



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

05/16/01

CERTIFIED MAIL

**RE: Final Title V Chapter 3745-77
permit**

14-31-07-3342
Cast-Fab Technologies, Inc.
Randall W Stapp
3040 Forrer Street
Cincinnati, OH 45209-1016

Dear Randall W Stapp:

Enclosed is the Title V permit that allows you to operate the facility in the manner indicated in the permit. Because this permit may contain several conditions and restrictions, we urge you to read it carefully.

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed with the Environmental Review Appeals Commission within thirty (30) days after notice of the Director's action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. It is also requested by the Director that a copy of the appeal be served upon the Environmental Enforcement Section of the Office of the Attorney General. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
236 East Town Street
Room 300
Columbus, Ohio 43215

If you have any questions, please contact Hamilton County Dept. of Environmental Services.

Very truly yours,

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

cc: Hamilton County Dept. of Environmental Services
File, DAPC PMU



State of Ohio Environmental Protection Agency

FINAL TITLE V PERMIT

Issue Date: 05/16/01

Effective Date: 05/16/01

Expiration Date: 05/16/06

This document constitutes issuance of a Title V permit for Facility ID: 14-31-07-3342 to:
Cast-Fab Technologies, Inc.
3040 Forrer Street
Cincinnati, OH 45209-1016

Emissions Unit ID (Company ID)/Emissions Unit Activity Description

F014 (Inoculation Process)
The addition of magnesium to gray iron to produce ductile iron.

K012 (Paint Applicator - Medium/Large Castings)
Paint Applicator used to paint medium/large castings.

F015 (East 10 Ton Furnace)
Electric induction furnaces used to melt iron prior to pouring and casting.

K013 (Paint Applicator - Medium/Large Castings)
Paint Applicator used to paint medium/large castings.

F016 (Center 10 Ton Furnace)
Electric induction furnaces used to melt iron prior to pouring and casting.

K014 (Paint Applicator - Medium/Large Castings)
Paint Applicator used to paint medium/large castings.

F018 (West 15 Ton Furnace)
Electric induction furnaces used to melt iron prior to pouring and casting.

K015 (Paint Applicator - Medium/Large Castings)
Paint Applicator used to paint medium/large castings.

F019 (Large Pouring and Cooling)
Large mold pouring and cooling line

K016 (Paint Applicator - Heavy Fab)
Paint Applicator used to paint steel fabrications.

F020 (Medium Pouring and Cooling)
Medium mold pouring and cooling line

K017 (Paint Applicator - Heavy Fab)
Paint Applicator used to paint steel fabrications.

F021 (Small Pouring and Cooling)
Small mold pouring and cooling line

P014 (Medium Mold Line Abrasive Clean)
Steel shot blast used to clean medium iron castings.

F022 (Charge Handling)
Handling of furnace charges

P015 (Large Mold Line Abrasive Clean)
Steel shot blast used to clean large iron castings.

F023 (Medium Mold Mixer & Mold-making)
Medium mold line mixer and mold making

P016 (Small Mold Line Abrasive Clean)
Steel shot blast used to clean small iron castings.

F024 (Large Mold Mixer & Mold-making-Fordath)
Large mold line mixer and mold making

P026 (Pneumatic Sand Handling System)
System used to transport sand to mold lines and large core-making operations.

K001 (Light Fab Paint Booth with Paint Applicator)
Paint Booth and Paint Applicator used to paint sheet metal fabrications.

P029 (Small/Medium Line Grinding Booths)
Grinding booths used to clean small and medium castings.

K003 (Paint Applicator - Small Castings)
Paint Applicator used to paint small castings.

P030 (Small Mold Line Casting Shakeout)
Small casting shakeout.

K006 (Paint Applicator - Small Castings)
Paint Applicator used to paint medium/large castings.

P031 (Medium Mold Line Casting Shakeout)
Medium casting shakeout.

K010 (Paint Applicator - Medium/Large Castings)
Paint Applicator used to paint medium/large castings.

P032 (Large Mold Line Casting Shakeout)
Large casting shakeout.

K011 (Paint Applicator - Medium/Large Castings)
Paint Applicator used to paint medium/large castings.

P034 (Swing Grinding)
Swing casting grinders

P036 (Small Mold Line Mold-making and Sand Preparation)
Preparation of sand for use in molds.

Sand Reclaimer is used to reclaim sand from used molds.

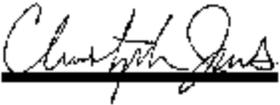
P038 (Sand Reclamation)

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

Hamilton County Dept. of Environmental Services
250 William Howard Taft Rd
Cincinnati, OH 45219-2660
(513) 946-7777

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 emission limitations, operational restrictions, and control device operating parameter limitations, 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 monitoring, recordkeeping, and reporting requirements 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 Enforcable Section

None

B. State Only Enforceable Section

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

B001: 4.0 MMBtu/hr Annealing Furnace
B002: 6.0 MMBtu/hr Annealing Furnace
F025: Large Mold Mixer and Mold Making (Palmer M-200)
F026: Small Core Mixer and Core Making (Palmer)
P017: Blast Room Weldment
P035: Core-Mold Sand Unloading
P039: Preheater
Z006: Binder/Resin Storage Tank
Z008: Roadways and Parking Areas
Z009: Maintenance Parts Washer
Z010: Machining Department Operations
Z011: Maintenance Welding
Z012: Light Fabrication Welding
Z013: Heavy Fabrication Welding
Z024: Large Core West Mixer & Core-making (P037)
Z025: Large Core East Mixer & Core-making (P037)
Z026: Large Core Palmer Mixer & Core-making
Z034: Medium Mold Line Release Agent
Z035: Large Mold Line Release Agent
Z036: Small Core Pepset C/M Release Agent
Z037: Large Core West C/M Release Agent
Z038: Hot Metal Transfer

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

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Inoculation Process (F014)

Activity Description: The addition of magnesium to gray iron to produce ductile iron.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Inoculation Process	OAC rule 3745-31-05 (PTI 14-1821)	8.26 TPY of particulate emissions (PE)
		See A.I.2.
	OAC rule 3745-17-07(B)(1)	Same as limitation outlined in OAC rule 3745-31-05.
	OAC rule 3745-17-08	Same as limitation outlined in OAC rule 3745-31-05.

2. Additional Terms and Conditions

- 2.a Visible particulate emissions from this fugitive emissions unit shall not exceed 20 percent opacity, as a three-minute average.
- 2.b The permittee shall employ reasonably available control measures (RACM) to minimize or eliminate visible emissions of fugitive dust. Currently, the RACM requirement is satisfied by the use of low emission ladles for the majority of iron throughput.

II. Operational Restrictions

1. A minimum of 85% of the total production in this emissions unit shall be conducted using the Tundish ladles.
2. The maximum amount of iron throughput shall not exceed the following:

Open Porous Plug Ladles	207 tons/month	2,487 tons/year
Tundish Ladles	2,916 tons/month	35,000 tons/year
Total Production	3,123 tons/month	37,487 tons/year

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information on a monthly basis:
 - a. The amount of iron, in tons, handled by the Tundish ladles.
 - b. The amount of iron, in tons, handled by the open porous plug ladles.
 - c. The monthly percentage of the amount iron handled by the Tundish ladles.
 - d. The year-to-date totals of the information recorded in line a, line b, and line c.
2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive emissions from this emissions unit. The presence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any abnormal visible emission incident; and
 - e. any corrective actions taken to eliminate the abnormal visible emissions.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify any exceedences of the production limitations specified in A.II.
2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible fugitive emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the annual particulate emission limitation shall be determined through the record keeping as required in section A.III.1. (Compliance with production limitations ensures compliance with the emission limitation based on an emission factor of 3.9 lbs PE/ton iron from RACM Table 2.7-1 and a 95% control efficiency for the Tundish ladles.)
2. Compliance with the visible particulate emission limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(3).

VI. Miscellaneous Requirements

1. The annual emission limitation was established for emissions unit F014 for netting purposes in PTI 14-1821.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Inoculation Process		

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: East 10 Ton Furnace (F015)

Activity Description: Electric induction furnaces used to melt iron prior to pouring and casting.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
3600 KW Coreless Electric Induction Furnace (East 10 Ton Furnace)	OAC rule 3745-31-05(A)(3) (PTI 14-1821)	0.75 lb PE/ton of product* 15.0 lbs PE/hr* 0.055 lb lead/ton product*
		*The lb PE/hr and lbs PE/ton of production emission limitations are based on the emissions unit's potential to emit. Therefore, no hourly record keeping is required.
		See Section A.I.2 Fugitive visible particulate emissions from the roof vents shall not exceed 15% opacity as a six-minute average.
	OAC rule 3745-17-07(B)(1)	Less stringent than limitation outlined in OAC rule 3745-31-05(A)(3)
	OAC rule 3745-17-08(B)	Same as limitation outlined in OAC rule 3745-31-05(A)(3)

2. Additional Terms and Conditions

- 2.a The total combined particulate emissions from emissions units F015, F016, and F018 shall not exceed the following:
 - a. 0.135 ton/day;
 - b. 2.73 tons/month; and
 - c. 32.85 tons/year.

2. Additional Terms and Conditions (continued)

- 2.b** The permittee shall employ reasonably available control measures (RACM) to minimize or eliminate visible emissions of fugitive dust. Currently, the use of covers, except during charging, temperature readings, slagging activities and tapping, and the use of clean scrap satisfy the RACM requirement.

II. Operational Restrictions

1. The total combined gray iron production for emissions units F015, F016, and F018 shall not exceed 360 tons per day, 7,300 tons per month, and/or 87,600 tons per year.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information:
 - a. The daily total combined gray iron production, recorded in tons, for emissions units F015, F016, and F018.
 - b. The monthly total combined gray iron production, recorded in tons, for emissions units F015, F016, and F018 (the summation of line a for all days during the month during which any of the emissions units operated).
 - c. The yearly total combined gray iron production, recorded in tons, for emissions units F015, F016, and F018 (the summation of line b for all months during the year during which any of the emissions units operated).
2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive emissions from this emissions unit. The presence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any abnormal visible emission incident; and
 - e. any corrective actions taken to eliminate the abnormal visible emissions.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports for any daily, monthly, and/or annual record which shows an exceedance of any of the production limitations specified in A.II.1.
2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible fugitive emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the daily, monthly and annual particulate emission limitations shall be determined through the record keeping as required in section A.III.1. (Compliance with production limitations ensures compliance with the emission limitations based on an emission factor of 1.5 lbs PE/ton iron from RACM Table 2.7-1 and a 50% control efficiency for the use of clean scrap, building enclosure and a cover.)
2. Compliance with the visible particulate emission limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(3).

V. Testing Requirements (continued)

3. Compliance with the hourly PE limitation shall be determined by multiplying the RACM emission factor of 1.5 lbs PE/ton iron (Table 2.7-1) by a control efficiency of 50% for the use of clean scrap, building enclosure, and use of a cover, and by the maximum throughput of 10 tons per hour. Compliance with the .75 lb PE/ton limitation is shown by multiplying the RACM emission factor times the control efficiency of 50%. If required, compliance with both PE limitations shall be determined by emission testing performed in accordance with OAC rule 3745-17-03.

VI. Miscellaneous Requirements

1. The production limitations listed in Section A.II. of these terms and conditions were established in PTI 14-1821 for netting purposes.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
3600 KW Coreless Electric Induction Furnace (East 10 Ton Furnace)		

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: Center 10 Ton Furnace (F016)

Activity Description: Electric induction furnaces used to melt iron prior to pouring and casting.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
3600 KW Coreless Electric Induction Furnace (East 10 Ton Furnace)	OAC rule 3745-31-05(A)(3) (PTI 14-1821)	0.75 lb PE/ton of product* 15.0 lbs PE/hr*
		0.055 lb lead/ton product*
		*The lb PE/hr and lbs PE/ton of production emission limitations are based on the emissions unit's potential to emit. Therefore, no hourly record keeping is required. See Section A.I.2 Fugitive visible particulate emissions from the roof vents shall not exceed 15% opacity as a six-minute average.
	OAC rule 3745-17-07(B)(1)	Less stringent than limitation outlined in OAC rule 3745-31-05(A)(3)
	OAC rule 3745-17-08(B)	Same as limitation outlined in OAC rule 3745-31-05(A)(3)

2. Additional Terms and Conditions

- 2.a The total combined particulate emissions from emissions units F015, F016, and F018 shall not exceed the following:
 - a. 0.135 ton/day;
 - b. 2.73 tons/month; and
 - c. 32.85 tons/year.

2. Additional Terms and Conditions (continued)

- 2.b** The permittee shall employ reasonably available control measures (RACM) to minimize or eliminate visible emissions of fugitive dust. Currently, the use of covers, except during charging, temperature readings, slagging activities and tapping, and the use of clean scrap satisfy the RACM requirement.

II. Operational Restrictions

1. The total combined gray iron production for emissions units F015, F016, and F018 shall not exceed 360 tons per day, 7,300 tons per month, and/or 87,600 tons per year.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information:
 - a. The daily total combined gray iron production, recorded in tons, for emissions units F015, F016, and F018.
 - b. The monthly total combined gray iron production, recorded in tons, for emissions units F015, F016, and F018 (the summation of line a for all days during the month during which any of the emissions units operated).
 - c. The yearly total combined gray iron production, recorded in tons, for emissions units F015, F016, and F018 (the summation of line b for all months during the year during which any of the emissions units operated).
2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive emissions from this emissions unit. The presence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any abnormal visible emission incident; and
 - e. any corrective actions taken to eliminate the abnormal visible emissions.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports for any daily, monthly, and/or annual record which shows an exceedance of any of the production limitations specified in A.II.1.
2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible fugitive emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the daily, monthly and annual particulate emission limitations shall be determined through the record keeping as required in section A.III.1 (Compliance with production limitations ensures compliance with the emission limitations based on an emission factor of 1.5 lbs PE/ton iron from RACM Table 2.7-1 and a 50% control efficiency for the use of clean scrap, building enclosure and a cover.)
2. Compliance with the visible particulate emission limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(3).

V. Testing Requirements (continued)

3. Compliance with the hourly PE limitation shall be determined by multiplying the RACM emission factor of 1.5 lbs PE/ton iron (Table 2.7-1) by a control efficiency of 50% for the use of clean scrap, building enclosure and use of a cover, and by the maximum throughput of 10 tons per hour. Compliance with the .75 lb PE/ton limitation is shown by multiplying the RACM emission factor times the control efficiency of 50%. If required, compliance with both PE limitations shall be determined by emission testing performed in accordance with OAC rule 3745-17-03.

VI. Miscellaneous Requirements

1. The production limitations listed in Section A.II. of these terms and conditions were established in PTI 14-1821 for netting purposes.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
3600 KW Coreless Electric Induction Furnace (East 10 Ton Furnace)		

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: West 15 Ton Furnace (F018)

Activity Description: Electric induction furnaces used to melt iron prior to pouring and casting.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
3750 KW Coreless Electric Induction Furnace (West 15 Ton Furnace)	OAC rule 3745-31-05(A)(3) (PTI 14-1821)	0.75 lb particulate emissions (PE)/ton product* 15.0 lbs PE/hr*
		0.055 lb lead/ton product*
		* The lbs/hr and lb/ton emission limitations are based on the emission units potential to emit. Therefore, no hourly record keeping is required.
		See Section A.I.2.
	OAC rule 3745-17-07(B)	Fugitive visible particulate emissions from the roof vents shall not exceed 15 percent opacity, as a six-minute average.
	OAC rule 3745-17-08(B)	Less stringent than limitation outlined in OAC rule 3745-31-05(A)(3) Same as limitation outlined in OAC rule 3745-31-05(A)(3)

2. Additional Terms and Conditions

- 2.a The total combined particulate emissions from emissions units F015, F016, and F018 shall not exceed the following:
 - a. 0.135 ton/day;
 - b. 2.73 tons/month; and
 - c. 32.85 tons/year.

2. Additional Terms and Conditions (continued)

- 2.b** The permittee shall employ reasonably available control measures (RACM) to minimize or eliminate visible emissions of fugitive dust. Currently, the use of covers, except during charging, temperature readings, slagging activities and tapping, and the use of clean scrap satisfy the RACM requirement.

II. Operational Restrictions

1. The maximum total combined gray iron production for emissions units F015, F016, and F018 combined shall not exceed 360 tons per day, 7,300 tons per month, and 87,600 tons per year.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information:
 - a. The daily total combined gray iron production, recorded in tons, for emissions units F015, F016, and F018.
 - b. The monthly total combined gray iron production, recorded in tons, for emissions units F015, F016, and F018 (the summation of line a for all days during the month during which any of the emissions units operated).
 - c. The yearly total combined gray iron production, recorded in tons, for emissions units F015, F016, and F018 (the summation of line b for all months during the year during which any of the emissions units operated).
2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive emissions from this emissions unit. The presence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any abnormal visible emission incident; and
 - e. any corrective actions taken to eliminate the abnormal visible emissions.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports for any daily, monthly, and/or annual record which show(s) an exceedance of any of the production limitations specified in A.II.1.
2. The permittee shall submit semiannual written reports which (a) identify all days during which any visible fugitive emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the abnormal visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the daily, monthly and annual particulate emission limitations shall be determined through the record keeping as required in section A.III.1. (Compliance with production limitations ensures compliance with the emission limitations based on an emission factor of 1.5 lbs PE/ton iron from RACM Table 2.7-1 and a 50% control efficiency for the use of clean scrap, building enclosure and a cover.)
2. Compliance with the visible particulate emissions limits shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(3).

V. Testing Requirements (continued)

3. Compliance with the hourly PE limitation shall be determined by multiplying the RACM emission factor of 1.5 lbs PE/ton iron (Table 2.7-1) by a control efficiency of 50% for the use of clean scrap, building enclosure, and use of a cover, and by the maximum throughput of 15 tons per hour. Compliance with the .75 lb PE/ton limitation is shown by multiplying the RACM emission factor times the control efficiency of 50%. If required, compliance with both PE limitations shall be determined by emission testing performed in accordance with OAC rule 3745-17-03.
4. Compliance with the 0.055 lb lead/ton product limitation shall be based on the AP-42 emission factor as defined in Table 12.10-5 (1/95).

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
3750 KW Coreless Electric Induction Furnace (West 15 Ton Furnace)		

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: Large Pouring and Cooling (F019)
Activity Description: Large mold pouring and cooling line

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Large Mold Pouring and Cooling Line	OAC rule 3745-17-07(B)(1)	See A.I.2.a.
	OAC rule 3745-17-08(B)	See A.I.2.b.

2. Additional Terms and Conditions

- 2.a Visible particulate emissions from this fugitive emissions unit shall not exceed 20 percent opacity, as a three-minute average.
- 2.b The permittee shall employ reasonably available control measures to minimize or eliminate visible emissions of fugitive dust. Currently, there are no reasonably available control measures defined 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 fugitive emissions from this emissions unit. The presence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any abnormal visible emission incident; and
 - e. any corrective actions taken to eliminate the abnormal visible emissions.

IV. Reporting Requirements

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

V. Testing Requirements

1. Compliance with the fugitive visible particulate emissions limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(3).

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Large Mold Pouring and Cooling Line		

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: Medium Pouring and Cooling (F020)
Activity Description: Medium mold pouring and cooling line

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Medium Mold Pouring and Cooling Line	OAC rule 3745-17-07(B)(1)	See A.I.2.a.
	OAC rule 3745-17-08(B)	See A.I.2.b.

2. Additional Terms and Conditions

- 2.a Visible particulate emissions from this fugitive emissions unit shall not exceed 20 percent opacity, as a three-minute average.
- 2.b The permittee shall employ reasonably available control measures to minimize or eliminate visible emissions of fugitive dust. Currently, there are no reasonably available control measures defined 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 fugitive emissions from this emissions unit. The presence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any abnormal visible emission incident; and
 - e. any corrective actions taken to eliminate the abnormal visible emissions.

IV. Reporting Requirements

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

V. Testing Requirements

1. Compliance with the fugitive visible particulate emissions limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(3).

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Medium Mold Pouring and Cooling Line		

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: Small Pouring and Cooling (F021)
Activity Description: Small mold pouring and cooling line

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Small Mold Pouring and Cooling Line	OAC rule 3745-17-07(B)(1)	See A.I.2.a.
	OAC rule 3745-17-08(B)	See A.I.2.b.

2. Additional Terms and Conditions

- 2.a Visible particulate emissions from this fugitive emissions unit shall not exceed 20 percent opacity, as a three-minute average.
- 2.b The permittee shall employ reasonably available control measures to minimize or eliminate visible emissions of fugitive dust. Currently, there are no reasonably available control measures defined 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 fugitive emissions from this emissions unit. The presence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any abnormal visible emission incident; and
 - e. any corrective actions taken to eliminate the abnormal visible emissions.

IV. Reporting Requirements

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

V. Testing Requirements

1. Compliance with the fugitive visible particulate emissions limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(3).

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Small Mold Pouring and Cooling Line		

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: Charge Handling (F022)
Activity Description: Handling of furnace charges

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Charge Handling	OAC rule 3745-17-07(B)(1)	See A.I.2.a.
	OAC rule 3745-17-08(B)	See A.I.2.b.

2. Additional Terms and Conditions

- 2.a Visible particulate emissions from this fugitive emissions unit shall not exceed 20 percent opacity, as a three-minute average.
- 2.b The permittee shall employ reasonably available control measures to minimize or eliminate visible emissions of fugitive dust. Currently, there are no reasonably available control measures defined from 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 fugitive emissions from this emissions unit. The presence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any abnormal visible emission incident; and
 - e. any corrective actions taken to eliminate the abnormal visible emissions.

IV. Reporting Requirements

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

V. Testing Requirements

1. Compliance with the fugitive visible particulate emissions limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(3).

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Charge Handling		

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: Medium Mold Mixer & Mold-making (F023)

Activity Description: Medium mold line mixer and mold making

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>	
Medium Mold Mixer and Mold-making (Fordath 450)	OAC 3745-31-05(A)(3) (PTI 14-4803)	0.82 lb/day particulate emissions (PE) 0.15 TPY PE 1.65 lbs/hr OC 39.6 lbs/day OC 7.21 TPY OC See Section A.I.2	
	OAC rule 3745-17-08(B)	Same as limitation outlined in OAC rule 3745-31-05(A)(3)	
	OAC rule 3745-21-07(G)(2)	Less stringent than limitation outlined in OAC rule 3745-31-05(A)(3)	
	OAC rule 3745-17-07(B)(1)	Less stringent than limitation outlined in OAC rule 3745-31-05(A)(3)	

2. Additional Terms and Conditions

- 2.a The hourly and daily emission limitations outlined are based upon the emissions unit's potential to emit (PTE); therefore, no hourly and daily records are required to demonstrate compliance with these limits.
- 2.b The permittee shall employ reasonably available control measures to minimize or eliminate visible emissions of fugitive dust. Currently, there are no reasonably available control measures defined for this emissions unit.
- 2.c This emissions unit's potential to emit is less than the allowable emission limitations established in OAC rule 3745-21-07(G)(2); therefore, no hourly and daily records are required to demonstrate compliance with these limits.
- 2.d Visible particulate emissions from this fugitive emissions unit shall not exceed 20 percent opacity, as a three-minute average.

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 fugitive emissions from this emissions unit. The presence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any abnormal visible emission incident; and
 - e. any corrective actions taken to eliminate the abnormal visible emissions.
2. The permittee shall maintain monthly records of the following information:
 - a. The amount of metal castings produced for the calendar month, in tons.
 - b. The monthly PE emissions, in tons, calculated by multiplying the metal castings production rate above by an emission factor of 0.04 lb PE/ton castings (from RACM Table 2.7-1) and by a control efficiency of (1-.70) for the building enclosure, and then dividing by 2,000 lbs/ton.
 - c. The sand usage rate for the calendar month, in tons.
 - d. The monthly OC emissions, in tons, calculated by multiplying the sand usage rate above by an emission factor of 0.176 lb OC/ton sand (Borden Chemicals emission factor), and then dividing by 2,000 lbs/ton.

IV. Reporting Requirements

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

V. Testing Requirements

1. Compliance with the fugitive visible particulate emissions limit shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Test Method 9.
2. Compliance with the annual PE emission limit shall be determined by the record keeping and calculation methodology specified in Section A.III.2.
3. Compliance with the annual OC emission limit shall be determined by the record keeping and calculation methodology specified in Section A.III.2.

VI. Miscellaneous Requirements

1. The Ohio EPA reserves the right to: (a) update the emissions factors used to estimate organic compound (OC) emissions and (b) redefine the actual and allowable OC emissions for the core and/or mold making processes at the facility.

Upon written notification from the Ohio EPA concerning the identification and availability of updated and more representative OC/VOC emission factors, the permittee may be required to reevaluate the estimated OC/VOC emissions from the core and/or mold making operation(s) using the updated emission factors. Within sixty (60) days of receipt of the written notification from Ohio EPA, the permittee shall submit updated OC/VOC emissions estimates (maximum rate in lbs/hour and tons/year) for each core and/or mold making operation covered under this permit, using the updated emission factors.

2. Reevaluation of BAT and Compliance with OAC Rule 3745-21-07(G):
 - a. Within one hundred and twenty (120) days of submittal of the revised emissions estimates, for each core and/or mold making operation, the permittee shall submit:
 - i. for each core and/or mold making operation permitted herein utilizing photochemically reactive materials, as defined in OAC rule 3745-21-01, an analysis that reevaluates the status of compliance with the requirements of OAC rule 3745-21-07(G); and
 - ii. a Best Available Technology (BAT) analysis or study, conducted in accordance with Ohio EPA Engineering Guide #46, if appropriate, that defines BAT for the operation(s).
 - b. Within thirty (30) days of submittal of the rule analysis and the BAT analysis or study, facility representatives shall meet with representatives of the Ohio EPA, DAPC and the appropriate District Office of local air agency to discuss and resolve any issues related to the submittals.
 - c. Should the rule analysis and/or BAT analysis or study indicate that at the revised estimated OC emission rates additional emissions reductions are warranted to meet the requirements of OAC rule 3745-21-07(G) and/or the BAT requirements (OAC rule 3745-31-05), within thirty (30) days after submission of the analysis or study, the permittee shall submit an expeditious schedule for implementation of the additional emissions control for the core and/or mold making operations permitted herein. This schedule shall include the following milestone dates, as applicable:

VI. Miscellaneous Requirements (continued)

Milestone

- i. Submit, if required, a PTI modification application implementing the revised BAT determination by
- ii. Execute the purchase order(s) for procurement of equipment or components needed to implement additional emissions control by
- iii. Initiate installation of equipment and/or components, or initiate implementation of operational changes, to implement additional OC emissions by
- iv. Complete installation of equipment and/or components, or operational changes, to implement additional OC emissions control by
- v. Achieve and demonstrate final compliance with OAC rule 3745-21-07(G) and/or the revised BAT determination by

3. Revised Title V Permit Application:

Within one hundred and eighty (180) days of the revised BAT determination or submittal of the revised emissions estimates, whichever is later, the permittee shall submit a revised Title V application incorporating the revised emissions estimates and any other information needed to update the application as a result of the revised emissions estimates.

4. Revised Emission Fee Reports

Within ninety (90) days of submittal of the revised estimated emissions, the permittee shall submit revised Emission Fee Reports to the Ohio EPA , in accordance with OAC Chapter 3745-78 and Ohio EPA Engineering Guide #61, for the calendar years in which the facility was classified as a "major" under the Ohio Title V regulations.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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Medium Mold Mixer and
Mold-making (Fordath 450)

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: Large Mold Mixer & Mold-making-Fordath (F024)

Activity Description: Large mold line mixer and mold making

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Large Mold Mixer and Mold-making (Fordath 900)	OAC rule 3745-31-05(A)(3) (PTI-4803)	1.27 lbs/day particulate emission (PE) 1.65 lbs OC/hr 39.6 lbs OC /day 7.21 lbs/day OC
	OAC rule 3745-21-07(G)(2)	See section A.I.2 Less stringent than limitation outlined in OAC rule 3745-31-05(A)(3)
	OAC rule 3745-17-08(B)	Same as limitation outlined in OAC rule 3745-31-05(A)(3)
	OAC rule 3745-17-07(B)(1)	Less stringent than limitation outlined in OAC rule 3745-31-05(A)(3)

2. Additional Terms and Conditions

- 2.a Visible particulate emissions from this fugitive emissions unit shall not exceed 20 percent opacity, as a three-minute average.
- 2.b The permittee shall employ reasonably available control measures to minimize or eliminate visible emissions of fugitive dust. Currently, there are no reasonably available control measures defined for this emissions unit.
- 2.c The hourly and daily emission limitations outlined are based upon the emissions unit's potential to emit (PTE); therefore, no hourly and daily records are required to demonstrate compliance with these limits.
- 2.d Visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a three-minute average.

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 fugitive emissions from this emissions unit. The presence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any abnormal visible emission incident; and
 - e. any corrective actions taken to eliminate the abnormal visible emissions.
2. The permittee shall maintain monthly records of the following information:
 - a. The amount of metal castings produced for the calendar month, in tons.
 - b. The monthly PE emissions, in tons, calculated by multiplying the metal castings production rate above by an emission factor of 0.04 lb PE/ton castings (from RACM Table 2.7-1) and by a control efficiency of (1-.70) for the building enclosure, and then dividing by 2,000 lbs/ton.
 - c. The sand usage rate for the calendar month, in tons.
 - d. The monthly OC emissions, in tons, calculated by multiplying the sand usage rate above by an emission factor of 0.176 lb OC/ton sand (Borden Chemicals emission factor), and then dividing by 2,000 lbs/ton.

IV. Reporting Requirements

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

V. Testing Requirements

1. Compliance with the fugitive visible particulate emissions limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(3).
2. Compliance with the annual PE emissions limit shall be determined by the record keeping and calculation methodology specified in Section A.III.2.
3. Compliance with the annual OC emission limit shall be determined by the record keeping and calculation methodology specified in Section A.III.2.

VI. Miscellaneous Requirements

1. The Ohio EPA reserves the right to: (a) update the emissions factors used to estimate organic compound (OC) emissions and (b) redefine the actual and allowable OC emissions for the core and/or mold making processes at the facility.

Upon written notification from the Ohio EPA concerning the identification and availability of updated and more representative OC/VOC emission factors, the permittee may be required to reevaluate the estimated OC/VOC emissions from the core and/or mold making operation(s) using the updated emission factors. Within sixty (60) days of receipt of the written notification from Ohio EPA, the permittee shall submit updated OC/VOC emissions estimates (maximum rate in lbs/hour and tons/year) for each core and/or mold making operation covered under this permit, using the updated emission factors.

2. Reevaluation of BAT and Compliance with OAC Rule 3745-21-07(G):
 - a. Within one hundred and twenty (120) days of submittal of the revised emissions estimates, for each core and/or mold making operation, the permittee shall submit:
 - i. for each core and/or mold making operation permitted herein utilizing photochemically reactive materials, as defined in OAC rule 3745-21-01, an analysis that reevaluates the status of compliance with the requirements of OAC rule 3745-21-07(G); and
 - ii. a Best Available Technology (BAT) analysis or study, conducted in accordance with Ohio EPA Engineering Guide #46, if appropriate, that defines BAT for the operation(s).
 - b. Within thirty (30) days of submittal of the rule analysis and the BAT analysis or study, facility representatives shall meet with representatives of the Ohio EPA, DAPC and the appropriate District Office of local air agency to discuss and resolve any issues related to the submittals.
 - c. Should the rule analysis and/or BAT analysis or study indicate that at the revised estimated OC emission rates additional emissions reductions are warranted to meet the requirements of OAC rule 3745-21-07(G) and/or the BAT requirements (OAC rule 3745-31-05), within thirty (30) days after submission of the analysis or study, the permittee shall submit an expeditious schedule for implementation of the additional emissions control for the core and/or mold making operations permitted herein. This schedule shall include the following milestone dates, as applicable:

VI. Miscellaneous Requirements (continued)

Milestone

- i. Submit, if required, a PTI modification application implementing the revised BAT determination by
- ii. Execute the purchase order(s) for procurement of equipment or components needed to implement additional emissions control by
- iii. Initiate installation of equipment and/or components, or initiate implementation of operational changes, to implement additional OC emissions control by
- iv. Complete installation of equipment and/or components, or operational changes, to implement additional OC emissions control by
- v. Achieve and demonstrate final compliance with OAC rule 3745-21-07(G) and/or the revised BAT determination by

3. Revised Title V Permit Application:

Within one hundred and eighty (180) days of the revised BAT determination or submittal of the revised emissions estimates, whichever is later, the permittee shall submit a revised Title V application incorporating the revised emissions estimates and any other information needed to update the application as a result of the revised emissions estimates.

4. Revised Emission Fee Reports:

Within ninety (90) days of submittal of the revised estimated emissions, the permittee shall submit revised Emission Fee Reports to the Ohio EPA , in accordance with OAC Chapter 3745-78 and Ohio EPA Engineering Guide #61, for the calendar years in which the facility was classified as a "major" under the Ohio Title V regulations.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Large Mold Mixer and Mold-making (Fordath 900)		

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: Light Fab Paint Booth with Paint Applicator (K001)
Activity Description: Paint Booth and Paint Applicator used to paint sheet metal fabrications.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Light Fab Paint Booth with Paint Applicator (P-22-M3040 through M3047-S67, S68, S69, S71, S72, S73)	OAC rule 3745-21-09(U)(1)(c)	3.5 pounds VOC per gallon of coating, excluding water and exempt solvents, for an extreme performance coating (daily volume-weighted average)
	OAC rule 3745-17-11(A) (Based on Table I)	0.551 lb/hour of particulate emissions (PE)
	OAC rule 3745-17-07(A)(1)	See A.I.2.

2. Additional Terms and Conditions

- 2.a Visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for the line:
 - a. The name and identification number of each coating, as applied.
 - b. The VOC content (excluding water and exempt solvents) and the number of gallons (excluding water and exempt solvents) of each coating, as applied.
 - c. The daily volume-weighted average VOC content of all coatings, as applied, calculated in accordance with the equation specified in paragraph (B)(9) of OAC rule 3745-21-10 for CVOC,2.

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 stack serving this emissions unit. The presence 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 notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing the use of noncomplying coatings. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following the end of the calendar month.
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 Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - 1.a Emission Limitation:
3.5 pounds VOC per gallon of coating, excluding water and exempt solvents (daily volume-weighted average), for an extreme performance coating.

Applicable Compliance Method: Compliance shall be based upon the record keeping requirements specified in Section C. In accordance with OAC rule 3745-21-04(B)(5), USEPA Method 24 shall be used to determine the VOC contents of the coatings. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24 cannot be used for a particular coating, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24.

V. Testing Requirements (continued)

1.b Emission Limitation:

0.551 lb/hour PE

Compliance Method:

Compliance with the particulate emission limit shall be determined in accordance with the following method:

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

$E = \text{maximum coating solids usage rate (in pounds per hour)} \times (1-TE) \times (1-CE)$

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

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

CE = control efficiency of the control equipment.

1.c Compliance with the visible particulate emissions limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(1).

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Light Fab Paint Booth with Paint Applicator (P-22-M3040 through M3047-S67, S68, S69, S71, S72, S73)		

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: Paint Applicator - Small Castings (K003)
Activity Description: Paint Applicator used to paint small castings.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Paint Applicator for Small Castings (MF-2-P19-M4203)	OAC rule 3745-21-09(U)(2)(e)(ii)	The maximum daily coating use for this emissions unit shall not exceed 3 gallons per day.
	OAC rule 3745-17-11(A) (Based on Table I)	0.551 lb/hour particulate emissions (PE)
	OAC rule 3745-17-07(A)(1)	See A.I.2.

2. Additional Terms and Conditions

- 2.a Visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.b Although the requirements of OAC rule 3745-21-09(U) allow for an exemption from applicable VOC content limitations, the daily usage exemption allowed in accordance with OAC rule 3745-21-09(U)(2)(e)(ii) is not part of the federally approved SIP (for the Hamilton County, Warren County, Butler County, and Clermont County ozone area). The rule has been revised by the Ohio EPA to specify an exemption level (3 gallons per day) that will be acceptable to the USEPA. The Ohio EPA has received confirmation from the USEPA of the acceptability of the lower exemption level; therefore, the 3 gallons per day usage restriction in Section A.I.1 above will serve as the exemption level while SIP approval by USEPA is being obtained.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for the coating line:
 - a. The name and identification number of each coating employed.
 - b. The volume, in gallons, of each coating employed.
 - c. The total volume, in gallons, of all of the coatings employed.

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 stack serving this emissions unit. The presence 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 notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the coating line employs more than the applicable maximum daily coating usage limit. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.
2. The permittee shall 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 Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

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

1.a Emission Limitation:

0.551 lb/hour PE

Compliance Method:

Compliance with the particulate emission limit shall be determined in accordance with the following method:

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

$$E = \text{maximum coating solids usage rate (in pounds per hour)} \times (1-TE) \times (1-CE)$$

E = particulate matter emissions rate (lbs/hr)

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

CE = control efficiency of the control equipment.

- 1.b** Compliance with the visible particulate emissions limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(1).

Facility Name: **Cast-Fab Technologies, Inc.**
Facility ID: **14-31-07-3342**
Emissions Unit: **Paint Applicator - Small Castings (K003)**

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Paint Applicator for Small Castings (MF-2-P19-M4203)		

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: Paint Applicator - Small Castings (K006)
Activity Description: Paint Applicator used to paint medium/large castings.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Paint Applicator for Small Castings (MF-4-P19-M4103)	OAC rule 3745-21-09(U)(2)(e)(ii)	The maximum daily coating use for this emissions unit shall not exceed 3 gallons per day.
	OAC rule 3745-17-11(A) (Based on Table I)	0.551 lb/hour particulate emissions (PE)
	OAC rule 3745-17-07(A)(1)	See A.I.2.

2. Additional Terms and Conditions

- 2.a Visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.b Although the requirements of OAC rule 3745-21-09(U) allow for an exemption from applicable VOC content limitations, the daily usage exemption allowed in accordance with OAC rule 3745-21-09(U)(2)(e)(ii) is not part of the federally approved SIP (for the Hamilton County, Warren County, Butler County, and Clermont County ozone area). The rule has been revised by the Ohio EPA to specify an exemption level (3 gallons per day) that will be acceptable to the USEPA. The Ohio EPA has received confirmation from the USEPA of the acceptability of the lower exemption level; therefore, the 3 gallons per day usage restriction in Section A.I.1 above will serve as the exemption level while SIP approval by USEPA is being obtained.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for the coating line:
 - a. The name and identification number of each coating employed.
 - b. The volume, in gallons, of each coating employed.
 - c. The total volume, in gallons, of all of the coatings employed.

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 stack serving this emissions unit. The presence 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 notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the coating line employs more than the applicable maximum daily coating usage limit. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.
2. The permittee shall 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 Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

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

1.a Emission Limitation:

0.551 lb/hour PE

Compliance Method:

Compliance with the particulate emission limit shall be determined in accordance with the following method:

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

$$E = \text{maximum coating solids usage rate (in pounds per hour)} \times (1-TE) \times (1-CE)$$

E = particulate matter emissions rate (lbs/hr)

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

CE = control efficiency of the control equipment.

- 1.b** Compliance with the visible particulate emissions limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(1).

Facility Name: **Cast-Fab Technologies, Inc.**
Facility ID: **14-31-07-3342**
Emissions Unit: **Paint Applicator - Small Castings (K006)**

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Paint Applicator for Small Castings (MF-4-P19-M4103)		

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: Paint Applicator - Medium/Large Castings (K010)
Activity Description: Paint Applicator used to paint medium/large castings.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Paint Applicator for Medium/Large Castings (MF-8-P19-M3306)	OAC rule 3745-21-09(U)(2)(e)(ii)	The maximum daily coating use for this emissions unit shall not exceed 3 gallons per day.
	OAC rule 3745-17-11(A) (Based on Table I)	0.551 lb/hour particulate emissions (PE)
	OAC rule 3745-17-07(A)(1)	See A.I.2.

2. Additional Terms and Conditions

- 2.a Visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.b Although the requirements of OAC rule 3745-21-09(U) allow for an exemption from applicable VOC content limitations, the daily usage exemption allowed in accordance with OAC rule 3745-21-09(U)(2)(e)(ii) is not part of the federally approved SIP (for the Hamilton County, Warren County, Butler County, and Clermont County ozone area). The rule has been revised by the Ohio EPA to specify an exemption level (3 gallons per day) that will be acceptable to the USEPA. The Ohio EPA has received confirmation from the USEPA of the acceptability of the lower exemption level; therefore, the 3 gallons per day usage restriction in Section A.I.1 above will serve as the exemption level while SIP approval by USEPA is being obtained.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for the coating line:
 - a. The name and identification number of each coating employed.
 - b. The volume, in gallons, of each coating employed.
 - c. The total volume, in gallons, of all of the coatings employed.

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 stack serving this emissions unit. The presence 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 notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the coating line employs more than the applicable maximum daily coating usage limit. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.
2. The permittee shall 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 Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

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

1.a Emission Limitation:

0.551 lb/hour PE

Compliance Method:

Compliance with the particulate emission limit shall be determined in accordance with the following method:

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

$$E = \text{maximum coating solids usage rate (in pounds per hour)} \times (1-TE) \times (1-CE)$$

E = particulate matter emissions rate (lbs/hr)

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

CE = control efficiency of the control equipment.

- 1.b** Compliance with the visible particulate emissions limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(1).

Facility Name: **Cast-Fab Technologies, Inc.**
Facility ID: **14-31-07-3342**
Emissions Unit: **Paint Applicator - Medium/Large Castings (K010)**

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Paint Applicator for Medium/Large Castings (MF-8-P19-M3306)		

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: Paint Applicator - Medium/Large Castings (K011)

Activity Description: Paint Applicator used to paint medium/large castings.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Paint Applicator for Medium/Large Castings (MF-9-P19-M3602)	OAC rule 3745-21-09(U)(2)(e)(ii)	The maximum daily coating use for this emissions unit shall not exceed 3 gallons per day.
	OAC rule 3745-17-11(A) (Based on Table I)	0.551 lb/hour particulate emissions (PE)
	OAC rule 3745-17-07(A)(1)	See A.I.2.

2. Additional Terms and Conditions

- 2.a Visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.b Although the requirements of OAC rule 3745-21-09(U) allow for an exemption from applicable VOC content limitations, the daily usage exemption allowed in accordance with OAC rule 3745-21-09(U)(2)(e)(ii) is not part of the federally approved SIP (for the Hamilton County, Warren County, Butler County, and Clermont County ozone area). The rule has been revised by the Ohio EPA to specify an exemption level (3 gallons per day) that will be acceptable to the USEPA. The Ohio EPA has received confirmation from the USEPA of the acceptability of the lower exemption level; therefore, the 3 gallons per day usage restriction in Section A.I.1 above will serve as the exemption level while SIP approval by USEPA is being obtained.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for the coating line:
 - a. The name and identification number of each coating employed.
 - b. The volume, in gallons, of each coating employed.
 - c. The total volume, in gallons, of all of the coatings employed.

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 stack serving this emissions unit. The presence 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 notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the coating line employs more than the applicable maximum daily coating usage limit. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.
2. The permittee shall 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 Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

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

1.a Emission Limitation:

0.551 lb/hour PE

Compliance Method:

Compliance with the particulate emission limit shall be determined in accordance with the following method:

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

$$E = \text{maximum coating solids usage rate (in pounds per hour)} \times (1-TE) \times (1-CE)$$

E = particulate matter emissions rate (lbs/hr)

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

CE = control efficiency of the control equipment.

- 1.b** Compliance with the visible particulate emissions limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(1).

Facility Name: **Cast-Fab Technologies, Inc.**
Facility ID: **14-31-07-3342**
Emissions Unit: **Paint Applicator - Medium/Large Castings (K011)**

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Paint Applicator for Medium/Large Castings (MF-9-P19-M3602)		

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: Paint Applicator - Medium/Large Castings (K012)
Activity Description: Paint Applicator used to paint medium/large castings.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Paint Applicator for Medium/Large Castings (MF-10-P19-M3602)	OAC rule 3745-21-09(U)(2)(e)(ii)	The maximum daily coating use for this emissions unit shall not exceed 3 gallons per day.
	OAC rule 3745-17-11(A) (Based on Table I)	0.551 lb/hour particulate emissions (PE)
	OAC rule 3745-17-07(A)(1)	See A.I.2.

2. Additional Terms and Conditions

- 2.a Visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.b Although the requirements of OAC rule 3745-21-09(U) allow for an exemption from applicable VOC content limitations, the daily usage exemption allowed in accordance with OAC rule 3745-21-09(U)(2)(e)(ii) is not part of the federally approved SIP (for the Hamilton County, Warren County, Butler County, and Clermont County ozone area). The rule has been revised by the Ohio EPA to specify an exemption level (3 gallons per day) that will be acceptable to the USEPA. The Ohio EPA has received confirmation from the USEPA of the acceptability of the lower exemption level; therefore, the 3 gallons per day usage restriction in Section A.I.1 above will serve as the exemption level while SIP approval by USEPA is being obtained.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for the coating line:
 - a. The name and identification number of each coating employed.
 - b. The volume, in gallons, of each coating employed.
 - c. The total volume, in gallons, of all of the coatings employed.

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 stack serving this emissions unit. The presence 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 notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the coating line employs more than the applicable maximum daily coating usage limit. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.
2. The permittee shall 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 Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

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

1.a Emission Limitation:

0.551 lb/hour PE

Compliance Method:

Compliance with the particulate emission limit shall be determined in accordance with the following method:

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

$$E = \text{maximum coating solids usage rate (in pounds per hour)} \times (1-TE) \times (1-CE)$$

E = particulate matter emissions rate (lbs/hr)

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

CE = control efficiency of the control equipment.

- 1.b** Compliance with the visible particulate emissions limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(1).

Facility Name: **Cast-Fab Technologies, Inc.**
Facility ID: **14-31-07-3342**
Emissions Unit: **Paint Applicator - Medium/Large Castings (K012)**

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Paint Applicator for Medium/Large Castings (MF-10-P19-M3602)		

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: Paint Applicator - Medium/Large Castings (K013)
Activity Description: Paint Applicator used to paint medium/large castings.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Paint Applicator for Medium/Large Castings (MF-11-P19-M4204)	OAC rule 3745-21-09(U)(2)(e)(ii)	The maximum daily coating use for this emissions unit shall not exceed 3 gallons per day.
	OAC rule 3745-17-11(A) (Based on Table I)	0.551 lb/hour particulate emissions (PE)
	OAC rule 3745-17-07(A)(1)	See A.I.2.

2. Additional Terms and Conditions

- 2.a Visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.b Although the requirements of OAC rule 3745-21-09(U) allow for an exemption from applicable VOC content limitations, the daily usage exemption allowed in accordance with OAC rule 3745-21-09(U)(2)(e)(ii) is not part of the federally approved SIP (for the Hamilton County, Warren County, Butler County, and Clermont County ozone area). The rule has been revised by the Ohio EPA to specify an exemption level (3 gallons per day) that will be acceptable to the USEPA. The Ohio EPA has received confirmation from the USEPA of the acceptability of the lower exemption level; therefore, the 3 gallons per day usage restriction in Section A.I.1 above will serve as the exemption level while SIP approval by USEPA is being obtained.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for the coating line:
 - a. The name and identification number of each coating employed.
 - b. The volume, in gallons, of each coating employed.
 - c. The total volume, in gallons, of all of the coatings employed.

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 stack serving this emissions unit. The presence 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 notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the coating line employs more than the applicable maximum daily coating usage limit. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.
2. The permittee shall 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 Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

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

1.a Emission Limitation:

0.551 lb/hour PE

Compliance Method:

Compliance with the particulate emission limit shall be determined in accordance with the following method:

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

$$E = \text{maximum coating solids usage rate (in pounds per hour)} \times (1-TE) \times (1-CE)$$

E = particulate matter emissions rate (lbs/hr)

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

CE = control efficiency of the control equipment.

- 1.b** Compliance with the visible particulate emissions limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(1).

Facility Name: **Cast-Fab Technologies, Inc.**
Facility ID: **14-31-07-3342**
Emissions Unit: **Paint Applicator - Medium/Large Castings (K013)**

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Paint Applicator for Medium/Large Castings (MF-11-P19-M4204)		

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: Paint Applicator - Medium/Large Castings (K014)
Activity Description: Paint Applicator used to paint medium/large castings.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Paint Applicator for Medium/Large Castings (MF-12-P19-M4204)	OAC rule 3745-21-09(U)(2)(e)(ii)	The maximum daily coating use for this emissions unit shall not exceed 3 gallons per day.
	OAC rule 3745-17-11(A) (Based on Table I)	0.551 lb/hour particulate emissions (PE)
	OAC rule 3745-17-07(A)(1)	See A.I.2.

2. Additional Terms and Conditions

- 2.a Visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.b Although the requirements of OAC rule 3745-21-09(U) allow for an exemption from applicable VOC content limitations, the daily usage exemption allowed in accordance with OAC rule 3745-21-09(U)(2)(e)(ii) is not part of the federally approved SIP (for the Hamilton County, Warren County, Butler County, and Clermont County ozone area). The rule has been revised by the Ohio EPA to specify an exemption level (3 gallons per day) that will be acceptable to the USEPA. The Ohio EPA has received confirmation from the USEPA of the acceptability of the lower exemption level; therefore, the 3 gallons per day usage restriction in Section A.I.1 above will serve as the exemption level while SIP approval by USEPA is being obtained.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for the coating line:
 - a. The name and identification number of each coating employed.
 - b. The volume, in gallons, of each coating employed.
 - c. The total volume, in gallons, of all of the coatings employed.

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 stack serving this emissions unit. The presence 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 notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the coating line employs more than the applicable maximum daily coating usage limit. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.
2. The permittee shall 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 Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

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

1.a Emission Limitation:

0.551 lb/hour PE

Compliance Method:

Compliance with the particulate emission limit shall be determined in accordance with the following method:

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

$$E = \text{maximum coating solids usage rate (in pounds per hour)} \times (1-TE) \times (1-CE)$$

E = particulate matter emissions rate (lbs/hr)

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

CE = control efficiency of the control equipment.

- 1.b** Compliance with the visible particulate emissions limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(1).

Facility Name: **Cast-Fab Technologies, Inc.**
Facility ID: **14-31-07-3342**
Emissions Unit: **Paint Applicator - Medium/Large Castings (K014)**

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Paint Applicator for Medium/Large Castings (MF-12-P19-M4204)		

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: Paint Applicator - Medium/Large Castings (K015)
Activity Description: Paint Applicator used to paint medium/large castings.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Paint Applicator for Medium/Large Castings (MF-13-P20-M4527)	OAC rule 3745-21-09(U)(2)(e)(ii)	The maximum daily coating use for this emissions unit shall not exceed 3 gallons per day.
	OAC rule 3745-17-11(A) (Based on Table I)	0.551 lb/hour particulate emissions (PE)
	OAC rule 3745-17-07(A)(1)	See A.I.2.

2. Additional Terms and Conditions

- 2.a Visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.b Although the requirements of OAC rule 3745-21-09(U) allow for an exemption from applicable VOC content limitations, the daily usage exemption allowed in accordance with OAC rule 3745-21-09(U)(2)(e)(ii) is not part of the federally approved SIP (for the Hamilton County, Warren County, Butler County, and Clermont County ozone area). The rule has been revised by the Ohio EPA to specify an exemption level (3 gallons per day) that will be acceptable to the USEPA. The Ohio EPA has received confirmation from the USEPA of the acceptability of the lower exemption level; therefore, the 3 gallons per day usage restriction in Section A.I.1 above will serve as the exemption level while SIP approval by USEPA is being obtained.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for the coating line:
 - a. The name and identification number of each coating employed.
 - b. The volume, in gallons, of each coating employed.
 - c. The total volume, in gallons, of all of the coatings employed.

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 stack serving this emissions unit. The presence 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 notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the coating line employs more than the applicable maximum daily coating usage limit. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.
2. The permittee shall 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 Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

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

1.a Emission Limitation:

0.551 lb/hour PE

Compliance Method:

Compliance with the particulate emission limit shall be determined in accordance with the following method:

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

$$E = \text{maximum coating solids usage rate (in pounds per hour)} \times (1-TE) \times (1-CE)$$

E = particulate matter emissions rate (lbs/hr)

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

CE = control efficiency of the control equipment.

- 1.b** Compliance with the visible particulate emissions limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(1).

Facility Name: **Cast-Fab Technologies, Inc.**
Facility ID: **14-31-07-3342**
Emissions Unit: **Paint Applicator - Medium/Large Castings (K015)**

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Paint Applicator for Medium/Large Castings (MF-13-P20-M4527)		

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: Paint Applicator - Heavy Fab (K016)
Activity Description: Paint Applicator used to paint steel fabrications.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Paint Applicator for Heavy Fabrications (MF-14-P20-M4527 S1&S2)	OAC rule 3745-21-09(U)(2)(e)(ii)	The maximum daily coating use for this emissions unit shall not exceed 3 gallons per day.
	OAC rule 3745-17-11(A) (Based on Table I)	0.551 lb/hour particulate emissions (PE)
	OAC rule 3745-17-07(A)(1)	See A.I.2.

2. Additional Terms and Conditions

- 2.a Visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.b Although the requirements of OAC rule 3745-21-09(U) allow for an exemption from applicable VOC content limitations, the daily usage exemption allowed in accordance with OAC rule 3745-21-09(U)(2)(e)(ii) is not part of the federally approved SIP (for the Hamilton County, Warren County, Butler County, and Clermont County ozone area). The rule has been revised by the Ohio EPA to specify an exemption level (3 gallons per day) that will be acceptable to the USEPA. The Ohio EPA has received confirmation from the USEPA of the acceptability of the lower exemption level; therefore, the 3 gallons per day usage restriction in Section A.I.1 above will serve as the exemption level while SIP approval by USEPA is being obtained.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for the coating line:
 - a. The name and identification number of each coating employed.
 - b. The volume, in gallons, of each coating employed.
 - c. The total volume, in gallons, of all of the coatings employed.

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 stack serving this emissions unit. The presence 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 notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the coating line employs more than the applicable maximum daily coating usage limit. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.
2. The permittee shall 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 Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

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

1.a Emission Limitation:

0.551 lb/hour PE

Compliance Method:

Compliance with the particulate emission limit shall be determined in accordance with the following method:

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

$$E = \text{maximum coating solids usage rate (in pounds per hour)} \times (1-TE) \times (1-CE)$$

E = particulate matter emissions rate (lbs/hr)

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

CE = control efficiency of the control equipment.

- 1.b** Compliance with the visible particulate emissions limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(1).

Facility Name: **Cast-Fab Technologies, Inc.**
Facility ID: **14-31-07-3342**
Emissions Unit: **Paint Applicator - Heavy Fab (K016)**

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Paint Applicator for Heavy Fabrications (MF-14-P20-M4527 S1&S2)		

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: Paint Applicator - Heavy Fab (K017)
Activity Description: Paint Applicator used to paint steel fabrications.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Paint Applicator for Heavy Fabrications (MF-15-P20-M4527 S1&S2)	OAC rule 3745-21-09(U)(2)(e)(ii)	The maximum daily coating use for this emissions unit shall not exceed 3 gallons per day.
	OAC rule 3745-17-11(A) (Based on Table I)	0.551 lb/hour particulate emissions (PE)
	OAC rule 3745-17-07(A)(1)	See A.I.2.

2. Additional Terms and Conditions

- 2.a** Visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- 2.b** Although the requirements of OAC rule 3745-21-09(U) allow for an exemption from applicable VOC content limitations, the daily usage exemption allowed in accordance with OAC rule 3745-21-09(U)(2)(e)(ii) is not part of the federally approved SIP (for the Hamilton County, Warren County, Butler County, and Clermont County ozone area). The rule has been revised by the Ohio EPA to specify an exemption level (3 gallons per day) that will be acceptable to the USEPA. The Ohio EPA has received confirmation from the USEPA of the acceptability of the lower exemption level; therefore, the 3 gallons per day usage restriction in Section A.I.1 above will serve as the exemption level while SIP approval by USEPA is being obtained.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each day for the coating line:
 - a. The name and identification number of each coating employed.
 - b. The volume, in gallons, of each coating employed.
 - c. The total volume, in gallons, of all of the coatings employed.

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 stack serving this emissions unit. The presence 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 notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the coating line employs more than the applicable maximum daily coating usage limit. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.
2. The permittee shall 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 Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

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

1.a Emission Limitation:

0.551 lb/hour PE

Compliance Method:

Compliance with the particulate emission limit shall be determined in accordance with the following method:

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

$$E = \text{maximum coating solids usage rate (in pounds per hour)} \times (1-TE) \times (1-CE)$$

E = particulate matter emissions rate (lbs/hr)

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

CE = control efficiency of the control equipment.

- 1.b** Compliance with the visible particulate emissions limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(1).

Facility Name: **Cast-Fab Technologies, Inc.**
Facility ID: **14-31-07-3342**
Emissions Unit: **Paint Applicator - Heavy Fab (K017)**

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Paint Applicator for Heavy Fabrications (MF-15-P20-M4527 S1&S2)		

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: Medium Mold Line Abrasive Clean (P014)
Activity Description: Steel shot blast used to clean medium iron castings.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Medium Mold Line Abrasive Cleaning	OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(A) (Based on Figure II)	See A.I.2. 4.76 lbs/hr particulate emissions (PE)

2. Additional Terms and Conditions

- 2.a Visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

II. Operational Restrictions

1. The following pressure drop across the cartridge unit shall be maintained within the range specified below while the emissions unit is in operation except during startup and initial loading of filters following filter changes:

Cartridge Unit	Pressure Drop
CF-03	1.5 - 6.0 inches of water

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the cartridge unit listed in A.II.1 while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the cartridge unit on a daily basis.

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 each cartridge unit did not comply with the allowable range specified in A.II.1 except during startup and initial loading of the filters following filter changes.

V. Testing Requirements

1. Compliance with the visible particulate emissions limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(1).

V. Testing Requirements (continued)

2. Compliance with the particulate emission limitation shall be demonstrated by the following:

lbs/hr PE = 1.4 tons castings cleaned/hour (max. hourly rate) x 17 lbs PE/ton castings cleaned (emission factor from AP-42 Table 12.10-7) x (1-.98) (overall control efficiency)

3. If testing is required to determine compliance with the allowable PE emission limitation, then testing shall be conducted using Method 5 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Medium Mold Line Abrasive Cleaning		

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: Large Mold Line Abrasive Clean (P015)

Activity Description: Steel shot blast used to clean large iron castings.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Large Mold Line Abrasive Cleaning	OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(A) (Based on Figure II)	See A.I.2. 8.0 lbs/hr particulate emissions (PE)

2. Additional Terms and Conditions

- 2.a Visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

II. Operational Restrictions

1. The following pressure drop across the cartridge unit shall be maintained within the range specified below while the emissions unit is in operation except during startup and initial loading of filters following filter changes:

Cartridge Unit	Pressure Drop
CF-03	1.5 - 6.0 inches of water

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the cartridge unit listed in A.II.1 while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the cartridge unit on a daily basis.

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 each cartridge unit did not comply with the allowable range specified in A.II.1 except during startup and initial loading of the filters following filter changes.

V. Testing Requirements

1. Compliance with the visible particulate emissions limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(1).

V. Testing Requirements (continued)

2. Compliance with the particulate emission limitation shall be demonstrated by the following:

lbs/hr PE = 3.44 tons castings cleaned/hour (max. hourly rate) x 17 lbs PE/ton castings cleaned (emission factor from AP-42 Table 12.10-7) x (1-.98) (overall control efficiency)

3. If testing is required to determine compliance with the allowable PE emission limitation, then testing shall be conducted using Method 5 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Large Mold Line Abrasive Cleaning		

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: Small Mold Line Abrasive Clean (P016)
Activity Description: Steel shot blast used to clean small iron castings.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Small Mold Line Abrasive Cleaning	OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(A) (Based on Figure II)	See A.I.2. 3.72 lbs/hr particulate emissions (PE)

2. Additional Terms and Conditions

- 2.a Visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

II. Operational Restrictions

1. The following pressure drop across the cartridge unit shall be maintained within the range specified below while the emissions unit is in operation except during startup and initial loading of filters following filter changes:

Cartridge Unit	Pressure Drop
CF-03	1.5 - 6.0 inches of water

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the cartridge unit listed in A.II.1 while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the cartridge unit on a daily basis.

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 each cartridge unit did not comply with the allowable range specified in A.II.1 except during startup and initial loading of the filters following filter changes.

V. Testing Requirements

1. Compliance with the visible particulate emissions limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(1).

V. Testing Requirements (continued)

2. Compliance with the particulate emission limitation shall be demonstrated by the following:

lbs/hr PE = 1.1 tons castings cleaned/hour (max. hourly rate) x 17 lbs PE/ton castings cleaned (emission factor from AP-42 Table 12.10-7) x (1-.98) (overall control efficiency)

3. If testing is required to determine compliance with the allowable PE emission limitation, then testing shall be conducted using Method 5 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Small Mold Line Abrasive Cleaning		

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: Pneumatic Sand Handling System (P026)

Activity Description: System used to transport sand to mold lines and large core-making operations.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Pneumatic Sand Handling System	OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(A) (Based on Figure II)	See A.I.2. 36.9 lbs/hr particulate emissions (PE)

2. Additional Terms and Conditions

- 2.a Visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

II. Operational Restrictions

- The pressure drops across the baghouses shall be maintained within the ranges specified below while the emissions unit is in operation except during startup and initial loading of filters following filter changes:

Baghouse	Pressure Drop
BH-05	1.5 - 8.5 psia
BH-06	1.5 - 8.5 psia
BH-07	1.5 - 8.5 psia
CF-02	1.5 - 6.0 inches of water
CF-04	1.5 - 8.5 psia
CF-05	1.5 - 8.5 psia

III. Monitoring and/or Record Keeping Requirements

- The permittee shall properly operate and maintain equipment to monitor the pressure drops across the baghouses listed in A.II.1 while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across each baghouse on a daily basis.

IV. Reporting Requirements

- The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across each baghouse did not comply with the allowable range specified in A.II.1 except during startup and initial loading of the filters following filter changes.

V. Testing Requirements

1. Compliance with the visible particulate emissions limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(1).

2. Compliance with the particulate emission limitation shall be demonstrated by the following:

$\text{lbs/hr PE} = \text{tons of sand handled/hour (max. hourly rate)} \times 7.2 \text{ lb/ton sand handled (emission factor from AP-42 Table 12.10-7)} \times (1 - .97) \text{ (overall control efficiency)}$.

3. If testing is required to determine compliance with the allowable PE emission limitation, then testing shall be conducted using Method 5 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Pneumatic Sand Handling System		

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: Small/Medium Line Grinding Booths (P029)
Activity Description: Grinding booths used to clean small and medium castings.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Small/Medium Line Grinding Booths	OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(A) (Based on Figure II)	See A.I.2. 12.87 lbs/hr particulate emissions (PE)

2. Additional Terms and Conditions

- 2.a Visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly inspections of the baghouse controlling this emissions unit. At a minimum, these weekly inspections shall include the following:
 - a. A visual leak check of the duct work leading to the baghouse.
 - b. A visual inspection of the filter bags contained in the baghouse.
 - c. A check of any visible emissions exiting the baghouse.

The permittee shall collect and record the results of each inspection in a log book. If any problems are noted during the weekly inspection, the measures taken to correct the problems should be noted.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which summarize the information required in Section A.III.1. above. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the visible particulate emissions limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(1).

V. Testing Requirements (continued)

2. Compliance with the particulate emission limitation shall be demonstrated by the following:

lbs/hr PE = 7.19 tons castings cleaned/hour (max. hourly rate) x 17 lbs PE/ton castings cleaned (emission factor from AP-42 Table 12.10-7) x (1-.98) (overall control efficiency)

3. If testing is required to determine compliance with the allowable PE emission limitation, then testing shall be conducted using Method 5 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Small/Medium Line Grinding Booths		

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: Small Mold Line Casting Shakeout (P030)

Activity Description: Small casting 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Small Mold Line Casting Shakeout	OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(A) (Based on Figure II)	See A.I.2. 6.0 lbs/hr particulate emissions (PE)

2. Additional Terms and Conditions

- 2.a Visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

II. Operational Restrictions

1. **None**

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly inspections of the baghouse controlling this emissions unit. At a minimum, these weekly inspections shall include the following:
 - a. A visual leak check of the duct work leading to the baghouse.
 - b. A visual inspection of the filter bags contained in the baghouse.
 - c. A check of any visible emissions exiting the baghouse.

The permittee shall collect and record the results of each inspection in a log book. If any problems are noted during the weekly inspection, the measures taken to correct the problems should be noted.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which summarize the information required in Section A.III.1. above. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the visible particulate emissions limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(1).

V. Testing Requirements (continued)

2. Compliance with the particulate emission limitation shall be demonstrated by the following:

lbs/hr PE = 11.7 tons metal shakeout/hour (max. hourly rate) x 3.2 lbs PE/ton shakeout (emission factor from AP-42 Table 12.10-7) x (1-.94) (overall control efficiency)

3. If testing is required to determine compliance with the allowable PE emission limitation, then testing shall be conducted using Method 5 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Small Mold Line Casting Shakeout		

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: Medium Mold Line Casting Shakeout (P031)

Activity Description: Medium casting 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Medium Mold Line Casting Shakeout	OAC rule 3745-17-07(A)(1)	See A.I.2.
	OAC rule 3745-17-11(A) (Based on Figure II)	2.94 lbs/hr particulate emissions (PE)

2. Additional Terms and Conditions

- 2.a Visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly inspections of the baghouse controlling this emissions unit. At a minimum, these weekly inspections shall include the following:
 - a. A visual leak check of the duct work leading to the baghouse.
 - b. A visual inspection of the filter bags contained in the baghouse.
 - c. A check of any visible emissions exiting the baghouse.

The permittee shall collect and record the results of each inspection in a log book. If any problems are noted during the weekly inspection, the measures taken to correct the problems should be noted.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which summarize the information required in Section A.III.1. above. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the visible particulate emissions limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(1).
2. Compliance with the particulate emission limitation shall be demonstrated by the following:

lbs/hr PE = 4.6 tons metal shakeout/hour (max. hourly rate) x 3.2 lbs PE/ton shakeout (emission factor from AP-42 Table 12.10-7) x (1-.94) (overall control efficiency)
3. If testing is required to determine compliance with the allowable PE emission limitation, then testing shall be conducted using Method 5 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Medium Mold Line Casting Shakeout		

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: Large Mold Line Casting Shakeout (P032)

Activity Description: Large casting 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Large Mold Line Casting Shakeout	OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(A) (Based on Figure II)	See A.I.2. 9.53 lbs/hr particulate emissions (PE)

2. Additional Terms and Conditions

- 2.a Visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly inspections of the baghouse controlling this emissions unit. At a minimum, these weekly inspections shall include the following:
 - a. A visual leak check of the duct work leading to the baghouse.
 - b. A visual inspection of the filter bags contained in the baghouse.
 - c. A check of any visible emissions exiting the baghouse.

The permittee shall collect and record the results of each inspection in a log book. If any problems are noted during the weekly inspection, the measures taken to correct the problems should be noted.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which summarize the information required in Section A.III.1. above. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the visible particulate emissions limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(1).

V. Testing Requirements (continued)

2. Compliance with the particulate emission limitation shall be demonstrated by the following:

lbs/hr PE = 24.0 tons metal shakeout/hour (max. hourly rate) x 3.2 lbs PE/ton shakeout (emission factor from AP-42 Table 12.10-7) x (1-.94) (overall control efficiency)

3. If testing is required to determine compliance with the allowable PE emission limitation, then testing shall be conducted using Method 5 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Large Mold Line Casting Shakeout		

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: Swing Grinding (P034)
Activity Description: Swing casting 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Swing Grinding	OAC rule 3745-17-07(B)(1)	See A.I.2.
	OAC rule 3745-17-08(B)	See A.I.2.b.

2. Additional Terms and Conditions

- 2.a Visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a three-minute average.
- 2.b The permittee shall employ reasonably available control measures (RACM) to minimize or eliminate visible emissions of fugitive dust. Currently, there are no RACM measures specified 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 fugitive emissions from this emissions unit. The presence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any abnormal visible emission incident; and
 - e. any corrective actions taken to eliminate the abnormal visible emissions.

IV. Reporting Requirements

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

V. Testing Requirements

1. Compliance with the fugitive visible particulate emissions limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(3).

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Swing Grinding		

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: Small Mold Line Mold-making and Sand Preparation (P036)

Activity Description: Preparation of sand for use in molds.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Small Mold Line Mold-Making and Sand Preparation	OAC rule 3745-17-07(A)(1)	See A.I.2.
	OAC rule 3745-17-11(A) (Based on Figure II)	12.46 lbs/hr particulate emissions (PE)

2. Additional Terms and Conditions

- 2.a Visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform weekly inspections of the baghouse controlling this emissions unit. At a minimum, these weekly inspections shall include the following:
 - a. A visual leak check of the duct work leading to the baghouse.
 - b. A visual inspection of the filter bags contained in the baghouse.
 - c. A check of any visible emissions exiting the baghouse.

The permittee shall collect and record the results of each inspection in a log book. If any problems are noted during the weekly inspection, the measures taken to correct the problems should be noted.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which summarize the information required in Section A.III.1. above. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the visible particulate emissions limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(1).
2. Compliance with the particulate emission limitation shall be demonstrated by the following:

lbs/hr PE = mold production/hour (max. hourly rate) x 7.2 lb/ton mold production (emission factor from AP-42 Table 12.10-7) x (1-.94) (overall control efficiency).
3. If testing is required to determine compliance with the allowable PE emission limitation, then testing shall be conducted using Method 5 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Small Mold Line Mold-Making and Sand Preparation		

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: Sand Reclamation (P038)

Activity Description: Sand Reclaimer is used to reclaim sand from used molds.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Sand Reclamation	OAC rule 3745-17-07(A)(1)	See A.I.2.
	OAC rule 3745-17-11(A) (Based on Figure II)	18.60 lbs/hr particulate emissions (PE)

2. Additional Terms and Conditions

- Visible particulate emissions from this emissions unit shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

II. Operational Restrictions

- The following pressure drops across the baghouses shall be maintained within the range specified below while the emissions unit is in operation except during startup and initial loading of filters following filter changes:

Baghouse	Pressure Drop
CF-01	1.5 - 6.0 inches of water
BH-03	1.5 - 6.0 inches of water

III. Monitoring and/or Record Keeping Requirements

- The permittee shall properly operate and maintain equipment to monitor the pressure drops across the baghouses listed in A.II.1 while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across each baghouse on a daily basis.

IV. Reporting Requirements

- The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across each baghouse did not comply with the allowable range specified in A.II.1 except during startup and initial loading of the filters following filter changes.

V. Testing Requirements

- Compliance with the visible particulate emissions limit shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B)(1).

V. Testing Requirements (continued)

2. Compliance with the particulate emission limitation shall be demonstrated by the following:

lbs/hr PE = tons of sand handled/hour (max. hourly rate) x 7.2 lb/ton sand handled (emission factor from AP-42 Table 12.10-7) x (1-.95) (overall control efficiency).

3. If testing is required to determine compliance with the allowable PE emission limitation, then testing shall be conducted using Method 5 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Sand Reclamation		

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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