State of Ohio Environmental Protection Agency

Street Address:
Lazarus Gov. Center
122 S. Front Street
Columbus, OH 43215

TELE: (614) 644-3020 **FAX:** (614) 644-2329

Mailing Address:
Lazarus Gov. Center
P.O. Box 1049
Columbus, OH 43216-1049

04/25/01

CERTIFIED MAIL

RE: Preliminary Proposed Title V
Chapter 3745-77 permit

02-15-09-0188
Eljer Plumbingware, Inc.
John A. Nadzan
921 South Ellsworth Ave.
Salem, OH 44460

Dear Mr. Nadzan :

Enclosed is the Ohio EPA Preliminary Proposed Title V permit that was issued in draft form on 11/30/00. The comment period for the Draft permit has ended. We are now ready to submit this permit to USEPA for approval.

We are submitting this for your review and comment. If you do not agree with the Preliminary Proposed Title V permit as written, you now have the opportunity to raise your concerns. **Please submit, in writing, any comments you may have within fourteen (14) days from your receipt of this letter to:**

Ohio Environmental Protection Agency
Jim Orlemann, Manager, Engineering Section
Division of Air Pollution Control
P.O.Box 1049
Columbus, OH 43216-1049

and

Northeast District Office
2110 East Aurora Road
Twinsburg, OH 44087
(330) 425-9171

Also, if you believe that it is necessary to have an informal conference with us, then, as part of your written comments, you should request a conference concerning the written comments.

If comments are not submitted within fourteen (14) days of your receipt of this letter, we will forward the proposed permit to USEPA for approval. All comments received will be carefully considered before proceeding to the proposed permit.

Very truly yours,

Thomas G. Rigo

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

cc: Northeast District Office
Becky Castle, DAPC PMU

Ohio EPA
State of Ohio Environmental Protection Agency

PRELIMINARY PROPOSED TITLE V PERMIT

Date: 04/25/01
Effective Date: **To be entered upon final issuance**
Expiration Date: **To be entered upon final issuance**

This document constitutes issuance to:

Eljer Plumbingware, Inc.
921 South Ellsworth Ave.
Salem, OH 44460

of a Title V permit for Facility ID: 02-15-09-0188

Emissions Unit ID (Company ID)/
Emissions Unit Activity Description:
F001 (Plant Roadways and Parking Areas)
Vehicle traffic, that results in fugitive emissions

F003 (Pouring and Cooling Unit 1)
Pouring & Cooling Molten Metal, Unit 1

F010 (Pouring and Cooling Unit 2)
Pouring & Cooling Molten Metal, Unit 2

F011 (Pouring and Cooling Unit 3)
Pouring & Cooling Molten Metal, Unit 3

P001 (Smallware Furnaces, Enameling)
Smallware Baking Ovens and Enameling Application Operation.

P013 (Tub Furnaces, Enameling)
Tubware Baking Ovens and Enameling Application Operation.

P025 (Tub Grinding)
Automatic And Manual Grinders

P028 (Smallware Grinding)
Automatic And Manual Grinders

P038 (#1 Rotoblast)
#1 Rotoblast

P039 (#2 Rotoblast)
#2 Rotoblast

P040 (Blast Room)
Blast Room

P042 (Unit #3 Mold Making and Sand Preparation)
Unit #3 Sand Preparation

P046 (Furnace Raw Material Handling and Preparation)

Material Handling System For Transferring Raw Materials To The Cupola Furnace

P047 (Smelter #1)
Smelting Furnace For Vitreous Enamel Production

P048 (Smelter #2)
Smelting Furnace For Vitreous Enamel Production

P049 (Smelter #3)
Smelting Furnace For Vitreous Enamel Production

P054 (Unit #1 Shakeout)
Unit #1 Shakeout

P055 (Unit #2 Shakeout)
Unit #2 Shakeout

P056 (Unit #3 Shakeout)
Unit #3 Shakeout

P063 (Unit #1 & 2 Mold Making and Sand Preparation)
Unit #1 & 2 Sand Preparation

P064 (Mill Room Mixer)
Raw Material Blending For Production Of Frit In The Smelters

P065 (Final Ball Milling)
Ball Mills Used To Crush The Vitreous Enamel Product From The Smelters Into A Fine Powder

P066 (Hardinge Ball Milling)
Ball Mills Used To Crush The Vitreous Enamel Product From The Smelters Into A Fine Powder

P067 (Peak Use Generator)
Diesel generator to provide electricity

P901 (Cast Iron Cupola #1)
Cast Iron Cupola #1

P902 (Cast Iron Cupola #3)
Cast Iron Cupola #3

R001 (Tub Ground Coat & Oven)
Surface Coating Line For The Application Of Primer To Tubs and Heating for Water Vapor Flashoff

R002 (Smallware Ground Coat & Oven)
Surface Coating Line For The Application Of Primer To Sinks and Heating for Water Vapor Flashoff

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-04(A) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

Described below is the current Ohio EPA District Office or local air agency that is responsible for processing and administering your Title V permit:

Northeast District Office
2110 East Aurora Road
Twinsburg, OH 44087
(330) 425-9171

OHIO ENVIRONMENTAL PROTECTION AGENCY

_____

Christopher Jones
Director

PART I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Section

1. Monitoring and Related Recordkeeping and Reporting Requirements

a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:

i. The date, place (as defined in the permit), and time of sampling or measurements.
ii. The date(s) analyses were performed.
iii. The company or entity that performed the analyses.
iv. The analytical techniques or methods used.
v. The results of such analyses.
vi. The operating conditions existing at the time of sampling or measurement.

b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:

i. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
ii. Quarterly written reports of (i) any deviations from federally enforceable <u>emission limitations</u>, <u>operational restrictions</u>, <u>and control device operating parameter limitations</u>, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. These quarterly written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six months and OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations except malfunctions, which shall be reported in accordance with OAC rule 3745-15-06. The written reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.) See B.8 below if no deviations occurred during the quarter.
iii. Written reports, which identify any deviations from the federally enforceable <u>monitoring, recordkeeping, and reporting requirements</u> contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. These semi-annual written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i)

and (ii) pertaining to the reporting of any deviations related to the monitoring, recordkeeping, and reporting requirements. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.

iv. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

2. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports submitted pursuant to OAC rule 3745-15-06 shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of deviations caused by malfunctions or upsets.

Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

3. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

4. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

5. Severability Clause

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

6. General Requirements

a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.

b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.

c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.

d. This permit does not convey any property rights of any sort, or any exclusive privilege.

e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

7. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78.

8. Marketable Permit Programs

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

9. Reasonably Anticipated Operating Scenarios

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these general terms and conditions shall apply to all operating scenarios authorized in this permit.

10. Reopening for Cause

This Title V permit will be reopened prior to its expiration date under the following conditions:

a. Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than

the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.

b. This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.

c. The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.

d. The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

11. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

12. Compliance Requirements

a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:

i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.
iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.

c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement.

Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:

i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

d. Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the appropriate Ohio EPA District Office or local air agency in the following manner and with the following content:

i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.
ii. Compliance certifications shall include the following:

(a) An identification of each term or condition of this permit that is the basis of the certification.
(b) The permittee's current compliance status.
(c) Whether compliance was continuous or intermittent.
(d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.
(e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.

iii. Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

13. Permit Shield

a. Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.

b. This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

14. Operational Flexibility

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed

therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

15. Emergencies

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

16. Off Permit Changes

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

a. The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition;

b. The permittee provides contemporaneous written notice of the change to the director and the administrator, except that no such notice shall be required for changes that qualify as insignificant emission levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change;

c. The change shall not qualify for the permit shield under OAC rule 3745-77-07(F);

d. The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes; and

e. The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit to install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

(For further clarification, the permittee can refer to Engineering Guide #63 that is available in their STARSHIP software package.)

17. Compliance Method Requirements

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Fed. Reg. 8314, Feb. 24, 1997), in the context of any future proceeding.

18. Insignificant Activity

Each insignificant activity that has one or more applicable requirements shall comply with those applicable requirements.

B. State Only Enforceable Section

1. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.

b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

Part II - Specific Facility Terms and Conditions

A. State and Federally Enforceable Section

None

B. State Only Enforceable Section

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

F002 - Core Mixing, Making and Baking
P031 - 5 & 6 Tub Weld Booth
P032 - 1 & 2 Smallware Weld Booth
P903 - Sand/Additive Unloading & Storage Pre-Mix Bond System
Z001 - Induction Furnace and Transfer Ladles
Z005 - Parts Washer - Garage
Z006 - Parts Washer - Compressor Room (detergent based)
Z007 - Parts Washer - Enamel Maintenance Area (detergent based)
Z008 - Parts Washer (detergent based)
Z009 - Parts Washer - Oil House
Z010 - Parts Washer - Engine Room (detergent based)
Z011 - Parts Washer - Engine Room
Z012 - Parts Washer - Foundry
Z013 - Parts Washer - Steel Storage

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

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Plant Roadways and Parking Areas (F001)

Activity Description: Vehicle traffic, that results in fugitive emissions

A. State and Federally Enforceable Section

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

2. Additional Terms and Conditions

2.a The paved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:

Paved Roadways:

All paved roadways associated with the following locations at the facility:

Product H area 0.27 mile
Product L area 0.34 mile
Product M area 0.23 mile

Paved Parking Areas:

All paved parking areas associated with the facility.

2. Additional Terms and Conditions (continued)

2.b The unpaved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:

Unpaved Roadways:

All unpaved roadways associated with the following locations at the facility:

Deliveries HDV area	0.30 mile
Deliveries MDV area	0.34 mile
Forklift area	0.27 mile

Unpaved Parking Areas:

All unpaved parking areas associated with the facility.

2.c The permittee shall employ reasonably available control measures on all paved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the paved roadways and parking areas by flushing with water, sweeping, and/or watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

2.d The permittee shall employ reasonably available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved roadways and parking areas with water and/or any other suitable dust suppression chemicals at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

2.e The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved or unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.

2.f Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure(s) specified above for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.

2.g The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.

2.h Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.

2.i Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08.

II. Operational Restrictions

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

a.The permittee shall certify or posess certification that all dust suppressants used to control fugitive dust meet the PCB limitations set forth in 40 CFR 761, and that there are no listed hazardous wastes or characteristic hazardous wastes as set forth in 40 CFR 261.

b.The permittee shall not apply used oil as defined by OAC rule 3745-279-01(A)(12) as a dust suppressant.

c.The dust suppressant shall be applied in such a manner as to prevent pollution of waters of the State as required by the Ohio Revised Code, section 6111.

III. Monitoring and/or Record Keeping Requirements

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

Paved Roadways & Parking Areas	Minimum Inspection Frequency
Product H area	Weekly
Product L area	Weekly
Product M area	Weekly
All paved parking areas	Weekly

Unpaved Roadways & Parking Areas	Minimum Inspection Frequency
Deliveries HDV area	Daily
Deliveries MDV area	Daily
Forklift area	Daily
All unpaved parking areas	Daily

2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

3. The permittee may, upon receipt of written approval from the Ohio EPA, Northeast District Office, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

4. The permittee shall maintain records of the following information:

a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;

b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;

c. the dates the control measures were implemented; and

d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

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

IV. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:

a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and

b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

V. Testing Requirements

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Pouring and Cooling Unit 1 (F003)

Activity Description: Pouring & Cooling Molten Metal, Unit 1

A. State and Federally Enforceable Section

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
Pouring and cooling area for molds made on Line #1 partially vented to stacks EF-150 and EF-151.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-07(B)	Visible emissions of any fugitive dust shall not exceed 20% opacity, as a three-minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures (RACM) that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Additional Terms and Conditions A.I.2.a.
	OAC rule 3745-18-06(E)(2)	87.0 pounds per hour of sulfur dioxide emissions. See section A.III.3.
	OAC rule 3745-17-11(B)(1)	10.0 pounds per hour of particulate emissions total for all stack emissions. See Additional Terms and Conditions A.I.2.b.

2. Additional Terms and Conditions

2.a RACM has been determined to be no controls, but visible emissions of fugitive dust escaping the capture hoods associated with this emissions unit shall not exceed 20% opacity, as a three-minute average. The visible emissions of fugitive dust shall be determined by observations of building openings (doors, windows, etc.).

2.b The allowable mass rate of PE based on Table I of OAC rule 3745-17-11 is 11.9 pounds per hour. To ensure that Figure II of OAC rule 3745-17-11 will not be applicable, the PE from this emissions unit shall be less than 10 pounds per hour. To show compliance with the allowable hourly PE rate, stack emission testing will be required to be performed for this emissions unit.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions from the stacks. The presence or absence of any visible emissions from the stacks shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from this emissions unit. The presence or absence of any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

3. No monitoring or record keeping is required for the SO2 emission limit for this emissions unit because the maximum uncontrolled emission rate of SO2 cannot exceed the allowable emission limit.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions were observed from the stacks associated with this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions of fugitive dust. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Emission Limitation:
10.0 pounds per hour of particulate emissions

Applicable Compliance Method:

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

a. The emission testing shall be conducted within 3 months after issuance of the permit.

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

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northeast District Office.

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Northeast District Office.

V. Testing Requirements (continued)

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

Personnel from the Ohio EPA, Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Northeast District Office.

2. Emission Limitation:
20% opacity for stack visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA reference method 9.

3. Emission Limitation:
20% opacity for fugitive dust

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

4. Compliance with the SO2 emission limitation in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:

Compliance shall be demonstrated by multiplying the maximum production rate (tons iron per hour) by the emission factor of 0.02 pound of SO2 per ton iron (SCC 30400320, U.S. EPA Source Classification Codes and Factor Information Retrieval (FIRE) Data System, Version 6.20)

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Pouring and Cooling Unit 2 (F010)

Activity Description: Pouring & Cooling Molten Metal, Unit 2

A. State and Federally Enforceable Section

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
Pouring and cooling area for molds made on Line #2 partially vented to stacks EF-150 and EF-152.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-07(B)	Visible emissions of any fugitive dust shall not exceed 20% opacity, as a three-minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures (RACM) that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Additional Terms and Conditions A.I.2.a.
	OAC rule 3745-18-06(E)(2)	87.0 pounds per hour of sulfur dioxide emissions. See section A.III.3.
	OAC rule 3745-17-11(B)(1)	10.0 pounds per hour of particulate emissions total for all stack emissions. See Additional Terms and Conditions A.I.2.b.

2. Additional Terms and Conditions

2.a RACM has been determined to be no controls, but visible emissions of fugitive dust escaping the capture hoods associated with this emissions unit shall not exceed 20% opacity, as a three-minute average. The visible emissions of fugitive dust shall be determined by observations of building openings (doors, windows, etc.).

2.b The allowable mass rate of PE based on Table I of OAC rule 3745-17-11 is 11.9 pounds per hour. To ensure that Figure II of OAC rule 3745-17-11 will not be applicable, the PE from this emissions unit shall be less than 10 pounds per hour. To show compliance with the allowable hourly PE rate, stack emission testing will be required to be performed for this emissions unit.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions from the stacks. The presence or absence of any visible emissions from the stacks shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from this emissions unit. The presence or absence of any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

3. No monitoring or record keeping is required for the SO2 emission limit for this emissions unit because the maximum uncontrolled emission rate of SO2 cannot exceed the allowable emission limit.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions were observed from the stacks associated with this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions of fugitive dust. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Emission Limitation:
10.0 pounds per hour of particulate emissions

Applicable Compliance Method:

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

a. The emission testing shall be conducted within 3 months after issuance of the permit.

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

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northeast District Office.

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Northeast District Office.

V. Testing Requirements (continued)

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

Personnel from the Ohio EPA, Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Northeast District Office.

2. Emission Limitation:
20% opacity for stack visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA reference method 9.

3. Emission Limitation:
20% opacity for fugitive dust

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

4. Compliance with the SO2 emission limitation in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:

Compliance shall be demonstrated by multiplying the maximum production rate (tons iron per hour) by the emission factor of 0.02 pound of SO2 per ton iron (SCC 30400320, U.S. EPA Source Classification Codes and Factor Information Retrieval (FIRE) Data System, Version 6.20)

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Pouring and Cooling Unit 3 (F011)

Activity Description: Pouring & Cooling Molten Metal, Unit 3

A. State and Federally Enforceable Section

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
Pouring and cooling area for molds made on Line #3 partially vented to stacks EF-153, EF-154 and EF-155.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-07(B)	Visible emissions of any fugitive dust shall not exceed 20% opacity, as a three-minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures (RACM) that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Additional Terms and Conditions A.I.2.a.
	OAC rule 3745-18-06(E)(2)	141.3 pounds per hour of sulfur dioxide emissions. See section A.III.3.
	OAC rule 3745-17-11(B)(1)	10.0 pounds per hour of particulate emissions total for all stack emissions. See Additional Terms and Conditions A.I.2.b.

2. Additional Terms and Conditions

2.a RACM has been determined to be no controls, but visible emissions of fugitive dust escaping the capture hoods associated with this emissions unit shall not exceed 20% opacity, as a three-minute average. The visible emissions of fugitive dust shall be determined by observations of building openings (doors, windows, etc.).

2.b The allowable mass rate of PE based on Table I of OAC rule 3745-17-11 is 19.3 pounds per hour. To ensure that Figure II of OAC rule 3745-17-11 will not be applicable, the PE from this emissions unit shall be less than 10 pounds per hour. To show compliance with the allowable hourly PE rate, stack emission testing will be required to be performed for this emissions unit.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions from the stacks. The presence or absence of any visible emissions from the stacks shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from this emissions unit. The presence or absence of any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

3. No monitoring or record keeping is required for the SO2 emission limit for this emissions unit because the maximum uncontrolled emission rate of SO2 cannot exceed the allowable emission limit.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions were observed from the stacks associated with this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions of fugitive dust. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Emission Limitation:
10.0 pounds per hour of particulate emissions

Applicable Compliance Method:

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

a. The emission testing shall be conducted within 3 months after issuance of the permit.

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

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northeast District Office.

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Northeast District Office.

V. Testing Requirements (continued)

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

Personnel from the Ohio EPA, Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Northeast District Office.

2. Emission Limitation:
20% opacity for stack visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA reference method 9.

3. Emission Limitation:
20% opacity for fugitive dust

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

4. Compliance with the SO2 emission limitation in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:

Compliance shall be demonstrated by multiplying the maximum production rate (tons iron per hour) by the emission factor of 0.02 pound of SO2 per ton iron (SCC 30400320, U.S. EPA Source Classification Codes and Factor Information Retrieval (FIRE) Data System, Version 6.20)

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Smallware Furnaces, Enameling (P001)

Activity Description: Smallware Baking Ovens and Enameling Application Operation.

A. State and Federally Enforceable Section

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
Smallware baking ovens and enameling application operation (not controlled).	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(1)	4.55 pounds per hour of particulate emissions total for all stack emissions. See Additional Terms and Conditions A.I.2.a.
	OAC rule 3745-17-07(B)	Visible emissions of any fugitive dust shall not exceed 20% opacity as a three-minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Additional Terms and Conditions A.I.2.b.

2. Additional Terms and Conditions

2.a The allowable mass rate of emission of particulate matter was based on Table I of OAC rule 3745-17-11 and was determined to be 4.55 pounds per hour. Figure II of OAC rule 3745-17-11 is not applicable because the uncontrolled mass rate of particulate emissions must be less than 10 pounds per hour.

2.b Visible emissions of fugitive dust associated with the enameling application operations shall not exceed 20% opacity, as a three-minute average. The visible emissions of fugitive dust shall be determined by observations of building openings (doors, windows, etc.).

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.

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.

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stacks serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from this emissions unit. The presence or absence of any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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.

2. The permittee shall submit semiannual written reports which:

a. identify all days during which any visible particulate emissions were observed from the stacks serving this emissions unit, and;

b. describe any corrective actions taken to eliminate the visible particulate emissions.

These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

3. The permittee shall submit semiannual written reports which:

a. identify all days during which any visible particulate emissions of fugitive dust were observed from this emissions unit, and;

b. describe any corrective actions taken to eliminate the visible emissions of fugitive dust.

These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Emission Limitation:
4.55 pounds per hour of particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the allowable particulate emission limit shall be determined in accordance with the following method(s): Methods 1 - 5 of 40 CFR Part 60, Appendix A. Based on the information provided in the Title V permit application, emissions units P001 and P013 are similar emissions units and are rated at the same capacity; therefore, particulate emissions testing only needs to be performed on one of the units.

V. Testing Requirements (continued)

2. Emission Limitation:
20% opacity for visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the allowable visible particulate emission limit shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1), using the methods and procedures specified in U.S. EPA reference Method 9.

3. To show compliance with the allowable hourly particulate emission rate, emission testing shall be required to be performed for one of the following emissions units: P001 (Smallware Furnace) or P013 (Tub Furnace).

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

a. The emission testing shall be conducted within 3 months after issuance of the permit.

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

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northeast District Office.

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Northeast District Office.

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

Personnel from the appropriate Ohio EPA, Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA, Northeast District Office.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Tub Furnaces, Enameling (P013)

Activity Description: Tubware Baking Ovens and Enameling Application Operation.

A. State and Federally Enforceable Section

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
Tubware baking ovens and enameling application operation (not controlled).	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(1)	4.66 pounds per hour of particulate emissions total for all stack emissions. See Additional Terms and Conditions A.I.2.a.
	OAC rule 3745-17-07(B)	Visible emissions of any fugitivedust shall not exceed 20% opacity as a three-minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Additional Terms and Conditions A.I.2.b.

2. Additional Terms and Conditions

2.a The allowable mass rate of emission of particulate matter was based on Table I of OAC rule 3745-17-11 and was determined to be 4.66 pounds per hour. Figure II of OAC rule 3745-17-11 is not applicable because the uncontrolled mass rate of particulate emissions must be less than 10 pounds per hour.

2.b Visible emissions of fugitive dust associated with the enameling application operations shall not exceed 20% opacity, as a three-minute average. The visible emissions of fugitive dust shall be determined by observations of building openings (doors, windows, etc.).

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.

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.

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stacks serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from this emissions unit. The presence or absence of any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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.

2. The permittee shall submit semiannual written reports which:

a. identify all days during which any visible particulate emissions were observed from the stacks serving this emissions unit, and;

b. describe any corrective actions taken to eliminate the visible particulate emissions.

These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

3. The permittee shall submit semiannual written reports which:

a. identify all days during which any visible particulate emissions of fugitive dust were observed from this emissions unit, and;

b. describe any corrective actions taken to eliminate the visible emissions of fugitive dust.

These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Emission Limitation:
4.66 pounds per hour of particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the allowable particulate emission limit shall be determined in accordance with the following method(s): Methods 1 - 5 of 40 CFR Part 60, Appendix A. Based on the information provided in the Title V permit application, emissions units P001 and P013 are similar emissions units and are rated at the same capacity; therefore, particulate emissions testing only needs to be performed on one of the units.

V. Testing Requirements (continued)

2. Emission Limitation:
20% opacity for visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the allowable visible particulate emission limit shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1), using the methods and procedures specified in U.S. EPA reference method 9.

3. To show compliance with the allowable hourly particulate emission rate, emission testing shall be required to be performed for one of the following emissions units: P001 (Smallware Furnace) or P013 (Tub Furnace).

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

a. The emission testing shall be conducted within 3 months after issuance of the permit.

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

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northeast District Office.

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Northeast District Office.

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

Personnel from the appropriate Ohio EPA, Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA, Northeast District Office.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Tub Grinding (P025)

Activity Description: Automatic And Manual Grinders

A. State and Federally Enforceable Section

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
Automatic and manual tub grinding operations equipped with 6 baghouses (CBDC-09, CBDC-10, CBDC-11, CBDC-12, CBDC-13 and CBDC-14) for particulate control.	OAC rule 3745-17-11(B)(1)	16.0 pounds per hour of particulate emissions. See Additional Terms and Conditions A.I.2.a.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-07(B)	Visible emissions of any fugitive dust shall not exceed 20% opacity as a three-minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Additional Terms and Conditions A.I.2.b.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions (PE) from this emissions unit is greater than 10 pounds per hour, based on emission factor calculations. The allowable mass rate of emissions of particulate matter based on Figure II of OAC rule 3745-17-11 is 16.0 pounds per hour. The allowable mass rate of emissions of particulate matter based on Table I of OAC rule 3745-17-11 is 19.3 pounds per hour. Therefore, the more stringent value of 16.0 pounds per hour of PE shall be the allowable mass emission rate for this emissions unit.

The tub grinding operations associated with this emissions unit that shall be vented to the baghouses are Bathtub Grinding Machine #7, Tub Grinder #24, Tub Grinder #25, Tub Grinder #26, Tub Grinder #29 and Tub Grinder #30.

2.b The collection efficiency of the air pollution capture hoods for this emissions unit shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at all points of capture. The permittee shall maintain all hoods and enclosures in good operating condition. The visible emissions of fugitive dust shall be determined by observations of building openings (doors, windows, etc.).

II. Operational Restrictions

1. The pressure drop across each of the baghouses (CBDC-09, CBDC-10, CBDC-11, CBDC-12, CBDC-13 and CBDC-14) shall be maintained within the range of 2 to 4.5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across each of the baghouses (CBDC-09, CBDC-10, CBDC-11, CBDC-12, CBDC-13 and CBDC-14) 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 record the pressure drop across each of the baghouses on a daily basis.

2. The permittee shall perform monthly inspections on all capture hoods and enclosures to ensure each hood and enclosure are in good operating condition.

3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from this emissions unit. The presence or absence of any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

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

2. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the capture hoods and/or enclosures were not maintained in good operating condition and the corrective actions taken.

3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions of fugitive dust. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Emission Limitation:
16.0 pounds per hour of particulate emissions (total from baghouses CBDC-09, CBDC-10, CBDC-11, CBDC-12, CBDC-13 and CBDC-14)

Applicable Compliance Method:
U.S. EPA Reference Methods 1-5 of 40 CFR Part 60, Appendix A

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

a. The emission testing shall be conducted within 3 months after issuance of the permit and within 6 months prior to permit expiration.

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

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northeast District Office.

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Northeast District Office.

Particulate emissions tests also shall be conducted at the inlets of the control devices to determine the uncontrolled mass rate of emissions for the emissions unit, for purposes of applying Figure II of OAC rule 3745-17-11. For this testing, Method 5 of 40 CFR Part 60, Appendix A shall be employed.

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

Personnel from the appropriate Ohio EPA, Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA, Northeast District Office.

2. Emission Limitation:
20% opacity for stack visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA reference Method 9.

V. Testing Requirements (continued)

3. Emission Limitation:
20% opacity for visible emissions of fugitive dust

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Smallware Grinding (P028)

Activity Description: Automatic And Manual Grinders

A. State and Federally Enforceable Section

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
Automatic and manual smallware grinding operations equipped with 6 baghouses (CBDC-15, CBDC-16, CBDC-17, CBDC-23, CBDC-28 and CBDC-29) for particulate control.	OAC rule 3745-17-11(B)(1)	15.6 pounds per hour of particulate emissions. See Additional Terms and Conditions A.I.2.a.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-07(B)	Visible emissions of any fugitive dust shall not exceed 20% opacity as a three-minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Additional Terms and Conditions A.I.2.b.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions (PE) from this emissions unit is greater than 10 pounds per hour, based on emission factor calculations. The allowable mass rate of emissions of particulate matter based on Figure II of OAC rule 3745-17-11 is 15.6 pounds per hour. The allowable mass rate of emission of particulate matter based on Table I of OAC rule 3745-17-11 is 18.8 pounds per hour. Therefore, the more stringent value of 15.6 pounds per hour of PE shall be the allowable mass emission rate for this emissions unit.

The smallware grinding operations associated with this emissions unit that shall be vented to the baghouses are Smallware Grinder #24, Smallware Grinder #25, Smallware Grinder #29 and Smallware Grinder #30.

2.b The collection efficiency of the air pollution capture hoods for this emissions unit shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at all points of capture. The permittee shall maintain all hoods and enclosures in good operating condition. The visible emissions of fugitive dust shall be determined by observations of building openings (doors, windows, etc.).

II. Operational Restrictions

1. The pressure drop across each of the baghouses (CBDC-15, CBDC-16, CBDC-17, CBDC-28 and CBDC-29) shall be maintained within the range of 2 to 4.5 inches of water and the pressure drop across baghouse CBDC-23 shall be maintained within the range of 3 to 4 inches of water while the emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across each of the baghouses (CBDC-15, CBDC-16, CBDC-17, CBDC-23, CBDC-28 and CBDC-29) 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 record the pressure drop across each of the baghouses on a daily basis.

2. The permittee shall perform monthly inspections on all capture hoods and enclosures to ensure each hood and enclosure are in good operating condition.

3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from this emissions unit. The presence or absence of any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

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

2. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the capture hoods and/or enclosures were not maintained in good operating condition and the corrective actions taken.

3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions of fugitive dust. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Emission Limitation:
15.6 pounds per hour of particulate emissions (total from baghouses CBDC-15, CBDC-16, CBDC-17, CBDC-23, CBDC-28 and CBDC-29)

Applicable Compliance Method:
U.S. EPA Reference Methods 1-5 of 40 CFR Part 60, Appendix A

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

a. The emission testing shall be conducted within 3 months after issuance of the permit and within 6 months prior to permit expiration.

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

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northeast District Office.

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Northeast District Office.

Particulate emissions tests also shall be conducted at the inlets of the control devices to determine the uncontrolled mass rate of emissions for the emissions unit, for purposes of applying Figure II of OAC rule 3745-17-11. For this testing, Method 5 of 40 CFR Part 60, Appendix A shall be employed.

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

Personnel from the appropriate Ohio EPA, Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA, Northeast District Office.

2. Emission Limitation:
20% opacity for stack visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA reference Method 9.

V. Testing Requirements (continued)

3. Emission Limitation:
20% opacity for visible emissions of fugitive dust

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: #1 Rotoblast (P038)

Activity Description: #1 Rotoblast

A. State and Federally Enforceable Section

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
#1 Rotoblast operations equipped with baghouse CBDC-08 for particulate control.	OAC rule 3745-17-11(B)(1)	18.1 pounds per hour of particulate emissions. See Additional Terms and Conditions A.I.2.a.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-07(B)	Visible emissions of any fugitive dust shall not exceed 20% opacity as a three-minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Additional Terms and Conditions A.I.2.b.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions (PE) from this emissions unit is greater than 10 pounds per hour, based on emission factor calculations. The allowable mass rate of emissions of particulate matter based on Figure II of OAC rule 3745-17-11 is 18.1 pounds per hour. The allowable mass rate of emission of particulate matter based on Table I of OAC rule 3745-17-11 is 21.8 pounds per hour. Therefore, the more stringent value of 18.1 pounds per hour of PE shall be the allowable mass emission rate for this emissions unit.

The equipment associated with this emissions unit that shall be vented to the baghouse is a Pangborn Shotblast.

2.b The collection efficiency of the air pollution capture hoods for this emissions unit shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at all points of capture. The permittee shall maintain all hoods and enclosures in good operating condition. The visible emissions of fugitive dust shall be determined by observations of building openings (doors, windows, etc.).

II. Operational Restrictions

1. The pressure drop across the baghouse (CBDC-08) shall be maintained within the range of 2 to 4.5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse (CBDC-08) 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 record the pressure drop across the baghouse on a daily basis.

2. The permittee shall perform monthly inspections on all capture hoods and enclosures to ensure each hood and enclosure are in good operating condition.

3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from this emissions unit. The presence or absence of any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

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

2. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the capture hoods and/or enclosures were not maintained in good operating condition and the corrective actions taken.

3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions of fugitive dust. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Emission Limitation:
18.1 pounds per hour of particulate emissions (baghouse CBDC-08)

Applicable Compliance Method:
U.S. EPA Reference Methods 1-5 of 40 CFR Part 60, Appendix A

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

a. The emission testing shall be conducted within 3 months after issuance of the permit and within 6 months prior to permit expiration.

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

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northeast District Office.

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Northeast District Office.

A particulate emissions test also shall be conducted at the inlet of the control device to determine the uncontrolled mass rate of emissions for the emissions unit, for purposes of applying Figure II of OAC rule 3745-17-11. For this testing, Method 5 of 40 CFR Part 60, Appendix A shall be employed.

V. Testing Requirements (continued)

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

Personnel from the appropriate Ohio EPA, Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA, Northeast District Office.

2. Emission Limitation:
20% opacity for stack visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA reference Method 9.

3. Emission Limitation:
20% opacity for visible emissions of fugitive dust

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: #2 Rotoblast (P039)

Activity Description: #2 Rotoblast

A. State and Federally Enforceable Section

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
#2 Rotoblast operations equipped with baghouses CBDC-18, CBDC-19 and FBDC-21 for particulate control.	OAC rule 3745-17-11(B)(1)	17.7 pounds per hour of particulate emissions. See Additional Terms and Conditions A.I.2.a.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-07(B)	Visible emissions of any fugitive dust shall not exceed 20% opacity as a three-minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Additional Terms and Conditions A.I.2.b.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions (PE) from this emissions unit is greater than 10 pounds per hour, based on emission factor calculations. The allowable mass rate of emissions of particulate matter based on Figure II of OAC rule 3745-17-11 is 17.7 pounds per hour. The allowable mass rate of emission of particulate matter based on Table I of OAC rule 3745-17-11 is 21.4 pounds per hour. Therefore, the more stringent value of 17.7 pounds per hour of PE shall be the allowable mass emission rate for this emissions unit.

The equipment associated with this emissions unit that shall be vented to the baghouses is a Pangborn Shotblast.

2.b The collection efficiency of the air pollution capture hoods for this emissions unit shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at all points of capture. The permittee shall maintain all hoods and enclosures in good operating condition. The visible emissions of fugitive dust shall be determined by observations of building openings (doors, windows, etc.).

II. Operational Restrictions

1. The pressure drop across the baghouses (CBDC-18, CBDC-19 and FBDC-21) shall be maintained within the range of 2 to 4.5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouses (CBDC-18, CBDC-19 and FBDC-21) 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 record the pressure drop across the baghouses on a daily basis.

2. The permittee shall perform monthly inspections on all capture hoods and enclosures to ensure each hood and enclosure are in good operating condition.

3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from this emissions unit. The presence or absence of any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

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

2. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the capture hoods and/or enclosures were not maintained in good operating condition and the corrective actions taken.

3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions of fugitive dust. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Emission Limitation:
17.7 pounds per hour of particulate emissions (total from baghouses CBDC-18, CBDC-19 and FBDC-21)

Applicable Compliance Method:
U.S. EPA Reference Methods 1-5 of 40 CFR Part 60, Appendix A

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

a. The emission testing shall be conducted within 3 months after issuance of the permit and within 6 months prior to permit expiration.

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

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northeast District Office.

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Northeast District Office.

A particulate emissions test also shall be conducted at the inlets of the control device to determine the uncontrolled mass rate of emissions for the emissions unit, for purposes of applying Figure II of OAC rule 3745-17-11. For this testing, Method 5 of 40 CFR Part 60, Appendix A shall be employed.

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

Personnel from the appropriate Ohio EPA, Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA, Northeast District Office.

2. Emission Limitation:
20% opacity for stack visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA reference Method 9.

3. Emission Limitation:
20% opacity for visible emissions of fugitive dust

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Blast Room (P040)

Activity Description: Blast Room

A. State and Federally Enforceable Section

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
Blast room operations equipped with baghouses CBDC-04 and CBDC-05 for particulate control.	OAC rule 3745-17-11(B)(1)	7.78 pounds per hour of particulate emissions. See Additional Terms and Conditions A.I.2.a.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-07(B)	Visible emissions of any fugitive dust shall not exceed 20% opacity as a three-minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Additional Terms and Conditions A.I.2.b.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions (PE) from this emissions unit is greater than 10 pounds per hour, based on emission factor calculations. The allowable mass rate of emissions of particulate matter based on Figure II of OAC rule 3745-17-11 is 7.78 pounds per hour. The allowable mass rate of emissions of particulate matter based on Table I of OAC rule 3745-17-11 is 9.12 pounds per hour. Therefore, the more stringent value of 7.78 pounds per hour of PE shall be the allowable mass emission rate for this emissions unit.

The equipment associated with this emissions unit that shall be vented to the baghouses is a Pangborn Barrel Shotblast.

2.b The collection efficiency of the air pollution capture hoods for this emissions unit shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at all points of capture. The permittee shall maintain all hoods and enclosures in good operating condition. The visible emissions of fugitive dust shall be determined by observations of building openings (doors, windows, etc.).

II. Operational Restrictions

1. The pressure drop across the baghouses (CBDC-04 and CBDC-05) shall be maintained within the range of 2 to 4.5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouses (CBDC-04 and CBDC-05) 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 record the pressure drop across the baghouses on a daily basis.

2. The permittee shall perform monthly inspections on all capture hoods and enclosures to ensure each hood and enclosure are in good operating condition.

3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from this emissions unit. The presence or absence of any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

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

2. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the capture hoods and/or enclosures were not maintained in good operating condition and the corrective actions taken.

3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions of fugitive dust. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Emission Limitation:
7.78 pounds per hour of particulate emissions (total from baghouses CBDC-04 and CBDC-05)

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the allowable particulate emission limit shall be determined in accordance with the following method(s): Methods 1 - 5 of 40 CFR Part 60, Appendix A.

2. Emission Limitation:
20% opacity for stack visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA reference Method 9.

3. Emission Limitation:
20% opacity for visible emissions of fugitive dust

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Unit #3 Mold Making and Sand Preparation (P042)

Activity Description: Unit #3 Sand Preparation

A. State and Federally Enforceable Section

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
Unit #3 sand preparation operations including rotary screens and mullers equipped with baghouse FBDC-01 for particulate control.	OAC rule 3745-17-11(B)(1)	58.6 pounds per hour of particulate emissions. See Additional Terms and Conditions A.I.2.a.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-07(B)	Visible emissions of any fugitive dust shall not exceed 20% opacity as a three-minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures (RACM) that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Additional Terms and Conditions A.I.2.b.
Bucket elevator, belt conveyors and storage bins	OAC rule 3745-17-07(B)	Visible emissions of any fugitive dust shall not exceed 20% opacity as a three-minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures (RACM) that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Additional Terms and Conditions A.I.2.c.

2. Additional Terms and Conditions

2.a The allowable mass rate of PE was based on Table I of OAC rule 3745-17-11 and is 58.6 pounds per hour. To show compliance with the allowable hourly PE rate, stack emission testing will be required to be performed for this emissions unit. If the uncontrolled mass rate of emission (UMRE) is greater than 10 pounds per hour, Figure II of OAC rule 3745-17-11 shall apply.

The equipment associated with this emissions unit which shall be vented to the baghouse are the rotary screens and mullers.

2. Additional Terms and Conditions (continued)

2.b The collection efficiency of the air pollution capture hoods for this emissions unit shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at all points of capture. The permittee shall maintain all hoods and enclosures in good operating condition. The visible emissions of fugitive dust shall be determined by observations of building openings (doors, windows, etc.).

2.c The operations not controlled by the baghouse serving this emissions unit (bucket elevator, belt conveyors, storage bins) shall be adequately enclosed to minimize or eliminate visible emissions of fugitive dust.

II. Operational Restrictions

1. The pressure drop across the baghouse (FBDC-01) shall be maintained within the range of 2 to 4.5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse (FBDC-01) 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 record the pressure drop across the baghouse on a daily basis.

2. The permittee shall perform monthly inspections on all capture hoods and enclosures to ensure each hood and enclosure are in good operating condition.

3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from this emissions unit. The presence or absence of any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

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

2. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the capture hoods and/or enclosures were not maintained in good operating condition and the corrective actions taken.

3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions of fugitive dust. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Emission Limitation:
58.6 pounds per hour of particulate emissions (from baghouse FBDC-01)

Applicable Compliance Method:
U.S. EPA Reference Methods 1-5 of 40 CFR Part 60, Appendix A

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

a. The emission testing shall be conducted within 3 months after issuance of the permit and within 6 months prior to permit expiration.

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

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northeast District Office.

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Northeast District Office.

A particulate emissions test also shall be conducted at the inlet of the control device and at the uncontrolled stacks to determine the uncontrolled mass rate of emissions for the emissions unit, for purposes of applying Figure II of OAC rule 3745-17-11. For this testing, Method 5 of 40 CFR Part 60, Appendix A shall be employed.

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

Personnel from the appropriate Ohio EPA, Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA, Northeast District Office.

2. Emission Limitation:
20% opacity for stack visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA reference Method 9.

V. Testing Requirements (continued)

3. Emission Limitation:
20% opacity for visible emissions of fugitive dust

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Furnace Raw Material Handling and Preparation (P046)

Activity Description: Material Handling System For Transferring Raw Materials To The Cupola Furnace

A. State and Federally Enforceable Section

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
Material handling operations (receiving hopper, conveyors, weigh hopper and skip hoist bin) for transferring raw materials to the cupola. Baghouses FBDC-20 and FBDC-24 are used for particulate control.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-07(B)	Visible emissions of any fugitive dust shall not exceed 20% opacity, as a three-minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures (RACM) that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Additional Terms and Conditions A.I.2.b.
	OAC rule 3745-17-11(B)(1)	33.2 pounds per hour of particulate emissions. See Additional Terms and Conditions A.I.2.a.
Dump truck and front end loader operations, temporary outdoor storage piles, limestone/coke storage bin, scrap iron storage area and hoist magnet	OAC rule 3745-17-07(B)	Visible emissions of any fugitive dust shall not exceed 20% opacity, as a three-minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Additional Terms and Conditions A.I.2.c.

2. Additional Terms and Conditions

2.a The allowable mass rate of PE was based on Table I of OAC rule 3745-17-11 and is 33.2 pounds per hour. To show compliance with the allowable hourly PE rate, stack emission testing will be required to be performed for this emissions unit. If the uncontrolled mass rate of emission (UMRE) is greater than 10 pounds per hour, Figure II of OAC rule 3745-17-11 shall apply.

The equipment associated with this emissions unit which shall be vented to the baghouse are the receiving hopper, conveyors, weigh hopper and skip hoist bin.

2.b The collection efficiency of the air pollution capture hoods for this emissions unit shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at all points of capture. The permittee shall maintain all hoods and enclosures in good operating condition. The visible emissions of fugitive dust shall be determined by observations of building openings (doors, windows, etc.).

2.c RACM from these operations (dump truck and front end loader operations, temporary outdoor storage piles, limestone/coke storage bin, scrap iron storage area and hoist magnet) has been determined to be no controls, but visible emissions of fugitive dust shall not exceed 20% opacity as a three-minute average.

II. Operational Restrictions

1. The pressure drop across the baghouses (FBDC-20 and FBDC-24) shall be maintained within the range of 2 to 4.5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouses 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 record the pressure drop across each of the baghouses on a daily basis.

2. The permittee shall perform monthly inspections on all capture hoods and enclosures to ensure each hood and enclosure are in good operating condition.

3. The permittee shall perform weekly checks of each of the material handling operations, identified in A.I.2.c, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust. The presence or absence of any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

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

2. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the capture hoods and/or enclosures were not maintained in good operating condition and the corrective actions taken.

3. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

IV. Reporting Requirements (continued)

4. The permittee shall submit semiannual written reports which:

a. identify all days during which any visible particulate emissions of fugitive dust were observed from this emissions unit, and;

b. describe any corrective actions taken to eliminate the visible emissions of fugitive dust.

These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Emission Limitation:
33.2 pounds per hour of particulate emissions (from baghouses FBDC-20 and FBDC-24)

Applicable Compliance Method:
U.S. EPA Reference Methods 1-5 of 40 CFR Part 60, Appendix A

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

a. The emission testing shall be conducted within 3 months after issuance of the permit and within 6 months prior to permit expiration.

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

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northeast District Office.

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Northeast District Office.

Particulate emissions tests also shall be conducted at the inlets of the control devices and at the uncontrolled stacks to determine the uncontrolled mass rate of emissions for the emissions unit, for purposes of applying Figure II of OAC rule 3745-17-11. For this testing, Method 5 of 40 CFR Part 60, Appendix A shall be employed.

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

Personnel from the Ohio EPA, Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Northeast District Office.

V. Testing Requirements (continued)

2. Emission Limitation:
20% opacity for stack visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA reference Method 9.

3. Emission Limitation:
20% opacity for fugitive dust

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Smelter #1 (P047)

Activity Description: Smelting Furnace For Vitreous Enamel Production

A. State and Federally Enforceable Section

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
Smelting Furnace #1 for vitreous enamel production (not controlled).	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(1)	4.26 pounds per hour of particulate emissions. See Additional Terms and Conditions A.I.2.a.

2. Additional Terms and Conditions

2.a The allowable mass rate of emission of particulate matter was based on Table I of OAC rule 3745-17-11 and was determined to be 4.26 pounds per hour. Figure II of OAC rule 3745-17-11 is not applicable because the uncontrolled mass rate of particulate emissions must be less than 10 pounds per hour.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.

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.

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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.

IV. Reporting Requirements (continued)

2. The permittee shall submit semiannual written reports which:

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 eliminate the visible particulate emissions.

These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Emission Limitation:
4.26 pounds per hour of particulate emissions

Applicable Compliance Method:
Compliance with the allowable particulate emission limit shall be determined in accordance with the following method(s): Methods 1 - 5 of 40 CFR Part 60, Appendix A. Based on the information provided in the Title V permit application, emissions units P047, P048 and P049 are similar emissions units and are rated at the same capacity; therefore, particulate emissions testing only needs to be performed on one of the units.

2. Emission Limitation:
20% opacity for visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the allowable visible particulate emission limit shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1), using the methods and procedures specified in U.S. EPA reference method 9.

3. To show compliance with the allowable hourly particulate emission rate, stack emission testing shall be performed on one of the following emissions units: P047 (Smelter #1), P048 (Smelter #2), or P049 (Smelter #3).

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

a. The emission testing shall be conducted within 3 months after issuance of the permit.

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

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northeast District Office.

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Northeast District Office.

V. Testing Requirements (continued)

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

Personnel from the appropriate Ohio EPA, Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA, Northeast District Office.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Smelter #2 (P048)

Activity Description: Smelting Furnace For Vitreous Enamel Production

A. State and Federally Enforceable Section

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
Smelting Furnace #2 for vitreous enamel production (not controlled).	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(1)	4.26 pounds per hour of particulate emissions. See Additional Terms and Conditions A.I.2.a.

2. Additional Terms and Conditions

2.a The allowable mass rate of emission of particulate matter was based on Table I of OAC rule 3745-17-11 and was determined to be 4.26 pounds per hour. Figure II of OAC rule 3745-17-11 is not applicable because the uncontrolled mass rate of particulate emissions must be less than 10 pounds per hour.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.

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.

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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.

IV. Reporting Requirements (continued)

2. The permittee shall submit semiannual written reports which:

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 eliminate the visible particulate emissions.

These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Emission Limitation:
4.26 pounds per hour of particulate emissions

Applicable Compliance Method:
Compliance with the allowable particulate emission limit shall be determined in accordance with the following method(s): Methods 1 - 5 of 40 CFR Part 60, Appendix A. Based on the information provided in the Title V permit application, emissions units P047, P048 and P049 are similar emissions units and are rated at the same capacity; therefore, particulate emissions testing only needs to be performed on one of the units.

2. Emission Limitation:
20% opacity for visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the allowable visible particulate emission limit shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1), using the methods and procedures specified in U.S. EPA reference method 9.

3. To show compliance with the allowable hourly particulate emission rate, stack emission testing shall be performed on one of the following emissions units: P047 (Smelter #1), P048 (Smelter #2), or P049 (Smelter #3).

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

a. The emission testing shall be conducted within 3 months after issuance of the permit.

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

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northeast District Office.

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Northeast District Office.

V. Testing Requirements (continued)

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

Personnel from the appropriate Ohio EPA, Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA, Northeast District Office.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Smelter #3 (P049)

Activity Description: Smelting Furnace For Vitreous Enamel Production

A. State and Federally Enforceable Section

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
Smelting Furnace #3 for vitreous enamel production (not controlled).	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(1)	4.26 pounds per hour of particulate emissions. See Additional Terms and Conditions A.I.2.a.

2. Additional Terms and Conditions

2.a The allowable mass rate of emission of particulate matter was based on Table I of OAC rule 3745-17-11 and was determined to be 4.26 pounds per hour. Figure II of OAC rule 3745-17-11 is not applicable because the uncontrolled mass rate of particulate emissions must be less than 10 pounds per hour.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.

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.

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

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.

IV. Reporting Requirements (continued)

2. The permittee shall submit semiannual written reports which:

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 eliminate the visible particulate emissions.

These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Emission Limitation:
4.26 pounds per hour of particulate emissions

Applicable Compliance Method:
Compliance with the allowable particulate emission limit shall be determined in accordance with the following method(s): Methods 1 - 5 of 40 CFR Part 60, Appendix A. Based on the information provided in the Title V permit application, emissions units P047, P048 and P049 are similar emissions units and are rated at the same capacity; therefore, particulate emissions testing only needs to be performed on one of the units.

2. Emission Limitation:
20% opacity for visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the allowable visible particulate emission limit shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1), using the methods and procedures specified in U.S. EPA reference method 9.

3. To show compliance with the allowable hourly particulate emission rate, stack emission testing shall be performed on one of the following emissions units: P047 (Smelter #1), P048 (Smelter #2), or P049 (Smelter #3).

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

a. The emission testing shall be conducted within 3 months after issuance of the permit.

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

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northeast District Office.

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Northeast District Office.

V. Testing Requirements (continued)

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

Personnel from the appropriate Ohio EPA, Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA, Northeast District Office.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Unit #1 Shakeout (P054)

Activity Description: Unit #1 Shakeout

A. State and Federally Enforceable Section

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
Shakeout operations on Line #1	OAC rule 3745-17-07(B)	Visible emissions of any fugitive dust shall not exceed 20% opacity, as a three-minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures (RACM) that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Additional Terms and Conditions A.I.2.a. and A.VI.1.

2. Additional Terms and Conditions

2.a The permittee shall minimize or eliminate visible emissions of fugitive dust through the employment of reasonably available control measures (RACM). The collection efficiency of the air pollution capture hoods for this emissions unit shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at all points of capture. The control equipment shall achieve an outlet emission rate of not greater than 0.030 grain of particulate emissions (PE) per dry standard cubic foot of exhaust gases or no visible PE from the exhaust stack(s), whichever is less stringent.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform monthly inspections on all capture hoods and enclosures to ensure each hood and enclosure are in good operating condition.

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from this emissions unit. The presence or absence of any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

III. Monitoring and/or Record Keeping Requirements (continued)

3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the capture hoods and/or enclosures were not maintained in good operating condition and the corrective actions taken.

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions of fugitive dust. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

3. The permittee shall submit semiannual written reports which:

a. identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit, and;

b. describe any corrective actions taken to eliminate the visible particulate emissions.

These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Emission Limitation:
0.030 grain per dry standard cubic foot of exhaust gases

Applicable Compliance Method:
U.S. EPA Reference Methods 1-5 of 40 CFR Part 60, Appendix A

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

a. The emission testing shall be conducted within 6 months after issuance of the permit.

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

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northeast District Office.

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Northeast District Office.

V. Testing Requirements (continued)

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

Personnel from the appropriate Ohio EPA, Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA, Northeast District Office.

2. Emission Limitation:
No visible emissions for stack visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance shall be determined by visible emission evaluations using the methods and procedures specified in U.S. EPA reference Method 22.

3. Emission Limitation:
20% opacity for fugitive dust

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

VI. Miscellaneous Requirements

1. This emissions unit is currently not employing reasonably available control measures (RACM) for this emissions unit, which is a violation of OAC rule 3745-17-08. The permittee shall submit a control plan and compliance schedule for this emissions unit, within 2 months after issuance of the permit, that will achieve and thereafter maintain compliance with OAC rule 3745-17-08 within 6 months after issuance of the permit.

B. State Enforceable Section

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Unit #2 Shakeout (P055)

Activity Description: Unit #2 Shakeout

A. State and Federally Enforceable Section

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
Shakeout operations on Line #2	OAC rule 3745-17-07(B)	Visible emissions of any fugitive dust shall not exceed 20% opacity, as a three-minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures (RACM) that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Additional Terms and Conditions A.I.2.a. and A.VI.1.

2. Additional Terms and Conditions

2.a The permittee shall minimize or eliminate visible emissions of fugitive dust through the employment of reasonably available control measures (RACM). The collection efficiency of the air pollution capture hoods for this emissions unit shall be sufficient to minimize or eliminate visible emissions of fugitive dust at all points of capture. The control equipment shall achieve an outlet emission rate of not greater than 0.030 grain of particulate emissions (PE) per dry standard cubic foot of exhaust gases or no visible PE from the exhaust stack(s), whichever is less stringent.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform monthly inspections on all capture hoods and enclosures to ensure each hood and enclosure are in good operating condition.

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from this emissions unit. The presence or absence of any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

III. Monitoring and/or Record Keeping Requirements (continued)

3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the capture hoods and/or enclosures were not maintained in good operating condition and the corrective actions taken.

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions of fugitive dust. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

3. The permittee shall submit semiannual written reports which:

a. identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit, and;

b. describe any corrective actions taken to eliminate the visible particulate emissions.

These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Emission Limitation:
0.030 grain per dry standard cubic foot of exhaust gases

Applicable Compliance Method:
U.S. EPA Reference Methods 1-5 of 40 CFR Part 60, Appendix A

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

a. The emission testing shall be conducted within 6 months after issuance of the permit.

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

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northeast District Office.

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Northeast District Office.

V. Testing Requirements (continued)

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

Personnel from the appropriate Ohio EPA, Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA, Northeast District Office.

2. Emission Limitation:
No visible emissions for stack visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance shall be determined by visible emission evaluations using the methods and procedures specified in U.S. EPA reference Method 22.

3. Emission Limitation:
20% opacity for fugitive dust

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

VI. Miscellaneous Requirements

1. This emissions unit is currently not employing reasonably available control measures (RACM) for this emissions unit, which is a violation of OAC rule 3745-17-08. The permittee shall submit a control plan and compliance schedule for this emissions unit, within 2 months after issuance of the permit, that will achieve and thereafter maintain compliance with OAC rule 3745-17-08 within 6 months after issuance of the permit.

B. State Enforceable Section

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Unit #3 Shakeout (P056)

Activity Description: Unit #3 Shakeout

A. State and Federally Enforceable Section

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
Shakeout operations on Line #3 vented to a rotoclone (FSCR-30) for particulate control.	OAC rule 3745-17-07(B)	Visible emissions of any fugitive dust shall not exceed 20% opacity, as a three-minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures (RACM) that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Additional Terms and Conditions A.I.2.a.

2. Additional Terms and Conditions

2.a The permittee shall minimize or eliminate visible emissions of fugitive dust by venting the particulate emissions (PE) to a rotoclone (FSCR-30). The collection efficiency of the air pollution capture hoods for this emissions unit shall be sufficient to minimize or eliminate visible emissions of fugitive dust at all points of capture. The control equipment shall achieve an outlet emission rate of not greater than 0.030 grain of PE per dry standard cubic foot of exhaust gases or no visible PE from the exhaust stack(s), whichever is less stringent.

II. Operational Restrictions

1. The pressure drop across the rotoclone (FSCR-30) shall be maintained within the range of 2 to 6 inches of water while the emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform monthly inspections on all capture hoods and enclosures to ensure each hood and enclosure are in good operating condition.

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from this emissions unit. The presence or absence of any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

III. Monitoring and/or Record Keeping Requirements (continued)

3. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the rotoclone (FSCR-30) 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 record the pressure drop across the rotoclone on a daily basis.

4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the capture hoods and/or enclosures were not maintained in good operating condition and any corrective actions taken.

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

3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions of fugitive dust. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

4. The permittee shall submit semiannual written reports which:

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 eliminate the visible particulate emissions.

These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Emission Limitation:
0.030 grain per dry standard cubic foot

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the allowable particulate emission limit shall be determined in accordance with U.S. EPA Reference Methods 1 - 5 of 40 CFR Part 60, Appendix A.

2. Emission Limitation:
No visible emissions for stack visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance shall be determined by visible emission evaluations using the methods and procedures specified in U.S. EPA reference Method 22.

V. Testing Requirements (continued)

3. Emission Limitation:
20% opacity for fugitive dust

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Unit #1 & 2 Mold Making and Sand Preparation (P063)

Activity Description: Unit #1 & 2 Sand Preparation

A. State and Federally Enforceable Section

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
Unit #1 and #2 sand preparation operations including rotary screens and mullers equipped with baghouse FBDC-03 for particulate control.	OAC rule 3745-17-11(B)(1)	58.2 pounds per hour of particulate emissions. See Additional Terms and Conditions A.I.2.a.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-07(B)	Visible emissions of any fugitive dust shall not exceed 20% opacity as a three-minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures (RACM) that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Additional Terms and Conditions A.I.2.b.
Bucket elevator, belt conveyors and storage bins	OAC rule 3745-17-07(B)	Visible emissions of any fugitive dust shall not exceed 20% opacity as a three-minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures (RACM) that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Additional Terms and Conditions A.I.2.c.

2. Additional Terms and Conditions

2.a The allowable mass rate of PE was based on Table I of OAC rule 3745-17-11 and is 58.2 pounds per hour. To show compliance with the allowable hourly PE rate, stack emission testing will be required to be performed for this emissions unit. If the uncontrolled mass rate of emission (UMRE) is greater than 10 pounds per hour, Figure II of OAC rule 3745-17-11 shall apply.

The equipment associated with this emissions unit which shall be vented to the baghouse are the rotary screens and mullers.

2.b The collection efficiency of the air pollution capture hoods for this emissions unit shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at all points of capture. The permittee shall maintain all hoods and enclosures in good operating condition. The visible emissions of fugitive dust shall be determined by observations of building openings (doors, windows, etc.).

2.c The operations not controlled by the baghouse serving this emissions unit (bucket elevator, belt conveyors, storage bins) shall be adequately enclosed to minimize or eliminate visible emissions of fugitive dust.

II. Operational Restrictions

1. The pressure drop across the baghouse (FBDC-03) shall be maintained within the range of 2 to 4.5 inches of water while the emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse (FBDC-03) 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 record the pressure drop across the baghouse on a daily basis.

2. The permittee shall perform monthly inspections on all capture hoods and enclosures to ensure each hood and enclosure are in good operating condition.

3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from this emissions unit. The presence or absence of any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

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

2. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the capture hoods and/or enclosures were not maintained in good operating condition and the corrective actions taken.

3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions of fugitive dust. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Emission Limitation:
58.2 pounds per hour of particulate emissions (from baghouse FBDC-03)

Applicable Compliance Method:
U.S. EPA Reference Methods 1-5 of 40 CFR Part 60, Appendix A

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

a. The emission testing shall be conducted within 3 months after issuance of the permit and within 6 months prior to permit expiration.

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

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northeast District Office.

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Northeast District Office.

A particulate emissions test also shall be conducted at the inlet of the control device and at the uncontrolled stacks to determine the uncontrolled mass rate of emissions for the emissions unit, for purposes of applying Figure II of OAC rule 3745-17-11. For this testing, Method 5 of 40 CFR Part 60, Appendix A shall be employed.

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

Personnel from the appropriate Ohio EPA, Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA, Northeast District Office.

2. Emission Limitation:
20% opacity for stack visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA reference Method 9.

V. Testing Requirements (continued)

3. Emission Limitation:
20% opacity for visible emissions of fugitive dust

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Mill Room Mixer (P064)

Activity Description: Raw Material Blending For Production Of Frit In The Smelters

A. State and Federally Enforceable Section

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
Raw material blending for the production of frit in the smelters, equipped with a baghouse (MBDC-07) for particulate control.	OAC rule 3745-17-11(B)(1)	7.41 pounds per hour of particulate emissions. See Additional Terms and Conditions A.I.2.a.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-07(B)	Visible emissions of any fugitive dust shall not exceed 20% opacity as a three-minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Additional Terms and Conditions A.I.2.b.

2. Additional Terms and Conditions

2.a The allowable mass rate of particulate emissions (PE) was based on Table I of OAC rule 3745-17-11 and is 7.41 pounds per hour. To show compliance with the allowable hourly PE rate, stack emission testing will be required to be performed for this emissions unit. If the uncontrolled mass rate of emission (UMRE) is greater than 10 pounds per hour, Figure II of OAC rule 3745-17-11 shall apply.

The following equipment associated with this emissions unit shall be vented to the baghouse: barrel unloader, bucket elevator, screener, weigh scale and mixer feeder.

2.b The collection efficiency of the air pollution capture hoods for this emissions unit shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at all points of capture. The permittee shall maintain all hoods and enclosures in good operating condition. The visible emissions of fugitive dust shall be determined by observations of building openings (doors, windows, etc.).

II. Operational Restrictions

1. The pressure drop across baghouse MBDC-07 shall be maintained within the range of 3 to 4 inches of water while the emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse (MBDC-07) 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 record the pressure drop across the baghouse on a daily basis.

2. The permittee shall perform monthly inspections on all capture hoods and enclosures to ensure each hood and enclosure are in good operating condition.

3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from this emissions unit. The presence or absence of any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

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

2. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the capture hoods and/or enclosures were not maintained in good operating condition.

3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions of fugitive dust. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Emission Limitation:
7.41 pounds per hour of particulate emissions (from baghouse MBDC-07 and stack EF-18)

Applicable Compliance Method:
U.S. EPA Reference Methods 1-5 of 40 CFR Part 60, Appendix A

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

a. The emission testing shall be conducted within 3 months after issuance of the permit and within 6 months prior to permit expiration.

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

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northeast District Office.

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Northeast District Office.

A particulate emissions test also shall be conducted at the inlet of the control device and at the uncontrolled stack to determine the uncontrolled mass rate of emissions for the emissions unit, for purposes of applying Figure II of OAC rule 3745-17-11. For this testing, Method 5 of 40 CFR Part 60, Appendix A shall be employed.

V. Testing Requirements (continued)

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

Personnel from the appropriate Ohio EPA, Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA, Northeast District Office.

2. Emission Limitation:
20% opacity for stack visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA reference Method 9.

3. Emission Limitation:
20% opacity for visible emissions of fugitive dust

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Final Ball Milling (P065)

Activity Description: Ball Mills Used To Crush The Vitreous Enamel Product From The Smelters Into A Fine Powder

A. State and Federally Enforceable Section

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
Ball mills used to crush vitreous enamel product from the smelters into a fine powder, equipped with a baghouse (MBDC-06) for particulate control.	OAC rule 3745-31-05(A)(3) PTI No. 17-1504	Stack emissions: 0.37 pound per hour and 1.06 tons per year of particulate emissions. See Additional Terms and Conditions A.I.2.a. Fugitive emissions: 1.94 pounds per hour and 5.57 tons per year of particulate emissions. Visible particulate emissions from any stack shall not exceed 10% opacity as a six-minute average. Visible emissions of any fugitive dust shall not exceed 10% as a six-minute average. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-08.
	OAC rule 3745-17-11(B)(1)	The hourly stack emission limitation based on OAC rule 3745-17-11 is less stringent than the limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)(1)	The limitations based on OAC rule 3745-17-07(A) are less stringent than the limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(B)	The limitation based on OAC rule 3745-17-07(B) is less stringent than the limitation established pursuant to OAC rule 3745-31-05(A)(3).

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-17-08(B)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Additional Terms and Conditions A.I.2.b.

2. Additional Terms and Conditions

2.a The following equipment associated with this emissions unit shall be vented to the baghouse: 11 ball (rod) mills, 3 screens, 3 Hardinge mills, 2 unloading chutes and 3 smelter discharges.

2.b The collection efficiency of the air pollution capture hoods for this emissions unit shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at all points of capture. The visible emissions of fugitive dust shall be determined by observations of building openings (doors, windows, etc.).

II. Operational Restrictions

1. The pressure drop across the baghouse (MBDC-06) shall be maintained within the range of 3 to 4 inches of water while the emissions unit is in operation.

2. The maximum annual operating hours for this emissions unit shall not exceed 5,730 hours per year.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse (MBDC-06) 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 record the pressure drop across the baghouse on a daily basis.

2. The permittee shall perform monthly inspections on all capture hoods and enclosures to ensure each hood and enclosure are in good operating condition.

3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from this emissions unit. The presence or absence of any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

4. The permittee shall maintain the following records on a monthly basis:

a. the operating hours of this emissions unit, in hours per month;

b. the amount of material processed in this emissions unit, in tons per month; and

c. the average hourly processing rate, (b/a).

IV. Reporting Requirements

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

IV. Reporting Requirements (continued)

2. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the capture hoods and/or enclosures were not maintained in good operating condition and any corrective actions taken.

3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions of fugitive dust. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Emission Limitation:
0.37 pound per hour of particulate emissions (baghouse MBDC-06)

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the allowable particulate emission limit shall be determined in accordance with U.S. EPA Reference Methods 1 - 5 of 40 CFR Part 60, Appendix A.

2. Emission Limitation:
10% opacity for stack visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA reference Method 9.

3. Emission Limitation:
10% opacity for visible emissions of fugitive dust

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

4. Emission Limitation:
1.06 tons per year of particulate emissions

Applicable Compliance Method:
E (tons/yr) = (allowable hourly particulate emission rate, lbs/hr * actual hours of operation per year) / 2,000 lbs/ton

5. Emission Limitation:
1.94 pounds per hour of fugitive particulate emissions

Applicable Compliance Method:
E (lb/hr) = (maximum hourly ball milling processing rate, tons/hr) * EF * (1 - baghouse capture efficiency)

Where:

EF = 25.8 pounds of particulate emission per ton of material milled (from FIRE 6.22 database for ball milling, SCC 30503401)

baghouse capture efficiency = 95%

If required by the Ohio EPA, compliance with the allowable particulate emission limit shall be determined in accordance with U.S. EPA Reference Methods 1 - 5 of 40 CFR Part 60, Appendix A.

V. Testing Requirements (continued)

6. Emission Limitation:
5.57 tons per year of fugitive particulate emissions

Applicable Compliance Method:
E (tons/yr) = (allowable hourly emission rate, lbs/hr * actual hours of operation per year) / 2,000 lbs/ton

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Hardinge Ball Milling (P066)

Activity Description: Ball Mills Used To Crush The Vitreous Enamel Product From The Smelters Into A Fine Powder

A. State and Federally Enforceable Section

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
Ball mills used to crush vitreous enamel product from the smelters into a fine powder, equipped with a baghouse (MBDC-06, IBDC-31, IBDC-32 and IBDC-33) for particulate control.	OAC rule 3745-17-11(B)(1)	5.38 pounds per hour of particulate emissions. See Additional Terms and Conditions A.I.2.a.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-07(B)	Visible emissions of any fugitive dust shall not exceed 20% opacity as a three-minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Additional Terms and Conditions A.I.2.b.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions (PE) from this emissions unit is greater than 10 pounds per hour, based on emission factor calculations. The allowable mass rate of emission of particulate matter based on Figure II of OAC rule 3745-17-11 is 6.12 pounds per hour. The allowable mass rate of emission of particulate matter based on Table I of OAC rule 3745-17-11 is 5.38 pounds per hour. Therefore, the more stringent value of 5.38 pounds per hour of PE shall be the allowable mass emission rate for this emissions unit.

The following equipment associated with this emissions unit shall be vented to the baghouse: 3 Hardinge mills.

2.b The collection efficiency of the air pollution capture hoods for this emissions unit shall be sufficient to minimize or eliminate visible particulate emissions of fugitive dust at all points of capture. The visible emissions of fugitive dust shall be determined by observations of building openings (doors, windows, etc.).

II. Operational Restrictions

1. The pressure drop across the baghouses (IBDC-31, IBDC-32 and IBDC-33) shall be maintained within the range of 2 to 4.5 inches of water while the emissions unit is in operation. The pressure drop across the baghouse (MBDC-06) shall be maintained within the range of 3 to 4 inches of water while the emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouses (IBDC-31, IBDC-32, IBDC-33 and MBDC-06) 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 record the pressure drop across the baghouse on a daily basis.

2. The permittee shall perform monthly inspections on all capture hoods and enclosures to ensure each hood and enclosure are in good operating condition.

3. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from this emissions unit. The presence or absence of any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

IV. Reporting Requirements

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

2. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the capture hoods and/or enclosures were not maintained in good operating condition and any corrective actions taken.

3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions of fugitive dust. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Emission Limitation:
5.38 pounds per hour of particulate emissions (from baghouses IBDC-31, IBDC-32, IBDC-33 and MBDC-06 and stack EF-125)

Applicable Compliance Method:
U.S. EPA Reference Methods 1-5 of 40 CFR Part 60, Appendix A

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

a. The emission testing shall be conducted within 3 months after issuance of the permit and within 6 months prior to permit expiration.

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

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northeast District Office.

d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Northeast District Office.

Particulate emissions tests also shall be conducted at the inlets of the control devices and at the uncontrolled stack to determine the uncontrolled mass rate of emissions for the emissions unit, for purposes of applying Figure II of OAC rule 3745-17-11. For this testing, Method 5 of 40 CFR Part 60, Appendix A shall be employed.

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

Personnel from the appropriate Ohio EPA, Northeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Northeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA, Northeast District Office.

2. Emission Limitation:
20% opacity for stack visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA reference Method 9.

V. Testing Requirements (continued)

3. Emission Limitation:
20% opacity for visible emissions of fugitive dust

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Peak Use Generator (P067)

Activity Description: Diesel generator to provide electricity

A. State and Federally Enforceable Section

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
350 kW diesel generator used for providing electricity for an air compressor.	OAC rule 3745-31-05(D) PTI No. 17-1645	NOx emissions: 22.0 tons per year, as a rolling 12-month summation and 18.3 pounds per hour.
	OAC rule 3745-17-11(B)(5)(a)	Particulate matter emissions: 0.310 pound per million Btu of actual heat input. See Additional Terms and Conditions A.I.2.a.
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a six-minute average.
	OAC rule 3745-18-06(G)	Exempt, in accordance with OAC rule 3745-18-06(B)
	OAC rule 3745-31-05(A)(3) PTI No. 17-1645	NOx emissions: 18.3 pounds per hour and 22.0 tons per year CO emissions: 3.95 pounds per hour and 4.74 tons per year SOx emissions: 1.21 pounds per hour and 1.45 tons per year OC emissions: 1.46 pounds per hour and 1.75 tons per year Particulate emissions: 1.55 tons per year The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B) and 3745-17-07(A).

2. Additional Terms and Conditions

2.a The emission limitation specified in this rule citation has been revised based upon a change in the applicable emission factor contained in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors. The revised rule was adopted by the Director of Ohio EPA in December, 1997. The USEPA has agreed to consider this revised rule as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of this limitation as a revision to the Ohio SIP for particulate matter.

II. Operational Restrictions

1. The maximum annual operating hours for this emissions unit shall not exceed 2,400 hours per year, based upon a rolling, 12-month summation of the operating hours.

To ensure enforceability during the first 12 calendar months of operation following the issuance of the permit to install, the permittee shall not exceed the operating hours levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Operating Hours
1	200
1-2	400
1-3	600
1-4	800
1-5	1,000
1-6	1,200
1-7	1,400
1-8	1,600
1-9	1,800
1-10	2,000
1-11	2,200
1-12	2,400

After the first 12 calendar months of operation following the issuance of the permit to install, compliance with the annual operating hours limitation shall be based upon a rolling, 12-month summation of the operating hours.

2. The quality of fuel burned in this emissions unit shall meet a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation.

III. Monitoring and/or Record Keeping Requirements

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

a. The operating hours for each month.

b. Beginning after the first 12 calendar months of operation following the issuance of the permit to install, the rolling, 12-month summation of the operating hours.

Also, during the first 12 calendar months of operation following the issuance of the permit to install, the permittee shall record the cumulative operating hours for each calendar month.

2. The permittee shall maintain monthly records of the following information:

a. The NOx emissions for each month, in tons per month.

b. Beginning after the first 12 calendar months of operation following the issuance of the permit to install, the rolling, 12-month summation of the NOx emissions.

Also, during the first 12 calendar months of operation following the issuance of the permit to install, the permittee shall record the cumulative NOx emissions for each calendar month.

III. Monitoring and/or Record Keeping Requirements (continued)

3. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Ohio EPA Northeast District Office. The representative sulfur dioxide emission rate from any sample shall be calculated using the formula in OAC rule 3745-18-04(F)(2).

4. The permittee shall maintain monthly records of the SO2 emissions, in tons per month.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month operating hours limitation and, for the first 12 calendar months of operation following the issuance of the permit to install, all exceedances of the maximum allowable cumulative operating hours levels. These reports are due by the dates specified in Part 1 - General Terms and Conditions of this permit under section (A)(1).

2. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month NOx limitation. These reports are due by the dates specified in Part 1 - General Terms and Conditions of this permit under section (A)(1).

3. The permittee shall submit, annually by January 31, copies of the permittee's or oil supplier's analyses for each shipment of oil which is received for burning in this emissions unit. The permittee's or oil supplier's analyses shall document the sulfur content (percent) for each shipment of oil. The total quantity of oil received in each shipment (gallons) shall also be included with the copies of the permittee's or oil supplier's analyses.

4. The permittee shall submit, annually by January 31, reports of annual SO2 emissions from this emissions unit.

V. Testing Requirements

1. Emission Limitation:
0.310 pound per million Btu of actual heat input of particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the allowable particulate emission limit shall be determined in accordance with U.S. EPA Reference Methods 1 - 5 of 40 CFR Part 60, Appendix A.

2. Emission Limitation:
20% opacity for stack visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1), using the methods and procedures specified in U.S. EPA reference Method 9.

3. Emission Limitation:
22.0 tons per year as a rolling 12-month summation of NOx emissions.

Applicable Compliance Method:
The rolling 12-month summation of the NOx emissions shall be based upon the record keeping requirements specified in section A.III.1 and the hourly NOx emission rate (established by the initial compliance test). The monthly NOx emissions shall be determined by multiplying the hourly NOx emission rate (established by the initial compliance test) by the monthly hours of operation and then dividing by 2,000 pounds per ton.

V. Testing Requirements (continued)

4. Emission Limitation:
18.3 pounds per hour of NOx emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the allowable NOx emission limit shall be determined in accordance with U.S. EPA Reference Method 7 or 7E of 40 CFR Part 60, Appendix A.

5. Emission Limitation:
3.95 pounds per hour of CO emissions
1.21 pounds per hour of SOx emissions
1.46 pounds per hour of OC emissions

Applicable Compliance Method:
To determine the actual emission rates for this emissions unit, the emission factors outlined in AP-42, Section 3.3 (Gasoline and Diesel Industrial Engines, 10/96 - Fifth Edition), Table 3.3-1, shall be used. The emission factor in pounds per million Btu shall be multiplied by 4.16 million Btu per hour (the engine's rated capacity).

6. Emission Limitation:
4.74 tons per year of CO emissions
1.45 tons per year of SOx emissions
1.75 tons per year of OC emissions
1.55 tons per year of particulate emissions

Applicable Compliance Method:
The annual emission rates shall be determined by multiplying the annual hours of operation by the allowable hourly emission rate and then dividing by 2,000 pounds per ton.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Cast Iron Cupola #1 (P901)

Activity Description: Cast Iron Cupola #1

A. State and Federally Enforceable Section

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
Cast iron cupola #1 equipped with a baghouse (FBDC-02) for particulate control.	OAC rule 3745-17-11(B)(1)	23.2 pounds per hour of particulate emissions. See Additional Terms and Conditions A.I.2.a.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-18-06(E)(2)	243.0 pounds per hour of sulfur dioxide emissions.
Cupola cap and charge door	OAC rule 3745-17-07(B)	Visible emissions of any fugitive dust shall not exceed 20% opacity as a three-minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures (RACM) that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Additional Terms and conditions A.I.2.b.
Cupola tapping	OAC rule 3745-17-07(B)	Visible emissions of any fugitive dust shall not exceed 20% opacity as a three-minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures (RACM) that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Additional Terms and conditions A.I.2.c.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions (PE) from this emissions unit is greater than 10 pounds per hour, based on emission factor calculations. The allowable mass rate of emissions of particulate matter based on Figure II of OAC rule 3745-17-11 is 23.2 pounds per hour. The allowable mass rate of emissions of particulate matter based on Table I of OAC rule 3745-17-11 is 33.2 pounds per hour. Therefore, the more stringent value of 23.2 pounds per hour of PE shall be the allowable mass emission rate for this emissions unit.

2. Additional Terms and Conditions (continued)

2.b RACM shall be the maintenance of a continuous negative draft through charge door and adequate sealing of the cupola cap.

2.c RACM for tapping has been determined to be no controls, but visible emissions of fugitive dust shall not exceed 20% opacity, as a three-minute average. The visible emissions of fugitive dust shall be determined by observations of building openings (doors, windows, etc.).

II. Operational Restrictions

1. The pressure drop across the baghouse (FBDC-02) shall be maintained within the range of 3 to 4 inches of water while the emissions unit is in operation.

2. The permittee shall not operate Cupola #1 (P901) and Cupola #3 (P902) simultaneously.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse (FBDC-02) 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 record the pressure drop across the baghouse on an hourly basis.

2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions from the baghouse. The presence or absence of any visible emissions from the baghouse shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from the charge door. The presence or absence of any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

4. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from the building openings. The presence or absence of any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

5. No monitoring or record keeping is required for the SO_2 emission limit for this emissions unit because the maximum uncontrolled emission rate of SO_2 cannot exceed the allowable emission limit.

IV. Reporting Requirements

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

IV. Reporting Requirements (continued)

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions of fugitive dust were observed from the charge door and (b) describe any corrective actions taken to eliminate the visible emissions of fugitive dust. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions of fugitive dust were observed from the building openings and (b) describe any corrective actions taken to eliminate the visible emissions of fugitive dust. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

4. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions were observed from the baghouse and (b) describe any corrective actions taken to eliminate the visible emissions from the baghouse. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Emission Limitation:
23.2 pounds per hour of particulate emissions (from baghouse FBDC-02)

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the allowable particulate emission limit shall be determined in accordance with U.S. EPA Reference Methods 1 - 5 of 40 CFR Part 60, Appendix A.

2. Emission Limitation:
20% opacity for stack visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA reference Method 9.

3. Emission Limitation:
20% opacity for visible emissions of fugitive dust

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

4. Emission Limitation:
243.0 pounds per hour of sulfur dioxide emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the allowable sulfur dioxide emission limit shall be determined in accordance with U.S. EPA Reference Method 6 of 40 CFR Part 60, Appendix A.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Cast Iron Cupola #3 (P902)

Activity Description: Cast Iron Cupola #3

A. State and Federally Enforceable Section

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
Cast iron cupola #3 equipped with a baghouse (FBDC-02) for particulate control.	OAC rule 3745-17-11(B)(1)	23.2 pounds per hour of particulate emissions. See Additional Terms and Conditions A.I.2.a.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-18-06(E)(2)	243.0 pounds per hour of sulfur dioxide emissions.
Cupola cap and charge door	OAC rule 3745-17-07(B)	Visible emissions of any fugitive dust shall not exceed 20% opacity as a three-minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures (RACM) that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Additional Terms and conditions A.I.2.b.
Cupola tapping	OAC rule 3745-17-07(B)	Visible emissions of any fugitive dust shall not exceed 20% opacity as a three-minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures (RACM) that are sufficient to minimize or eliminate visible emissions of fugitive dust. See Additional Terms and conditions A.I.2.c.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions (PE) from this emissions unit is greater than 10 pounds per hour, based on emission factor calculations. The allowable mass rate of emissions of particulate matter based on Figure II of OAC rule 3745-17-11 is 23.2 pounds per hour. The allowable mass rate of emissions of particulate matter based on Table I of OAC rule 3745-17-11 is 33.2 pounds per hour. Therefore, the more stringent value of 23.2 pounds per hour of PE shall be the allowable mass emission rate for this emissions unit.

2. Additional Terms and Conditions (continued)

2.b RACM shall be the maintenance of a continuous negative draft through charge door and adequate sealing of the cupola cap.

2.c RACM for tapping has been determined to be no controls, but visible emissions of fugitive dust shall not exceed 20% opacity, as a three-minute average. The visible emissions of fugitive dust shall be determined by observations of building openings (doors, windows, etc.).

II. Operational Restrictions

1. The pressure drop across the baghouse (FBDC-02) shall be maintained within the range of 3 to 4 inches of water while the emissions unit is in operation.

2. The permittee shall not operate Cupola #1 (P901) and Cupola #3 (P902) simultaneously.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse (FBDC-02) 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 record the pressure drop across the baghouse on an hourly basis.

2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions from the baghouse. The presence or absence of any visible emissions from the baghouse shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from the charge door. The presence or absence of any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

4. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from the building openings. The presence or absence of any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;
c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to eliminate the visible emissions.

5. No monitoring or record keeping is required for the SO2 emission limit for this emissions unit because the maximum uncontrolled emission rate of SO2 cannot exceed the allowable emission limit.

IV. Reporting Requirements

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

IV. Reporting Requirements (continued)

2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions of fugitive dust were observed from the charge door and (b) describe any corrective actions taken to eliminate the visible emissions of fugitive dust. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions of fugitive dust were observed from the building openings and (b) describe any corrective actions taken to eliminate the visible emissions of fugitive dust. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

4. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions were observed from the baghouse and (b) describe any corrective actions taken to eliminate the visible emissions from the baghouse. These reports shall be submitted to the Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Emission Limitation:
23.2 pounds per hour of particulate emissions (from baghouse FBDC-02)

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the allowable particulate emission limit shall be determined in accordance with U.S. EPA Reference Methods 1 - 5 of 40 CFR Part 60, Appendix A.

2. Emission Limitation:
20% opacity for stack visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA reference Method 9.

3. Emission Limitation:
20% opacity for visible emissions of fugitive dust

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

4. Emission Limitation:
243.0 pounds per hour of sulfur dioxide emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the allowable sulfur dioxide emission limit shall be determined in accordance with U.S. EPA Reference Method 6 of 40 CFR Part 60, Appendix A.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Tub Ground Coat & Oven (R001)

Activity Description: Surface Coating Line For The Application Of Primer To Tubs and Heating for Water Vapor Flashoff

A. State and Federally Enforceable Section

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
Surface coating line used to apply a ground coat primer to tubs and the associated oven used to heat tubs for water vapor flashoff.	OAC rule 3745-17-11(B)(1)	1.15 pounds per hour of particulate emissions. See Additional Terms and Conditions A.I.2.a.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions (PE) from this emissions unit is greater than 10 pounds per hour, based on material balance calculations. The allowable mass rate of emission of particulate matter based on Figure II of OAC rule 3745-17-11 is 6.35 pounds per hour. The allowable mass rate of emission of particulate matter based on Table I of OAC rule 3745-17-11 is 1.15 pounds per hour. Therefore, the more stringent value of 1.15 pounds per hour of PE shall be the allowable mass emission rate for this emissions unit.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.

2. The permittee shall operate the water curtain whenever this emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records that document any time periods when the water curtain was not in service when the emissions unit was in operation.

2. 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.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when the water curtain was not in service when the emissions unit was in operation. Each report shall be submitted within 30 days after the deviation occurs.

IV. Reporting Requirements (continued)

2. 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.

V. Testing Requirements

1. Emission Limitation:
1.15 pounds per hour of particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the allowable particulate emission limit shall be determined in accordance with U.S. EPA Reference Methods 1 - 5 of 40 CFR Part 60, Appendix A.

2. Emission Limitation:
20% opacity for stack visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA reference Method 9.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Smallware Ground Coat & Oven (R002)

Activity Description: Surface Coating Line For The Application Of Primer To Sinks and Heating for Water Vapor Flashoff

A. State and Federally Enforceable Section

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
Surface coating line used to apply a ground coat slurry to sinks and the associated oven used to heat sinks for water vapor flashoff.	OAC rule 3745-17-11(B)(1)	1.10 pounds per hour of particulate emissions. See Additional Terms and Conditions A.I.2.a.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule.

2. Additional Terms and Conditions

2.a The uncontrolled mass rate of particulate emissions (PE) from this emissions unit is greater than 10 pounds per hour, based on material balance calculations. The allowable mass rate of emission of particulate matter based on Figure II of OAC rule 3745-17-11 is 6.20 pounds per hour. The allowable mass rate of emission of particulate matter based on Table I of OAC rule 3745-17-11 is 1.10 pounds per hour. Therefore, the more stringent value of 1.10 pounds per hour of PE shall be the allowable mass emission rate for this emissions unit.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.

2. The permittee shall operate the water curtain whenever this emissions unit is in operation.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records that document any time periods when the water curtain was not in service when the emissions unit was in operation.

2. 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.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when the water curtain was not in service when the emissions unit was in operation. Each report shall be submitted within 30 days after the deviation occurs.

IV. Reporting Requirements (continued)

2. 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.

V. Testing Requirements

1. Emission Limitation:
1.10 pounds per hour of particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance with the allowable particulate emission limit shall be determined in accordance with U.S. EPA Reference Methods 1 - 5 of 40 CFR Part 60, Appendix A.

2. Emission Limitation:
20% opacity for stack visible particulate emissions

Applicable Compliance Method:
If required by the Ohio EPA, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA reference Method 9.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

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

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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