

Facility ID: 0250110316 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.

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Part II - Specific Facility Terms and Conditions

a State and Federally Enforceable Section

1. None

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b State Only Enforceable Section

1. The following insignificant emissions units are located at this facility:
 - B001 - Office heaters
 - B002 - R&D heaters
 - B003 - Foundry heaters
 - B004 - Foundry heaters
 - B005 - Foundry heaters
 - B006 - Foundry air make up
 - B007 - Foundry air make up
 - B008 - Hydraulics heater
 - B009 - Hydraulics heaters
 - B010 - Foundry oven
 - B011 - Office boilers
 - B016 - Hydraulics heaters
 - B017 - Hyd. modine air make up unit
 - B018 - Hydraulics heaters
 - B027 - R&D boilers
 - B028 - Office A/C heaters
 - B029 - Office boiler
 - F010 - Holding furnace
 - P006 - Carburizing furnace
 - P007 - Tempering furnace
 - P008 - Tempering furnace
 - P009 - Carburizing furnace
 - P010 - Liquid quench tank
 - P011 - Liquid quench tank
 - P013 - Wash & rinse tank
 - P024 - Mills, drills, reamers
 - P025 - Mills, drills, reamers
 - P026 - Mills, drills, reamers
 - P028 - Coremaking
 - Z001 - Hot water heaters
 - Z002 - Heat treat generators
 - Z003 - Corewashing & core drying
 - Z004 - Facility storage piles
 - Z005 - Machining operations - gear department
 - Z006 - Machining operations - pump department
 - Z007 - Machining operations - quench furnaces
 - Z008 - Cold cleaner - 2826
 - Z009 - Cold cleaner - 2829
 - Z010 - Cold cleaner - 1156
 - Z011 - Cold cleaner - 3038
 - Z012 - Cold cleaner - 1366
 - Z013 - Cold cleaner - 296
 - Z014 - Cold cleaner - tool room
 - Z015 - Cold cleaner - lab
 - Z016 - Cold cleaner - 1500
 - Z017 - Cold cleaner - 5014a
 - Z018 - Cold cleaner - 5014b
 - Z019 - Cold cleaner - 1277
 - Z020 - Carburizing furnace - 1473
 - Z021 - New sand bin with Torit collector

Z022 - Bond bin with Torit collector

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

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0250110316 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>
Paved roadways and parking areas (see Section A.2.a)	OAC rule 3745-17-07 (B)(4)	No visible particulate emissions except for 6 minutes during any 60-minute period
	OAC rule 3745-17-08 (B), (B)(8), (B)(9)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.c, A.2.d, and A.2.f through A.2.j)
Unpaved roadways and parking areas (see Section A.2.b)	OAC rule 3745-17-07 (B)(5)	No visible particulate emissions except for 13 minutes during any 60-minute period
	OAC rule 3745-17-08 (B), (B)(2)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.e through A.2.j)

2. Additional Terms and Conditions

- a. The paved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:
 - (a) Paved roadways:
All paved roadways associated with the administration building, main entrance, and basic facilities.
 - Paved parking areas:
Administration building, main entrance, and basic facilities paved parking areas.
- b. The unpaved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:
 - Unpaved roadways:
All unpaved roadways associated with the administration building, main entrance, and basic facilities.
 - Unpaved parking areas:
Administration building, main entrance, and basic facilities unpaved parking areas.

- c. The permittee shall employ reasonably available control measures on all paved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the paved roadways and parking areas by flushing with water, sweeping, and/or watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- d. The permittee shall employ reasonably available control measures on the unpaved shoulders of all paved roadways for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved shoulders of all paved roadways with water and/or other suitable dust suppression chemicals at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- e. The permittee shall employ reasonably available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved roadways and parking areas with water and/or other suitable dust suppression chemicals at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- f. The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved or unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- g. Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure(s) specified above for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.
- h. The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- i. Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- j. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08.

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II. Operational Restrictions

1. Operational Restrictions Concerning the Use of Dust Suppressants

When a dust suppressant is used for controlling fugitive dust from the unpaved road segments and parking areas, the following restrictions apply:

- a. The permittee shall certify or possess certification that all dust suppressants used to control fugitive dust meet the PCB limitations set forth in 40 CFR 761, and that there are no listed hazardous wastes or characteristic hazardous wastes as set forth in 40 CFR 261.
- b. The permittee shall not apply used oil as defined by OAC rule 3745-279-01(A)(12) as a dust suppressant.
- c. The dust suppressant shall be applied in such a manner as to prevent pollution of waters of the State as required by the Ohio Revised Code, section 6111.

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III. Monitoring and/or Record Keeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of each of the roadways and parking areas in accordance with the following frequencies:

Paved roadways and parking areas: All

Minimum inspection frequency: Weekly

Unpaved roadways and parking areas: All

Minimum inspection frequency: Daily

2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
3. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
4. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in 4.d. shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

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IV. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

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V. Testing Requirements

1. Compliance with the emission limitation for the paved and unpaved roadways and parking areas identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0250110316 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>
2. Additional Terms and Conditions		
1. None		

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0250110316 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.

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>
Electric induction furnace #1 for gray iron	OAC rule 3745-31-05 PTI No. 02-1565 OAC rule 3745-17-07 (B) OAC rule 3745-17-08 (B)	See A.1.2.a. and b. Visible particulate matter emissions shall not exceed twenty-percent opacity as a three-minute average. See A.1.2.a.
2. Additional Terms and Conditions		
a. Only non-oily scrap shall be charged for the purposes of melting in the electric induction furnace.		
b. Electric induction furnaces F002 and F003 shall not be operated simultaneously for scrap melting.		

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II. Operational Restrictions

1. None

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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 particulate emissions from the roof monitor(s) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall record all periods of time during which both electric induction furnaces were operated simultaneously for the purpose of scrap melting.

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IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the roof monitor(s) serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit semiannual written reports which identify all time periods during which the electric induction furnaces operated simultaneously for the purpose of scrap melting. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. Testing Requirements

1. Emissions Limitations:
 - Twenty-percent opacity, as a three-minute average.

Applicable Compliance Method:
Compliance with the visible emission limitation for the electric induction furnace operation(s) identified above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0250110316 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>
2. Additional Terms and Conditions		
1. None		

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0250110316 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>
Electric induction furnace #2 for gray iron	OAC rule 3745-31-05 PTI No. 02-1565	See A.I.2.a. and b.
	OAC rule 3745-17-07 (B)	Visible particulate matter emissions shall not exceed twenty-percent opacity as a three-minute average.
	OAC rule 3745-17-08 (B)	See A.I.2.a.

2. **Additional Terms and Conditions**

- a. Only non-oily scrap shall be charged for the purposes of melting in the electric induction furnace.
- b. Electric induction furnaces F002 and F003 shall not be operated simultaneously for scrap melting.

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II. Operational Restrictions

1. None

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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 particulate emissions from the roof monitor(s) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.
2. The permittee shall record all periods of time during which both electric induction furnaces were operated simultaneously for the purpose of scrap melting.

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IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the roof monitor(s) serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit semiannual written reports which identify all time periods during which the electric induction furnaces operated simultaneously for the purpose of scrap melting. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. Testing Requirements

1. Emissions Limitations:
Twenty-percent opacity, as a three-minute average.

Applicable Compliance Method:
Compliance with the visible emission limitation for the electric induction furnace operation(s) identified above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0250110316 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>
2. Additional Terms and Conditions			
1.	None		

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II. **Operational Restrictions**

- 1. None

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

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0250110316 Issuance type: Title V Draft Permit

Part III - Terms and Conditions for Emissions Units

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Facility ID: 0250110316 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>
Autopour and mold handler #1 with baghouse	OAC rule 3745-31-05 PTI No. 02-1565	PE: 0.01 grain per dry standard cubic foot of exhaust gases, 1.0 pound per hour and 4.4 tons per year (stack emissions). 0.53 pound per hour of fugitive PE and 2.31 tons per year. 0.35 pound per hour of organic compound emissions (total of stack and fugitive emissions) and 1.54 tons per year.
	OAC rule 3745-17-07 (A)	10.03 pounds per hour of carbon monoxide emissions (total of stack and fugitive emissions) and 43.92 tons per year.
	OAC rule 3745-17-07 (B)	Visible PE from the stack shall not exceed twenty-percent opacity, as a six-minute average, except as provided by the rule.
	OAC rule 3745-17-08 (B)	Visible fugitive PE shall not exceed twenty-percent opacity, as a three-minute average.
	OAC rule 3745-17-11	See A.I.2.a. Less stringent than limit from OAC rule 3745-31-05.

2. Additional Terms and Conditions

- a. The collection efficiency of the baghouse control system shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design.

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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.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall 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 record the annual amount of gray iron poured for this emissions unit (tons/yr).
3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack(s) and any fugitive egress points serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and

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

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IV. Reporting Requirements

1. The permittee shall submit pressure drop deviations (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.
2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack(s) and/or any fugitive egress points serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. Testing Requirements

1. Emissions Limitation:
PE: 1.0 pound per hour and 0.01 grain per dry standard cubic foot of exhaust gases

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the particulate emission rate shall be determined in accordance with 40 CFR Part 60, Appendix A, methods 1 through 5 and the procedures in OAC rule 3745-17-03.

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 6 months prior to permit expiration.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulate emissions.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): 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, Northeast District Office.
 - d. 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 Ohio EPA, Northeast District Office.
Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Northeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date (s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Northeast District Office's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA, Northeast District Office 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 Ohio EPA, Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA, Northeast District Office.
2. Emissions Limitation:
Twenty-percent opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:
Compliance with the allowable visible emission limitations shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures in OAC rule 3745-17-03.
3. Emissions Limitation:
Twenty-percent opacity, as a three-minute average.

Applicable Compliance Method:
Compliance with the visible emission limitation for the autopour and mold handler operation(s) identified above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.
5. Emissions Limitation:
4.4 tons per year of particulate emissions.

Applicable Compliance Method:
This limit is based on the allowable hourly emission limit (1.00 lb/hr) multiplied by the maximum possible operating hours (8760 hr/yr), and divided by 2000 (lbs/ton). Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation. Compliance was demonstrated with the hourly limit in the most recent compliance test conducted on September 29, 1999.

6. Emissions Limitation:
0.53 pound per hour of fugitive particulate emissions.
- Applicable Compliance Method:
To determine the actual fugitive particulate emission rate for the autopour and mold handler the following equation shall be used:
- $$E = \text{gray iron processed (tons metal/hr)} \times 4.2 \text{ pounds PE/ton metal} \times (1 - 0.99)$$
- where:
- $$E = \text{fugitive particulate emissions (lbs/hr)}$$
- 4.2 pounds particulate emissions/ton metal = emission factor in pounds of particulate emissions per ton of gray iron processed (AP-42 Section 12.10, Iron Foundries, 1995 revision).
- 0.99 = capture efficiency as supplied by the manufacturer.
7. Emissions Limitation:
2.31 tons per year of fugitive particulate emissions
- Applicable Compliance Method:
To determine the actual fugitive particulate emission rate for the autopour and mold handler the following equation shall be used:
- $$E = \text{gray iron processed (tons metal/yr)} \times 4.2 \text{ pounds PE/ton metal} \times (1 - 0.99) \times (1 \text{ ton}/2000 \text{ pounds}).$$
- where:
- $$E = \text{fugitive particulate emissions (tons/yr)}$$
- 4.2 pounds particulate emissions/ton metal = emission factor in pounds of particulate emissions per ton of gray iron processed (AP-42 Section 12.10, Iron Foundries, 1995 revision).
- 0.99 = capture efficiency as supplied by the manufacturer.
8. Emissions Limitation:
0.35 pound per hour of organic compounds
- Applicable Compliance Method:
To determine compliance with the organic compound limit, the following equation shall be used:
- $$E = \text{maximum gray iron processed (tons metal/hr)} \times 0.14 \text{ pound OC emissions /ton metal}$$
- where:
- $$E = \text{organic compound emissions (lbs/hr)}$$
- 0.14 pound OC emissions/ton metal = emission factor in pound of organic compounds per ton of gray iron processed (from SCC emission factor 3-04-003-20).
9. Emissions Limitation:
1.54 tons per year of organic compounds
- Applicable Compliance Method:
To determine compliance with the organic compound limit, the following equation shall be used:
- $$E = \text{actual gray iron processed (tons metal/yr)} \times 0.14 \text{ pound OC emissions /ton metal} \times (1 \text{ ton}/2000 \text{ pounds})$$
- where:
- $$E = \text{organic compound emissions (tons/yr)}$$
- 0.14 pound OC emissions/ton metal = emission factor in pounds of organic compounds per ton of gray iron processed (from SCC emissions factor 3-04-003-20).
10. Emissions Limitation:
10.03 pounds per hour of carbon monoxide
- Applicable Compliance Method:
To determine compliance with the carbon monoxide limit, the following equation shall be used:
- $$E = \text{maximum gray iron processed (tons metal/hr)} \times 4.0 \text{ pounds CO emissions /ton metal}$$
- where:
- $$E = \text{carbon monoxide emissions (lbs/hr)}$$
- 4.0 pounds CO emissions/ton metal = emissions factor in pounds of carbon monoxide per ton of gray iron processed (from emissions test done at a similar gray iron foundry source).
11. Emissions Limitation:
43.92 tons per year of carbon monoxide
- Applicable Compliance Method:
To determine compliance with the carbon monoxide limit, the following equation shall be used:

E = actual gray iron processed (tons metal/yr) x 4.0 pounds CO emissions /ton metal x (1 ton/2000 pounds)

where:

E = carbon monoxide emissions (tons/yr)

4.0 pounds CO emissions/ton metal = emissions factor in pounds of carbon monoxide per ton of gray iron processed (from emissions test done at a similar gray iron foundry source).

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0250110316 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>
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2. **Additional Terms and Conditions**

- 1. None

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II. **Operational Restrictions**

- 1. None

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

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0250110316 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>
Autopour and mold handler #2 with baghouse	OAC rule 3745-31-05 PTI No. 02-1565	PE: 0.01 grain per dry standard cubic foot of exhaust gases, 1.0 pound per hour and 4.4 tons per year (stack emissions). 0.53 pound per hour of fugitive PE and 2.31 tons per year.
		0.35 pound per hour of organic compound emissions (total of stack and fugitive emissions) and 1.54 tons per year.
		10.03 pounds per hour of carbon monoxide emissions (total of stack and fugitive emissions) and 43.92 tons per year.
	OAC rule 3745-17-07 (A)	Visible PE from the stack shall not exceed twenty-percent opacity, as a six-minute average, except as provided by the rule.
	OAC rule 3745-17-07 (B)	Visible fugitive PE shall not exceed twenty-percent opacity, as a three-minute average.
	OAC rule 3745-17-08 (B)	See A.I.2.a.
	OAC rule 3745-17-11	Less stringent than limit from OAC rule 3745-31-05.

2. **Additional Terms and Conditions**

- a. The collection efficiency of the baghouse control system shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design.

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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.

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

- 1. The permittee shall 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 record the annual amount of gray iron poured for this emissions unit (tons/yr).
3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack(s) and any fugitive egress points serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit pressure drop deviations (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.
2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack(s) and/or any fugitive egress points serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. Testing Requirements

1. Emissions Limitation:
PE: 1.0 pound per hour and 0.01 grain per dry standard cubic foot of exhaust gases

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the particulate emission rate shall be determined in accordance with 40 CFR Part 60, Appendix A, methods 1 through 5 and the procedures in OAC rule 3745-17-03.

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 6 months prior to permit expiration.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulate emissions.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): 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, Northeast District Office.
 - d. 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 Ohio EPA, Northeast District Office. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Northeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date (s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Northeast District Office's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA, Northeast District Office 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 Ohio EPA, Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA, Northeast District Office.
2. Emissions Limitation:
Twenty-percent opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:
Compliance with the allowable visible emission limitations shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures in OAC rule 3745-17-03.
3. Emissions Limitation:
Twenty-percent opacity, as a three-minute average.

Applicable Compliance Method:
Compliance with the visible emission limitation for the autopour and mold handler operation(s) identified above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in

40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

5. Emissions Limitation:
4.4 tons per year of particulate emissions.

Applicable Compliance Method:

This limit is based on the allowable hourly emission limit (1.00 lb/hr) multiplied by the maximum possible operating hours (8760 hr/yr), and divided by 2000 (lbs/ton). Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation. Compliance was demonstrated with the hourly limit in the most recent compliance test conducted on September 29, 1999.

6. Emissions Limitation:
0.53 pound per hour of fugitive particulate emissions.

Applicable Compliance Method:

To determine the actual fugitive particulate emission rate for the autopour and mold handler the following equation shall be used:

$$E = \text{gray iron processed (tons metal/hr)} \times 4.2 \text{ pounds PE/ton metal} \times (1 - 0.99)$$

where:

$$E = \text{fugitive particulate emissions (lbs/hr)}$$

4.2 pounds particulate emissions/ton metal = emission factor in pounds of particulate emissions per ton of gray iron processed (AP-42 Section 12.10, Iron Foundries, 1995 revision).

0.99 = capture efficiency as supplied by the manufacturer.

7. Emissions Limitation:
2.31 tons per year of fugitive particulate emissions

Applicable Compliance Method:

To determine the actual fugitive particulate emission rate for the autopour and mold handler the following equation shall be used:

$$E = \text{gray iron processed (tons metal/yr)} \times 4.2 \text{ pounds PE/ton metal} \times (1 - 0.99) \times (1 \text{ ton}/2000 \text{ pounds})$$

where:

$$E = \text{fugitive particulate emissions (tons/yr)}$$

4.2 pounds particulate emissions/ton metal = emission factor in pounds of particulate emissions per ton of gray iron processed (AP-42 Section 12.10, Iron Foundries, 1995 revision).

0.99 = capture efficiency as supplied by the manufacturer.

8. Emissions Limitation:
0.35 pound per hour of organic compounds

Applicable Compliance Method:

To determine compliance with the organic compound limit, the following equation shall be used:

$$E = \text{maximum gray iron processed (tons metal/hr)} \times 0.14 \text{ pound OC emissions /ton metal}$$

where:

$$E = \text{organic compound emissions (lbs/hr)}$$

0.14 pound OC emissions/ton metal = emission factor in pound of organic compounds per ton of gray iron processed (from SCC emission factor 3-04-003-20).

9. Emissions Limitation:
1.54 tons per year of organic compounds

Applicable Compliance Method:

To determine compliance with the organic compound limit, the following equation shall be used:

$$E = \text{actual gray iron processed (tons metal/yr)} \times 0.14 \text{ pound OC emissions /ton metal} \times (1 \text{ ton}/2000 \text{ pounds})$$

where:

$$E = \text{organic compound emissions (tons/yr)}$$

0.14 pound OC emissions/ton metal = emission factor in pounds of organic compounds per ton of gray iron processed (from SCC emissions factor 3-04-003-20).

10. Emissions Limitation:
10.03 pounds per hour of carbon monoxide

Applicable Compliance Method:

To determine compliance with the carbon monoxide limit, the following equation shall be used:

$$E = \text{maximum gray iron processed (tons metal/hr)} \times 4.0 \text{ pounds CO emissions /ton metal}$$

where:

E = carbon monoxide emissions (lbs/hr)

4.0 pounds CO emissions/ton metal = emissions factor in pounds of carbon monoxide per ton of gray iron processed (from emissions test done at a similar gray iron foundry source).

- 11. Emissions Limitation:
43.92 tons per year of carbon monoxide

Applicable Compliance Method:
To determine compliance with the carbon monoxide limit, the following equation shall be used:

$E = \text{actual gray iron processed (tons metal/yr)} \times 4.0 \text{ pounds CO emissions /ton metal} \times (1 \text{ ton}/2000 \text{ pounds})$

where:

E = carbon monoxide emissions (tons/yr)

4.0 pounds CO emissions/ton metal = emissions factor in pounds of carbon monoxide per ton of gray iron processed (from emissions test done at a similar gray iron foundry source).

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0250110316 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>
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- 2. **Additional Terms and Conditions**

- 1. None

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II. **Operational Restrictions**

- 1. None

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

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0250110316 Emissions Unit ID: F012 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>
Hunter G-series automatic matchplate molding machine for sand castings (west)	OAC rule 3745-31-05 (A)(3) PTI No. 02-11457	PE: 0.242 pound per hour and 1.06 tons per year. OC: 6.36 pounds per hour and 27.86 tons per year.
	OAC rule 3745-17-08 (B) OAC rule 3745-21-07 (G)(2) OAC rule 3745-17-07 (B)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B). No control measures are required. See A.I.2.a. Visible particulate matter emissions shall not exceed twenty percent opacity, as a three-minute average.

2. **Additional Terms and Conditions**

- a. The emissions unit shall not employ organic liquids which are photochemically reactive materials, as defined in OAC 3745-21-01 (C)(5).

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II. **Operational Restrictions**

- 1. None

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

- 1. The permittee shall maintain the following daily records for all materials used in this emissions unit:
 - a. the identification of the chemical compound and its physical state; and,
 - b. for any liquid organic materials, whether or not the material is a photochemically reactive material as defined in OAC rule 3745-21-01 (C)(5).

2. The permittee shall keep the following records each week:
 - a. The company identification of the parting spray used.
 - b. The amount of parting spray used (gallons).
 - c. The organic compound content of the parting spray (lbs OC/gal).
 - d. The pounds of organic compounds emitted, assuming 100% evaporative loss for the organic compounds.
 - e. The hours of operation for the emissions unit.
 - f. The average organic compound emissions rate (d/e), in pounds/hour.
3. The permittee shall record the tons of iron poured annually.
4. 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 from any egress points serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit deviation(excursion) reports which identify each day during which any photochemically reactive materials were employed.
2. The permittee shall submit deviation(excursion) reports which identify each week when the organic compound limit of 6.36 pounds per hour is exceeded, and the actual hourly average organic compound emission rate for each such week.
3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible fugitive particulate emissions were observed from any egress points serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. Testing Requirements

1. Emissions Limitation:
PE: 0.242 pound per hour of particulate emissions.

Applicable Compliance Method:
To determine the actual particulate emission rate for the mold making operations the following equation shall be used:

$$E = \text{maximum tons of metal poured (tons metal/hr)} \times 0.04 \text{ pound PE/ton metal poured}$$

where:

$$E = \text{particulate emissions (lbs/hr)}$$

0.04 pound particulate emissions/ton metal = emission factor in pounds of particulate emissions per ton of metal poured (from the Ohio EPA document, "Reasonably Available Control Measures", Table 2.7-1).
2. Emissions Limitation:
1.06 tons per year of particulate emissions.

Applicable Compliance Method:
To determine the actual particulate emission rate for the mold making operations the following equation shall be used:

$$E = \text{actual tons of metal poured (tons metal/yr)} \times 0.04 \text{ pound PE/ton metal poured} \times (1 \text{ ton}/2000 \text{ pounds})$$

where:

$$E = \text{particulate emissions (tons/yr)}$$

0.04 pound particulate emissions/ton metal = emission factor in pounds of particulate emissions per ton of metal poured (from the Ohio EPA document, "Reasonably Available Control Measures", Table 2.7-1).
3. Emissions Limitation:
6.36 pound per hour of organic compounds

Applicable Compliance Method:

Compliance with the hourly limit shall be determined by record keeping required in Section A.III.2. The organic content of the parting spray shall be determined by U.S. EPA Method 24 or formulation data.

- 4. Emissions Limitation:
27.86 tons per year of organic compounds

Applicable Compliance Method:

To determine compliance with the organic compound limit, the following equation shall be used:

$$E = \text{parting spray used (gals /yr) } \times \text{ pounds OC per gallon of parting spray (lbs/gal) } \times (1 \text{ ton}/2000 \text{ pounds})$$

where:

$$E = \text{organic compound emissions (tons/yr)}$$

- 5. Emissions Limitation:
Twenty-percent opacity, as a three-minute average

Applicable Compliance Method:

Compliance with the visible emission limitation for the particulate matter emissions shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0250110316 Emissions Unit ID: F012 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>
2. Additional Terms and Conditions			
1.	None		

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II. **Operational Restrictions**

- 1. None

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

- 1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0250110316 Emissions Unit ID: F013 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>
Hunter G-series automatic matchplate molding machine for sand castings (east)	OAC rule 3745-31-05 (A)(3) PTI No. 02-11457	PE: 0.242 pound per hour and 1.06 tons per year. OC: 6.36 pounds per hour and 27.86 tons per year.
	OAC rule 3745-17-08 (B) OAC rule 3745-21-07 (G)(2) OAC rule 3745-17-07 (B)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B). No control measures are required. See A.I.2.a. Visible particulate matter emissions shall not exceed twenty percent opacity, as a three-minute average.

2. Additional Terms and Conditions

- a. The emissions unit shall not employ organic liquids which are photochemically reactive materials, as defined in OAC 3745-21-01 (C)(5).

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II. **Operational Restrictions**

1. None

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

1. The permittee shall maintain the following daily records for all materials used in this emissions unit:
 - a. the identification of the chemical compound and its physical state; and,
 - b. for any liquid organic materials, whether or not the material is a photochemically reactive material as

defined in OAC rule 3745-21-01 (C)(5).

2. The permittee shall keep the following records each week:
 - a. The company identification of the parting spray used.
 - b. The amount of parting spray used (gallons).
 - c. The organic compound content of the parting spray (lbs OC/gal).
 - d. The pounds of organic compounds emitted, assuming 100% evaporative loss for the organic compounds.
 - e. The hours of operation for the emissions unit.
 - f. The average organic compound emissions rate (d/e), in pounds/hour.
3. The permittee shall record the tons of iron poured annually.
4. 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 from any egress points serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit deviation(excursion) reports which identify each day during which any photochemically reactive materials were employed.
2. The permittee shall submit deviation(excursion) reports which identify each week when the organic compound limit of 6.36 pounds per hour is exceeded, and the actual hourly average organic compound emission rate for each such week.
3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible fugitive particulate emissions were observed from any egress points serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. Testing Requirements

1. Emissions Limitation:
PE: 0.242 pound per hour of particulate emissions.

Applicable Compliance Method:
To determine the actual particulate emission rate for the mold making operations the following equation shall be used:

$$E = \text{maximum tons of metal poured (tons metal/hr)} \times 0.04 \text{ pound PE/ton metal poured}$$
 where:

$$E = \text{particulate emissions (lbs/hr)}$$

0.04 pound particulate emissions/ton metal = emission factor in pounds of particulate emissions per ton of metal poured (from the Ohio EPA document, "Reasonably Available Control Measures", Table 2.7-1).
2. Emissions Limitation:
1.06 tons per year of particulate emissions.

Applicable Compliance Method:
To determine the actual particulate emission rate for the mold making operations the following equation shall be used:

$$E = \text{actual tons of metal poured (tons metal/yr)} \times 0.04 \text{ pound PE/ton metal poured} \times (1 \text{ ton}/2000 \text{ pounds})$$
 where:

$$E = \text{particulate emissions (tons/yr)}$$

0.04 pound particulate emissions/ton metal = emission factor in pounds of particulate emissions per ton of metal poured (from the Ohio EPA document, "Reasonably Available Control Measures", Table 2.7-1).
3. Emissions Limitation:

6.36 pound per hour of organic compounds

Applicable Compliance Method:
Compliance with the hourly limit shall be determined by record keeping required in Section A.III.2. The organic content of the parting spray shall be determined by U.S. EPA Method 24 or formulation data.

4. Emissions Limitation:
27.86 tons per year of organic compounds

Applicable Compliance Method:
To determine compliance with the organic compound limit, the following equation shall be used:

$$E = \text{parting spray used (gals /yr)} \times \text{pounds OC per gallon of parting spray (lbs/gal)} \times (1 \text{ ton}/2000 \text{ pounds})$$

where:

$$E = \text{organic compound emissions (tons/yr)}$$

5. Emissions Limitation:
Twenty-percent opacity, as a three-minute average

Applicable Compliance Method:
Compliance with the visible emission limitation for the particulate matter emissions shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0250110316 Emissions Unit ID: F013 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>
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2. **Additional Terms and Conditions**

1. None

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II. **Operational Restrictions**

1. None

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

1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0250110316 Emissions Unit ID: F014 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>
Compacted graphite inoculation using a Tundish ladle	OAC rule 3745-31-05 PTI No. 02-11684	PE: 20.0 pounds per hour and 8.8 tons per year.
	OAC rule 3745-17-07 (B) OAC rule 3745-17-08 (B)	Visible fugitive PE shall not exceed five-percent opacity, as a three-minute average. Less stringent than limit from OAC rule 3745-31-05. The use of a Tundish ladle.

2. Additional Terms and Conditions

- (a) None

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II. Operational Restrictions

- 1. The maximum annual production rate for this emissions unit shall not exceed 4380 tons of inoculated metal, based upon a rolling, twelve-month summation of the production rates.

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III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall maintain monthly records of the following information:
 - a. the production rate for each month (tons of metal produced); and
 - b. the rolling, twelve-month summation of the production rates (tons of metal produced).
- 2. The permittee shall maintain records of when the Tundish ladle is not used when making inoculated metal.

3. 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 from any egress points serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, twelve-month production rate limitation. These reports shall be submitted to the Ohio EPA, Northeast District Office, Division of Air Pollution Control no later than forty-five days from the end of the month in which the exceedance occurred.
2. The permittee shall submit semiannual written reports identify those periods of time when the Tundish ladle was not used in making inoculated metal. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible fugitive particulate emissions were observed from any egress points serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. Testing Requirements

1. Emissions Limitation:
PE: 20.0 pounds per hour of fugitive particulate emissions.

Applicable Compliance Method:
To determine the actual fugitive particulate emission rate for the compacted graphite inoculation operations the following equation shall be used:

$$E = \text{maximum production of tons of inoculated metal (tons metal/hr)} \times 4.0 \text{ pounds PE/ton metal}$$

where:

$$E = \text{fugitive particulate emissions (lbs/hr)}$$

4.0 pounds particulate emissions/ton metal = emission factor in pounds of particulate emissions per ton of metal inoculated (from AP-42 Section 12.10, Iron Foundries, 1995 revision).
2. Emissions Limitation:
8.8 tons per year of fugitive particulate emissions.

Applicable Compliance Method:
To determine the actual fugitive particulate emission rate for the compacted graphite inoculation operations the following equation shall be used:

$$E = \text{tons of inoculated metal (tons metal/yr)} \times 4.0 \text{ pounds PE/ton metal} \times (1 \text{ ton}/2000 \text{ pounds})$$

where:

$$E = \text{fugitive particulate emissions (tons/yr)}$$

4.0 pounds particulate emissions/ton metal = emission factor in pounds of particulate emissions per ton of metal inoculated (from AP-42, Section 12.10, Iron Foundries, 1995 revision).
3. Emissions Limitation:
Five-percent opacity, as a three-minute average.

Applicable Compliance Method:
Compliance with the visible emission limitation for the compacted graphite inoculation operation(s) identified above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0250110316 Emissions Unit ID: F014 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>
2. Additional Terms and Conditions			
1.	None		

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 0250110316 Emissions Unit ID: K001 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>
Miscellaneous metal parts coating booth	OAC rule 3745-21-09(U)(2)(e)(ii)	Maximum daily coating usage not to exceed 10 gallons of coating in any one day.
	OAC rule 3745-17-07 (A)	Visible particulate matter emissions shall not exceed twenty-percent opacity as a six-minute average, except as provided by the rule.
	OAC rule 3745-17-11	PE: 0.551 pound per hour

2. Additional Terms and Conditions

- (a) None

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II. Operational Restrictions

- 1. The permittee shall use dry filters whenever this emissions unit is in operation for the control of the overspray.

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III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall collect and record the following information each day for the coating line:
 - a. The name and identification number of each coating employed.
 - b. The volume, in gallons, of each coating employed.
 - c. The total volume, in gallons, of all of the coatings employed.
- 2. The permittee shall maintain daily records that document any time periods when the dry filters were not in service when the emissions unit was in operation.

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IV. Reporting Requirements

- 1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the coating line employs more than the applicable maximum daily coating usage limit. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.
- 2. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record that documents any time periods when the dry filters were not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the occurrence.

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V. Testing Requirements

- 1. Compliance with the emission limitations in Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
 Emission Limitation:
 Usage of no more than 10 gallons of coatings per day.

 Applicable Compliance Method:
 Daily records shall be maintained of the usage of all coatings employed, as required in Section A.III.1.
- 2. Emissions Limitation:
 Twenty-percent opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:

Compliance with the allowable visible emissions limitations shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures in OAC rule 3745-17-03 (B)(1).

3. Emission Limitation: 0.551 pound of particulate emissions per hour.

Applicable Compliance Method:

To determine the actual worst case particulate emission rate, the following equation shall be used:

$$E = U \times (1-TE) \times (1-CE)$$

where,

E = particulate matter emissions rate (lbs/hr)

U = maximum coating solids usage rate (lbs/hr)

TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used

CE = fractional control efficiency of the control equipment

If required, emission testing shall be performed in accordance with the procedures in 40 CFR Part 60, Appendix A, Method 5.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0250110316 Emissions Unit ID: K001 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>
2. Additional Terms and Conditions		
1. None		

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0250110316 Emissions Unit ID: P015 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>
Finishing area shotblast with baghouse	OAC rule 3745-31-05 PTI No. 02-8342	PE: 0.01 grain per dry standard cubic foot of exhaust gases, 0.45 pound per hour and 1.97 tons per year (stack emissions).
	OAC rule 3745-17-07 (A)	Visible particulate matter emissions shall not exceed twenty-percent opacity as a six-minute average, except as provided by the rule.
	OAC rule 3745-17-11	Less stringent than limit from OAC rule 3745-31-05.

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

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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.

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

- 1. The permittee shall 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.

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IV. **Reporting Requirements**

1. The permittee shall submit pressure drop deviations (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.

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V. **Testing Requirements**

1. Emissions Limitations:
PE: 0.45 pound per hour and 0.01 grain per dry standard cubic foot of exhaust gases

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the particulate emission rates shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03.
2. Emissions Limitation:
1.97 tons per year of particulate emissions.

Applicable Compliance Method:
This limit is based on the allowable hourly emission limit (0.45 lb/hr) multiplied by the maximum possible operating hours (8760 hr/yr), and divided by 2000 (lbs/ton). Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation. Compliance was demonstrated with the hourly limit in the most recent compliance test conducted on September 28, 1999.
3. Emissions Limitation:
Twenty-percent opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:
Compliance with the allowable visible emissions limitations shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures in OAC rule 3745-17-03 (B)(1).

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0250110316 Emissions Unit ID: P015 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>
2. Additional Terms and Conditions		
1. None		

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II. **Operational Restrictions**

1. None

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

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0250110316 Emissions Unit ID: P020 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>
Grinding operations for gray iron castings with baghouse	OAC rule 3745-31-05 PTI No. 02-12357	PE: 0.01 grain per dry standard cubic foot of exhaust gases, 1.07 pounds per hour, and 4.69 tons per year (stack emissions)
	OAC rule 3745-17-07 (A)	Fugitive PE: 0.59 ton per year
	OAC rule 3745-17-07 (B)	Visible particulate emissions from the stack shall not exceed twenty-percent opacity, as a six-minute average, except as provided by the rule.
	OAC rule 3745-17-08 (B)	Visible fugitive PE shall not exceed twenty-percent opacity, as a three-minute average.
	OAC rule 3745-17-11	See A.I.2.a. Less stringent than limit from OAC rule 3745-31-05.

2. **Additional Terms and Conditions**

- a. The collection efficiency of the baghouse control system shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design.

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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.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall 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 maintain annual records of the iron castings (tons) processed through this emissions unit.
3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack(s) and any fugitive egress points serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

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IV. Reporting Requirements

1. The permittee shall submit pressure drop deviations (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.
2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack(s) and/or any fugitive egress points serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. Testing Requirements

1. Emissions Limitations:
PE: 1.07 pounds per hour and 0.01 grain per dry standard cubic foot of exhaust gases.

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the particulate emission rates shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03.

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 6 months prior to permit expiration.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulates.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): 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, Northeast District Office.
 - d. 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 Ohio EPA, Northeast District Office.
Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Northeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date (s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Northeast District Office's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA, Northeast District Office 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 Ohio EPA, Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA, Northeast District Office.

2. Emissions Limitation:
4.69 tons per year of particulate emissions.

Applicable Compliance Method:
This limit is based on the allowable hourly emission limit (1.07 lb/hr) multiplied by the maximum possible operating hours (8760 hr/yr), and divided by 2000 (lbs/ton). Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation. Compliance was demonstrated with the hourly limit in the most recent compliance test conducted on September 28, 1999.
3. Emissions Limitation:
0.59 ton per year of fugitive particulate emissions

Applicable Compliance Method:
To determine the actual fugitive particulate emission rate for the grinding operations the following equation shall be used:

$$E = \text{gray iron processed (tons metal/yr)} \times 1.6 \text{ pounds PE/ton metal} \times (1 - 0.95) \times (1 \text{ ton}/2000 \text{ pounds})$$

where:

$$E = \text{fugitive particulate emissions (tons/yr)}$$

1.6 pounds particulate emissions/ton metal = emissions factor in pounds of particulate emissions per ton of gray iron processed (from Bernard S. Gutow article "An inventory of Iron Foundry Emissions", Modern Castings, January 1972).

0.95 = capture efficiency as supplied by the manufacturer
4. Emissions Limitation:
Twenty-percent opacity, as a six-minute average, except as provided by the rule.

Applicable Compliance Method:
Compliance with the allowable visible emissions limitations shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures in OAC rule 3745-17-03.
5. Emissions Limitation:
Twenty-percent opacity, as a three-minute average

Applicable Compliance Method:
Compliance with the visible emission limitation for the fugitive particulate matter emissions shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0250110316 Emissions Unit ID: P020 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>
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2. **Additional Terms and Conditions**

- 1. None

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 0250110316 Emissions Unit ID: P030 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>
Didion shakeout and mold dump conveyor with baghouse	OAC rule 3745-31-05 PTI No. 02-12422	PE: 0.01 grain per dry standard cubic foot of exhaust gases, 1.47 pounds per hour, and 6.44 tons per year (stack emissions). 7.03 tons per year of fugitive PE. 6.03 pounds per hour of organic compound emissions (total of stack and fugitive emissions) and 26.4 tons per year. 10.0 pounds per hour of carbon monoxide emissions (total of stack and fugitive emissions) and 4.4 tons per year.

OAC rule 3745-17-07 (A)	Visible PE from the stack shall not exceed twenty-percent opacity, as a six-minute average, except as provided by the rule.
OAC rule 3745-17-07 (B)	Visible fugitive PE shall not exceed twenty-percent opacity, as a three-minute average.
OAC rule 3745-17-08 (B)	See A.I.2.a.
OAC rule 3745-17-11	Less stringent than limit from OAC rule 3745-31-05.

2. **Additional Terms and Conditions**

- a. The collection efficiency of the baghouse control system shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design.

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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.

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

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

- The permittee shall 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.
- The permittee shall maintain annual records of the iron castings (tons) processed through this emissions unit.
- The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack(s) and any fugitive egress points serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - 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 visible emission incident; and
 - any corrective actions taken to eliminate the visible emissions.

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IV. **Reporting Requirements**

- The permittee shall submit pressure drop deviations (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.
- The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack(s) and/or any fugitive egress points serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. **Testing Requirements**

- Emissions Limitations:
PE: 1.47 pounds per hour and 0.01 grain per dry standard cubic foot of exhaust gases.

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the particulate emission rate shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03.

The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - The emission testing shall be conducted within 6 months prior to permit expiration.
 - The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulate emissions.
 - The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): 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, Northeast District Office.

d. 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 Ohio EPA, Northeast District Office.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Northeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date (s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Northeast District Office's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA, Northeast District Office 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 Ohio EPA, Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA, Northeast District Office.

2. Emissions Limitation:

6.44 tons per year of particulate emissions.

Applicable Compliance Method:

This limit is based on the allowable hourly emission limit (1.47 lb/hr) multiplied by the maximum possible operating hours (8760 hr/yr), and divided by 2000 (lbs/ton). Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation. Compliance was demonstrated with the hourly limit in the most recent compliance test conducted on September 29, 1999.

3. Emissions Limitation:

7.03 tons per year of fugitive particulate emissions

Applicable Compliance Method:

To determine the actual fugitive particulate emission rate for the Didion shakeout and mold dump conveyor the following equation shall be used:

$$E = \text{gray iron processed (tons metal/yr)} \times 3.2 \text{ pounds PE /ton metal} \times (1 - 0.99) \times (1 \text{ ton}/2000 \text{ pounds})$$

where:

$$E = \text{fugitive particulate emissions (tons/yr)}$$

3.2 pounds particulate emissions/ton metal = emissions factor in pounds of particulate emissions per ton of gray iron processed (from AP-42, Table 12.10-7, 1995 version).

0.99 = capture efficiency as supplied by the manufacturer

4. Emissions Limitation:

6.03 pounds per hour organic compounds

Applicable Compliance Method:

To determine compliance with the organic compound limit, the following equation shall be used:

$$E = \text{maximum gray iron processed (tons/hr)} \times 1.2 \text{ pounds OC per ton iron}$$

where:

$$E = \text{organic compound emissions (lb/hr)}$$

1.2 pounds per ton = emission factor in pounds of organic compounds per ton of iron processed (from SCC emissions factor 30400332)

5. Emissions Limitation:

26.4 tons per year of organic compounds

Applicable Compliance Method:

To determine compliance with the organic compound limit, the following equation shall be used:

$$E = \text{actual gray iron processed (tons/yr)} \times 1.2 \text{ pounds OC per ton iron} \times 1 \text{ ton}/2000 \text{ pounds}$$

where:

$$E = \text{organic compound emissions (tons/yr)}$$

1.2 pounds per ton = emission factor in pounds of organic compounds per ton of iron processed (from SCC emissions factor 30400332)

6. Emissions Limitation:

10.0 pounds per hour of carbon monoxide

Applicable Compliance Method:

To determine compliance with the carbon monoxide limit, the following equation shall be used:

$$E = \text{maximum gray iron processed (tons metal/hr)} \times 0.2 \text{ pound CO emissions /ton metal}$$

where:

E = carbon monoxide emissions (lbs/hr)

0.2 pounds CO emissions/ton metal = emissions factor in pounds of carbon monoxide per ton of gray iron processed (from emissions test done at a similar gray iron foundry source).

- 7. Emissions Limitation:
4.4 tons per year of carbon monoxide

Applicable Compliance Method:
To determine compliance with the carbon monoxide limit, the following equation shall be used:

$E = \text{actual gray iron processed (tons metal/yr)} \times 0.2 \text{ pounds CO emissions /ton metal} \times (1 \text{ ton}/2000 \text{ pounds})$

where:

E = carbon monoxide emissions (tons/yr)

0.2 pounds CO emissions/ton metal = emissions factor in pounds of carbon monoxide per ton of gray iron processed (from emissions test done at a similar gray iron foundry source).

- 8. Emissions Limitation:
Twenty-percent opacity, as a six-minute average., except as provided by the rule

Applicable Compliance Method:
Compliance with the allowable visible emission limitations shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures in OAC rule 3745-17-03.

- 9. Emissions Limitation:
Twenty-percent opacity, as a three-minute average.

Applicable Compliance Method:
Compliance with the visible emission limitation for fugitive particulate matter emissions shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0250110316 Emissions Unit ID: P030 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>
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- 2. **Additional Terms and Conditions**

- 1. None

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II. **Operational Restrictions**

- 1. None

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

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0250110316 Emissions Unit ID: P033 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>
Foundry area shotblast with a baghouse	OAC rule 3745-31-05	PE: 0.01 grain per dry standard cubic foot of exhaust gases (stack emissions).
	PTI No. 02-1565	
	OAC rule 3745-17-07 (A)	Visible PE from the stack shall not exceed twenty-percent opacity as a six-minute average, except as provided by the rule.
	OAC rule 3745-17-11	Less stringent than limit from OAC rule 3745-31-05.

2. Additional Terms and Conditions

- (a) None

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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.

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

1. The permittee shall 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.

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IV. **Reporting Requirements**

1. The permittee shall submit pressure drop deviations (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.

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V. **Testing Requirements**

1. Emissions Limitation:
PE: 0.01 grain per dry standard cubic foot of exhaust gases

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the particulate emission rate shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03.
2. Emissions Limitation:
Twenty-percent opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:
Compliance with the allowable visible emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures in OAC rule 3745-17-03 (B)(1).

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0250110316 Emissions Unit ID: P033 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>
2. Additional Terms and Conditions			
1.	None		

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0250110316 Emissions Unit ID: P036 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>
Charge handling and preheater with cyclone collector	OAC rule 3745-31-05 PTI No. 02-2145	PE: 0.04 grain per dry standard cubic foot of exhaust gases.
	OAC rule 3745-17-07 (A)	See A.I.2.a.
	OAC rule 3745-17-07 (B)	Visible PE shall not exceed twenty-percent opacity as a six minute average, except as provided by the rule.
	OAC rule 3745-17-08 (B)	Visible fugitive PE shall not exceed twenty-percent opacity, as a three-minute average.
	OAC rule 3745-17-11	See A.I.2.a. and A.I.2.b. Less stringent than limit from OAC rule 3745-31-05.

2. Additional Terms and Conditions

- a. Only non-oily scrap shall be charged to the preheater.
- b. All scrap materials must be processed within the building.

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II. **Operational Restrictions**

1. None

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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 particulate emissions from the stack(s) and any fugitive egress points serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

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IV. **Reporting Requirements**

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack(s) and/or any fugitive egress points serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. **Testing Requirements**

1. Emissions Limitation:
PE: 0.04 grain per dry standard cubic foot of exhaust gases

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the particulate emission rate shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03.
2. Emissions Limitation:
Twenty-percent opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:
Compliance with the allowable visible emissions limitations shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures in OAC rule 3745-17-03 (B)(1).
3. Emissions Limitation:
Twenty-percent opacity, as a three-minute average.

Applicable Compliance Method:
Compliance with the visible emission limitation for the charge handling and preheater operation(s) identified above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0250110316 Emissions Unit ID: P036 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>
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2. Additional Terms and Conditions

- 1. None

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0250110316 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>
Ring muller, return sand conveyor, magnetic separator, bucket elevator, screening, return sand bin, feeder belt, prepared sand storage bin, belt conveyors, and distribution bins with baghouse (sand system baghouse)	OAC rule 3745-31-05 PTI No. 02-1565	PE: 0.01 grain per dry standard cubic foot of exhaust gases from the baghouse.
	OAC rule 3745-17-07 (A)	Visible PE from the stack shall not exceed twenty-percent opacity, as a six-minute average, except as provided by the rule.
	OAC rule 3745-17-11	Less stringent than limit from OAC rule 3745-31-05.
	OAC rule 3745-17-07 (B)	Visible fugitive PE shall not exceed twenty-percent opacity, as a three-minute average.
	OAC rule 3745-17-08 (B)	See A.I.2.a.

2. **Additional Terms and Conditions**

- a. The collection efficiency of the baghouse control system shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design.

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II. **Operational Restrictions**

1. The pressure drop across the sand system baghouse shall be maintained within the range of 2 to 6 inches of water while the emissions unit is in operation.

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

1. The permittee shall 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 perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack(s) and any fugitive egress points serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
- 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 visible emission incident; and
 - any corrective actions taken to eliminate the visible emissions.

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IV. **Reporting Requirements**

1. The permittee shall submit pressure drop deviations (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.
2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stack(s) and/or any fugitive egress points serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. **Testing Requirements**

1. Emissions Limitations:
PE: 0.01 grain per dry standard cubic foot of exhaust gases.
- Applicable Compliance Method:
If required by the Ohio EPA, compliance with the particulate emission rate shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03.
- The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
- The emission testing shall be conducted within 6 months prior to permit expiration.

- b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulate emissions.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): 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, Northeast District Office.
 - d. 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 Ohio EPA, Northeast District Office.
2. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Northeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date (s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Northeast District Office's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA, Northeast District Office 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 Ohio EPA, Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA, Northeast District Office.

- 3. Emissions Limitation:
Twenty-percent opacity as a six-minute average, except as provided by the rule

Applicable Compliance Method:
Compliance with the allowable visible emissions limitations shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures in OAC rule 3745-17-03.
- 4. Emissions Limitation:
Twenty-percent opacity, as a three-minute average

Applicable Compliance Method:
Compliance with the visible emission limitation for the fugitive particulate emissions shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

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VI. **Miscellaneous Requirements**

- 1. None

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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>
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2. **Additional Terms and Conditions**

- 1. None

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. None

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IV. Reporting Requirements

1. None

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V. Testing Requirements

1. None

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VI. Miscellaneous Requirements

1. None