
0.02 lb nickel/hr, 0.05 ton nickel/yr.

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. Operational Restrictions

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. Monitoring and/or Record Keeping Requirements

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. Reporting Requirements

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section B.I. of these terms and conditions shall be determined in accordance with the following method(s):
 - Emission Limitation:
 - Mass emission limitations in Section B.I. above
 - Applicable Compliance Method:

The following equations shall be used to determine the mass emission rates:

Lbs emissions/hr = (A) x (B)
 Tons emissions/yr = (A) x (C) x 0.0005

where:

A = emission factor, lbs/ton of iron poured, specified as follows:

- SO2 - 0.02
- NOx - 0.01
- OC - 0.4193
- ammonia - 0.0037
- hydrogen sulfide - 0.0243
- chromium - 0.0081
- manganese - 0.0099
- nickel - 0.0135

B = hourly production rate, tons of iron poured
 C = annual production rate, tons of iron poured

If testing is required to demonstrate compliance with the allowable emission limitations, then testing shall be conducted using the following methods:

- SO2 - 40 CFR, Part 60, Appendix A, Method 6
- NOx - 40 CFR, Part 60, Appendix A, Method 7
- OC - 40 CFR, Part 60, Appendix A, Method 25
- ammonia - 40 CFR, Part 60, Appendix A, Method 206
- hydrogen sulfide - 40 CFR, Part 60, Appendix A, Method 15
- chromium, manganese, nickel - 40 CFR, Part 60, Appendix A, Method 29

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

- 1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1431233202 Emissions Unit ID: P001 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **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>
Natural Gas Fired Scrap Pre-Heater	OAC rule 3745-17-07(B)(1)	Visible particulate emissions of fugitive dust shall not exceed twenty percent opacity, as a three-minute average, except as specified by rule.
	OAC rule 3745-17-08(B)*	Reasonably available control measures to minimize or eliminate visible particulate emissions of fugitive dust. (No control measures have been identified as being reasonably available for this emissions unit.)

* This emissions unit is located in a non-Appendix A area, but is subject to this rule per OAC rule 3745-17-08(A)(2).

2. **Additional Terms and Conditions**

- (a) None

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. Operational Restrictions

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily 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.

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. 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 visible fugitive particulate emissions. These reports shall be submitted to the Hamilton County Department of Environmental Services by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. 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):

Emission Limitation:

20% opacity

Applicable Compliance Method:

Compliance with OAC rule 3745-17-07(B)(1) shall be determined by the method outlined in OAC rule 3745-17-03(B)(3).
2. Compliance with OAC rule 3745-17-08(B) shall be determined by the method outlined in OAC rule 3745-17-08 (C).

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. Miscellaneous Requirements

1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

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

Facility ID: 1431233202 Emissions Unit ID: P001 Issuance type: Title V Draft Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. 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>
---	--------------------------------------	--

Scrap Pre-Heater

2. **Additional Terms and Conditions**

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. **Operational Restrictions**

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

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

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. **Reporting Requirements**

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. **Testing Requirements**

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1431233202 Emissions Unit ID: P002 Issuance type: Title V Draft Permit

A. **State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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>
---	--------------------------------------	--

Casting Shakeout with Fabric Filter

OAC rule 3745-17-07(A)(1)

Visible particulate emissions from any stack shall not exceed twenty percent opacity, as a six-minute

OAC rule 3745-17-11

average, except as specified by rule.

Particulate emissions shall not exceed 6.96 lbs/hr (based on Figure II of OAC rule 3745-17-11).

2. Additional Terms and Conditions

- (a) None

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 4.0 to 6.0 inches of water while the emissions unit is in operation.
2. All particulate emissions from this emissions unit shall be captured and vented to the fabric filter.

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. 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.

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. 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):
 - a. Emission Limitation:

20% opacity

Applicable Compliance Method:

Compliance with OAC rule 3745-17-07(A)(1) shall be determined by the method outlined in OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:

6.96 lbs particulate emissions/hr

Applicable Compliance Method:

The particulate emission rate (PE) shall be determined by using the following equation except as otherwise provided below:

$$\text{Lbs PE/hr} = (A) \times (B) \times (100 - C)/100$$

where:

A = particulate emission factor of 3.2 pounds per ton of iron castings throughput, from USEPA reference document AP-42, Fifth Edition, Section 12.10;

B = hourly production rate, tons of iron; and

C = percent control efficiency of fabric filter (use 99%, except if actual efficiency is available from stack test data)

If testing is required to demonstrate compliance with the allowable emission limitation from OAC rule 3745-17-11, then inlet/outlet testing of the fabric filter shall be conducted using the following method:

40 CFR, Part 60, Appendix A, Method 5.

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. Miscellaneous Requirements

1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

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

Facility ID: 1431233202 Emissions Unit ID: P002 Issuance type: Title V Draft Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. 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>
Casting Shakeout with Fabric Filter		
2. Additional Terms and Conditions		
1. None		

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. Operational Restrictions

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. Monitoring and/or Record Keeping Requirements

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. Reporting Requirements

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. Testing Requirements

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. Miscellaneous Requirements

- 1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1431233202 Emissions Unit ID: P005 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. 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>
Stand Grinders with Cartridge Filter	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed twenty percent opacity, as a six-minute average, except as specified by rule. 3.38 lbs particulate emissions/hr (based on Figure II of OAC rule 3745-17-11)
	OAC rule 3745-17-11	

2. Additional Terms and Conditions

- (a) None

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range of 1.0 to 3.0 inches of water while the emissions unit is in operation.
- 2. All particulate emissions from this emissions unit shall be captured and vented to the fabric filter.

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. 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.

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. 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):
 - a. Emission Limitation:
 - 20% opacity
 - Applicable Compliance Method:
 - Compliance with OAC rule 3745-17-07(A)(1) shall be determined by the method outlined in OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:
 - 3.38 lbs particulate emissions/hr
 - Applicable Compliance Method:
 - The particulate emission rate (PE) shall be determined by using the following equation except as otherwise provided below:

$$\text{Lbs PE/hr} = (A) \times (B) \times (100 - C)/100$$

where:

A = particulate emission factor of 17 lbs/ton of iron castings throughput, from USEPA reference document AP-42, Fifth Edition, Section 12.10;

B = hourly production rate, tons of iron produced; and

C = percent control efficiency of fabric filter (use 99%, except if actual efficiency is available from stack test data)

If testing is required to demonstrate compliance with the allowable emission limitation from OAC rule 3745-17-11, then inlet/outlet testing of the fabric filter shall be conducted using the following method:

Method 5 of 40 CFR, Part 60, Appendix A

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

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

Facility ID: 1431233202 Emissions Unit ID: P005 Issuance type: Title V Draft Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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>
Stand Grinders with Cartridge Filter		

2. **Additional Terms and Conditions**

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. **Operational Restrictions**

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

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

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. **Reporting Requirements**

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. **Testing Requirements**

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1431233202 Emissions Unit ID: P007 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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>
Shotblaster with Fabric Filter	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed twenty percent opacity, as a six-minute average, except as specified by rule. 14.4 lbs particulate emissions/hr (based on Table I of OAC rule 3745-17-11)
	OAC rule 3745-17-11	

2. **Additional Terms and Conditions**

- (a) None

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. **Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range of 4.0 to 6.0 inches of water while the emissions unit is in operation.
2. All particulate emissions from this emissions unit shall be captured and vented to the fabric filter.

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. **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 daily basis.

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. **Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. **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):
 - a. Emission Limitation:

20% opacity

Applicable Compliance Method:

Compliance with OAC rule 3745-17-07(A)(1) shall be determined by the method outlined in OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:

14.4 lbs particulate emissions/hr

Applicable Compliance Method:

The particulate emission rate (PE) shall be determined by using the following equation except as otherwise provided below:

$$\text{Lbs PE/hr} = (A) \times (B) \times (100 - C)/100$$

where:

A = particulate emission factor, 17 lbs/ton of iron castings throughput, from USEPA reference document AP-42, Fifth Edition, Section 12.10;

B = hourly production rate, tons of iron produced; and

C = 99.9 percent control efficiency of fabric filter (based on stack test performed on September 18, 1991).

If testing is required to demonstrate compliance with the allowable emission limitation from OAC rule 3745-17-11, then inlet/outlet testing of the fabric filter shall be conducted using the following method:

40 CFR, Part 60, Appendix A, Method 5.

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

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

Facility ID: 1431233202 Emissions Unit ID: P007 Issuance type: Title V Draft Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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>
Shotblaster with Fabric Filter	OAC rule 3745-31-05 (PTI 14-1995)	0.60 lb particulate emission/hr, 10% opacity, as a six-minute average, at fabric filter outlet

2. **Additional Terms and Conditions**

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. **Operational Restrictions**

1. The outlet vent of the fabric filter baghouse shall be equipped with a device which will alert operators of bag failure or breakthrough.

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

[Go to the top of Part III for this Emissions Unit](#)

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

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

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. **Reporting Requirements**

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. **Testing Requirements**

1. Compliance with the emission limitation(s) in Section B.I. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
10% opacity

Applicable Compliance Method:

Compliance shall be determined by the method outlined in Method 5 of 40 CFR, Part 60, Appendix A.
 - b. Emission Limitation:

0.60 lb particulate emissions/hr

Applicable Compliance Method:

The particulate emission rate (PE) shall be determined by using the following equation except as otherwise provided below:

$$\text{Lbs PE/hr} = (A) \times (B) \times (100 - C)/100$$

where:
A = particulate emission factor, 17 lbs/ton of iron produced, from USEPA reference document AP-42, Fifth Edition, Section 12.10;
B = hourly production rate, tons of iron produced; and
C = 99.9 percent control efficiency of fabric filter (based on stack test performed on September 18, 1991).

If testing is required to demonstrate compliance with the allowable emission limitation from OAC rule 3745-17-11, then inlet/outlet testing of the fabric filter shall be conducted using the following method:

40 CFR, Part 60, Appendix A, Method 5.

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1431233202 Emissions Unit ID: P008 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. 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>
Pangborn Shotblaster with Cartridge Filter	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed twenty percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-11	14.0 lbs particulate emissions/hr (based on Table I of OAC rule 3745-17-11)

2. Additional Terms and Conditions

- (a) None

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range of 4.0 to 6.0 inches of water while the emissions unit is in operation.
- 2. All particulate emissions from this emissions unit shall be captured and vented to the fabric filter.

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. 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 daily basis.

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. 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):

a. Emission Limitation:

20% opacity

Applicable Compliance Method:

Compliance with OAC rule 3745-17-07(A)(1) shall be determined by the method outlined in OAC rule 3745-17-03(B)(1).

b. Emission Limitation:

14.0 lbs particulate emissions/hr

Applicable Compliance Method:

The particulate emission rate (PE) shall be determined by using the following equation except as otherwise provided below:

$$\text{Lbs PE/hr} = (A) \times (B) \times (100 - C)/100$$

where:

A = particulate emission factor of 17 lbs/ton of iron castings throughput, from USEPA reference

document AP-42, Fifth Edition, Section 12.10;
 B = hourly production rate, tons of iron; and
 C = percent control efficiency of fabric filter (use 99%, except if actual efficiency is available from stack test data).

If testing is required to demonstrate compliance with the allowable emission limitation from OAC rule 3745-17-11, then inlet/outlet testing of the fabric filter shall be conducted using the following method:

40 CFR, Part 60, Appendix A, Method 5.

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

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

Facility ID: 1431233202 Emissions Unit ID: P008 Issuance type: Title V Draft Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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>
Pangborn Shotblaster with Cartridge Filter	OAC rule 3745-31-05 (PTI 14-2754)	0.21 lb particulate emission (PE)/hr 0.11 lb particulate matter less than or equal to 10 microns (PM-10)/hr 20% opacity at control device outlet

2. **Additional Terms and Conditions**

- a. Emissions unit P008 shall be vented to a control device having a 99.8% control efficiency for particulate emissions at all times during operation.

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. **Operational Restrictions**

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

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

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. **Reporting Requirements**

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. **Testing Requirements**

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

20% opacity

Applicable Compliance Method:

Method 9 of 40 CFR, Part 60, Appendix A
 - b. Emission Limitation:

0.21 lb particulate emissions/hr, 0.11 lb particulate matter less than or equal to 10 microns/hr

Applicable Compliance Method:

The particulate emission rate (PE) and the particulate matter less than or equal to 10 microns (PM-10) shall be determined by using the following equations except as provided below:

Lbs PE/hr = (A) x (B) x (100 - C)/100
 Lbs PM-10/hr = (A) x (B) x (100 - C)/100

where:

A = particulate emission factor of 17 lbs/ton of iron castings throughput, from USEPA reference document AP-42, Fifth Edition, Section 12.10;
 B = hourly production rate, tons of iron; and
 C = percent control efficiency of fabric filter (use 99.8%, except if actual efficiency is available from stack test data)

If testing is required to demonstrate compliance with the allowable emission limitation of 0.21 lb PE/hr and/or 0.11 lb PM-10/hr, then inlet/outlet testing of the fabric filter shall be conducted using the following methods:

for PE : 40 CFR, Part 60, Appendix A, Method 5;
 for PM-10 : 40 CFR, Part 60, Appendix A, Method 201.

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1431233202 Emissions Unit ID: P009 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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>
Pangborn Spinner Shotblast with Fabric Filter	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed twenty percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-11	11.4 lbs particulate emissions/hr (based on Table I of OAC rule 3745-17-11)

2. **Additional Terms and Conditions**

- (a) None

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. **Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range of 4.0 to 6.0 inches of water while the emissions unit is in operation.
2. All particulate emissions from this emissions unit shall be captured and vented to the fabric filter.

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. **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 daily basis.

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. **Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. **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):

a. Emission Limitation:

20% opacity

Applicable Compliance Method:

Compliance with OAC rule 3745-17-07(A)(1) shall be determined by the method outlined in OAC rule 3745-17-03(B)(1).

b. Emission Limitation:

11.4 lbs particulate emissions/hr

Applicable Compliance Method:

The particulate emission rate (PE) shall be determined by using the following equation except as otherwise provided below:

Lbs PE/hr = (A) x (B) x (100 - C)/100

where:

A = particulate emission factor of 17 lbs/ton of iron castings throughput, from USEPA reference document AP-42, Fifth Edition, Section 12.10;

B = hourly production rate, tons of iron; and

C = percent control efficiency of fabric filter (use 99.8% except if actual efficiency is available from stack test data)

If testing is required to demonstrate compliance with the allowable emission limitation from OAC rule 3745-17-11, then inlet/outlet testing of the fabric filter shall be conducted using the following method:

40 CFR, Part 60, Appendix A, Method 5.

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

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

Facility ID: 1431233202 Emissions Unit ID: P009 Issuance type: Title V Draft Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. 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>
---	--------------------------------------	--

Pangborn Spinner Shotblast with Fabric Filter		
---	--	--

- 2. **Additional Terms and Conditions**

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. Operational Restrictions

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. Monitoring and/or Record Keeping Requirements

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. Reporting Requirements

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. Testing Requirements

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. Miscellaneous Requirements

- 1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1431233202 Emissions Unit ID: P011 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. 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>
Shotblaster with Cartridge Dust Collector	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed twenty percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-11	10.9 lbs particulate emissions/hr (based on Table I of OAC rule 3745-17-11)

2. Additional Terms and Conditions

- (a) None

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 4.0 to 6.0 inches of water while the emissions unit is in operation.
2. All particulate emissions from this emissions unit shall be captured and vented to the fabric filter.

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. 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.

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. 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):
 - a. Emission Limitation:

20% opacity

Applicable Compliance Method:

Compliance with OAC rule 3745-17-07(A)(1) shall be determined by the method outlined in OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:

10.9 lbs particulate emissions/hr

Applicable Compliance Method:

The particulate emission rate (PE) shall be determined by using the following equation except as otherwise provided below:

$$\text{Lbs PE/hr} = (A) \times (B) \times (100 - C)/100$$

where:

A = particulate emission factor of 17 lbs/ton of iron castings throughput, from USEPA reference document AP-42, Fifth Edition, Section 12.10;
 B = hourly production rate, tons of iron; and
 C = percent control efficiency of fabric filter (use 99.8%, except if actual efficiency is available from stack test data)

If testing is required to demonstrate compliance with the allowable emission limitation from OAC rule 3745-17-11, then inlet/outlet testing of the fabric filter shall be conducted using the following method:

40 CFR, Part 60, Appendix A, Method 5.

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

- 1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

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

Facility ID: 1431233202 Emissions Unit ID: P011 Issuance type: Title V Draft Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **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>
Shotblaster with Cartridge Dust Collector	OAC rule 3745-31-05 (PTI 14-3822)	0.15 lb particulate emission/hr, 0.64 ton particulate emission/yr

2. **Additional Terms and Conditions**

- a. Emissions shall be vented to a cartridge dust collector with a control efficiency of at least 99.8% for particulate emissions.

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. **Operational Restrictions**

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

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

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. **Reporting Requirements**

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. **Testing Requirements**

1. Emission Limitation:

0.15 lb particulate emission/hr, 0.64 ton particulate emission/yr.

Applicable Compliance Method:

The particulate emission rate (PE) shall be determined by using the following equations except as otherwise provided below:

Lbs PE/hr = (A) x (B) x (C)
 Tons PE/yr = (A) x ((100-C)/100) x (D) x 0.0005

where:

A = particulate emission factor of 17 lbs/ton of iron castings throughput, from USEPA reference document AP-42, Fifth Edition, Section 12.10;

B = hourly production rate, tons of iron;

C = percent control efficiency of fabric filter (use 99.8%, except if actual efficiency is available from stack test data); and

D = annual production rate, tons of iron.

If testing is required to demonstrate compliance with the allowable emissions limitations of 0.15 lb PE/hr and 0.64 ton PE/yr, then testing shall be conducted using the following method, and the resulting emissions rate shall be multiplied by the hours of operation per year to obtain the annual emissions rate:

40 CFR, Part 60, Appendix A, Method 5.

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1431233202 Emissions Unit ID: P901 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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>
Pneumatic sand unloading, handling, and muller with fabric filter	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed twenty percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-11	Particulate emissions from stacks shall not exceed 14.3 pounds per hour. (Based on Table I of OAC rule 3745-17-11.)

2. **Additional Terms and Conditions**

- (a) None

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. **Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range of 4.0 to 6.0 inches of water while the emissions unit is in operation.

2. All particulate emissions from this emissions unit shall be captured and vented to the fabric filter.

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. **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.

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. **Reporting Requirements**

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. **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):
 - a. Emission Limitation:

20% opacity

Applicable Compliance Method:

Compliance with OAC rule 3745-17-07(A)(1) shall be determined by the methods outlined in OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:

14.3 lbs particulate emissions/hr

Applicable Compliance Method:

The particulate emission rate (PE) shall be determined by using the following equation except as provided below:

$$\text{Lbs PM/hr} = (A) \times (B) \times (100 - C)/100$$

where:

A = particulate emission factor of 3.6 lbs/ton of sand transferred, from USEPA reference document AP-42, Fifth Edition, Section 12.10;

B = hourly sand transfer rate, tons; and

C = percent control efficiency of fabric filter (use 99%, except if actual efficiency is available from stack test data)

If testing is required to demonstrate compliance with the allowable emission limitation from OAC rule 3745-17-11, then inlet/outlet testing of the fabric filter shall be conducted using the following method:

40 CFR, Part 60, Appendix A, Method 5.

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

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

Facility ID: 1431233202 Emissions Unit ID: P901 Issuance type: Title V Draft Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. 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>
Sand Unloading and Handling with Fabric Filter		

2. Additional Terms and Conditions

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. Operational Restrictions

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. Monitoring and/or Record Keeping Requirements

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. Reporting Requirements

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. Testing Requirements

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. Miscellaneous Requirements

- 1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1431233202 Emissions Unit ID: P904 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. 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.

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>
Disa-Forma Mold Making Machine	OAC rule 3745-17-07(B)(1)	Visible particulate emissions of fugitive dust shall not exceed twenty percent opacity, as a three-minute average, except as specified by rule.
	OAC rule 3745-17-08(B)*	Reasonably available control measures to minimize or eliminate visible particulate emissions of fugitive dust. (No control measures have been identified as being reasonably available for this emissions unit.)
		* This emissions unit is located in a non-Appendix A area, but is subject to this rule per OAC rule 3745-17-08(A)(2).

2. **Additional Terms and Conditions**

- (a) None

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. **Operational Restrictions**

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

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

- a. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions escaping the building containing this emissions unit. The presence or absence of any abnormal 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:
 - 1.
 - 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.

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. **Reporting Requirements**

- 1. The permittee shall submit semiannual written reports which (a) identify all days during which any 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 Hamilton County Department of Environmental Services by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. **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):
 - Emission Limitation:
 - 20% opacity
 - Applicable Compliance Method:
 - Compliance with OAC rule 3745-17-07(B)(1) shall be determined by the methods outlined in OAC rule 3745-17-03(B)(3).

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

- 1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

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

Facility ID: 1431233202 Emissions Unit ID: P904 Issuance type: Title V Draft Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. 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>
Disa-Forma Mold Making Machine	OAC rule 3745-31-05 (PTI 14-1320)	0.03 lb particulate emissions/hr, 0.13 ton particulate emissions/yr*

*The lb/hour and TPY emission limitations for particulate matter are based on the emissions units potential to emit. Therefore, no record keeping, reporting, and/or compliance measures are necessary.

2. Additional Terms and Conditions

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. Operational Restrictions

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. Monitoring and/or Record Keeping Requirements

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. Reporting Requirements

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. Testing Requirements

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. Miscellaneous Requirements

- 1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1431233202 Emissions Unit ID: P906 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. 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>
Gray iron pouring and cooling line with fabric filter	OAC rule 3745-31-05 (PTI 14-4434)	4.70 lbs PM/hr 2.31 lbs particulate matter less than or equal to 10 microns (PM-10)/hr Also, see A.I.2.
Gray iron pouring and cooling line stack emissions	OAC rule 3745-17-07(A)(1)	The opacity limitations established by this rule are less stringent than that established by Ohio Administrative Code rule 3745-31-05 (BAT).
Gray iron pouring and cooling line fugitive emissions	OAC rule 3745-17-07(B)(1)	The opacity limitation established by this rule is less stringent than that established by Ohio Administrative Code rule 3745-31-05 (BAT).
Gray iron pouring and cooling line fugitive emissions	OAC rule 3745-17-08(B)*	The emission limitations/control requirements established by this rule are less stringent than those established by Ohio Administrative Code rule 3745-31-05 (BAT). * This emissions unit is located in a non-Appendix A area, but is subject to this rule per OAC rule 3745-17-08(A)(2).
Gray iron pouring and cooling line stack emissions	OAC rule 3745-17-11	The emission limitation established by this rule is less stringent than that established by Ohio Administrative Code rule 3745-31-05 (BAT).

2. Additional Terms and Conditions

- a. There shall be no visible particulate emissions from the exhaust gases exiting the stack associated with the control device for this emission unit.
- b. There shall be no visible particulate emissions from the roof vents exhausting fugitive particulate emissions from this emissions unit.
- c. The following emissions limitations shall not be exceeded:
 - i. 16.26 TPY of PM, based on a rolling, twelve-month summation; and
 - ii. 7.97 TPY of PM-10, based on a rolling, twelve-month summation.

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. Operational Restrictions

1. Particulate emissions shall be collected and vented to a fabric filter. The permittee shall operate and maintain the fabric filter in accordance with the procedures specified by the manufacturer.
2. The pressure drop across the fabric filter baghouse shall be maintained within the range of 2 to 6 inches of water while emissions unit P906 is in operation.
3. The production of iron shall not exceed 36,864 tons per year, based on a rolling, twelve-month summation.

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. 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.

2. The permittee shall collect and record the following information on a monthly basis:
 - a. the amount of iron poured and cooled, in tons; and
 - b. the rolling, twelve-month summation of iron poured and cooled, in tons (the summation of the current month's production and the previous 11-months production).
3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit and 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.

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. Reporting Requirements

1. The permittee shall submit semi-annual pressure drop deviation (excursion) reports to the Hamilton County Department of Environmental Services that identify 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 by February 15 and August 15 of each year and shall cover the previous six calendar months.
2. The permittee shall submit an annual report which summarizes the information in A.III.2. This report shall be submitted by January 31 of each year and cover the previous years operation.
3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions from the stack serving this emission unit or any visible fugitive particulate emissions escaping from the building containing this emissions unit were observed and (b) describe any corrective actions taken to eliminate the abnormal visible emissions. These reports shall be submitted to the Hamilton County Department of Environmental Services by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. 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):
 - a. Emission Limitations:

4.70 lbs particulate emissions (PE)/hr, 16.26 tons PE/yr,
2.31 lbs particulate matter less than or equal to 10 microns (PM-10)/hr, 7.97 tons PM-10/yr

Applicable Compliance Method:

The particulate emission rate (PE) and particulate matter emissions less than or equal to 10 microns (PM-10) shall be determined by using the following equations except as otherwise provided below:

$$\text{lbs PE/hr} = (A) \times (B) \times (100 - D)/100$$

$$\text{lbs PM-10/hr} = (A) \times (B) \times (49\%)* \times (100 - D)/100$$

$$\text{tons PE/yr} = (A) \times (C) \times (100 - D)/100 \times 0.0005$$

$$\text{tons PM-10/yr} = (A) \times (C) \times (49\%)* \times (100 - D)/100 \times 0.0005$$

*The percentage of PM-10 emissions.

where:

A = particulate emission factor of 4.2 lbs/ton iron poured and cooled, from USEPA reference document AP-42, Fifth Edition, Section 12.10;
B = hourly production rate, tons iron;
C = annual production rate, tons iron; and
D = percent fabric filter control efficiency (use 99%, except if the actual control efficiency is available from stack test data).

If testing is required to demonstrate compliance with the above allowable emission limitations, then outlet testing of the fabric filter shall be conducted using the following methods, and the tested hourly emission rates shall be multiplied by the hours of operation to obtain the annual emission rates:

for PE: 40 CFR, Part 60, Appendix A, Method 5;
for PM-10: 40 CFR, Part 60, Appendix A, Method 201.
 - b. Emission Limitation:

zero percent opacity from stack outlet

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

- c. Emission Limitation:
no visible particulate emissions from roof vents

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

- 2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 1 year after issuance of the permit and within 6 months prior to permit expiration.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable particulate emission rate for the fabric filter outlet.
 - c. The following test method shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Method 5 of 40 CFR, Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - c. 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 Hamilton County Department of Environmental Services.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Hamilton County Department of Environmental Services. 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 Hamilton County Department of Environmental Services refusal to accept the results of the emission test(s).

Personnel from the Hamilton County Department of Environmental Services 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 Hamilton County Department of Environmental Services within 30 days following completion of the test(s).

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

- 1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

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

Facility ID: 1431233202 Emissions Unit ID: P906 Issuance type: Title V Draft Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **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>
Gray Iron Pouring and Cooling Line with Fabric Filter	OAC rule 3745-31-05 (PTI 14-4434)	See term B.I.2.

2. **Additional Terms and Conditions**

a. Mass emissions from the fabric filter discharge from emissions unit P906 shall not exceed the amounts listed below*:

1.
 - a. 0.90 lb/hr, 3.10 tons/yr fugitive PM,
 - b. 0.44 lb/hr, 1.52 tons/yr fugitive PM-10,
 - c. 0.11 lb/hr, 0.37 ton/yr SO₂,
 - d. 0.05 lb/hr, 0.18 ton/yr NO_x,
 - e. 0.75 lb/hr, 2.58 tons/yr VOC,
 - f. 0.000025 lb/hr, 0.000085 ton/yr lead,
 - g. 0.13 lb/hr, 0.01 ton/yr hydrogen sulfide,
 - h. 0.00015 lb/hr, 0.00050 ton/yr chromium,
 - i. 0.000025 lb/hr, 0.000085 ton/yr mercury,
 - j. 0.00015 lb/hr, 0.00050 ton/yr manganese, and
 - k. 0.000056 lb/hr, 0.00019 ton/yr nickel.

* The lb/hr and TPY emission limits are equal to the potential to emit. Therefore, no daily recordkeeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with these limits.

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. **Operational Restrictions**

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

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

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. **Reporting Requirements**

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. **Testing Requirements**

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1431233202 Emissions Unit ID: P907 Issuance type: Title V Draft Permit

A. **State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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>
Core Making Machine with Wet Scrubber	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed twenty percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-07(B)(1)	
	OAC rule 3745-17-08(B)*	Visible particulate emissions of fugitive dust shall not exceed twenty percent opacity, as a three-minute average, except as specified by rule.
		Minimize or eliminate visible fugitive particulate emissions escaping the capture hooding by maintaining sufficient collection efficiency for the control equipment.
		* This emissions unit is located in a non-Appendix A area, but is subject to this rule per OAC rule 3745-17-08(A)(2).
	OAC rule 3745-17-11	Particulate emissions shall not exceed 8.56 lbs/hr (based on Table I of OAC rule 3745-17-11).
	OAC rule 3745-21-07(G)(2)	8 lbs OC/hr, 40 lbs OC/day, unless reduced by at least 85 percent, on any day when photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), are employed.*
		* The emission unit's potential to emit is less than the lb/hr and lb/day emission limits. Therefore, no daily recordkeeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with these limits.

2. **Additional Terms and Conditions**

- (a) None

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. **Operational Restrictions**

1. Emissions shall be captured to the extent possible using good engineering design and vented to a drop out box and wet scrubber at all times when emissions unit P907 is in operation.
2. The pressure drop across the scrubber shall be continuously maintained between 1 and 5 inches of water at all times while the emissions unit is in operation.
3. The pH of the scrubber liquor shall be maintained at or below a value of 4.0.

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

[Go to the top of Part III for this Emissions Unit](#)

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

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

1. The permittee shall properly install, operate and maintain equipment to continuously monitor the static pressure drop across the scrubber and the pH of the scrubber liquor while the emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:
 - a. the pressure drop across the scrubber, in inches of water, on a once per shift basis.
 - b. the scrubber liquor pH, on a once per shift basis; and
 - c. the operating times for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.
2. The permittee shall keep the following records each day this emissions unit operates while using any photochemically reactive material:
 - a. the company identification of each liquid organic materials used;
 - b. the amounts (pounds) of each liquid organic material and sand mixed;
 - c. the number of hours of operation;
 - d. an estimate of the daily organic compound emission rate (pounds), using an emission factor of .65 pound OC per ton of sand employed and the OC control efficiency of the scrubber of 96% (.65 x total tons sand mixed x (1-.96)); and
 - e. the average hourly organic compound emission rate (pounds) (d/c).

3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit and 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.

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the following scrubber parameters were not maintained at or above the required levels:
 - a. the static pressure drop across the scrubber; and
 - b. the pH of the scrubber liquor.
2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions from the stack serving this emission unit or any visible fugitive particulate emissions escaping from the building containing this emissions unit were observed and (b) describe any corrective actions taken to eliminate the abnormal visible emissions. These reports shall be submitted to the Hamilton County Department of Environmental Services by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. 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):
 - a. Emission Limitation:

20% opacity for stack emissions

Applicable Compliance Method:

Compliance with OAC rule 3745-17-07(A)(1) shall be determined by the method outlined in OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:

20% opacity for fugitive emissions

Applicable Compliance Method:

Compliance with OAC rule 3745-17-07(A)(1) shall be determined by the method outlined in OAC rule 3745-17-03(B)(3).
 - c. Emission Limitation:

8.56 lbs particulate emissions/hr

Applicable Compliance Method:

The following equation shall be used to determine the particulate emissions (PE) rate except as otherwise provided below:

$$\text{Lbs PE/hr} = (A) \times (B) \times (100 - C)/100$$

where:
 A = emission factor of 0.35 lbs/ton of cores produced, from Ohio EPA reference document RACM, Section 2.7;
 B = hourly production rate, tons of cores produced; and
 C = overall percent control efficiency of scrubber (use 97%, except if actual efficiency is available from stack test data).

If testing is required to demonstrate compliance with the allowable emission limitation from OAC rule 3745-17-11, then inlet/outlet testing of the fabric filter shall be conducted using the following method:

40 CFR, Part 60, Appendix A, Method 5.
 - d. Emission Limitation:

8 lbs OC/hr and/or 40 lbs OC/day

Applicable Compliance Method:

Compliance with the OC emissions limitations shall be determined by method specified in A.III.2.

If testing is required to demonstrate compliance with the allowable emission limitations from OAC rule 3745-21-07(G)(2), then outlet testing of the scrubber shall be conducted using the following method, and the tested hourly emission rate shall be multiplied by the hours of operation per year to obtain the annual emission rate.

40 CFR, Part 60, Appendix A, Method 25.

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

- 1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

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

Facility ID: 1431233202 Emissions Unit ID: P907 Issuance type: Title V Draft Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **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>
Core Making Machine with Wet Scrubber	OAC rule 3745-31-05 (PTI 14-4529)	See Term A.2.

2. **Additional Terms and Conditions**

- a. Particulate emissions (PE), particulate matter emissions less than or equal to 10 microns (PM-10), and organic compound (OC) emissions from emissions unit P907 shall not exceed the amounts listed below:

- 1. 0.03 lb PE/hr, 0.14 ton PE/yr,
0.03 lb PM-10/hr, 0.14 ton PM-10/yr,
0.12 lb OC/hr, 0.51 ton OC/yr.

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. **Operational Restrictions**

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

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

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. **Reporting Requirements**

- 1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. **Testing Requirements**

1. Compliance with the particulate and OC emissions limitations specified in B.I.2. shall be determined by the information collected and recorded in A.III.2 and the compliance methods specified in A.V.1.c (for particulate) and A.V.1.d (for OC).

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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

Facility ID: 1431233202 Emissions Unit ID: P908 Issuance type: Title V Draft Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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>
Core Making Machine with Wet Scrubber	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed twenty percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-07(B)(1)	Visible particulate emissions of fugitive dust shall not exceed twenty percent opacity, as a three-minute average, except as specified by rule.
	OAC rule 3745-17-08(B)*	Minimize or eliminate visible fugitive particulate emissions escaping the capture hooding by maintaining sufficient collection efficiency for the control equipment.
	OAC rule 3745-17-11	Particulate emissions shall not exceed 8.56 lbs/hr (based on Table I of OAC rule 3745-17-11).
	OAC rule 3745-21-07(G)	8 lbs OC/hr, 40 lbs OC/day, unless reduced by at least 85 percent, on any day when photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), are employed.*

* This emissions unit is located in a non-Appendix A area, but is subject to this rule per OAC rule 3745-17-08(A)(2).

* The emission unit's potential to emit is less than the lb/hr and lb/day emission limits. Therefore, no daily recordkeeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with these limits.

2. **Additional Terms and Conditions**

- (a) None

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

[Go to the top of Part III for this Emissions Unit](#)

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

II. Operational Restrictions

1. Emissions shall be captured to the extent possible using good engineering design and vented to a drop out box and wet scrubber at all times when emissions unit P907 is in operation.
2. The pressure drop across the scrubber shall be continuously maintained between 1 and 5 inches of water at all times while the emissions unit is in operation.
3. The pH of the scrubber liquor shall be maintained at or below a value of 4.0.

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

[Go to the top of Part III for this Emissions Unit](#)

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

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly install, operate and maintain equipment to continuously monitor the static pressure drop across the scrubber and the pH of the scrubber liquor while the emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:
 - a. the pressure drop across the scrubber, in inches of water, on a once per shift basis.
 - b. the scrubber liquor pH, on a once per shift basis; and
 - c. the operating times for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.
2. The permittee shall keep the following records each day this emissions unit operates while using any photochemically reactive material:
 - a. the company identification of each liquid organic materials used;
 - b. the amounts (pounds) of each liquid organic material and sand mixed;
 - c. the number of hours of operation;
 - d. an estimate of the daily organic compound emission rate (pounds), using an emission factor of .65 pound OC per ton of sand employed and the OC control efficiency of the scrubber of 96% (.65 x total tons sand mixed x (1-.96)); and
 - e. the average hourly organic compound emission rate (pounds) (d/c).
3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit and 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.

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

[Go to the top of Part III for this Emissions Unit](#)

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

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the following scrubber parameters were not maintained at or above the required levels:
 - a. the static pressure drop across the scrubber; and
 - b. the pH of the scrubber liquor.
2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions from the stack serving this emission unit or any visible fugitive particulate emissions escaping from the building containing this emissions unit were observed and (b) describe any corrective actions taken to eliminate the abnormal visible emissions. These reports shall be submitted to the Hamilton County Department of Environmental Services by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

[Go to the top of Part III for this Emissions Unit](#)

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

V. 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):
 - a. Emission Limitation:

20% opacity for stack emissions

Applicable Compliance Method:

Compliance with OAC rule 3745-17-07(A)(1) shall be determined by the method outlined in OAC rule 3745-17-03(B)(1).

b. Emission Limitation:

20% opacity for fugitive emissions

Applicable Compliance Method:

Compliance with OAC rule 3745-17-07(A)(1) shall be determined by the method outlined in OAC rule 3745-17-03(B)(3).

c. Emission Limitation:

8.56 lbs particulate emissions/hr

Applicable Compliance Method:

The following equation shall be used to determine the particulate emissions (PE) rate except as otherwise provided below:

$$\text{Lbs PE/hr} = (A) \times (B) \times (100 - C)/100$$

where:

A = emission factor of 0.35 lbs/ton of cores produced, from Ohio EPA reference document RACM, Section 2.7;

B = hourly production rate, tons of cores produced; and

C = overall percent control efficiency of scrubber (use 97%, except if actual efficiency is available from stack test data).

If testing is required to demonstrate compliance with the allowable emission limitation from OAC rule 3745-17-11, then inlet/outlet testing of the fabric filter shall be conducted using the following method:

40 CFR, Part 60, Appendix A, Method 5.

d. Emission Limitations:

8 lbs OC/hr and/or 40 lbs OC/day

Applicable Compliance Method:

Compliance with the OC emissions limitations shall be determined by method specified in A.III.2.

If testing is required to demonstrate compliance with the allowable emission limitations from OAC rule 3745-21-07(G)(2), then outlet testing of the scrubber shall be conducted using the following method, and the tested hourly emission rate shall be multiplied by the hours of operation per year to obtain the annual emission rate

:

40 CFR, Part 60, Appendix A, Method 25.

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

[Go to the top of Part III for this Emissions Unit](#)

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

VI. **Miscellaneous Requirements**

1. None

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

Facility ID: 1431233202 Issuance type: Title V Draft Permit

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

Facility ID: 1431233202 Emissions Unit ID: P908 Issuance type: Title V Draft Permit

B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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>
Core Making Machine with Wet Scrubber	OAC rule 3745-31-05 (PTI 14-4529)	See Term A.2.

2. **Additional Terms and Conditions**

- a. Particulate emissions (PE), particulate matter emissions less than or equal to 10 microns (PM-10), and organic compound (OC) emissions from emissions unit P907 shall not exceed the amounts listed below:

1. 0.03 lb PE/hr, 0.14 ton PE/yr,
0.03 lb PM-10/hr, 0.14 ton PM-10/yr,
0.12 lb OC/hr, 0.51 ton OC/yr.

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

[Go to the top of Part III for this Emissions Unit](#)

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

- II. **Operational Restrictions**

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

- III. **Monitoring and/or Record Keeping Requirements**

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

- IV. **Reporting Requirements**

1. None

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

[Go to the top of Part III for this Emissions Unit](#)

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

- V. **Testing Requirements**

1. Compliance with the particulate and OC emissions limitations specified in B.I.2. shall be determined by the information collected and recorded in A.III.2 and the compliance methods specified in A.V.1.c (for particulate) and A.V.1.d (for OC).

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

[Go to the top of Part III for this Emissions Unit](#)

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

- VI. **Miscellaneous Requirements**

1. None