

Facility ID: 0306010004 Issuance type: Title V Preliminary Proposed 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. Pursuant to 40 CFR Part 64, the permittee has submitted, and the Ohio EPA has approved a compliance assurance monitoring plan for emissions units P002, P011, P012, and P018 at this facility. The permittee shall comply with the provisions of the plan during any operation of the aforementioned emissions unit. (Authority for term: 40 CFR Part 64)

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

B001 - Air Make-up Unit 1
 B002 - Air Make-up Unit 2
 F004 * - A/B Core Mixer (Lake) (PTI 03-10079)
 F005 * - A/B Core Mixer (Olivine) (PTI 03-10079)
 F006 - Sand Storage Pile (PTI 03-13285)
 P006 - Woodworking Machine
 P015 - B-Core Sand Storage Silos, Conveying (PTI 03-6077)
 P021 - Arc-Air Room (Thermal Cutting) (PTI 03-13473)
 Z019 - 40 Ton C-Core Sand Storage Silo
 Z020 - 20 Ton C-Core Sand Storage Silo

* See also requirements for emissions units F001, F002, F003

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, and well as any emission limitations and/or control requirements contained within the identified permit to install for the emissions unit. Insignificant emissions units listed above that are not subject to specific permit to install requirements are subject to one or more of the applicable requirements contained in the federally-approved versions of OAC Chapters 3745-17, 3745-18, and/or 3745-21. (Authority for term: OAC rule 3745-77-07(A)(13))

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b State Only Enforceable Section

1. The following insignificant emissions units located at this facility are exempt from permit requirements because they are not subject to any applicable requirement (as defined in OAC rule 3745-77-01(H)) or because they meet the "de minimis" criteria established in OAC rule 3745-15-05:

F011 - Paved Roads
 P005 - Core Oven
 Z021 - Slag Handling Operations
 Z022 - Parting Spray

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0306010004 Emissions Unit ID: F001 Issuance type: Title V Preliminary Proposed 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>
Sand / Binder In-line Mixer (C-core)	OAC rule 3745-31-05(A)(3) (PTI 03-10079 as modified on January 2, 2007)	2.08 lbs fugitive particulate emissions (PE) /hr, 9.13 tons/yr
		1.04 lbs fugitive particulate matter less than 10 microns (PM10) /hr, 4.56 tons/yr
		2.30 lbs fugitive organic compounds (OC) /hr, 10.1 tons/yr
		Visible fugitive PE shall not exceed 20% opacity, as a three-minute average.
	OAC rule 3745-77-07(B)(1)	8.0 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 20.0 tons per rolling 12-month period for any combination of HAPs [for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined] (See A.I.2.a)
	OAC rule 3745-17-08(B)	none (See A.I.2.b)
	OAC rule 3745-17-07(B)	none (See A.I.2.c)
	OAC rule 3745-21-07	none (See A.I.2.d)

2. Additional Terms and Conditions

- a. The emissions of HAPs from emission units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined, shall not exceed 8.0 tons per year for an individual HAP and 20.0 tons per year for any combination of HAPs, based upon a rolling 12-month summation of the monthly emissions.
- (a) As long as compliance with the input restrictions in Section A.II.1 is maintained, compliance with the 8.0 ton/yr individual HAP limit shall be assumed (based on "CERP Organic HAP Emission Measurements for Iron Foundries and Their Use in Development of an AFS HAP Guidance Document", 2006), i.e. the study shows that individual HAP emissions distribution at iron foundries is such that: where the total combined HAPs are below 20 tons per year, the highest emission of any individual HAP will be below 8 tons per year.

Hazardous Air Pollutant (HAP) means any air pollutant listed in or pursuant to Section 112 (b) of the Clean Air Act.
- b. The emissions unit is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).

- c. This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
- d. This emissions unit is not subject to OAC rule 3745-21-07(G)(2) as determined by the Ohio Supreme Court in *Ashland Chem. Co. v. Jones* (2001), 92 Ohio St.3.d 234, i.e. this emissions unit does not employ, apply, evaporate or dry liquid organic materials.
- e. The 2.30 lbs OC /hr and 10.1 tons OC /yr emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop any additional monitoring, record keeping or reporting requirements to ensure compliance with these emission limitations.

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II. Operational Restrictions

- 1. The sand throughput for emissions units F001, F002, F003, F004*, and F005* combined shall not exceed 120,000 tons per rolling 12-month period.

* F004 and F005 are 'insignificant' emissions units at this facility - see also Part II of this permit.
[OAC rule 3745-77-07(A)(1)]

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III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive 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 location and 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 minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

- 2. The permittee shall collect and record the following information each month for emissions units F001, F002, F003, F004, and F005, combined:

- a. the number of tons of foundry sand throughput;
- b. the total HAP emission rate, in pounds, calculated as follows:

HAP emissions (lbs/month) = (tons of sand throughput) x EF

where EF = 0.102 lb total HAP per ton sand throughput *

* based on OC information supplied by the binder system manufacturer, which was based on Ohio Cast Metals Association test protocol (assume conservatively that all OC is HAP)
[OAC rule 3745-77-07(C)(1)]

- 3. The permittee shall collect and record the following information regarding HAP emissions each month for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined:

- a. the total HAP emission rate (summation of A.III.2.b, for all emissions units as listed above), in tons; and

- b. the rolling 12-month emissions of total HAPs, in tons.

[OAC rule 3745-77-07(C)(1)]

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IV. Reporting Requirements

- 1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible fugitive 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.

[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

2. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month combined HAPs emission limitation of 20.0 tons (for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined).

These reports shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.

[OAC rule 3745-77-07(C)(1)]

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V. **Testing Requirements**

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

- a. Emission Limitations:
2.08 lb fugitive PE/hr
9.13 tons fugitive PE/yr

Applicable Compliance Method:

Compliance shall be determined by multiplying the maximum sand throughput rate of 22.5 tons per hour by an emission factor of 0.3 lb PE /ton (Table 2.7-1 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983), and then multiplying by (1 - 0.7).*

* adjusting for 70% control efficiency for building enclosure, estimated from Table 2.7-8 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983

The annual allowable PE limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, as long as compliance with the hourly limitation is shown, compliance with the annual limitation shall be assumed.

[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

- b. Emission Limitations:
1.04 lb fugitive PM10/hr
4.56 tons fugitive PM10/yr

Applicable Compliance Method:

Compliance shall be determined by multiplying the maximum sand throughput rate of 22.5 tons per hour by an emission factor of 0.045 lb PE /ton (Table 2.7-1 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983 - estimate not more than 15% of PE is PM10).

The annual allowable PM10 limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, as long as compliance with the hourly limitation is shown, compliance with the annual limitation shall be assumed.

[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

- c. Emission Limitations:
2.30 lb fugitive OC/hr
10.1 tons fugitive OC/yr

Applicable Compliance Method:

Compliance shall be determined by multiplying the maximum sand throughput rate of 22.5 tons per hour by an emission factor of 0.102 lb OC /ton (binder system manufacturer emission factor, based on Ohio Cast Metals Association test protocol)

The annual allowable OC limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, as long as compliance with the hourly limitation is shown, compliance with the annual limitation shall be assumed.

[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

- d. Emission Limitations:
Visible fugitive PE shall not exceed 20 percent opacity, as a three-minute average.

Applicable Compliance Method:

If required, compliance shall be determined by visible emission evaluations performed in accordance with USEPA Reference Method 9 as set forth in "Appendix A on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraph (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03(B)(3).

[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

- e. Emission Limitations:
20.0 tons per rolling 12-month period for any combination of HAPs (for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined)

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements as specified in sections A.III.2 and 3.
[OAC rule 3745-77-07(C)(1)]

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0306010004 Emissions Unit ID: F001 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

- 1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Sand / Binder In-line Mixer (C-core)	None	None
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: 0306010004 Emissions Unit ID: F002 Issuance type: Title V Preliminary Proposed 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>
Sand / Binder In-line Mixer (Pit-bay)	OAC rule 3745-31-05(A)(3) (PTI 03-10079 as modified on January 2, 2007)	2.78 lbs fugitive particulate emissions (PE) /hr, 12.2 tons/yr
		1.38 lbs fugitive particulate matter less than 10 microns (PM10) /hr, 6.04 tons/yr
		3.06 lbs fugitive organic compounds (OC) /hr, 13.4 tons/yr
		Visible fugitive PE shall not exceed 20% opacity, as a three-minute average.
	OAC rule 3745-77-07(B)(1)	8.0 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 20.0 tons per rolling 12-month period for any combination of HAPs [for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined] (See A.I.2.a)
	OAC rule 3745-17-08(B)	none (See A.I.2.b)
	OAC rule 3745-17-07(B)	none (See A.I.2.c)
	OAC rule 3745-21-07	none (See A.I.2.d)

2. Additional Terms and Conditions

- a. The emissions of HAPs from emission units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined, shall not exceed 8.0 tons per year for an individual HAP and 20.0 tons per year for any combination of HAPs, based upon a rolling 12-month summation of the monthly emissions.
- (a) As long as compliance with the input restrictions in Section A.II.1 is maintained, compliance with the 8.0 ton/yr individual HAP limit shall be assumed (based on "CERP Organic HAP Emission Measurements for Iron Foundries and Their Use in Development of an AFS HAP Guidance Document", 2006), i.e. the study shows that individual HAP emissions distribution at iron foundries is such that: where the total combined HAPs are below 20 tons per year, the highest emission of any individual HAP will be below 8 tons per year.

Hazardous Air Pollutant (HAP) means any air pollutant listed in or pursuant to Section 112 (b) of the Clean Air Act.
- b. The emissions unit is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
- c. This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
- d. This emissions unit is not subject to OAC rule 3745-21-07(G)(2) as determined by the Ohio Supreme Court in Ashland Chem. Co. v. Jones (2001), 92 Ohio St.3.d 234, i.e. this emissions unit does not employ, apply, evaporate or dry liquid organic materials.
- e. The 3.06 lbs OC /hr and 13.4 tons OC /yr emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop any

additional monitoring, record keeping or reporting requirements to ensure compliance with these emission limitations.

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II. Operational Restrictions

1. The sand throughput for emissions units F001, F002, F003, F004*, and F005* combined shall not exceed 120,000 tons per rolling 12-month period.

* F004 and F005 are 'insignificant' emissions units at this facility - see also Part II of this permit.
[OAC rule 3745-77-07(A)(1)]

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive 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 location and 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 minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

2. The permittee shall collect and record the following information each month for emissions units F001, F002, F003, F004, and F005, combined:

- a. the number of tons of foundry sand throughput;
- b. the total HAP emission rate, in pounds, calculated as follows:

HAP emissions (lbs/month) = (tons of sand throughput) x EF

where EF = 0.102 lb total HAP per ton sand throughput *

* based on OC information supplied by the binder system manufacturer, which was based on Ohio Cast Metals Association test protocol (assume conservatively that all OC is HAP)
[OAC rule 3745-77-07(C)(1)]

3. The permittee shall collect and record the following information regarding HAP emissions each month for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined:

- a. the total HAP emission rate (summation of A.III.2.b, for all emissions units as listed above), in tons; and

- b. the rolling 12-month emissions of total HAPs, in tons.

[OAC rule 3745-77-07(C)(1)]

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IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible fugitive 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.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

2. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month combined HAPs emission limitation of 20.0 tons (for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined).

These reports shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.

[OAC rule 3745-77-07(C)(1)]

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V. **Testing Requirements**

1. Compliance with the emission limitation(s) in section A.I. of the terms and conditions of this permit shall be determined in accordance with the following method(s):
 - a. Emission Limitations:
2.78 lb fugitive PE/hr
12.2 tons fugitive PE/yr

Applicable Compliance Method:
Compliance shall be determined by multiplying the maximum sand throughput rate of 30 tons per hour by an emission factor of 0.3 lb PE /ton (Table 2.7-1 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983), and then multiplying by (1 - 0.7).*

* adjusting for 70% control efficiency for building enclosure, estimated from Table 2.7-8 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983

The annual allowable PE limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, as long as compliance with the hourly limitation is shown, compliance with the annual limitation shall be assumed.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
 - b. Emission Limitations:
1.38 lb fugitive PM10/hr
6.04 tons fugitive PM10/yr

Applicable Compliance Method:
Compliance shall be determined by multiplying the maximum sand throughput rate of 30 tons per hour by an emission factor of 0.045 lb PE /ton (Table 2.7-1 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983 - estimate not more than 15% of PE is PM10).

The annual allowable PM10 limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, as long as compliance with the hourly limitation is shown, compliance with the annual limitation shall be assumed.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
 - c. Emission Limitations:
3.06 lb fugitive OC/hr
13.4 tons fugitive OC/yr

Applicable Compliance Method:
Compliance shall be determined by multiplying the maximum sand throughput rate of 30 tons per hour by an emission factor of 0.102 lb OC /ton (binder system manufacturer emission factor, based on Ohio Cast Metals Association test protocol)

The annual allowable OC limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, as long as compliance with the hourly limitation is shown, compliance with the annual limitation shall be assumed.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
 - d. Emission Limitations:
Visible fugitive PE shall not exceed 20 percent opacity, as a three-minute average.

Applicable Compliance Method:
If required, compliance shall be determined by visible emission evaluations performed in accordance with USEPA Reference Method 9 as set forth in "Appendix A on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraph (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03(B)(3).
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
 - e. Emission Limitations:
20.0 tons per rolling 12-month period for any combination of HAPs (for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined)

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements as specified in sections A.III.2 and 3.
[OAC rule 3745-77-07(C)(1)]

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0306010004 Emissions Unit ID: F002 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Sand / Binder In-line Mixer (Pit-bay)	None	None
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: 0306010004 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

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Facility ID: 0306010004 Emissions Unit ID: F003 Issuance type: Title V Preliminary Proposed 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>
Sand / Binder In-line Mixer (New-bay)	OAC rule 3745-31-05(A)(3) (PTI 03-10079 as modified on January 2, 2007)	2.50 lbs fugitive particulate emissions (PE) /hr, 11.0 tons/yr
		1.24 lbs fugitive particulate matter less than 10 microns (PM10) /hr, 5.43 tons/yr
		2.75 lbs fugitive organic compounds (OC) /hr, 12.1 tons/yr
		Visible fugitive PE shall not exceed 20% opacity, as a three-minute average.
	OAC rule 3745-77-07(B)(1)	8.0 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 20.0 tons per rolling 12-month period for any combination of HAPs [for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined] (See A.I.2.a)
	OAC rule 3745-17-08(B)	none (See A.I.2.b)
	OAC rule 3745-17-07(B)	none (See A.I.2.c)
	OAC rule 3745-21-07	none (See A.I.2.d)

2. Additional Terms and Conditions

- a. The emissions of HAPs from emission units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined, shall not exceed 8.0 tons per year for an individual HAP and 20.0 tons per year for any combination of HAPs, based upon a rolling 12-month summation of the monthly emissions.
- (a) As long as compliance with the input restrictions in Section A.II.1 is maintained, compliance with the 8.0 ton/yr individual HAP limit shall be assumed (based on "CERP Organic HAP Emission Measurements for Iron Foundries and Their Use in Development of an AFS HAP Guidance Document", 2006), i.e. the study shows that individual HAP emissions distribution at iron foundries is such that: where the total combined HAPs are below 20 tons per year, the highest emission of any individual HAP will be below 8 tons per year.

Hazardous Air Pollutant (HAP) means any air pollutant listed in or pursuant to Section 112 (b) of the Clean Air Act.
- b. The emissions unit is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
- c. This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
- d. This emissions unit is not subject to OAC rule 3745-21-07(G)(2) as determined by the Ohio Supreme Court in Ashland Chem. Co. v. Jones (2001), 92 Ohio St.3.d 234, i.e. this emissions unit does not employ, apply, evaporate or dry liquid organic materials.
- e. The 2.75 lbs OC /hr and 12.1 tons OC /yr emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop any additional monitoring, record keeping or reporting requirements to ensure compliance with these emission limitations.

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II. Operational Restrictions

1. The sand throughput for emissions units F001, F002, F003, F004*, and F005* combined shall not exceed 120,000 tons per rolling 12-month period.

* F004 and F005 are 'insignificant' emissions units at this facility - see also Part II of this permit.

[OAC rule 3745-77-07(A)(1)]

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive 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 location and 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 minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
2. The permittee shall collect and record the following information each month for emissions units F001, F002, F003, F004, and F005, combined:
 - a. the number of tons of foundry sand throughput;
 - b. the total HAP emission rate, in pounds, calculated as follows:

$$\text{HAP emissions (lbs/month)} = (\text{tons of sand throughput}) \times \text{EF}$$
 where EF = 0.102 lb total HAP per ton sand throughput *

* based on OC information supplied by the binder system manufacturer, which was based on Ohio Cast Metals Association test protocol (assume conservatively that all OC is HAP)
[OAC rule 3745-77-07(C)(1)]
3. The permittee shall collect and record the following information regarding HAP emissions each month for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined:
 - a. the total HAP emission rate (summation of A.III.2.b, for all emissions units as listed above), in tons; and
 - b. the rolling 12-month emissions of total HAPs, in tons.
[OAC rule 3745-77-07(C)(1)]

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IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible fugitive 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.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
2. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month combined HAPs emission limitation of 20.0 tons (for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined).

These reports shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.
[OAC rule 3745-77-07(C)(1)]

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V. Testing Requirements

1. Compliance with the emission limitation(s) in section A.I. of the terms and conditions of this permit shall be determined in accordance with the following method(s):
 - a. Emission Limitations:
 2.50 lb fugitive PE/hr
 11.0 tons fugitive PE/yr

Applicable Compliance Method:

Compliance shall be determined by multiplying the maximum sand throughput rate of 27 tons per hour by an emission factor of 0.3 lb PE /ton (Table 2.7-1 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983), and then multiplying by (1 - 0.7).*

* adjusting for 70% control efficiency for building enclosure, estimated from Table 2.7-8 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983

The annual allowable PE limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, as long as compliance with the hourly limitation is shown, compliance with the annual limitation shall be assumed.

[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

b. Emission Limitations:

1.24 lb fugitive PM10/hr
5.43 tons fugitive PM10/yr

Applicable Compliance Method:

Compliance shall be determined by multiplying the maximum sand throughput rate of 27 tons per hour by an emission factor of 0.045 lb PE /ton (Table 2.7-1 of Ohio EPA Reasonably Available Control Measures (RACM) for Fugitive Dust Sources, August 1983 - estimate not more than 15% of PE is PM10).

The annual allowable PM10 limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, as long as compliance with the hourly limitation is shown, compliance with the annual limitation shall be assumed.

[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

c. Emission Limitations:

2.75 lb fugitive OC/hr
12.1 tons fugitive OC/yr

Applicable Compliance Method:

Compliance shall be determined by multiplying the maximum sand throughput rate of 27 tons per hour by an emission factor of 0.102 lb OC /ton (binder system manufacturer emission factor, based on Ohio Cast Metals Association test protocol)

The annual allowable OC limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, as long as compliance with the hourly limitation is shown, compliance with the annual limitation shall be assumed.

[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

d. Emission Limitations:

Visible fugitive PE shall not exceed 20 percent opacity, as a three-minute average.

Applicable Compliance Method:

If required, compliance shall be determined by visible emission evaluations performed in accordance with USEPA Reference Method 9 as set forth in "Appendix A on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraph (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03(B)(3).

[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

e. Emission Limitations:

20.0 tons per rolling 12-month period for any combination of HAPs (for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined)

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements as specified in A.III.2 and 3.

[OAC rule 3745-77-07(C)(1)]

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0306010004 Emissions Unit ID: F003 Issuance type: Title V Preliminary Proposed 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Sand / Binder In-line Mixer (New-bay)	None	None
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: 0306010004 Emissions Unit ID: F007 Issuance type: Title V Preliminary Proposed 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 (for induction furnaces)	OAC rule 3745-17-08(B) OAC rule 3745-17-07(B)	none (See A.I.2.a) none (See A.I.2.b)
2. Additional Terms and Conditions		
a.	The emissions unit is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).	
b.	This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).	

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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: 0306010004 Emissions Unit ID: F007 Issuance type: Title V Preliminary Proposed 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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- a. The emissions of HAPs from emission units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined, shall not exceed 8.0 tons per year for an individual HAP and 20.0 tons per year for any combination of HAPs, based upon a rolling 12-month summation of the monthly emissions.
- (a)
- As long as compliance with the input restrictions in Section A.II.1 is maintained, compliance with the 8.0 ton/yr individual HAP limit shall be assumed (based on "CERP Organic HAP Emission Measurements for Iron Foundries and Their Use in Development of an AFS HAP Guidance Document", 2006), i.e. the study shows that individual HAP emissions distribution at iron foundries is such that: where the total combined HAPs are below 20 tons per year, the highest emission of any individual HAP will be below 8 tons per year.
- Hazardous Air Pollutant (HAP) means any air pollutant listed in or pursuant to Section 112 (b) of the Clean Air Act.
- b. The emissions unit is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
 - c. This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(1)(e).
 - d. This facility is not located in a "Priority I" county (it is located in Auglaize County) as indicated in paragraph (A) of OAC rule 3745-21-06, and is not a "new source". Therefore, pursuant to OAC rule 3745-21-07(A), it is exempt from the requirements of OAC rule 3745-21-07.

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II. Operational Restrictions

1. The iron throughput for emissions units F008 and F009 combined shall not exceed 14,400 tons per rolling 12-month period.
[OAC rule 3745-77-07(A)(1)]

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each month for emissions units F008 and F009 combined:
 - a. the number of tons of molten iron throughput;
 - b. the total HAP emission rate, in pounds, calculated as follows:

$$\text{HAP emissions (lbs/month)} = (\text{tons of iron throughput}) \times \text{EF}$$
 where EF = 1.08 lb total HAP per ton iron throughput *

 * American Foundry Society Paper 06-031(10), Table 2 (2001)
 [OAC rule 3745-77-07(C)(1)]
2. The permittee shall collect and record the following information regarding HAP emissions each month for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined:
 - a. the total HAP emission rate (summation of A.III.1.b, for all emissions units as listed above), in tons; and
 - b. the rolling 12-month emissions of total HAPs, in tons.
[OAC rule 3745-77-07(C)(1)]

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month combined HAPs emission limitation of 20.0 tons (for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined).

 These reports shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.
 [OAC rules 3745-77-07(C)(1)]

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V. Testing Requirements

1. Compliance with the emission limitation(s) in section A.I. of the terms and conditions of this permit shall be

determined in accordance with the following method(s):

Emission Limitations:
 20.0 tons per rolling 12-month period for any combination of HAPs (for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined)

Applicable Compliance Method:
 Compliance shall be based upon the record keeping requirements as specified in sections A.III.
 [OAC rule 3745-77-07(C)(1)]

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0306010004 Emissions Unit ID: F008 Issuance type: Title V Preliminary Proposed 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	None	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: 0306010004 Emissions Unit ID: F009 Issuance type: Title V Preliminary Proposed 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>
Iron Pouring and Cooling (New-bay)	OAC rule 3745-77-07(B)(1)	8.0 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 20.0 tons per rolling 12-month period for any combination of HAPs [for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined] (See A.I.2.a)
	OAC rule 3745-17-08(B)	none (See A.I.2.b)
	OAC rule 3745-17-07(B)	none (See A.I.2.c)
	OAC rule 3745-21-07	none (See A.I.2.d)

2. **Additional Terms and Conditions**

- a. The emissions of HAPs from emission units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined, shall not exceed 8.0 tons per year for an individual HAP and 20.0 tons per year for any combination of HAPs, based upon a rolling 12-month summation of the monthly emissions.
 - (a) As long as compliance with the input restrictions in Section A.II.1 is maintained, compliance with the 8.0 ton/yr individual HAP limit shall be assumed (based on "CERP Organic HAP Emission Measurements for Iron Foundries and Their Use in Development of an AFS HAP Guidance Document", 2006), i.e. the study shows that individual HAP emissions distribution at iron foundries is such that: where the total combined HAPs are below 20 tons per year, the highest emission of any individual HAP will be below 8 tons per year.

Hazardous Air Pollutant (HAP) means any air pollutant listed in or pursuant to Section 112 (b) of the Clean Air Act.
- b. The emissions unit is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
- c. This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
- d. This facility is not located in a "Priority I" county (it is located in Auglaize County) as indicated in paragraph (A) of OAC rule 3745-21-06, and is not a "new source". Therefore, pursuant to OAC rule 3745-21-07(A), it is exempt from the requirements of OAC rule 3745-21-07.

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II. **Operational Restrictions**

1. The iron throughput for emissions units F008 and F009 combined shall not exceed 14,400 tons per rolling 12-month period.

[OAC rule 3745-77-07(A)(1)]

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

1. The permittee shall collect and record the following information each month for emissions units F008 and F009 combined:
 - a. the number of tons of molten iron throughput;
 - b. the total HAP emission rate, in pounds, calculated as follows:
HAP emissions (lbs/month) = (tons of iron throughput) x EF
where EF = 1.08 lb total HAP per ton iron throughput *
* American Foundry Society Paper 06-031(10), Table 2 (2001)
[OAC rule 3745-77-07(C)(1)]
2. The permittee shall collect and record the following information regarding HAP emissions each month for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined:
 - a. the total HAP emission rate (summation of A.III.1.b, for all emissions units as listed above), in tons; and
 - b. the rolling 12-month emissions of total HAPs, in tons.
[OAC rule 3745-77-07(C)(1)]

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IV. **Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month combined HAPs emission limitation of 20.0 tons (for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined).

These reports shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.
[OAC rules 3745-77-07(C)(1)]

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V. **Testing Requirements**

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

Emission Limitations:
20.0 tons per rolling 12-month period for any combination of HAPs (for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined)

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements as specified in sections A.III.
[OAC rule 3745-77-07(C)(1)]

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0306010004 Emissions Unit ID: F009 Issuance type: Title V Preliminary Proposed 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>
Iron Pouring and Cooling (New-bay)	None	None
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: 0306010004 Emissions Unit ID: F010 Issuance type: Title V Preliminary Proposed 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>
---	--------------------------------------	--

- | | | |
|---|---------------------------|--|
| Inoculation (for ductile iron) | OAC rule 3745-77-07(B)(1) | 8.0 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 20.0 tons per rolling 12-month period for any combination of HAPs [for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined] (See A.I.2.a) |
| | OAC rule 3745-17-08(B) | none (See A.I.2.b) |
| 2. Additional Terms and Conditions | OAC rule 3745-17-07(B) | none (See A.I.2.c) |
- a. The emissions of HAPs from emission units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined, shall not exceed 8.0 tons per year for an individual HAP and 20.0 tons per year for any combination of HAPs, based upon a rolling 12-month summation of the monthly emissions.
- (a) As long as compliance with the input restrictions in Section A.II.1 is maintained, compliance with the 8.0 ton/yr individual HAP limit shall be assumed (based on "CERP Organic HAP Emission Measurements for Iron Foundries and Their Use in Development of an AFS HAP Guidance Document", 2006), i.e. the study shows that individual HAP emissions distribution at iron foundries is such that: where the total combined HAPs are below 20 tons per year, the highest emission of any individual HAP will be below 8 tons per year.
- Hazardous Air Pollutant (HAP) means any air pollutant listed in or pursuant to Section 112 (b) of the Clean Air Act.
- b. The emissions unit is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
- c. This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(1)(e).

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II. Operational Restrictions

1. The iron throughput for this emissions unit shall not exceed 10,800 tons per rolling 12-month period.
[OAC rule 3745-77-07(A)(1)]

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each month for this emissions unit:
- a. the number of tons of molten iron throughput;
- b. the total HAP emission rate, in pounds, calculated as follows:
- HAP emissions (lbs/month) = (tons of iron throughput) x EF
- where EF = 0.05 lb total HAP per ton iron throughput *
- * American Foundry Society Paper 06-031(10), Table 2 (2001)
[OAC rule 3745-77-07(C)(1)]
2. The permittee shall collect and record the following information regarding HAP emissions each month for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined:
- a. the total HAP emission rate (summation of A.III.1.b, for all emissions units as listed above), in tons; and
- b. the rolling 12-month emissions of total HAPs, in tons.
[OAC rule 3745-77-07(C)(1)]

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month combined HAPs emission limitation of 20.0 tons (for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined).
- These reports shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.
[OAC rules 3745-77-07(C)(1)]

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V. **Testing Requirements**

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

Emission Limitations:

20.0 tons per rolling 12-month period for any combination of HAPs (for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined)

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements as specified in sections A.III. [OAC rule 3745-77-07(C)(1)]

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0306010004 Emissions Unit ID: F010 Issuance type: Title V Preliminary Proposed 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>
Inoculation (for ductile iron)	None	None
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: 0306010004 Emissions Unit ID: F012 Issuance type: Title V Preliminary Proposed 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 (Furnace 1)	OAC rule 3745-31-05(A)(3) (PTI 03-677 issued July 24, 1978)	none (See A.I.2.a)
	OAC rule 3745-77-07(B)(1)	8.0 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 20.0 tons per rolling 12-month period for any combination of HAPs [for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined] (See A.I.2.b)
	OAC rule 3745-17-08(B)	none (See A.I.2.c)
	OAC rule 3745-17-07(B)	none (See A.I.2.d)

2. **Additional Terms and Conditions**

- a. No specific Best Available Technology (BAT) requirements or emission limitations were established in this Permit to install for this emissions unit.
- b. The emissions of HAPs from emission units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined, shall not exceed 8.0 tons per year for an individual HAP and 20.0 tons per year for any combination of HAPs, based upon a rolling 12-month summation of the monthly emissions.

As long as compliance with the input restrictions in Section A.II.1 is maintained, compliance with the 8.0 ton/yr individual HAP limit shall be assumed (based on "CERP Organic HAP Emission Measurements for Iron Foundries and Their Use in Development of an AFS HAP Guidance Document", 2006), i.e. the study shows that individual HAP emissions distribution at iron foundries is such that: where the total combined HAPs are below 20 tons per year, the highest emission of any individual HAP will be below 8 tons per year.

Hazardous Air Pollutant (HAP) means any air pollutant listed in or pursuant to Section 112 (b) of the Clean Air Act.

- c. The emissions unit is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
- d. This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).

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II. **Operational Restrictions**

1. The iron throughput for emissions units F012, F013, F015, and F016 combined shall not exceed 14,400 tons per rolling 12-month period.
[OAC rule 3745-77-07(A)(1)]

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each month for emissions units F012, F013, F015, and F016, combined:
 - a. the number of tons of foundry sand throughput;
 - b. the total HAP emission rate, in pounds, calculated as follows:

 HAP emissions (lbs/month) = (tons of sand throughput) x EF
 where EF = 0.04 lb total HAP per ton iron throughput *

 * American Foundry Society Paper 06-031(10), Table 2 (2001)
 [OAC rule 3745-77-07(C)(1)]
2. The permittee shall collect and record the following information regarding HAP emissions each month for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined:
 - a. the total HAP emission rate (summation of A.III.1.b, for all emissions units as listed above), in tons; and
 - b. the rolling 12-month emissions of total HAPs, in tons.
[OAC rule 3745-77-07(C)(1)]

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month combined HAPs emission limitation of 20.0 tons (for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined).

 These reports shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.
[OAC rules 3745-77-07(C)(1)]

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V. Testing Requirements

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

 Emission Limitations:
 20.0 tons per rolling 12-month period for any combination of HAPs (for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined)

 Applicable Compliance Method:
 Compliance shall be based upon the record keeping requirements as specified in sections A.III.
[OAC rule 3745-77-07(C)(1)]

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0306010004 Emissions Unit ID: F012 Issuance type: Title V Preliminary Proposed 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>
Electric Induction Furnace (Furnace 1)	None	None

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: 0306010004 Emissions Unit ID: F013 Issuance type: Title V Preliminary Proposed 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 (Furnace 2)	OAC rule 3745-31-05(A)(3) (PTI 03-677 issued July 24, 1978) OAC rule 3745-77-07(B)(1)	none (See A.I.2.a) 8.0 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 20.0 tons per rolling 12-month period for any combination of HAPs [for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined] (See A.I.2.b)
	OAC rule 3745-17-08(B)	none (See A.I.2.c)
	OAC rule 3745-17-07(B)	none (See A.I.2.d)

2. Additional Terms and Conditions

- a. No specific Best Available Technology (BAT) requirements or emission limitations were established in this Permit to Install for this emissions unit.
- b. The emissions of HAPs from emission units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined, shall not exceed 8.0 tons per year for an individual HAP and 20.0 tons per year for any combination of HAPs, based upon a rolling 12-month summation of the monthly emissions.

As long as compliance with the input restrictions in Section A.II.1 is maintained, compliance with the 8.0 ton/yr individual HAP limit shall be assumed (based on "CERP Organic HAP Emission Measurements for Iron Foundries and Their Use in Development of an AFS HAP Guidance Document", 2006), i.e. the study shows that individual HAP emissions distribution at iron foundries is such that: where the total combined HAPs are below 20 tons per year, the highest emission of any individual HAP will be below 8 tons per year.

Hazardous Air Pollutant (HAP) means any air pollutant listed in or pursuant to Section 112 (b) of the Clean Air Act.
- c. The emissions unit is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
- d. This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(1)(e).

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II. Operational Restrictions

- 1. The iron throughput for emissions units F012, F013, F015, and F016 combined shall not exceed 14,400 tons per rolling 12-month period.
[OAC rule 3745-77-07(A)(1)]

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III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall collect and record the following information each month for emissions units F012, F013, F015, and F016, combined:
 - a. the number of tons of foundry sand throughput;
 - b. the total HAP emission rate, in pounds, calculated as follows:

HAP emissions (lbs/month) = (tons of sand throughput) x EF
where EF = 0.04 lb total HAP per ton iron throughput *

* American Foundry Society Paper 06-031(10), Table 2 (2001)
[OAC rule 3745-77-07(C)(1)]
- 2. The permittee shall collect and record the following information regarding HAP emissions each month for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined:
 - a. the total HAP emission rate (summation of A.III.1.b, for all emissions units as listed above), in tons; and
 - b. the rolling 12-month emissions of total HAPs, in tons.
[OAC rule 3745-77-07(C)(1)]

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IV. Reporting Requirements

- 1. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month combined HAPs emission limitation of 20.0 tons (for emissions units F001, F002, F003, F008,

F009, F010, F012, F013, F015, and F016, combined).

These reports shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.
[OAC rules 3745-77-07(C)(1)]

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V. **Testing Requirements**

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

Emission Limitations:
20.0 tons per rolling 12-month period for any combination of HAPs (for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined)

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements as specified in sections A.III.
[OAC rule 3745-77-07(C)(1)]

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0306010004 Emissions Unit ID: F013 Issuance type: Title V Preliminary Proposed 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	None	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: 0306010004 Emissions Unit ID: F015 Issuance type: Title V Preliminary Proposed 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 (Furnace A)	OAC rule 3745-31-05(A)(3) (PTI 03-14073 issued October 28, 2003)	5.62 ton fugitive particulate emissions (PE) /yr (for emissions units F015 and F016 combined)
		0.62 ton fugitive lead emissions (Pb) /yr (for emissions units F015 and F016 combined)
	OAC rule 3745-77-07(B)(1)	Visible fugitive PE shall not exceed 20% opacity, as a three-minute average. 8.0 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 20.0 tons per rolling 12-month period for any combination of HAPs [for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined] (See A.I.2.a)
	OAC rule 3745-17-08(B)	none (See A.I.2.b)
	OAC rule 3745-17-07(B)	none (See A.I.2.c)

2. Additional Terms and Conditions

- a. The emissions of HAPs from emission units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined, shall not exceed 8.0 tons per year for an individual HAP and 20.0 tons per year for any combination of HAPs, based upon a rolling 12-month summation of the monthly emissions.
- (a) As long as compliance with the input restrictions in Section A.II.1 is maintained, compliance with the 8.0 ton/yr individual HAP limit shall be assumed (based on "CERP Organic HAP Emission Measurements for Iron Foundries and Their Use in Development of an AFS HAP Guidance Document", 2006), i.e. the study shows that individual HAP emissions distribution at iron foundries is such that: where the total combined HAPs are below 20 tons per year, the highest emission of any individual HAP will be below 8 tons per year.

Hazardous Air Pollutant (HAP) means any air pollutant listed in or pursuant to Section 112 (b) of the Clean Air Act.

- b. The emissions unit is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
- c. This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
- d. All PE is conservatively assumed to be PM10.

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II. Operational Restrictions

- 1. The iron throughput for emissions units F012, F013, F015, and F016 combined shall not exceed 14,400 tons per rolling 12-month period.
[OAC rule 3745-77-07(A)(1)]
- 2. The iron throughput for emissions units F015 and F016 combined shall not exceed 12,500 tons per calendar year.
[OAC rule 3745-77-07(A)(1), and 3745-31-05(A)(3)]
- 3. The permittee shall only process "clean" raw materials in this emissions unit (i.e., free of oils, greases, solvents etc.).
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III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive 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 location and 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 minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
- 2. The permittee shall collect and record the following information each month for emissions units F012, F013, F015, and F016, combined:
 - a. the number of tons of foundry sand throughput;
 - b. the total HAP (organic) emission rate, in pounds, calculated as follows:

$$\text{HAP emissions (lbs/month)} = (\text{tons of sand throughput}) \times \text{EF}$$
 where EF = 0.04 lb total HAP per ton iron throughput *

* American Foundry Society Paper 06-031(10), Table 2 (2001)
[OAC rule 3745-77-07(C)(1)]
- 3. The permittee shall collect and record the following information each month for emissions units F015 and F016, combined:
 - a. the number of tons of foundry sand throughput;
 - b. the total HAP (Pb) emission rate, in pounds, calculated as follows:

$$\text{HAP emissions (lbs/month)} = (\text{tons of sand throughput}) \times \text{EF}$$
 where EF = 0.1 lb total HAP per ton iron throughput *

* US EPA AP-42, Table 12.10-5, January 1995
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
- 4. The permittee shall collect and record the following information regarding HAP emissions each month for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined:
 - a. the total HAP emission rate (summation of: A.III.2.b, for all emissions units as listed above; and A.III.3.b,

for F015 and F016), in tons; and

- b. the rolling 12-month emissions of total HAPs, in tons.
[OAC rule 3745-77-07(C)(1)]
5. The permittee shall maintain records documenting each day during which the processing of materials other than "clean" raw materials occurred.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

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IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible fugitive 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.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
2. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month combined HAPs emission limitation of 20.0 tons (for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined).

These reports shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.
[OAC rules 3745-77-07(C)(1)]
3. The permittee shall submit annual deviation (excursion) reports which identify all exceedances of the production limit of 12,500 tons (for emissions units F015 and F016 combined).

These reports shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
4. The permittee shall notify the Northwest District Office in writing of any record showing the processing of materials other than "clean" raw materials specified in section B.2. The notification shall include a copy of such record and shall be sent to the Northwest District Office within 45 days after the exceedance occurs.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

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V. Testing Requirements

1. Compliance with the emission limitation(s) in section A.I. of the terms and conditions of this permit shall be determined in accordance with the following method(s):
 - a. Emission Limitations:
5.62 tons fugitive PE/yr (for emissions units F015 and F016 combined)

Applicable Compliance Method:
The emission limitations were established by multiplying the annual iron throughput limit of 12,500 tons per year by the appropriate emission factor of 0.9 lb PE per ton of iron production (US EPA AP-42, Table 12.10-3, January 1995) and dividing by 2000 lbs/ton.

Therefore, provided compliance is shown with the iron throughput restriction, compliance with the ton per year PE limitation will be assumed.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
 - b. Emission Limitations:
0.62 tons fugitive PE/yr (for emissions units F015 and F016 combined)

Applicable Compliance Method:
The emission limitations were established by multiplying the annual iron throughput limit of 12,500 tons per year by the appropriate emission factor of 0.1 lb Pb per ton of iron production (US EPA AP-42, Table 12.10-5, January 1995) and dividing by 2000 lbs/ton.

Therefore, provided compliance is shown with the iron throughput restriction, compliance with the ton per year Pb limitation will be assumed.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
 - c. Emission Limitations:
Visible fugitive PE shall not exceed 20 percent opacity, as a three-minute average.

Applicable Compliance Method:
If required, compliance shall be determined by visible emission evaluations performed in accordance with USEPA Reference Method 9 as set forth in "Appendix A on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraph (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03(B)(3).
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

- d. Emission Limitations:
20.0 tons per rolling 12-month period for any combination of HAPs for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined
- Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements as specified in sections A.III.2, 3, and 4.
[OAC rule 3745-77-07(C)(1)]

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0306010004 Emissions Unit ID: F015 Issuance type: Title V Preliminary Proposed 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.	Electric Induction Furnace (Furnace A)	None	None
	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: 0306010004 Emissions Unit ID: F016 Issuance type: Title V Preliminary Proposed 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 (Furnace B)	OAC rule 3745-31-05(A)(3) (PTI 03-14073 issued October 28, 2003)	5.62 ton fugitive particulate emissions (PE) /yr (for emissions units F015 and F016 combined)
		0.62 ton fugitive lead emissions (Pb) /yr (for emissions units F015 and F016 combined)
		Visible fugitive PE shall not exceed 20% opacity, as a three-minute average.
	OAC rule 3745-77-07(B)(1)	8.0 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 20.0 tons per rolling 12-month period for any combination of HAPs [for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined] (See A.I.2.a)
	OAC rule 3745-17-08(B)	none (See A.I.2.b)
	OAC rule 3745-17-07(B)	none (See A.I.2.c)

2. Additional Terms and Conditions

- a. The emissions of HAPs from emission units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined, shall not exceed 8.0 tons per year for an individual HAP and 20.0 tons per year for any combination of HAPs, based upon a rolling 12-month summation of the monthly emissions.
- (a) As long as compliance with the input restrictions in Section A.II.1 is maintained, compliance with the 8.0 ton/yr individual HAP limit shall be assumed (based on "CERP Organic HAP Emission Measurements for Iron Foundries and Their Use in Development of an AFS HAP Guidance Document", 2006), i.e. the study shows that individual HAP emissions distribution at iron foundries is such that: where the total combined HAPs are below 20 tons per year, the highest emission of any individual HAP will be below 8 tons per year.

Hazardous Air Pollutant (HAP) means any air pollutant listed in or pursuant to Section 112 (b) of the Clean Air Act.
- b. The emissions unit is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
- c. This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
- d. All PE is conservatively assumed to be PM10.

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II. Operational Restrictions

1. The iron throughput for emissions units F012, F013, F015, and F016 combined shall not exceed 14,400 tons per rolling 12-month period.
[OAC rule 3745-77-07(A)(1)]
2. The iron throughput for emissions units F015 and F016 combined shall not exceed 12,500 tons per calendar year.
[OAC rule 3745-77-07(A)(1), and 3745-31-05(A)(3)]
3. The permittee shall only process "clean" raw materials in this emissions unit (i.e., free of oils, greases, solvents etc.).
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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible fugitive 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 location and 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 minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
2. The permittee shall collect and record the following information each month for emissions units F012, F013, F015, and F016, combined:
 - a. the number of tons of foundry sand throughput;
 - b. the total HAP (organic) emission rate, in pounds, calculated as follows:

$$\text{HAP emissions (lbs/month)} = (\text{tons of sand throughput}) \times \text{EF}$$
 where EF = 0.04 lb total HAP per ton iron throughput *

 * American Foundry Society Paper 06-031(10), Table 2 (2001)
[OAC rule 3745-77-07(C)(1)]
3. The permittee shall collect and record the following information each month for emissions units F015 and F016, combined:
 - a. the number of tons of foundry sand throughput;
 - b. the total HAP (Pb) emission rate, in pounds, calculated as follows:

$$\text{HAP emissions (lbs/month)} = (\text{tons of sand throughput}) \times \text{EF}$$
 where EF = 0.1 lb total HAP per ton iron throughput *

 * US EPA AP-42, Table 12.10-5, January 1995
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
4. The permittee shall collect and record the following information regarding HAP emissions each month for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined:
 - a. the total HAP emission rate (summation of: A.III.2.b, for all emissions units as listed above; and A.III.3.b, for F015 and F016), in tons; and
 - b. the rolling 12-month emissions of total HAPs, in tons.
[OAC rule 3745-77-07(C)(1)]
5. The permittee shall maintain records documenting each day during which the processing of materials other than "clean" raw materials occurred.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

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IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible fugitive 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.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
2. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month combined HAPs emission limitation of 20.0 tons (for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined).

These reports shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.
[OAC rule 3745-77-07(C)(1)]
3. The permittee shall submit annual deviation (excursion) reports which identify all exceedances of the production limit of 12,500 tons (for emissions units F015 and F016 combined).

These reports shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
4. The permittee shall notify the Northwest District Office in writing of any record showing the processing of materials other than "clean" raw materials specified in section B.2. The notification shall include a copy of such record and shall be sent to the Northwest District Office within 45 days after the exceedance occurs.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

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V. Testing Requirements

1. Compliance with the emission limitation(s) in section A.I. of the terms and conditions of this permit shall be determined in accordance with the following method(s):
 - a. Emission Limitations:
5.62 tons fugitive PE/yr (for emissions units F015 and F016 combined)

Applicable Compliance Method:
The emission limitations were established by multiplying the annual iron throughput limit of 12,500 tons per year by the appropriate emission factor of 0.9 lb PE per ton of iron production (US EPA AP-42, Table 12.10-3, January 1995) and dividing by 2000 lbs/ton.

Therefore, provided compliance is shown with the iron throughput restriction, compliance with the ton per year PE limitation will be assumed.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
 - b. Emission Limitations:
0.62 tons fugitive PE/yr (for emissions units F015 and F016 combined)

Applicable Compliance Method:
The emission limitations were established by multiplying the annual iron throughput limit of 12,500 tons per year by the appropriate emission factor of 0.1 lb Pb per ton of iron production (US EPA AP-42, Table 12.10-5, January 1995) and dividing by 2000 lbs/ton.

Therefore, provided compliance is shown with the iron throughput restriction, compliance with the ton per year Pb limitation will be assumed.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
 - c. Emission Limitations:
Visible fugitive PE shall not exceed 20 percent opacity, as a three-minute average.

Applicable Compliance Method:
If required, compliance shall be determined by visible emission evaluations performed in accordance with USEPA Reference Method 9 as set forth in "Appendix A on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraph (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03(B)(3).
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
 - d. Emission Limitations:
20.0 tons per rolling 12-month period for any combination of HAPs for emissions units F001, F002, F003, F008, F009, F010, F012, F013, F015, and F016, combined

Applicable Compliance Method:
Compliance shall be based upon the record keeping requirements as specified in sections A.III.2, 3, and 4.
[OAC rule 3745-77-07(C)(1)]

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0306010004 Emissions Unit ID: F016 Issuance type: Title V Preliminary Proposed 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>
Electric Induction Furnace (Furnace B)	None	None

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: 0306010004 Emissions Unit ID: P002 Issuance type: Title V Preliminary Proposed 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>
Shake-out Deck (with baghouse)	OAC rule 3745-17-11(B)(2) OAC rule 3745-17-07(A) 40 CFR 64	8.24 lbs particulate emissions (PE)/hr Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule. See Sections A.III and A.IV.

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

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicators for the baghouse controlling this emissions unit are the static pressure drop across the baghouse, which was established in accordance with the manufacturer's recommendations, and visible emissions checks. When the static pressure drop or visible emissions show operation outside the indicator range(s), the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions, and shall comply with the reporting requirements specified in Section A.IV below. The emissions unit and control equipment shall be operated in accordance with the approved CAM Plan, or any approved revision of the Plan. The baghouse shall not be configured to have bypass capability.
[OAC 3745-77-07(A)(3)(a) and (b), 40 CFR 64.3(a), 64.6(c), 64.7(d), and 64.8]
- 2. Baghouse operating parameters shall be re-verified as a result of any changes to the operating conditions of the baghouse or emissions unit. In addition to periodic monitoring of the baghouse operating parameters, the permittee also has an inspection and maintenance program for the baghouse, including but not limited to:
 - a. checking the bags / filters for deterioration or degradation;
 - b. checking the cleaning system for proper operation; and
 - c. checking the hoppers and conveyance systems for proper operation.

Based on the results of the monitoring and inspection program, repairs to the baghouse shall be made as needed. If the current CAM indicators and/or the baghouse inspection program is considered inadequate, the permittee shall develop a Quality Improvement Plan.
[OAC 3745-77-07(A)(3)(a) and (b), 40 CFR 64.3(a), 64.6(c), 64.7(d), and 64.8]
- 3. At all times, the permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.
[OAC 3745-77-07(C)(1) and 40 CFR 64.7(b)]
- 4. If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance, the permittee shall promptly notify the appropriate Ohio EPA District Office or local air agency, and if necessary, submit a proposed modification to the Title V permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, re-establishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional

parameters.

[OAC 3745-77-07(C)(1) and 40 CFR 64.7(e)]

5. The permittee shall properly operate and maintain equipment to continuously monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s).

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

- a. the static pressure drop across the baghouse, in inches of water; and
- b. the operating times for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

[OAC 3745-77-07(C)(1), 40 CFR 64.3(a)(2), and 40 CFR 64.7(b)]

6. Whenever the monitored values for the pressure drop deviates from the range specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the date and time the deviation began and the magnitude of the deviation at that time, the date(s) the investigation was conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the pressure drop immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The pressure drop across the baghouse shall be maintained within the range of 6 to 10 inches of water while the emissions unit is in operation.

This range is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the range(s) based upon information obtained during future particulate emission tests that demonstrate compliance with the allowable particulate emission rate for this emissions unit. In addition, approved revisions to the ranges will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor modification.

[OAC 3745-77-07(C)(1), 40 CFR 64.3(a)(2), and 40 CFR 64.7(b)]

7. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. 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 minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

[OAC 3745-77-07(C)(1) and 40 CFR 64.3]

8. The permittee shall maintain a supply of replacement parts necessary to ensure ongoing proper operation of the baghouse system, including, but not limited to:

- a. filter bags;
- b. timing boards and solenoid coils (for blow down function);
- c. diaphragms and diaphragm seal kits;
- d. spare set of belts; and
- e. spare bearings for blower motor.

[OAC rule 3745-77-07(C)(1) and 40 CFR 64.7(d)]

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IV. Reporting Requirements

1. The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:

- a. each period of time when the pressure drop across the baghouse was outside the acceptable range;
- b. an identification of each incident of deviation described in (a) above where a prompt investigation was not

conducted;

c. an identification of each incident of deviation described in (a) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and

d. an identification of each incident of deviation described in (a) where proper records were not maintained for the investigation and/or the corrective action.

These quarterly reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

[OAC 3745-77-07(C)(1), 40 CFR 64.7(d), 40 CFR 64.3(a), and 40 CFR 64.9(b)]

2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to minimize or 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.
[OAC 3745-77-07(C)(1) and 40 CFR 64.9]

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V. Testing Requirements

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

- a. Emission Limitation:
8.24 lb PE/hr

Applicable Compliance Method:

The permittee shall demonstrate compliance with the emission limitation above based upon the results of emissions testing required in section A.V.2.

[OAC rule 3745-77-07(C)(1)]

- b. Emission Limitation:
Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance with the visible PE limitation shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(1).

[OAC rule 3745-77-07(C)(1)]

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

a. The emission testing shall be conducted approximately 2.5 years after permit issuance.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for PE.

c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate: Methods 1 through 5 of 40 CFR, Part 60, Appendix A

d. The emission testing shall be conducted while this emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the Director (the Ohio EPA, Northwest District Office).

[OAC rule 3745-77-07(C)(1)]

3. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Director (the Ohio EPA, Northwest 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 Director (the Ohio EPA, Northwest District Office's) refusal to accept the results of the emission test(s).

Personnel from the Director (the Ohio EPA, Northwest 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 Director (the Ohio EPA, Northwest 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 Director (the Ohio EPA, Northwest District Office).

[OAC rule 3745-77-07(C)(1)]

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 0306010004 Emissions Unit ID: P002 Issuance type: Title V Preliminary Proposed 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. Shake-out Deck (with baghouse)	None	None
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: 0306010004 Emissions Unit ID: P009 Issuance type: Title V Preliminary Proposed 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>
Abrasive Blasting Unit (Tableblast) - with baghouse	OAC rule 3745-17-11(B)(2)	9.96 lbs particulate emissions (PE)/hr
	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

2. Additional Terms and Conditions

- (a) None

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse(s) during operation of this emissions unit. 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, in inches of water, across the baghouse on a weekly basis.

Whenever the monitored value for the pressure drop deviates from the range specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the date and time the deviation began and the magnitude of the deviation at that time, the date(s) the investigation was conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range(s) specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the pressure drop readings immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The acceptable range for the pressure drop across the baghouse is 3 to 6 inches of water.

This range(s) is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the range(s) based upon information obtained during future particulate emission tests that demonstrate compliance with the allowable particulate emission rate for this emissions unit. In addition, approved revisions to the range(s) will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a 'minor' permit modification.

[OAC rule 3745-77-07(C)(1)]

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IV. Reporting Requirements

1. The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:
 - a. each period of time when the pressure drop across the baghouse(s) was outside the acceptable range (s);

- b. an identification of each incident of deviation described in (a) above where a prompt investigation was not conducted;
- c. an identification of each incident of deviation described in (a) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range(s), was determined to be necessary and was not taken; and
- d. an identification of each incident of deviation described in (a) where proper records were not maintained for the investigation and/or the corrective action.

These quarterly reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.
[OAC rule 3745-77-07(C)(1)]

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V. **Testing Requirements**

- 1. Compliance with the emission limitation(s) in section A.I. of the terms and conditions of this permit shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
9.96 lb PE/hr

Applicable Compliance Method:
Compliance may be determined by multiplying the maximum process weight rate (4.1 tons cast iron/hr) by an emission factor of 17 lb PE /ton iron (AP-42 Table 12.10-7, January 1995) and a control factor of (1 - 0.99), i.e. 99 percent control for use of a baghouse.

If required, the permittee shall demonstrate compliance with the hourly emission limitation in accordance with OAC rule 3745-17-03(B)(10).
[OAC rule 3745-77-07(C)(1)]
 - b. Emission Limitation:
Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:
If required, compliance with the visible PE limitation shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(1).
[OAC rule 3745-77-07(C)(1)]

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0306010004 Emissions Unit ID: P009 Issuance type: Title V Preliminary Proposed 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>
Abrasive Blasting Unit (Tableblast) - with baghouse	None	None

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: 0306010004 Emissions Unit ID: P011 Issuance type: Title V Preliminary Proposed 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>
Sand Storage and Transfer (with baghouse)	OAC rule 3745-17-11(B)(2)	10.4 lbs particulate emissions (PE)/hr
	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
	40 CFR 64	See Sections A.III and A.IV.

2. **Additional Terms and Conditions**

- (a) None

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicators for the baghouse controlling this emissions unit are the static pressure drop across the baghouse, which was established in accordance with the manufacturer's recommendations, and visible emissions checks. When the static pressure drop or visible emissions show operation outside the indicator range(s), the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions, and shall comply with the reporting requirements specified in Section A.IV below. The emissions unit and control equipment shall be operated in accordance with the approved CAM Plan, or any approved revision of the Plan. The baghouse shall not be configured to have bypass capability.
[OAC 3745-77-07(A)(3)(a) and (b), 40 CFR 64.3(a), 64.6(c), 64.7(d), and 64.8]
2. Baghouse operating parameters shall be re-verified as a result of any changes to the operating conditions of the baghouse or emissions unit. In addition to periodic monitoring of the baghouse operating parameters, the permittee also has an inspection and maintenance program for the baghouse, including but not limited to:
 - a. checking the bags / filters for deterioration or degradation;
 - b. checking the cleaning system for proper operation; and
 - c. checking the hoppers and conveyance systems for proper operation.

Based on the results of the monitoring and inspection program, repairs to the baghouse shall be made as needed. If the current CAM indicators and/or the baghouse inspection program is considered inadequate, the permittee shall develop a Quality Improvement Plan.

[OAC 3745-77-07(A)(3)(a) and (b), 40 CFR 64.3(a), 64.6(c), 64.7(d), and 64.8]

3. At all times, the permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.
[OAC 3745-77-07(C)(1) and 40 CFR 64.7(b)]
4. If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance, the permittee shall promptly notify the appropriate Ohio EPA District Office or local air agency, and if necessary, submit a proposed modification to the Title V permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, re-establishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.
[OAC 3745-77-07(C)(1) and 40 CFR 64.7(e)]
5. The permittee shall properly operate and maintain equipment to continuously monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s).

The permittee shall collect and record the following information each day:
 - a. the static pressure drop across the baghouse, in inches of water; and
 - b. the operating times for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.
[OAC 3745-77-07(C)(1), 40 CFR 64.3(a)(2), and 40 CFR 64.7(b)]
6. Whenever the monitored values for the pressure drop deviates from the range specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the date and time the deviation began and the magnitude of the deviation at that time, the date(s) the investigation was conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the pressure drop immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The pressure drop across the baghouse shall be maintained within the range of 6 to 10 inches of water while the emissions unit is in operation.

This range is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the range(s) based upon information obtained during future particulate emission tests

that demonstrate compliance with the allowable particulate emission rate for this emissions unit. In addition, approved revisions to the ranges will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor modification.
[OAC 3745-77-07(C)(1), 40 CFR 64.3(a)(2), and 40 CFR 64.7(b)]

7. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. 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 minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.
[OAC 3745-77-07(C)(1) and 40 CFR 64.3]

8. The permittee shall maintain a supply of replacement parts necessary to ensure ongoing proper operation of the baghouse system, including, but not limited to:
- filter bags;
 - timing boards and solenoid coils (for blow down function);
 - diaphragms and diaphragm seal kits;
 - spare set of belts; and
 - spare bearings for blower motor.
- [OAC rule 3745-77-07(C)(1) and 40 CFR 64.7(d)]

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IV. Reporting Requirements

1. The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:
- each period of time when the pressure drop across the baghouse was outside the acceptable range;
 - an identification of each incident of deviation described in (a) above where a prompt investigation was not conducted;
 - an identification of each incident of deviation described in (a) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and
 - an identification of each incident of deviation described in (a) where proper records were not maintained for the investigation and/or the corrective action.

These quarterly reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.
[OAC 3745-77-07(C)(1), 40 CFR 64.7(d), 40 CFR 64.3(a), and 40 CFR 64.9(b)]

2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to minimize or 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.
[OAC 3745-77-07(C)(1) and 40 CFR 64.9]

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V. Testing Requirements

1. Compliance with the emission limitation(s) in section A.I. of the terms and conditions of this permit shall be determined in accordance with the following method(s):
- Emission Limitation:
10.4 lb PE/hr

Applicable Compliance Method:
The permittee shall demonstrate compliance with the emission limitation above based upon the results of emissions testing required in section A.V.2.
[OAC rule 3745-77-07(C)(1)]
 - Emission Limitation:

Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance with the visible PE limitation shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(1).
[OAC rule 3745-77-07(C)(1)]

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted approximately 2.5 years after permit issuance.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for PE.
 - c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate: Methods 1 through 5 of 40 CFR, Part 60, Appendix A
 - d. The emission testing shall be conducted while this emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the Director (the Ohio EPA, Northwest District Office).
[OAC rule 3745-77-07(C)(1)]

3. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Director (the Ohio EPA, Northwest 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 Director (the Ohio EPA, Northwest District Office's) refusal to accept the results of the emission test(s).

Personnel from the Director (the Ohio EPA, Northwest 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 Director (the Ohio EPA, Northwest 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 Director (the Ohio EPA, Northwest District Office).
[OAC rule 3745-77-07(C)(1)]

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0306010004 Emissions Unit ID: P011 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Sand Storage and Transfer (with baghouse)	None	None

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: 0306010004 Emissions Unit ID: P012 Issuance type: Title V Preliminary Proposed 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>
Ball Mill Crusher (Sand Reclaim) - with baghouse	OAC rule 3745-17-11(B)(2)	14.2 lbs particulate emissions (PE)/hr
	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
	40 CFR 64	See Sections A.III and A.IV.

2. Additional Terms and Conditions

- (a) None

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II. Operational Restrictions

- 1. None

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

1. The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicators for the baghouse controlling this emissions unit are the static pressure drop across the baghouse, which was established in accordance with the manufacturer's recommendations, and visible emissions checks. When the static pressure drop or visible emissions show operation outside the indicator range(s), the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions, and shall comply with the reporting requirements specified in Section A.IV below. The emissions unit and control equipment shall be operated in accordance with the approved CAM Plan, or any approved revision of the Plan. The baghouse shall not be configured to have bypass capability.
[OAC 3745-77-07(A)(3)(a) and (b), 40 CFR 64.3(a), 64.6(c), 64.7(d), and 64.8]
2. Baghouse operating parameters shall be re-verified as a result of any changes to the operating conditions of the baghouse or emissions unit. In addition to periodic monitoring of the baghouse operating parameters, the permittee also has an inspection and maintenance program for the baghouse, including but not limited to:
 - a. checking the bags / filters for deterioration or degradation;
 - b. checking the cleaning system for proper operation; and
 - c. checking the hoppers and conveyance systems for proper operation.

Based on the results of the monitoring and inspection program, repairs to the baghouse shall be made as needed. If the current CAM indicators and/or the baghouse inspection program is considered inadequate, the permittee shall develop a Quality Improvement Plan.

[OAC 3745-77-07(A)(3)(a) and (b), 40 CFR 64.3(a), 64.6(c), 64.7(d), and 64.8]

3. At all times, the permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.
[OAC 3745-77-07(C)(1) and 40 CFR 64.7(b)]
4. If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance, the permittee shall promptly notify the appropriate Ohio EPA District Office or local air agency, and if necessary, submit a proposed modification to the Title V permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, re-establishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.
[OAC 3745-77-07(C)(1) and 40 CFR 64.7(e)]
5. The permittee shall properly operate and maintain equipment to continuously monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s).

The permittee shall collect and record the following information each day:
 - a. the static pressure drop across the baghouse, in inches of water; and
 - b. the operating times for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.
[OAC 3745-77-07(C)(1), 40 CFR 64.3(a)(2), and 40 CFR 64.7(b)]
6. Whenever the monitored values for the pressure drop deviates from the range specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the date and time the deviation began and the magnitude of the deviation at that time, the date(s) the investigation was conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the pressure drop immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The pressure drop across the baghouse shall be maintained within the range of 6 to 10 inches of water while the emissions unit is in operation.

This range is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the range(s) based upon information obtained during future particulate emission tests that demonstrate compliance with the allowable particulate emission rate for this emissions unit. In addition, approved revisions to the ranges will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor modification.

[OAC 3745-77-07(C)(1), 40 CFR 64.3(a)(2), and 40 CFR 64.7(b)]

7. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. 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 minimize or eliminate the visible emissions.
- If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions. [OAC 3745-77-07(C)(1) and 40 CFR 64.3]
8. The permittee shall maintain a supply of replacement parts necessary to ensure ongoing proper operation of the baghouse system, including, but not limited to:
- filter bags;
 - timing boards and solenoid coils (for blow down function);
 - diaphragms and diaphragm seal kits;
 - spare set of belts; and
 - spare bearings for blower motor.
- [OAC rule 3745-77-07(C)(1) and 40 CFR 64.7(d)]

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IV. Reporting Requirements

1. The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:
- each period of time when the pressure drop across the baghouse was outside the acceptable range;
 - an identification of each incident of deviation described in (a) above where a prompt investigation was not conducted;
 - an identification of each incident of deviation described in (a) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and
 - an identification of each incident of deviation described in (a) where proper records were not maintained for the investigation and/or the corrective action.
- These quarterly reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.
[OAC 3745-77-07(C)(1), 40 CFR 64.7(d), 40 CFR 64.3(a), and 40 CFR 64.9(b)]
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to minimize or 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.
[OAC 3745-77-07(C)(1) and 40 CFR 64.9]

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V. Testing Requirements

1. Compliance with the emission limitation(s) in section A.I. of the terms and conditions of this permit shall be determined in accordance with the following method(s):
- Emission Limitation:
14.2 lb PE/hr
- Applicable Compliance Method:
The permittee shall demonstrate compliance with the emission limitation above based upon the results of emissions testing required in section A.V.2.
[OAC rule 3745-77-07(C)(1)]
- Emission Limitation:
Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
- Applicable Compliance Method:
If required, compliance with the visible PE limitation shall be determined in accordance with the methods

specified in OAC rule 3745-17-03(B)(1).
 [OAC rule 3745-77-07(C)(1)]

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted approximately 2.5 years after permit issuance.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for PE.
 - c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rate: Methods 1 through 5 of 40 CFR, Part 60, Appendix A
 - d. The emission testing shall be conducted while this emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the Director (the Ohio EPA, Northwest District Office).
3. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Director (the Ohio EPA, Northwest 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 Director (the Ohio EPA, Northwest District Office's) refusal to accept the results of the emission test(s).

Personnel from the Director (the Ohio EPA, Northwest 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 Director (the Ohio EPA, Northwest 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 Director (the Ohio EPA, Northwest District Office).
 [OAC rule 3745-77-07(C)(1)]

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0306010004 Emissions Unit ID: P012 Issuance type: Title V Preliminary Proposed 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>
Ball Mill Crusher (Sand Reclaim) - with baghouse	None	None

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: 0306010004 Issuance type: Title V Preliminary Proposed Permit

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Facility ID: 0306010004 Emissions Unit ID: P016 Issuance type: Title V Preliminary Proposed 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>
Sand (thermal) Reclamation System (with baghouse)	OAC rule 3745-31-05(A)(3) (PTI 03-9119 as modified on July 3, 2003)	0.34 lb particulate emissions (PE) /hr, 1.49 ton/yr
		0.01 grains PE /dry standard cubic foot (dscf)
		See A.I.2.a
		0.33 lb volatile organic compounds (VOC) /hr, 1.45 ton/yr
		Visible PE shall not exceed 5% opacity, as a six-minute average.
		See A.I.2.b
	OAC rule 3745-17-11(B)(2)	See A.I.2.b

2. Additional Terms and Conditions

- a. The "Best Available Technology" (BAT) control requirement for this emissions unit has been determined to be the use of a baghouse achieving an outlet concentration limit of not more than 0.01 grain PM10 /dscf.
- b. The requirements of OAC rule 3745-31-05(A)(3) also include compliance with the requirements of OAC

rule 3745-17-07(A).

- c. All particulate emissions are assumed to be particulate matter less than 10 um (PM10).

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse(s) during operation of this emissions unit. 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, in inches of water, across the baghouse on a weekly basis.

Whenever the monitored value for the pressure drop deviates from the range specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the date and time the deviation began and the magnitude of the deviation at that time, the date(s) the investigation was conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range(s) specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the pressure drop readings immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The acceptable range for the pressure drop across the baghouse is 6 to 10 inches of water.

This range(s) is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the range(s) based upon information obtained during future particulate emission tests that demonstrate compliance with the allowable particulate emission rate for this emissions unit. In addition, approved revisions to the range(s) will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a 'minor' permit modification.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

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IV. Reporting Requirements

1. The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:
- each period of time when the pressure drop across the baghouse(s) was outside the acceptable range (s);
 - an identification of each incident of deviation described in (a) above where a prompt investigation was not conducted;
 - an identification of each incident of deviation described in (a) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range(s), was determined to be necessary and was not taken; and
 - an identification of each incident of deviation described in (a) where proper records were not maintained for the investigation and/or the corrective action.

These quarterly reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

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V. Testing Requirements

1. Compliance with the emission limitation(s) in section A.I. of the terms and conditions of this permit shall be determined in accordance with the following method(s):
- Emission Limitation:

0.01 grains PE /dry standard cubic foot (dscf)

Applicable Compliance Method:

Compliance with this emission limitation was demonstrated with the results of emissions testing conducted on December 23, 2002.

If required, the permittee shall conduct any future compliance demonstration with the emission limitation in accordance with Methods 1 - 5 of 40 CFR Part 60, Appendix A.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

b. Emission Limitation:

0.34 lb PE /hr
1.49 ton/yr

Applicable Compliance Method:

Compliance with the hourly emission limitation was demonstrated with the results of emissions testing conducted on December 23, 2002.

If required, the permittee shall conduct any future compliance demonstration with the hourly emission limitation in accordance with Methods 1 - 5 of 40 CFR Part 60, Appendix A.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

The annual allowable PE limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, as long as compliance with the hourly limitation is shown, compliance with the annual limitation shall be assumed.

c. Emission Limitation:

0.33 lb VOC /hr
1.45 ton VOC/yr

Applicable Compliance Method:

Compliance with the hourly emission limitation was demonstrated with the results of emissions testing conducted on December 23, 2002.

If required, the permittee shall conduct any future compliance demonstration with the hourly emission limitation in accordance with Methods 18, 25, and/or 25A of 40 CFR Part 60, Appendix A.

The annual allowable VOC limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, as long as compliance with the hourly limitation is shown, compliance with the annual limitation shall be assumed.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

d. Emission Limitation:

Visible PE shall not exceed 5% opacity, as a six-minute average.

Applicable Compliance Method:

If required, compliance with the visible PE limitation shall be determined in accordance with 40 CFR 60, Appendix A, Method 9.

[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0306010004 Emissions Unit ID: P016 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall

not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Sand (thermal) Reclamation System (with baghouse)	None	None

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: 0306010004 Emissions Unit ID: P018 Issuance type: Title V Preliminary Proposed 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>
Sand Silo (for New Bay Mixer) - with baghouse	OAC rule 3745-31-05(A)(3) (PTI 03-13316 issued February 2, 2000)	0.89 lb particulate emissions (PE) /hr, 3.90 ton/yr 0.02 grains PE /dry standard cubic foot (dscf)

OAC rule 3745-17-07(A)	See A.I.2.a and A.I.2.b Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
OAC rule 3745-17-11(B)(2)	See A.I.2.c
40 CFR 64	See Sections A.III and A.IV.

2. **Additional Terms and Conditions**

- a. The "Best Available Technology" (BAT) control requirement for this emissions unit has been determined to be the use of a baghouse achieving an outlet concentration limit of not more than 0.02 grain PM10 /dscf.
- b. The requirements of OAC rule 3745-31-05(A)(3) also include compliance with the requirements of OAC rule 3745-17-07(A).
- c. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

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II. **Operational Restrictions**

1. None

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

1. The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicators for the baghouse controlling this emissions unit are the static pressure drop across the baghouse, which was established in accordance with the manufacturer's recommendations, and visible emissions checks. When the static pressure drop or visible emissions show operation outside the indicator range(s), the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions, and shall comply with the reporting requirements specified in Section A.IV below. The emissions unit and control equipment shall be operated in accordance with the approved CAM Plan, or any approved revision of the Plan. The baghouse shall not be configured to have bypass capability.
[OAC 3745-77-07(A)(3)(a) and (b), 40 CFR 64.3(a), 64.6(c), 64.7(d), and 64.8]
2. Baghouse operating parameters shall be re-verified as a result of any changes to the operating conditions of the baghouse or emissions unit. In addition to periodic monitoring of the baghouse operating parameters, the permittee also has an inspection and maintenance program for the baghouse, including but not limited to:
 - a. checking the bags / filters for deterioration or degradation;
 - b. checking the cleaning system for proper operation; and
 - c. checking the hoppers and conveyance systems for proper operation.

Based on the results of the monitoring and inspection program, repairs to the baghouse shall be made as needed. If the current CAM indicators and/or the baghouse inspection program is considered inadequate, the permittee shall develop a Quality Improvement Plan.
[OAC 3745-77-07(A)(3)(a) and (b), 40 CFR 64.3(a), 64.6(c), 64.7(d), and 64.8]
3. At all times, the permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.
[OAC 3745-77-07(C)(1) and 40 CFR 64.7(b)]
4. If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance, the permittee shall promptly notify the appropriate Ohio EPA District Office or local air agency, and if necessary, submit a proposed modification to the Title V permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, re-establishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.
[OAC 3745-77-07(C)(1) and 40 CFR 64.7(e)]
5. The permittee shall properly operate and maintain equipment to continuously monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s).

The permittee shall collect and record the following information each day:
 - a. the static pressure drop across the baghouse, in inches of water; and
 - b. the operating times for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.
[OAC 3745-77-07(C)(1), 40 CFR 64.3(a)(2), and 40 CFR 64.7(b)]

6. Whenever the monitored values for the pressure drop deviates from the range specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the date and time the deviation began and the magnitude of the deviation at that time, the date(s) the investigation was conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the pressure drop immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The pressure drop across the baghouse shall be maintained within the range of 6 to 10 inches of water while the emissions unit is in operation.

This range is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the range(s) based upon information obtained during future particulate emission tests that demonstrate compliance with the allowable particulate emission rate for this emissions unit. In addition, approved revisions to the ranges will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor modification.
[OAC 3745-77-07(C)(1), 40 CFR 64.3(a)(2), and 40 CFR 64.7(b)]

7. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. 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 minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.
[OAC 3745-77-07(C)(1) and 40 CFR 64.3]

8. The permittee shall maintain a supply of replacement parts necessary to ensure ongoing proper operation of the baghouse system, including, but not limited to:
- a. filter bags;
 - b. timing boards and solenoid coils (for blow down function);
 - c. diaphragms and diaphragm seal kits;
 - d. spare set of belts; and
 - e. spare bearings for blower motor.
- [OAC rule 3745-77-07(C)(1) and 40 CFR 64.7(d)]

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IV. Reporting Requirements

1. The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:
- a. each period of time when the pressure drop across the baghouse was outside the acceptable range;
 - b. an identification of each incident of deviation described in (a) above where a prompt investigation was not conducted;
 - c. an identification of each incident of deviation described in (a) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and
 - d. an identification of each incident of deviation described in (a) where proper records were not maintained for the investigation and/or the corrective action.

These quarterly reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.
[OAC 3745-77-07(C)(1), 40 CFR 64.7(d), 40 CFR 64.3(a), and 40 CFR 64.9(b)]

2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to minimize or 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.
[OAC 3745-77-07(C)(1) and 40 CFR 64.9]

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V. **Testing Requirements**

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

- a. Emission Limitation:
0.89 lb PE/hr, 3.90 ton PE /yr
0.02 grains PE /dry standard cubic foot (dscf)

Applicable Compliance Method:
The 0.02 gr PE /dscf limitation is the established maximum outlet concentration for the baghouse. Compliance with the hourly limit may be determined by multiplying 0.02 gr PE/dscf by the maximum volumetric air flow rate (4000 acfm - the portion of total air flow associated with this emissions unit), and the appropriate conversion factors of lb/7000 grains, 1 dscf/1 acfm, 60 minutes/hr.

If required, the permittee shall demonstrate compliance with the hourly emission limitation in accordance with Methods 1 - 5 of 40 CFR Part 60, Appendix A.

The annual allowable PE limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, as long as compliance with the hourly limitation is shown, compliance with the annual limitation shall be assumed.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

- b. Emission Limitation:
Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:
If required, compliance with the visible PE limitation shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(1).
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0306010004 Emissions Unit ID: P018 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

- 1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Sand Silo (for New Bay Mixer) - with baghouse	None	None

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: 0306010004 Emissions Unit ID: P019 Issuance type: Title V Preliminary Proposed Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Casting 'Blow-out' Room (with baghouse)	OAC rule 3745-31-05(A)(3) (PTI 03-13473 issued September 6, 2000)	0.13 lb particulate emissions (PE) /hr, 0.57 ton/yr
		0.09 lb particulate matter less than 10 microns in size (PM10) /hr, 0.40 ton/yr
		See A.I.2.a and A.I.2.b.
	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(2)	See A.I.2.c

2. Additional Terms and Conditions

- a. The "Best Available Technology" (BAT) control requirement for this emissions unit has been determined to be the use of a baghouse for control of particulate matter.
- b. The requirements of OAC rule 3745-31-05(A)(3) also include compliance with the requirements of OAC rule 3745-17-07(A).

- c. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. The pressure drop monitoring /recordkeeping requirements for the baghouse for this emissions unit, as specified under Compliance Assurance Monitoring (CAM) requirements for emissions unit P002, shall be sufficient to satisfy pressure drop monitoring /recordkeeping requirements for this emissions unit. [OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

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IV. Reporting Requirements

1. The pressure drop reporting requirements for the baghouse for this emissions unit, as specified under Compliance Assurance Monitoring (CAM) requirements for emissions unit P002, shall be sufficient to satisfy pressure drop reporting requirements for this emissions unit. [OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

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V. Testing Requirements

1. Compliance with the emission limitation(s) in section A.I. of the terms and conditions of this permit shall be determined in accordance with the following method(s):
- a. Emission Limitation:
0.13 lb PE/hr, 0.57 ton/yr
- Applicable Compliance Method:
Compliance may be determined by multiplying the maximum process weight rate (4.1 tons cast iron/hr) by an emission factor of 3.2 lb PE /ton iron (AP-42 Table 12.10-7, January 1995) and a control factor of (1 - 0.99), i.e. 99 percent control for use of a baghouse.
- If required, the permittee shall demonstrate compliance with the hourly emission limitation in accordance with Methods 1 - 5 of 40 CFR Part 60, Appendix A.
- The annual allowable PE limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, as long as compliance with the hourly limitation is shown, compliance with the annual limitation shall be assumed.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
- b. Emission Limitation:
0.09 lb PM10/hr, 0.40 ton/yr
- Applicable Compliance Method:
Compliance may be determined by multiplying the maximum process weight rate (4.1 tons cast iron/hr) by an emission factor of 3.2 lb PE /ton iron with a particle size distribution factor of 0.7 (AP-42 Tables 12.10-7 and 12.10-8, January 1995), and a control factor of (1 - 0.99), i.e. 99 percent control for use of a baghouse.
- If required, the permittee shall demonstrate compliance with the hourly emission limitation by testing in accordance with Methods 201/201A and 202 of 40 CFR Part 51, Appendix M. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northwest District Office.
- The annual allowable PE limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, as long as compliance with the hourly limitation is shown, compliance with the annual limitation shall be assumed.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
- c. Emission Limitation:
Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
- Applicable Compliance Method:
If required, compliance with the visible PE limitation shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(1).
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0306010004 Emissions Unit ID: P019 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

- 1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Casting 'Blow-out' Room (with baghouse)	None	None
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: 0306010004 Issuance type: Title V Preliminary Proposed Permit

Part III - Terms and Conditions for Emissions Units

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Facility ID: 0306010004 Emissions Unit ID: P020 Issuance type: Title V Preliminary Proposed 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>
Iron Scrap Pre-heater (13 mmBtu/hr - natural gas)	OAC rule 3745-31-05(A)(3) (PTI 03-13473 issued September 6, 2000)	2.56 lb particulate emissions (PE) /hr, 11.2 ton/yr
		1.50 lb particulate matter less than 10 microns in size (PM10) /hr, 6.57 ton/yr
		1.27 lb nitrogen oxides (NOx) /hr, 5.56 ton/yr
		1.07 carbon monoxide (CO) /hr, 4.69 ton/yr
		Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided in OAC 3745-17-07(A)(3).
	OAC rule 3745-17-11(B)(2)	none (See A.I.2.a.)
	OAC rule 3745-17-07(A)	none (See A.I.2.b.)

2. Additional Terms and Conditions

- a. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs / hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table 1 does not apply because the facility is located in Auglaize County.
- b. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because OAC rule 3745-17-11 is not applicable.

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II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
[OAC rule 3745-77-07(A)(1), and 3745-31-05(A)(3)]

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III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. 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 minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the

emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to minimize or 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.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

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V. Testing Requirements

1. Compliance with the emission limitation(s) in section A.I. of the terms and conditions of this permit shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
2.56 lb PE /hr, 11.21 ton/yr

Applicable Compliance Method:
The permittee may demonstrate compliance with the hourly allowable PE limitation as follows:
 - i. for natural gas combustion, multiply the maximum natural gas combustion rate (0.013 mm cu. ft/hr) by the AP-42, Section 1.4 (revised 7/98) emission factor of 1.9 lbs PE/mm cu. ft of natural gas;
 - ii. for the emissions from the scrap, multiply the maximum hourly process weight (4.1 tons/hr) by the AP-42, Section 12.10 (revised 1/95) emission factor of 0.6 lb PE/ton of gray iron; and
 - iii. add 1.a.i + 1.a.ii.

If required, the permittee shall demonstrate compliance with the hourly emission limitation in accordance with Methods 1 - 5 of 40 CFR Part 60, Appendix A.

The annual allowable PE limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, as long as compliance with the hourly limitation is shown, compliance with the annual limitation shall be assumed.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
 - b. Emission Limitation:
1.50 lb PM10 /hr, 6.57 ton/yr

Applicable Compliance Method:
The permittee may demonstrate compliance with the hourly allowable PM10 limitation as follows:
 - i. for natural gas combustion, multiply the maximum natural gas combustion rate (0.013 mm cu. ft/hr) by the AP-42, Section 1.4 (revised 7/98) emission factor of 1.9 lbs PE/mm cu. ft of natural gas;
 - ii. for the emissions from the scrap, multiply the maximum hourly process weight (4.1 tons/hr) by US EPA's FIRE 6.25 database (SCC 3-04-003-15) emission factor of 0.36 pounds PM10 /ton of gray iron; and
 - iii. add 1.a.i + 1.a.ii.

If required, the permittee shall demonstrate compliance with the 0.03 gr PM10/dscf by testing in accordance with Methods 201/201A and 202 of 40 CFR Part 51, Appendix M. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northwest District Office.

The annual allowable PM10 limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, as long as compliance with the hourly limitation is shown, compliance with the annual limitation shall be assumed.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
 - c. Emission Limitation:
1.27 NOx /hr, 5.56 ton/yr

Applicable Compliance Method:
Compliance with the hourly emission limitation may be determined by multiplying the maximum hourly natural gas combustion rate (mm cu. ft/hr) by the emission factor from AP-42 Table 1.4-1 (revised

07/98) of 100 lb NOx /mm cu. ft. of natural gas. Compliance with the annual emission limitation may be demonstrated by multiplying the lb NOx /hr by 8760 hr/yr, and then dividing by 2000 lbs/ton.

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation through emission tests performed in accordance with 40 CFR 60, Appendix A, Methods 1- 4, and 7. [OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

d. Emission Limitation:
1.07 CO /hr, 4.69 ton/yr

Applicable Compliance Method:
Compliance with the hourly emission limitation may be determined by multiplying the maximum hourly natural gas combustion rate (mm cu. ft./hr) by the emission factor from AP-42 Table 1.4-1 (revised 07/98) of 84 lb CO /mm cu. ft. of natural gas. Compliance with the annual emission limitation may be demonstrated by multiplying the lb CO /hr by 8760 hr/yr, and then dividing by 2000 lbs/ton.

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation through emission tests performed in accordance with 40 CFR 60, Appendix A, Methods 1- 4, and 10. [OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

e. Emission Limitation:
Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided in OAC 3745-17-07(A)(3).

Applicable Compliance Method:
If required, compliance with the visible PE limitation shall be determined in accordance with 40 CFR 60, Appendix A, Method 9. [OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0306010004 Emissions Unit ID: P020 Issuance type: Title V Preliminary Proposed 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>
Iron Scrap Pre-heater (13 mmBtu/hr - natural gas)	None	None

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: 0306010004 Emissions Unit ID: P023 Issuance type: Title V Preliminary Proposed 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>
Abrasive Blasting Unit (Tumbleblast - Clean Room) - with baghouse	OAC rule 3745-31-05(A)(3) (PTI 03-17072 issued March 21, 2006)	3.94 tons particulate matter less than 10 microns in size (PM10)/year (See A.I.2.a)
		0.03 grains PM10/dry standard cubic foot (dscf) See A.I.2.a
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 5% opacity, as a six-minute average
	OAC rule 3745-17-11(B)	See A.I.2.c See A.I.2.c

2. Additional Terms and Conditions

- a. The "Best Available Technology" (BAT) control requirement for this emissions unit has been determined to be the use of a baghouse achieving an outlet concentration limit of not more than 0.03 grain PM10 /dscf.
- b. All emissions of particulate matter are PM10.
- c. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

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II. **Operational Restrictions**

1. None

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

1. The permittee shall properly operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse(s) during operation of this emissions unit. 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, in inches of water, across the baghouse on a weekly basis.

Whenever the monitored value for the pressure drop deviates from the range specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the date and time the deviation began and the magnitude of the deviation at that time, the date(s) the investigation was conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range(s) specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the pressure drop readings immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The acceptable range for the pressure drop across the baghouse is 6 to 10 inches of water.

This range(s) is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the range(s) based upon information obtained during future particulate emission tests that demonstrate compliance with the allowable particulate emission rate for this emissions unit. In addition, approved revisions to the range(s) will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a 'minor' permit modification.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

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IV. **Reporting Requirements**

1. The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:
- each period of time when the pressure drop across the baghouse(s) was outside the acceptable range (s);
 - an identification of each incident of deviation described in (a) above where a prompt investigation was not conducted;
 - an identification of each incident of deviation described in (a) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range(s), was determined to be necessary and was not taken; and
 - an identification of each incident of deviation described in (a) where proper records were not maintained for the investigation and/or the corrective action.

These quarterly reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

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V. **Testing Requirements**

1. Compliance with the emission limitation(s) in section A.I. of the terms and conditions of this permit shall be determined in accordance with the following method(s):
- Emission Limitation:
0.03 gr PM10 /dscf, 3.94 ton PM10 /yr

Applicable Compliance Method:

The 0.03 gr PM10/dscf limitation is the established maximum outlet concentration for the baghouse. Compliance with the ton/yr limitation may be determined by multiplying the maximum baghouse outlet concentration of 0.03 gr/dscf by the baghouse's maximum volumetric air flow rate (3,500 acfm - the portion of total air flow associated with this emissions unit). This value is then converted to ton/yr by multiplying by lb/7000 grains and 60 minutes/hour, then multiplied by 8760 hr/yr and ton/2000 lb.

If required, the permittee shall demonstrate compliance with the 0.03 gr PM10/dscf by testing in accordance with Methods 201/201A and 202 of 40 CFR Part 51, Appendix M. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northwest District Office. [OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

- b. Emission Limitation:
Visible PE shall not exceed 5% opacity, as a six-minute average.

Applicable Compliance Method:
If required, compliance with the visible PE limitation shall be determined in accordance with 40 CFR 60, Appendix A, Method 9.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0306010004 Emissions Unit ID: P023 Issuance type: Title V Preliminary Proposed 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>
Abrasive Blasting Unit (Tumbleblast - Clean Room) - with baghouse	None	None

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: 0306010004 Emissions Unit ID: R001 Issuance type: Title V Preliminary Proposed Permit

A. **State and Federally Enforceable Section**

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

- 1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Core / Mold Coating Operations (with flame flash-off)	OAC rule 3745-31-05(A)(3) (PTI 03-13316 issued February 2, 2000)	7.48 lb fugitive organic compounds (OC) /hr, 32.8 ton /yr (from coating operations)
		2300 lb fugitive OC/month, 13.8 ton /yr (from clean-up operations)
		3.46 lbs of fugitive particulate emissions (PE) /hr, 15.2 ton/yr
		See A.I.2.a.
	OAC rule 3745-21-07(G)	See A.II.2.
	OAC rule 3745-17-08(B)	none (See A.I.2.b)
	OAC rule 3745-17-07(B)	none (See A.I.2.c)

2. **Additional Terms and Conditions**

- a. The "Best Available Technology" (BAT) control requirement for this emissions unit has been determined to be the use of flammable solvent-based core and mold coatings with light-off operations to reduce OC emissions.
- b. The emissions unit is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).
- c. This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e).
- d. The 7.48 lb OC /hr emission limitation was established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop monitoring, record keeping or reporting requirements to ensure compliance with this emission limitation.

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II. **Operational Restrictions**

- 1. The use of any photochemically reactive material, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited.

[OAC rule 3745-77-07(A)(1), and 3745-31-05(A)(3)]

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each month for this emissions unit:
 - a. the name and identification number of each coating employed;
 - b. documentation on whether or not each coating employed is a photochemically reactive material;
 - c. identification of whether or not each coating employed has a flammable solvent base;
 - d. the volume, in gallons, of each coating employed;
 - e. the organic compound (OC) content of each coating, in lbs/gallon (before thinning);
 - f. the OC emission rate for each coating, in lbs/month ('d' x 'e'); and
 - g. the total OC emission rate for all coatings, in lbs/month (sum of 'f').
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
2. In conjunction with the recordkeeping required in A.III.1 above, the permittee shall also collect and record the following information each month for this emissions unit:
 - a. the company identification of the thinning /cleanup material employed;
 - b. documentation on whether or not the thinning /cleanup material employed is a photochemically reactive material.
 - c. the number of gallons of the thinning /cleanup material employed;
 - d. the OC content, in pounds per gallon, for the thinning /cleanup material employed;
 - e. the OC emission rate for the cleanup material employed*, in lbs/month [(c x 0.3) x d];
 - f. the OC emission rate for the thinning material employed, in lbs/month [(c x 0.7) x d];
 - g. the annual, year to date OC emissions from all coatings employed, as applied [sum of (A.III.1.g + A.III.2.f) for each calendar month to date from January to December].

* based on a 70/30 thinning /clean-up solvent percent usage 'split' factor
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports for this emissions unit which identify all exceedances of the emission limitation of 2300 lbs OC /month for clean-up operations.

The permittee shall submit these deviation (excursion) reports in accordance with paragraph A.I.c of the General Terms and Conditions of this permit.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
2. The permittee shall submit annual deviation (excursion) reports for this emissions unit which identify all exceedances of the emission limitation of 7.48 ton OC /year for coating operations.

These reports shall be submitted by January 31 of each year.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
3. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any record showing the use of non-complying materials (i.e., photochemically reactive coatings and/or cleanup materials) in this emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northwest District Office) within 45 days of the date of the daily record indicating non-compliance.

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V. Testing Requirements

1. Compliance with the emission limitation(s) in section A.I. of the terms and conditions of this permit shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
7.48 lb OC /hr (from coatings operations)

Applicable Compliance Method:
The hourly OC emission limitation was established based on multiplying the maximum OC content of 4.61 lbs per gallon by the maximum usage rate of 5.4 gallon per hour, and (1 - 0.7) emission reduction

- for flash-off.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
- b. Emission Limitation:
32.8 ton OC /yr (from coatings operations)
- Applicable Compliance Method:
Compliance shall be based on the record keeping requirements as specified in A.III.2.g.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
- c. Emission Limitation:
2300 lb OC/month, 13.8 ton /yr (from clean-up operations)
- Applicable Compliance Method:
Compliance shall be based on the record keeping requirements as specified in A.III.2.e.
- The annual allowable OC limitation was developed by multiplying the monthly limitation by 12, and then dividing by 2000. Therefore, as long as compliance with the monthly limitation is shown, compliance with the annual limitation shall be assumed.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
- d. Emission Limitation:
3.46 lbs PE /hr, 15.15 ton/yr
- Applicable Compliance Method:
This operation employs a 'pour-over' wand coating application method. Therefore, particulate emissions from 'overspray' are considered to be negligible, and assumed to be in compliance with the limitations above.
[OAC rules 3745-77-07(C)(1), and 3745-31-05(A)(3)]
2. Formulation data or US EPA Method 24 shall be used to determine the OC content of the coatings.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0306010004 Emissions Unit ID: R001 Issuance type: Title V Preliminary Proposed Permit

B. State Enforceable Section

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

1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Core / Mold Coating Operations (with flame flash-off)	see Section B.III	see Section B.III

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. The permit to install for this emission unit was evaluated based on the actual materials (adhesive) and the design parameters of each emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by these emission units using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: isopropyl alcohol
TLV (ug/m3): 983,000
Maximum Hourly Emission Rate (lbs/hr): 7.48
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 2162
MAGLC (ug/m3): 23,400
2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
 - a. changes in the composition of the materials used (mold release agent), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
 - b. changes in the compositions of the materials, or use of new materials that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
 - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).
3. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.
4. The permittee shall collect, record, and retain the following information when it conducts evaluation to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"
 - a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.)
 - b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
 - c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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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